



Jack C. Hicks
Manager, Regulatory Affairs

**Comanche Peak
Nuclear Power Plant
(Vistra Operations
Company LLC)**
P.O. Box 1002
6322 North FM 56
Glen Rose, TX 76043

T 254.897.6725

CP-202300160
TXX-23021
April 27, 2023

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Ref TS 5.6.2/ODCM

Subject: Comanche Peak Nuclear Power Plant (CPNPP)
Docket Nos. 50-445 and 50-446
2022 Annual Radiological Environmental Operating Report

Dear Sir or Madam:

Vistra Operations Company LLC ("Vistra OpCo") hereby submits the Comanche Peak Nuclear Power Plant (CPNPP) 2022 Annual Radiological Environmental Operating Report. The enclosed report is provided pursuant to CPNPP Technical Specification 5.6.2 and the CPNPP Offsite Dose Calculation Manual. The report covers the period from January 1, 2022 to December 31, 2022.

This letter contains no new regulatory commitments for CPNPP Unit 1 and Unit 2.

If you have any questions regarding this submittal, please contact Kassie Mandrell at (254) 897-6628 or Kassie.Mandrell@luminant.com.

Sincerely,



Jack C. Hicks

Enclosure: CPNPP 2022 Annual Radiological Environmental Operating Report

c (email) - Robert Lewis, Region IV [Robert.Lewis@nrc.gov]
Dennis Galvin, NRR [Dennis.Galvin@nrc.gov]
John Ellegood, Senior Resident Inspector, CPNPP [John.Ellegood@nrc.gov]
David Nani, Resident Inspector, CPNPP [David.Nani@nrc.gov]

LUMINANT

COMANCHE PEAK NUCLEAR POWER PLANT

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

JANUARY 1, 2022 through DECEMBER 31, 2022

LUMINANT REVIEW and APPROVAL

CREATED BY:  3-28-23
Todd Emery
Radiation Protection Technician
Date

REVIEWED BY:  3/28/23
Shari Mosty
Health Physics Supervisor
Date

APPROVED BY:  3.28.23
Shane Howe
Radiation Protection Manager
Date

Documented on RPI-710-2

Table of Contents

<u>Section</u>	<u>Title</u>	
I.	Introduction	
A.	Site and Station Description	page 5
B.	Objectives and Overview of the CPNPP Radiological Environmental Monitoring Program	page 5
II.	Program Descriptions and Results	
A.	Sample Locations	page 7
	Table 1 -- Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program	
	Table 2 -- Key to Environmental Sampling Locations	
B.	Direct Radiation Program	page 11
	Methods, Procedures and Result Summaries	
	Exceptions to the Program	
	Table 3 -- ISFSI Environmental Direct Radiation Results	
	Table 4 -- Environmental Direct Radiation Results	
	Table 5 -- TLD Trend Quarterly Average	
C.	Airborne Program	page 17
	Methods, Procedures and Result Summaries	
	Exceptions to the Program	
	Table 6 -- Environmental Airborne Particulate Gross Beta Results	
	Graph 1 -- Environmental Air Sample Gross Beta Results – Maximum and Minimum	
	Graph 2 -- Environmental Airborne Particulate Gross Beta Results By Station.	
	Table 7 -- Environmental Air Sample Iodine-131 Results	

D. Discharge Pathway Surface Water Program **page 22**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

**Graph 3-- Environmental Discharge Pathway Surface Water
Tritium Results**

**E. Squaw Creek and Lake Granbury Surface Water
Program** **page 24**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

**Graph 4-- Squaw Creek Maximum Tritium Values
Graph 5-- Environmental Squaw Creek and Lake Granbury
Surface Water Tritium Results**

F. Groundwater Program **page 26**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

G. Sediment Program **page 27**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

H. Fish Program **page 28**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

I. Food Products Program **page 29**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

J. Broadleaf Program **page 30**

**Methods, Procedures and Result Summaries
Exceptions to the Program**

K. Conclusions **page 31**

L. Inter Laboratory Comparison and Cross Check Program **page 31**

III. Appendix A Gel Environmental Lab Results

III. Appendix B Comanche Peak Nuclear Power Plant Land Use Census

Introduction

Results of the Radiological Environmental Monitoring Program for the Comanche Peak Nuclear Power Plant (CPNPP) are contained within this report. This report covers the period from January 1, 2022 through December 31, 2022 and summarizes the results of measurements and analysis of data obtained from environmental samples collected during this same timeframe.

A. Site and Station Description

CPNPP consists of two pressurized water reactor units, each designed to operate at a power level of about 1250 megawatts (electrical). The Station is located on Squaw Creek reservoir in Somervell and Hood counties, about forty miles southwest of Fort Worth, Texas. Unit 1 received a low power operating license February 8, 1990 and achieved initial criticality on April 3, 1990. A full power license for Unit 1 was issued on April 17, 1990 and commercial operation was declared on August 13, 1990. Unit 2 achieved initial criticality on March 24, 1993 and synchronized to the electrical grid on April 9, 1993.

B. Objectives and Overviews of the CPNPP Radiological Environmental Monitoring Program

The United States Nuclear Regulatory Commission (USNRC) regulations require that nuclear power plants be designed, constructed, and operated to keep levels of radioactive material in effluents to unrestricted areas as low as reasonably achievable (ALARA). To assure that these criteria are met, each license authorizing reactor operation includes technical specifications governing the release of radioactive effluents.

In-plant monitoring is used to assure that these predetermined release limits are not exceeded. However, as a precaution against unexpected and undefined processes that might allow undue accumulation of radioactivity in any sector of the environment, a program for monitoring the plant environs is also included.

Sampling locations were selected on the basis of local ecology, meteorology, physical characteristics of the region, and demographic and land use features of the site vicinity. The radiological environmental monitoring program was designed on the basis of the USNRC Branch Technical Position "An Acceptable Radiological Environmental Monitoring Program" on radiological environmental monitoring issued by the Radiological Assessment Branch, Revision 1 (November 1979), the CPNPP Technical Specification "Technical Specifications for Comanche Peak Nuclear Power Plant Units 1 and 2" and the "CPSES Offsite Dose Calculation Manual" (ODCM).

The Radiological Environmental Monitoring Program includes the following:

- The measurement of ambient gamma radiation by Thermal Luminescent dosimetry
- The determination of airborne gross beta, gamma emitters, and Iodine-131
- The determination of tritium and gamma emitters in Discharge Pathway surface water
- The determination of gross beta, tritium, Iodine-131, and gamma emitters in potential drinking water sources
- The determination of tritium and gamma emitters in ground water and fish
- The determination of gamma emitters in sediment
- The determination of gamma emitters in food products
- The determination of gamma emitters and Iodine-131 in broadleaf vegetation

The regulations governing the quantities of radioactivity in reactor effluents allow nuclear power plants to contribute, at most, only a small percentage increase above normal background radioactivity. Background levels at any one location are not constant but vary with time as they are influenced by external events such as cosmic ray bombardment; weapons test fallout, and seasonal variations. These levels also can vary spatially within relatively short distances reflecting variations in geological composition. To differentiate between background radiation levels and increases resulting from operation of CPNPP, the radiological surveys of the plant environs were divided into pre-operational and operational phases.

The pre-operational phase of the program provided a general characterization of the radiation levels and concentrations prevalent in these areas prior to plant operation along with an indication of the degree of natural variation to be expected. The operational phase of the program obtains data which, when considered along with the data obtained in the pre-operational phase, assists in the evaluation of the radiological impact of plant operation.

Pre-operational measurements were conducted at CPNPP from 1981 to 1989. These pre-operational measurements were performed to:

- Evaluate procedures, equipment, and techniques
- Identify potentially important pathways to be monitored after plant operation
- Measure background levels and the variations along potentially important pathways
- Provide baseline data for statistical comparisons with future operational analytical results

The operational Radiological Environmental Monitoring Program is conducted to:

- Verify that measurable concentrations of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurements and modeling of the environmental exposure pathways
- Verify the effectiveness of in-plant measures used for controlling the release of radioactive materials
- Identify changes in the areas at and beyond the site boundary that may impact the principal pathways of exposure

This report documents the **33rd** year of operational measurements and is submitted in accordance with the requirements of the CPSES Offsite Dose Calculation Manual, Part I, Administrative Control 6.9.1.3.

NOTE: Comanche Peak Steam Electric Station (CPSES) is equivalent to Comanche Peak Nuclear Power Plant (CPNPP).

NOTE: Thermo Luminescent Dosimeters (TLDs) and Dose of Legal Record (DLR) are equivalent.

Program Descriptions and Results

A. Sample Locations

Within a radius of twenty miles of the CPNPP site there are seventy-six (76) sample locations included in the monitoring program. The number of sample points and the specific locations for the sample points were determined by considering locations where the highest off-site environmental concentrations have been predicted from plant effluent source terms, site hydrology, and site meteorological conditions. Other factors considered were applicable regulations, population distribution, and ease of access to sampling stations, availability of samples at desired locations, security, and future program integrity. Additionally, an annual land use census is conducted to identify changes in the areas surrounding the plant. If changes are identified that impact the principle pathways of

exposure, appropriate changes to the radiological environmental monitoring program are implemented. A copy of the report "Comanche Peak Nuclear Power Plant Land Use Census" is provided in Appendix B to this report.

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program contains a brief outline of the current program. This table specifies the sample media type, the number of locations for each media type, the sector and distance identifier for each sample location, the sample frequency, the type of analysis required and the frequency each analysis is required to be performed (Analytical Frequency).

Table 2 – Key to Environmental Sampling Locations provides a reference that links the sampling point designations used in procedures and forms to the appropriate physical sample location (sector and distance) and to the correct sample type. This cross-reference enhances the ability to review data and tie the data to the correct sample points and to ensure all samples are collected and analyzed as specified.

Currently there are no milk sample locations within ten miles of the CPNPP site. CPNPP already samples extra broadleaf locations as required due to no milk locations within the ten-mile radius therefore, no changes to the program are necessary. Milk sampling will be resumed if any future annual land use census determines a dairy has been established within the specified area.

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program

Media	Number of Locations	Identification by Sector and Distance (miles)	Sampling Frequency (a)	Analysis	Analytical Frequency (a)
Gamma Exposure	47	N-1.45; N-4.4; N-6.5; N-9.4; NNE-1.1; NNE-5.65; NE-1.7; NE-4.8; ENE-2.5; ENE-5.0; E-0.5; E-1.9; E-3.5; E-4.2; ESE-1.4; ESE-4.7; SE-0.6 SE-1.3; SE-3.85; SE-4.6; SSE-1.3; SSE-4.4; SSE-4.5; S-1.5; S-4.2; SSW-1.1; SSW-4.4; SW-0.9; SW-4.8; SW-12.3; WSW-1.0; WSW-5.35; WSW-7.0; W-1.0; W-2.0; W-5.5; WNW-1.0; WNW-5.0; WNW-6.7; NW-1.0; NW-5.7; NW-9.9; NNW-1.35; NNW-4.6	Q, A	Thermo Luminescent (TLD) Dosimetry	Q, A
Air Particulate Air Iodine	8	N-9.4; E-3.5; SSE-4.5; SW-12.3; NW-1.0; N-1.45; SW/WSW-0.95; S/SSW-1.2	W	Gross Beta Gamma Isotopic Filter Gamma Isotopic Charcoal	W QC W
Discharge Pathway Surface Water	4	N-19.3; ESE-1.4; N-1.5; NE-7.4	M(b)	Gamma Isotopic Tritium	M QC
Surface Water & Drinking sources	2	NNW-0.1; N-9.9	M(c)	Gross Beta Gamma Isotopic Iodine-131 Tritium	M M QC
Ground Water	5	SSE-4.6; W-1.2; WSW-0.1; N-9.8; N-1.45	Q	Gamma Isotopic Tritium	Q Q
Sediment	4	N-9.9; NNE-1.0; NE-7.4; SE-5.3	SA	Gamma Isotopic	SA
Fish	2	NNE-8.0; SE-0.1	SA	Gamma Isotopic	SA
Food Products	1	ENE-9.0, E-4.2	MH	Gamma Isotopic Iodine-131	MH MH
Broadleaf Vegetation	3	N-1.45; SW-1.0; SW-13.5	M	Gamma Isotopic	M

(a) Frequency codes are: W-Weekly; M-Monthly; Q-Quarterly; QC-Quarterly Composite; MH-Monthly at Harvest; SA-Semiannual; A-Annual

(b) Surface water samples from Squaw Creek are monthly composites of weekly grab samples. Surface water samples from Lake Granbury are monthly grab samples.

(c) Surface water drinking samples are a monthly composite of weekly grab samples.

Table 2
Key to Environmental Sampling Locations

SAMPLING POINT	LOCATION (SECTOR-MILE)	SAMPLE TYPE*	SAMPLING POINT	LOCATION (SECTOR-MILE)	SAMPLE TYPE*
A1	N-1.45	A	R32	WSW-7.0	R
A2	N-9.4	A	R33	W-1.0	R
A3	E-3.5	A	R34	W-2.0	R
A4	SSE-4.5	A	R35	W-5.5	R
A5	S/SSW-1.2	A	R36	WNW-1.0	R
A6	SW-12.3	A	R37	WNW-5.0	R
A7	SW/WSW-0.95	A	R38	WNW-6.7	R
A8	NW-1.0	A	R39	NW-1.0	R
R1	N-1.45	R	R40	NW-5.7	R
R2	N-4.4	R	R41	NW-9.9	R
R3	N-6.5	R	R42	NNW-1.35	R
R4	N-9.4	R	R43	NNW-4.6	R
R5	NNE-1.1	R	R44	SE-0.6	R
R6	NNE-5.65	R	R45	SE-0.6	R
R7	NE-1.7	R	R46	SE-0.6	R
R8	NE-4.8	R	R47	SE-0.6	R
R9	ENE-2.5	R	SW1	N-1.5	SW
R10	ENE-5.0	R	SW2	N-9.9	SW/DW
R11	E-0.5	R	SW3	N-19.9	SW
R12	E-1.9	R	SW4	NE-7.4	SW
R13	E-3.5	R	SW5	ESE-1.4	SW
R14	E-4.2	R	SW6	NNW-0.1	SW/DW
R15	ESE-1.4	R	GW1	W-1.2	GW/DW
R16	ESE-4.7	R	GW2	WSW-0.1	GW/DW
R17	SE-1.3	R	GW3	SSE-4.6	GW/DW
R18	SE-3.85	R	GW4	N-9.8	GW/DW
R19	SE-4.6	R	GW5	N-1.45	GW/DW
R20	SSE-1.3	R	SS1	NNE-1.0	SS
R21	SSE-4.4	R	SS2	N-9.9	SS
R22	SSE-4.5	R	SS3	NE-7.4	SS
R23	S-1.5	R	SS4	SE-5.3	SS
R24	S-4.2	R	F1	ENE-2.0	F
R25	S/SSW-1.2	R	F2	NNE-8.0	F
R26	SSW-4.4	R	FP1	ENE-9.0	FP
R27	SW-0.9	R	FP2	E-4.2	FP
R28	SW-4.8	R	BL1	N-1.45	BL
R29	SW-12.3	R	BL2	SW-1.0	BL
R30	WSW-1.0	R	BL3	SW-13.5	BL
R31	WSW-5.35	R			

Sample Type*

A – AIR SAMPLE

F – FISH

SS – SHORELINE SEDIMENT

SW – SURFACE WATER

DW – DRINKING WATER

GW – GROUND WATER

R – DIRECT RADIATION

FP – FOOD PRODUCT

BL – BROADLEAF VEGETATION

B. Direct Radiation

Starting in 2013 Thermo Luminescent Dosimeters (TLDs) were used to determine the direct (ambient) radiation levels at the designated monitoring locations. The monitoring locations were chosen according to the criteria given in the USNRC Branch Technical Position on Radiation Monitoring (Revision 1, November 1979). The area around the station was divided into 16 radial sectors of 22-1/2 degrees each, corresponding to the cardinal points of the compass. TLDs were placed in each of these sectors. The TLDs were placed in two rings around the station. An inner ring was located as close as possible to the site boundary and an outer ring was located at a distance of 4 to 6 miles from the station. Eleven additional TLDs were located at points of special interest, including two control locations. For routine direct radiation measurements, two sets of the TLDs were used at each of the 43 monitoring locations. One set of TLDs was exchanged on a quarterly basis and a second set of TLDs was exchanged on a yearly basis. Additional sets of in-transit TLDs were used as control TLDs for the quarterly and annual TLDs.

Mirion Technologies provides and processes Thermo Luminescent Dosimeters (TLDs.) The TLDs are used to determine the direct (ambient) radiation levels in designated monitoring locations. Mirion Technologies is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP.)

D. C. Oakley's report "National Radiation Exposure in the United States", published in 1972, calculated a background radiation dose rate equivalent of 0.22 mR/day for the area surrounding Fort Worth, Texas. This calculated value varies widely with changes in location but represents an appropriate reference value to compare with actual measured TLD doses.

Using data from the pre-operational program for the two years prior to the startup of Unit 1, the quarterly TLDs averaged a calculated dose rate of 0.14 mR/day while the yearly TLDs averaged a calculated dose rate of 0.16 mR/day. The range of measured values from this same two-year period varied from a minimum of 0.11 mR/day to a maximum of 0.22 mR/day.

Table 4 – Environmental Direct Radiation Results contains the measured dose (mR) for each quarterly TLD from each of the 43 monitoring locations. The corresponding quarterly calculated dose rate (mR/day) values are listed as well. The statistical average doses (mR) and dose rate (mR/day) values for each set of quarterly TLDs is also displayed. Additionally, the table includes the total dose (mR) of all four quarters for each specific location.

As determined from raw data listed in Table 4, the measured dose rates of all the quarterly TLDs ranged from a minimum of **0.056 mR/day** to a maximum of **0.179 mR/day** with an average dose rate of **0.122 mR/day**. This resulted in an average quarterly dose of **11.26 mR** and a total annual dose of **44.558 mR** for all the forty-three monitoring stations.

Table 5 – DLR Trend Quarterly Average contains the average quarterly DLR data for the five most current years and the Annual totals for 2022 from each of the 43 monitoring locations. The implementation of the Mirion DLRs and the background subtract method used to report the data from the DLRs accounts for the lower values and accounts for consistent response from each location's total quarterly DLRs to the Annual DLRs. See CR-2013-004934 for additional clarification on the background subtraction method. The Quarterly average data was normalized to 91-day period starting in the 2019 Annual Environmental Report to provide consistency when comparing results during a calendar year.

As determined from raw data listed in Table 5, the measured dose rates of all the annual TLDs ranged from a minimum of **0.060 mR/day** to a maximum of **0.137 mR/day** with an average dose rate of **0.112 mR/day**. This resulted in an average quarterly dose of **10.20 mR** and a total annual dose average of **40.926 mR** for all the forty-three monitoring stations.

Comparing the pre-operational data and operational data collected through the year 2022 did not produce any anomalies. The direct radiation dose data was consistent with previous years of data during the pre-operational program. Annual Environmental TLDs were compared against the baseline data established in EV-TR-2019-005299-1 and no anomalies were identified.

During the year 2022, there were exceptions to the DLR Program.

AI-TR-2022-003969-4: While performing the quarterly environmental DLR change out, it was found location R8 was missing. Area searched for missing DLRs, but could not be located. Lost due to fence replacement.

AI-TR-2022-003969-9: Delayed change out of 3rd to 4th quarter environmental dosimeters due to vendor's equipment repairs.

AI-TR-2022-003969-10: While performing the quarterly DLR changeout Location R35 was missing due to fence replacement. As a result, the 3rd quarter and annual DLR for that location were lost.

AI-TR-2022-003969-13: 3rd Quarter Environmental TLD R43 had a false low reading. The dosimeter reading was 5 mrem and the controls read 16 mrem which are maintained in a lead shield.

AI-TR-2022-003969-14: While exchanging annual Environmental DLRs for R1, R2 and R6 it was noted that the vacuum seals were compromised leaving the dosimeters exposed to the elements.

AI-TR-2022-003827-1: Alternate calculation method utilized for 1st Quarter Environmental thermoluminescent data due to dosimetry processor no longer calculating dose data from raw element readings for doses less than 10 mrem. Sample locations R5, R7 and some control dosimeters were calculated in this manner to determine dose. Future environmental dosimetry data will need to be calculated in the same way for dosimeters averaging less than 10 mrem.

ISFSI PAD Environmental Direct Radiation (CR-2019-002770)

The total number of fuel dry casks located at the CPNPP ISFSI pad by the end of 2022 was fifty-four (54). The ISFSI PAD is located within the same CPNPP owner-controlled area as the Unit 1 and 2 Protected Area. Prior to 2019 Direct Radiation monitoring was accomplished and reported with the established owner-controlled area Direct Radiation monitoring programs. Table 3 – ISFSI Environmental Direct Radiation Results lists Four (4) TLDs that were added on each side of the PAD’s fence for radiation monitoring, trending, and reporting within the Annual Environmental Report (locations 44, 45, 46, and 47) in 2019.

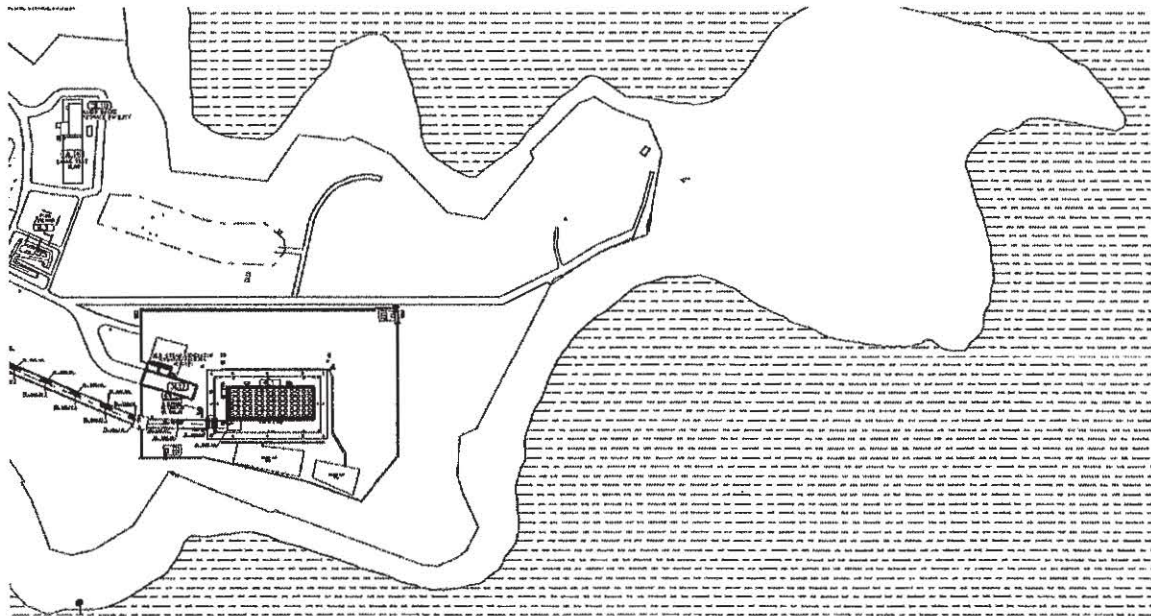


Table 3 – ISFSI Environmental Direct Radiation Results (Units of mR dose)

	1ST QTR	Average	2ND QTR	Average	3RD QTR	Average	4TH QTR	Average	AVG QTR TLD	Qtly TLD Average
Location	Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day
SE-0.6 R44	35	0.385	38	0.413	39	0.424	48	0.532	43	0.439
SE-0.6 R45	142	1.564	125	1.369	151	1.658	164	1.806	154	1.599
SE-0.6 R46	150	1.647	157	1.721	152	1.668	168	1.842	186	1.720
SE-0.6 R47	154	1.695	158	1.732	172	1.893	180	1.973	173	1.823
AVERAGES	120	1.323	120	1.309	129	1.411	140	1.538	127	1.395

Enclosure 4
Page 15 of 218
Table 4 - Environmental Direct Radiation Results (Units of mR dose and mR/day dose rate)

		1ST QTR	Average	2ND QTR	Average	3RD QTR	Average	4TH QTR	Average	AVG QTR TLD	Qtly TLD Average
Location		Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day	Total	mR/Day
N-1.45	R1	12	0.135	11	0.117	11	0.117	13	0.140	13	0.140
N-4.4	R2	12	0.135	12	0.128	16	0.179	14	0.151	12	0.137
N-6.5	R3	12	0.135	11	0.117	13	0.148	12	0.128	11	0.123
N-9.4	R4	11	0.123	11	0.117	14	0.158	13	0.140	11	0.126
NE-1.1	R5	7	0.076	8	0.084	7	0.077	8	0.092	7	0.075
NE-5.65	R6	12	0.135	12	0.128	12	0.128	14	0.151	12	0.134
NE-1.7	R7	7	0.076	8	0.084	7	0.077	8	0.092	7	0.078
NE-4.8	R8	11	0.123	*	*	10	0.107	11	0.116	11	0.047
ENE-2.5	R9	12	0.135	11	0.117	13	0.138	14	0.151	12	0.137
ENE-5.0	R10	9	0.100	13	0.139	13	0.138	15	0.163	12	0.137
E-0.5	R11	10	0.112	10	0.106	9	0.097	12	0.128	10	0.106
E-1.9	R12	10	0.112	9	0.095	8	0.087	11	0.116	10	0.106
E-3.5	R13	11	0.123	11	0.117	11	0.117	12	0.128	10	0.115
E-4.2	R14	13	0.147	12	0.128	12	0.128	12	0.128	12	0.129
ESE-1.4	R15	11	0.123	11	0.117	13	0.148	12	0.128	10	0.112
ESE-4.7	R16	12	0.136	12	0.128	13	0.148	13	0.140	11	0.123
SE-1.3	R17	11	0.123	12	0.128	13	0.148	13	0.140	10	0.112
SE-3.85	R18	10	0.112	10	0.106	13	0.138	12	0.128	10	0.115
SE-4.6	R19	11	0.123	13	0.139	13	0.138	11	0.116	10	0.109
SSE-1.3	R20	11	0.123	13	0.139	10	0.107	13	0.140	11	0.120
SSE-4.4	R21	10	0.112	11	0.117	9	0.097	12	0.128	9	0.104
SSE-4.5	R22	10	0.112	11	0.117	11	0.117	12	0.128	11	0.126
S-1.5	R23	10	0.112	10	0.106	10	0.107	12	0.128	9	0.104
S-4.2	R24	12	0.135	12	0.128	11	0.117	14	0.151	11	0.126
S/SSW-1.2	R25	11	0.123	12	0.128	11	0.117	13	0.140	11	0.123
SSW-4.8	R26	11	0.123	12	0.128	11	0.117	12	0.128	11	0.120
SW-0.9	R27	11	0.123	11	0.117	11	0.117	12	0.128	10	0.115
SW-4.8	R28	10	0.112	10	0.106	8	0.087	14	0.151	9	0.095
SW-12.3 (C)	R29	11	0.123	11	0.117	11	0.117	12	0.128	11	0.120
WSW-1.0	R30	11	0.123	12	0.128	12	0.128	13	0.140	10	0.115
WSW-5.35	R31	10	0.112	11	0.117	13	0.138	12	0.128	10	0.106
WSW-7.0 (C)	R32	12	0.135	13	0.139	13	0.148	12	0.128	12	0.132
W-1.0	R33	9	0.100	10	0.106	9	0.097	11	0.116	10	0.106
W-2.0	R34	9	0.100	9	0.095	11	0.117	11	0.116	9	0.101
W-5.5	R35	10	0.112	10	0.106	*	*	13	0.140	11	0.008
WNW-1.0	R36	11	0.123	13	0.139	11	0.117	13	0.140	12	0.129
WNW-5.0	R37	11	0.123	13	0.139	12	0.128	13	0.140	11	0.123
WNW-6.7	R38	10	0.112	12	0.128	10	0.107	13	0.140	9	0.104
NW-1.0	R39	10	0.112	10	0.106	10	0.107	12	0.128	10	0.109
NW-5.7	R40	11	0.123	12	0.128	12	0.128	13	0.140	11	0.123
NW-9.9	R41	10	0.112	12	0.128	11	0.117	12	0.128	9	0.101
NNW-1.35	R42	8	0.088	8	0.084	5	0.056	8	0.092	6	0.061
NNW-4.6	R43	12	0.135	15	0.161	*	*	13	0.140	13	0.123
AVERAGES		11	0.118	11	0.119	12	0.120	12	0.131	11	0.110

*Please reference TRs located in this section

Table 5 – TLD Trend Quarterly Average (Five most current years)

	2018	2019	2020	2021	2022		2018-2022 mR Avg	Quarterly Baseline mrem	Annual TLD Total	Annual Baseline mrem
R1	11	11	12	12	12		11.55	12.0	50	44.6
R2	13	12	13	14	14		13.15	13.6	49	50.2
R3	12	11	11	11	12		11.40	11.8	44	45.6
R4	12	11	12	12	12		11.75	12.5	45	47.0
R5	8	8	8	7	8		7.85	8.9	27	30.2
R6	12	11	12	12	13		12.05	12.6	48	46.5
R7	8	8	7	8	8		7.75	8.7	28	30.2
R8	13	12	13	12	11		12.25	13.3	*	50.0
R9	13	12	12	13	13		12.50	13.5	49	47.8
R10	15	15	13	13	13		13.85	14.8	49	58.4
R11	11	11	11	11	10		10.70	11.9	38	42.2
R12	10	10	10	10	10		10.00	11.0	38	40.6
R13	11	11	11	11	11		10.95	11.9	41	43.0
R14	13	12	13	13	12		12.50	13.2	46	49.2
R15	11	11	11	11	12		11.25	11.7	40	43.6
R16	12	11	12	12	13		11.90	12.8	44	47.1
R17	12	12	13	12	12		12.25	13.0	40	45.2
R18	11	12	10	11	11		10.95	11.3	41	41.7
R19	12	11	11	11	12		11.40	12.0	39	44.6
R20	11	11	11	11	12		11.15	12.2	43	42.2
R21	11	11	11	11	11		11.00	12.3	37	43.6
R22	11	11	11	11	11		11.00	12.6	45	43.6
R23	11	10	10	11	11		10.55	11.1	37	41.2
R24	12	12	12	12	12		11.95	12.9	45	48.2
R25	11	11	12	12	12		11.55	12.0	44	41.1
R26	12	11	12	11	12		11.65	12.2	43	44.8
R27	11	11	11	12	11		11.20	11.9	41	44.6
R28	10	10	10	10	11		10.15	11.1	34	40.2
R29	12	11	12	12	11		11.55	12.1	43	44.6
R30	12	12	12	12	12		12.05	12.6	41	46.4
R31	11	10	11	12	12		11.15	11.7	38	43.8
R32	13	12	12	12	13		12.40	13.3	47	48.1
R33	10	10	10	10	10		10.05	10.7	38	40.0
R34	10	10	10	10	10		10.05	10.9	36	38.0
R35	8	8	11	10	11		9.60	11.0	*	38.8
R36	12	12	12	11	12		11.80	12.3	46	47.2
R37	12	11	12	12	12		11.85	12.4	44	45.8
R38	11	11	11	11	11		10.95	11.8	37	43.4
R39	11	10	11	13	11		11.15	11.8	39	42.8
R40	12	12	13	12	12		12.10	13.1	44	48.0
R41	10	10	11	11	11		10.55	11.1	36	40.2
R42	8	7	7	8	7		7.30	8.1	22	29.8
R43	13	12	13	11	13		12.45	13.5	44	50.8
Averages	11	12	13	11	11		11.66	12.0	41	43.8

*Please reference TRs located in this section

Air particulate and air iodine samples were collected each week from the eight monitoring locations described in Table 1 – Comanche Peak Nuclear Power Plant Environmental Radiological Monitoring Program (as seen in section II.A). Each air particulate sample was collected by drawing air through a 47 millimeter-diameter glass-fiber filter. Air iodine was collected by drawing air through an impregnated charcoal cartridge which was connected in series behind the air particulate filter. Shipped to an independent laboratory, air particulate filters were analyzed weekly for gross beta activity and were composited quarterly for gamma spectrometry analysis. Charcoal cartridges were analyzed weekly for Iodine-131.

A total of 416 air particulate filters were collected and analyzed for gross beta activity. The reported gross beta activity ranged from a minimum value of **1.48E-02 pCi/m³** to a maximum value of **1.30E-01 pCi/m³** (control group excluded). Table 6 – Environmental Airborne Particulate Gross Beta Results contains the reported values of all samples. Graph 1 – Environmental Air Sample Gross Beta Results – Maximum and Minimum trends the weekly high and low gross beta values to show the seasonal variation of the results as well as providing indication of consistency between the individual monitoring locations.

A total of 416 charcoal cartridges were analyzed for airborne Iodine-131. Table 7 – Environmental Air Sample Iodine-131 Results contains the reported values of each Iodine-131 analysis, all of which are less than reportable levels.

All air particulate filters were collected and composited quarterly and then analyzed by gamma spectrometry. Typical of pre-operational and previous operational data results, the only radioactive nuclide identified in all the samples was cosmogenic Beryllium-7, a naturally occurring isotope.

During the year 2022, there were exceptions to the Airborne Program.

TR-2022-001463: On Jan 11th 2022 it was discovered that air sample data received from Gel Laboratories for location A-7 did not meet the required LLD for particulate and iodine. The air sampler in the area had been changed out and replaced with air sampler 2226 on November 2, 2021. Following the identification of the data received the air sampler was removed from service and sent for a re-calibration. It was found that the air sampler flow was actually 79 liters per minute (LPM) instead of the 30 LPM the flow site glass was displaying. Based on the findings Gel Labs was contacted and the following work orders (561663, 562483, 563319, 563543, 564523, 565204, 565868, 566105) were revised with the up to date data recalculated with actual flow rate.

AI-TR-2022-003969-1: Air Sample Stations A5 and A7 only ran for 113 hours for the week of 5/10/22 to 5/17/22. Intermittent power losses were responsible for reduced run times.

AI-TR-2022-003969-2: Air Sample Station A7 only ran for 24 hours for the week of 5/17/22 to 5/24/22. Intermittent power losses were responsible for reduced run time.

AI-TR-2022-003969-7: While performing the weekly environmental run for collection of air sampler filters, it was found that location A-7 was not running due to a blown fuse. Air Sampler had a run time of 109 hours. Replaced fuse, air sampler up and running.

AI-TR-2022-003969-8: While performing the weekly environmental run for collection of air sampler filters, it was found that location A-7 was not running due to a blown fuse. Air Sampler had a run time of 83.5 hours. Replaced fuse, air sampler up and running.

AI-TR-2022-003969-12: During weekly collection of filters from air samplers, Station A-5 had only 79 hour run time and A-8 had a 144 hour run time due to grid line issues. Gridline issue persisted for four weeks on these stations.

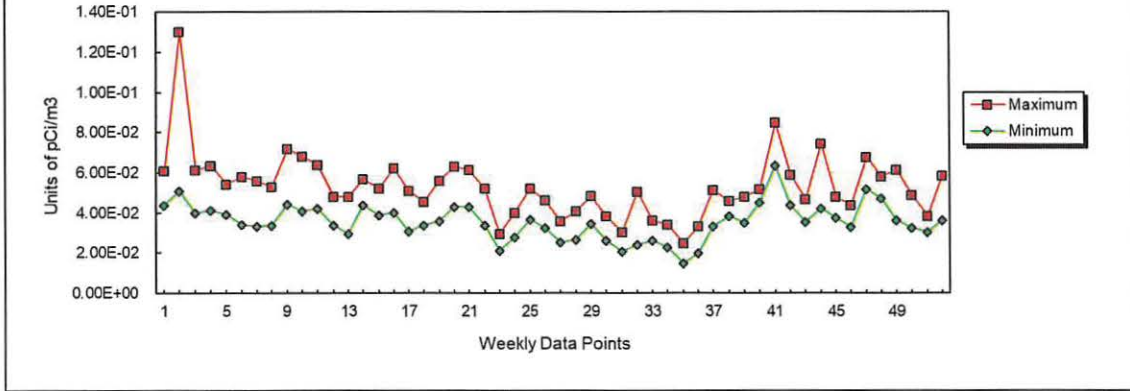
Table 6 -- Environmental Airborne Particulate Gross Beta Results
(Units of pCi/m3)

	A-8	A-7	A-5	A-6	A-4	A-3	A-1	A-2
	Location							
	NW-1.0	SW/WSW-0.95	S/SSW-1.2	SW-12.3	SSE-4.5	E-3.5	N-1.45	N-9.4
Date				Control				Control
01-04-22	4.89E-02	4.38E-02	6.05E-02	5.62E-02	5.08E-02	5.12E-02	6.10E-02	4.56E-02
01-11-22	6.12E-02	1.30E-01	7.41E-02	7.66E-02	6.55E-02	5.10E-02	8.09E-02	6.05E-02
01-18-22	4.82E-02	3.98E-02	6.15E-02	5.18E-02	4.93E-02	4.04E-02	5.84E-02	4.35E-02
01-25-22	5.07E-02	4.11E-02	5.92E-02	6.02E-02	5.04E-02	4.97E-02	6.34E-02	4.18E-02
02-01-22	5.02E-02	3.92E-02	5.42E-02	4.81E-02	4.75E-02	4.19E-02	5.18E-02	4.07E-02
02-08-22	3.49E-02	5.81E-02	4.26E-02	4.52E-02	3.39E-02	4.51E-02	5.02E-02	3.96E-02
02-15-22	3.64E-02	4.88E-02	5.59E-02	4.73E-02	3.32E-02	4.31E-02	4.61E-02	4.48E-02
02-22-22	3.35E-02	5.30E-02	3.85E-02	4.72E-02	3.23E-02	4.33E-02	4.35E-02	3.86E-02
03-01-22	4.42E-02	7.19E-02	6.53E-02	6.01E-02	5.31E-02	5.27E-02	6.21E-02	5.87E-02
03-08-22	5.33E-02	6.78E-02	5.67E-02	5.89E-02	4.08E-02	5.10E-02	6.38E-02	5.53E-02
03-15-22	5.88E-02	6.38E-02	5.06E-02	5.30E-02	4.19E-02	5.44E-02	5.19E-02	4.80E-02
03-22-22	3.98E-02	4.80E-02	3.37E-02	3.86E-02	3.37E-02	3.61E-02	4.50E-02	3.57E-02
03-29-22	3.64E-02	4.78E-02	3.84E-02	3.64E-02	2.94E-02	3.87E-02	4.39E-02	3.19E-02
04-05-22	4.38E-02	5.27E-02	5.38E-02	5.05E-02	4.62E-02	4.39E-02	4.97E-02	5.66E-02
04-12-22	3.96E-02	4.94E-02	4.48E-02	4.19E-02	3.86E-02	4.20E-02	4.06E-02	5.19E-02
04-19-22	3.97E-02	5.85E-02	5.84E-02	4.47E-02	4.49E-02	4.39E-02	4.71E-02	6.20E-02
04-26-22	3.07E-02	4.11E-02	3.80E-02	4.15E-02	3.93E-02	3.69E-02	3.30E-02	5.10E-02
05-03-22	3.63E-02	4.47E-02	3.83E-02	3.35E-02	3.57E-02	3.36E-02	3.58E-02	4.52E-02
05-10-22	4.51E-02	5.57E-02	4.99E-02	4.60E-02	3.89E-02	3.58E-02	4.28E-02	5.27E-02
05-17-22	4.84E-02	*	*	4.89E-02	4.51E-02	4.30E-02	4.34E-02	5.83E-02
05-24-22	4.90E-02	*	5.36E-02	4.54E-02	4.27E-02	4.66E-02	4.59E-02	6.11E-02
05-31-22	4.08E-02	4.83E-02	4.48E-02	4.43E-02	4.27E-02	4.19E-02	3.36E-02	5.19E-02
06-07-22	2.24E-02	2.93E-02	2.46E-02	2.55E-02	2.34E-02	2.11E-02	2.11E-02	2.69E-02
06-14-22	2.77E-02	4.01E-02	3.58E-02	3.52E-02	2.95E-02	3.16E-02	3.16E-02	3.59E-02
06-21-22	3.75E-02	5.21E-02	4.44E-02	4.08E-02	3.66E-02	3.79E-02	3.76E-02	4.49E-02
06-28-22	3.39E-02	4.61E-02	4.42E-02	3.56E-02	3.23E-02	3.37E-02	3.75E-02	4.40E-02
07-05-22	2.52E-02	3.58E-02	3.24E-02	2.75E-02	3.07E-02	2.73E-02	2.93E-02	3.24E-02
07-12-22	2.90E-02	4.07E-02	3.13E-02	3.08E-02	2.66E-02	2.63E-02	3.24E-02	3.68E-02
07-19-22	3.50E-02	4.84E-02	4.36E-02	3.45E-02	3.63E-02	3.70E-02	3.51E-02	4.23E-02
07-26-22	2.59E-02	3.82E-02	2.98E-02	2.86E-02	2.79E-02	2.93E-02	2.55E-02	3.16E-02
08-02-22	2.25E-02	3.02E-02	2.77E-02	2.72E-02	2.07E-02	2.31E-02	2.35E-02	2.32E-02
08-09-22	2.38E-02	*	2.98E-02	2.80E-02	2.57E-02	2.80E-02	2.91E-02	2.99E-02
08-16-22	2.59E-02	3.63E-02	3.26E-02	3.36E-02	2.82E-02	2.62E-02	2.87E-02	3.18E-02
08-23-22	2.46E-02	3.36E-02	3.00E-02	2.79E-02	2.29E-02	3.42E-02	2.58E-02	2.92E-02
08-30-22	1.48E-02	2.47E-02	2.25E-02	2.10E-02	1.80E-02	1.95E-02	1.87E-02	1.84E-02
09-06-22	1.96E-02	*	2.77E-02	2.64E-02	2.43E-02	2.84E-02	2.23E-02	2.47E-02
09-13-22	3.33E-02	5.14E-02	4.22E-02	4.33E-02	3.34E-02	4.30E-02	3.31E-02	3.81E-02
09-20-22	4.57E-02	4.38E-02	3.82E-02	3.85E-02	4.38E-02	4.35E-02	4.01E-02	4.48E-02
09-27-22	4.78E-02	4.28E-02	4.25E-02	3.47E-02	4.27E-02	4.71E-02	4.11E-02	4.47E-02
10-04-22	5.08E-02	5.15E-02	4.78E-02	4.68E-02	5.00E-02	4.80E-02	4.65E-02	4.48E-02
10-11-22	8.46E-02	7.50E-02	6.46E-02	6.89E-02	7.72E-02	7.14E-02	6.33E-02	7.64E-02
10-18-22	5.27E-02	5.88E-02	4.56E-02	4.35E-02	5.17E-02	4.42E-02	4.56E-02	4.89E-02
10-25-22	4.53E-02	4.66E-02	3.54E-02	3.72E-02	4.04E-02	3.91E-02	3.99E-02	4.43E-02
11-01-22	7.18E-02	7.41E-02	6.17E-02	5.80E-02	7.18E-02	6.13E-02	6.15E-02	4.22E-02
11-08-22	4.80E-02	4.05E-02	4.73E-02	3.73E-02	4.50E-02	4.44E-02	4.03E-02	4.37E-02
11-15-22	*	4.01E-02	*	3.98E-02	3.89E-02	4.35E-02	3.29E-02	3.94E-02
11-22-22	*	6.74E-02	*	6.12E-02	6.50E-02	5.79E-02	5.18E-02	6.13E-02
11-29-22	*	5.29E-02	*	5.47E-02	4.97E-02	4.69E-02	4.89E-02	5.79E-02
12-06-22	*	4.48E-02	3.63E-02	3.88E-02	4.24E-02	3.70E-02	3.79E-02	4.52E-02
12-13-22	4.11E-02	4.08E-02	3.69E-02	3.25E-02	4.63E-02	3.88E-02	3.22E-02	4.86E-02
12-20-22	3.82E-02	3.66E-02	3.06E-02	3.34E-02	3.73E-02	3.43E-02	3.01E-02	3.74E-02
12-27-22	5.53E-02	5.35E-02	4.36E-02	5.27E-02	5.82E-02	3.93E-02	3.63E-02	5.83E-02

Required LLD 1.00E-02

*Please reference TRs located in this section

Graph 1 -- Environmental Air Sample
Gross Beta Results - Maximum and Minimum



Graph 2 -- Environmental Airborne Particulate Gross Beta Results by Station

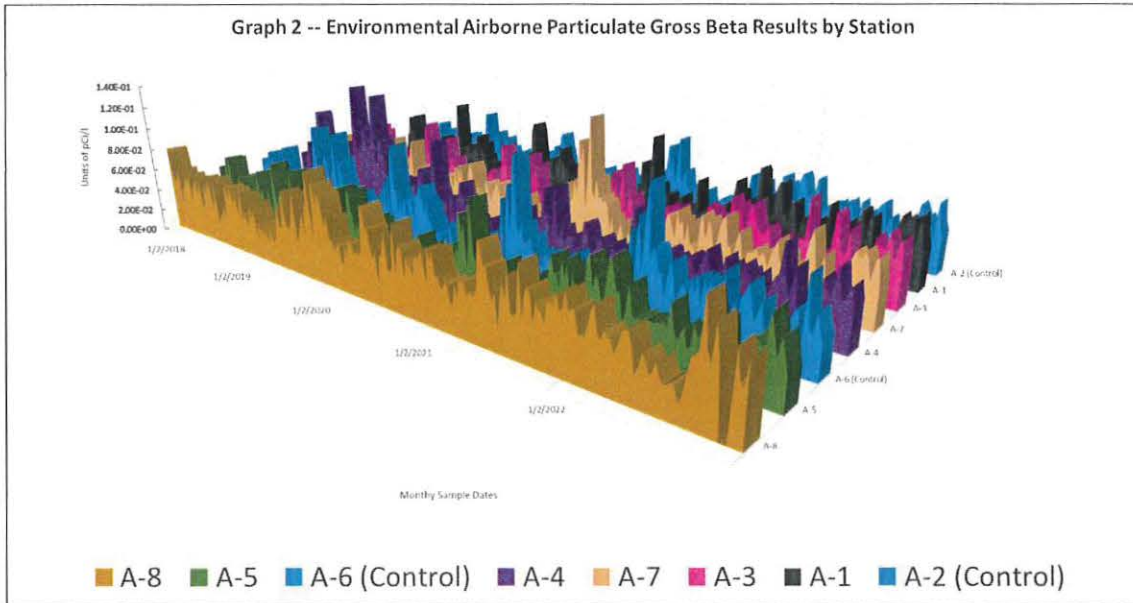


Table 7-- Environmental Air Sample Iodine-131 Results
(Units of pCi/m3)

All sample analysis results are <MDC values listed below in the following table

	A-8	A-7	A-5	A-6	A-4	A-3	A-1	A-2
	Location							
	NW-1.0	SW/WSW-0.95	S/SSW-1.2	SW-12.3	SSE-4.5	E-3.5	N-1.45	N-9.4
Date				Control				Control
01-04-22	1.04E-02	3.49E-03	9.58E-03	9.47E-03	9.60E-03	6.55E-03	9.98E-03	1.14E-02
01-11-22	9.89E-03	1.06E-02	1.37E-02	9.83E-03	1.22E-02	1.44E-02	1.17E-02	1.22E-02
01-18-22	1.65E-02	6.95E-03	1.45E-02	1.31E-02	1.59E-02	2.30E-02	1.52E-02	1.76E-02
01-25-22	1.86E-02	6.11E-03	1.29E-02	9.04E-03	1.14E-02	1.48E-02	1.14E-02	1.20E-02
02-01-22	7.64E-03	3.76E-03	1.56E-02	1.30E-02	9.65E-03	2.20E-02	1.15E-02	1.21E-02
02-08-22	8.82E-03	8.01E-03	7.58E-03	7.74E-03	9.66E-03	8.07E-03	1.04E-02	7.61E-03
02-15-22	1.70E-02	1.52E-02	1.69E-02	1.31E-02	1.38E-02	2.66E-02	1.41E-02	2.25E-02
02-22-22	1.21E-02	1.19E-02	1.37E-02	1.39E-02	1.26E-02	9.23E-03	2.84E-02	1.46E-02
03-01-22	1.00E-02	1.34E-02	1.05E-02	8.55E-03	1.00E-02	1.11E-02	7.42E-03	8.15E-03
03-08-22	1.42E-02	1.27E-02	7.90E-03	8.21E-03	1.23E-02	1.33E-02	1.34E-02	1.25E-02
03-15-22	1.91E-02	2.52E-02	9.03E-03	1.49E-02	1.70E-02	1.38E-02	1.52E-02	2.19E-02
03-22-22	1.83E-02	1.25E-02	1.42E-02	1.08E-02	8.72E-03	2.36E-02	1.12E-02	1.52E-02
03-29-22	1.33E-02	1.11E-02	1.31E-02	1.12E-02	1.23E-02	1.36E-02	1.55E-02	1.88E-02
04-05-22	1.40E-02	1.14E-02	1.38E-02	2.66E-02	1.35E-02	1.43E-02	1.79E-02	1.42E-02
04-12-22	1.34E-02	2.14E-02	1.44E-02	1.31E-02	9.61E-03	1.38E-02	1.82E-02	1.16E-02
04-19-22	2.61E-02	2.09E-02	2.01E-02	1.51E-02	1.81E-02	1.42E-02	1.48E-02	1.54E-02
04-26-22	1.29E-02	1.49E-02	1.48E-02	1.38E-02	1.38E-02	1.63E-02	1.14E-02	1.37E-02
05-03-22	1.45E-02	1.85E-02	2.40E-02	1.82E-02	1.49E-02	3.31E-02	1.47E-02	1.88E-02
05-10-22	2.06E-02	2.13E-02	2.42E-02	1.59E-02	2.14E-02	1.77E-02	1.58E-02	3.06E-02
05-17-22	1.35E-02	*	*	1.58E-02	1.24E-02	1.47E-02	2.01E-02	1.01E-02
05-24-22	1.19E-02	*	1.26E-02	7.70E-03	1.07E-02	1.03E-02	9.34E-03	9.91E-03
05-31-22	1.30E-02	8.17E-03	1.19E-02	1.13E-02	9.64E-03	7.76E-03	1.04E-02	1.16E-02
06-07-22	1.43E-02	1.36E-02	1.06E-02	9.05E-03	1.22E-02	1.42E-02	1.07E-02	1.64E-02
06-14-22	8.02E-03	1.70E-02	1.82E-02	1.87E-02	1.30E-02	1.23E-02	1.52E-02	1.72E-02
06-21-22	1.95E-02	2.25E-02	2.59E-02	1.86E-02	1.74E-02	1.58E-02	1.91E-02	1.33E-02
06-28-22	1.85E-02	1.87E-02	1.72E-02	1.56E-02	2.00E-02	1.33E-02	1.92E-02	2.09E-02
07-05-22	1.95E-02	1.91E-02	1.97E-02	2.13E-02	2.28E-02	2.33E-03	1.61E-02	2.42E-02
07-12-22	1.07E-02	1.70E-02	1.52E-02	1.33E-02	1.48E-02	2.43E-02	1.71E-02	1.83E-02
07-19-22	2.01E-02	1.78E-02	1.94E-02	1.67E-02	1.76E-02	2.72E-02	2.23E-02	1.80E-02
07-26-22	1.72E-02	1.21E-02	1.42E-02	1.72E-02	2.00E-02	1.45E-02	1.37E-02	1.30E-02
08-02-22	1.95E-02	1.34E-02	1.01E-02	1.40E-02	1.56E-02	1.33E-02	1.55E-02	1.20E-02
08-09-22	2.77E-02	*	2.68E-02	3.26E-02	2.58E-02	2.43E-02	5.22E-02	2.62E-02
08-16-22	2.01E-02	2.26E-02	1.54E-02	1.40E-02	1.70E-02	1.65E-02	1.29E-02	2.46E-02
08-23-22	9.44E-03	1.22E-02	1.24E-02	1.33E-02	6.78E-03	9.82E-03	1.15E-02	1.26E-02
08-30-22	9.67E-03	8.46E-03	1.04E-02	8.65E-03	8.07E-03	1.15E-02	9.61E-03	1.07E-02
09-06-22	7.84E-03	*	7.45E-03	8.66E-03	1.04E-02	1.14E-02	1.09E-02	1.32E-02
09-13-22	2.09E-02	1.93E-02	1.64E-02	2.32E-02	2.46E-02	1.47E-02	1.97E-02	1.92E-02
09-20-22	1.19E-02	1.06E-02	8.63E-03	1.32E-02	1.39E-02	1.07E-02	1.34E-02	1.19E-02
09-27-22	2.77E-02	1.88E-02	2.24E-02	2.13E-02	2.75E-02	3.04E-02	2.74E-02	2.69E-02
10-04-22	2.01E-02	2.26E-02	1.84E-02	2.00E-02	1.90E-02	1.63E-02	1.29E-02	2.31E-02
10-11-22	4.14E-02	2.65E-02	2.70E-02	3.59E-02	3.45E-02	3.94E-02	2.98E-02	3.47E-02
10-18-22	2.00E-02	2.19E-02	1.88E-02	1.36E-02	1.88E-02	1.72E-02	2.23E-02	2.96E-02
10-25-22	1.98E-02	1.81E-02	1.92E-02	1.51E-02	1.81E-02	2.03E-02	1.52E-02	1.81E-02
11-01-22	1.32E-02	1.11E-02	1.94E-02	1.40E-02	1.34E-02	1.38E-02	1.18E-02	1.10E-02
11-08-22	2.18E-02	2.11E-02	3.84E-02	1.97E-02	1.64E-02	1.55E-02	2.43E-02	1.60E-02
11-15-22	*	1.96E-02	*	2.22E-02	2.24E-02	2.16E-02	1.99E-02	1.83E-02
11-22-22	*	2.04E-02	*	1.58E-02	1.52E-02	2.02E-02	1.58E-02	1.65E-02
11-29-22	*	1.28E-02	*	1.24E-02	1.09E-02	6.66E-03	7.38E-03	1.14E-02
12-06-22	*	1.68E-02	1.67E-02	1.74E-02	2.09E-02	1.42E-02	1.43E-02	2.12E-02
12-13-22	2.77E-02	3.13E-02	2.78E-02	2.71E-02	3.98E-02	3.83E-02	3.32E-02	2.48E-02
12-20-22	1.66E-02	1.86E-02	1.05E-02	1.99E-02	1.79E-02	1.45E-02	1.21E-02	1.48E-02
12-27-22	4.32E-02	2.11E-03	3.83E-02	2.52E-02	4.31E-02	3.82E-02	2.76E-02	3.79E-02

*Please reference TRs located in this section

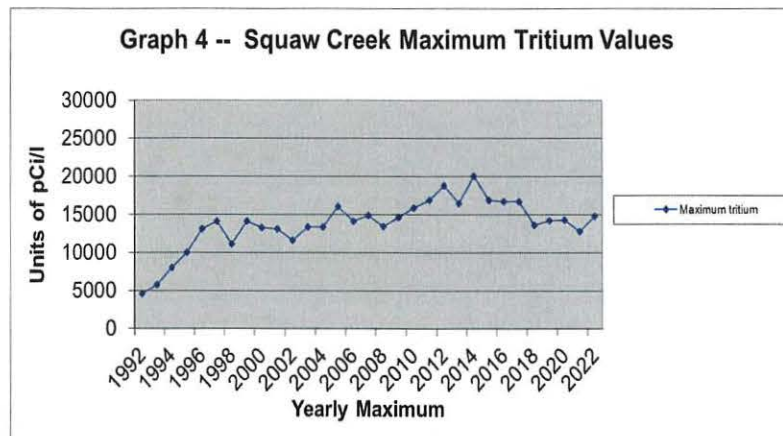
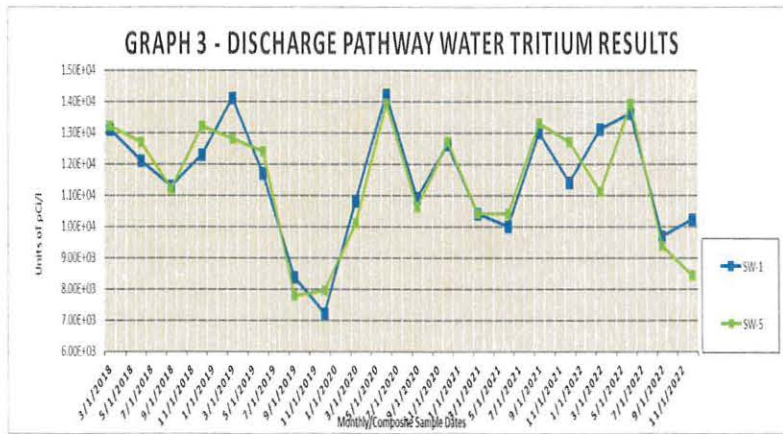
D. Discharge Pathway Surface Water Program

Discharge Pathway Surface water monitoring stations are found at four locations as detailed in Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program. Location N-1.5 provides samples representative of Squaw Creek reservoir surface water at a location beyond significant influence of the plant discharge. Location ESE-1.4 provides samples representative of discharges from Squaw Creek reservoir downstream to Squaw Creek and to Lake Granbury via an installed return line. [*NOTE: The installed return line to Lake Granbury has never been used to send water back to Lake Granbury.*] Location NE-7.4 provides samples of Lake Granbury surface water downstream of the discharge from the return line from Squaw Creek reservoir. A control sample is obtained from the Brazos River, upstream of Lake Granbury at location N-19.3. Discharge Pathway Surface water samples from Squaw Creek reservoir locations were collected weekly and composited for monthly gamma isotopic analysis. Samples from Lake Granbury locations were collected monthly and analyzed by gamma spectrometry. All Discharge Pathway Surface Water samples were also composited quarterly by location for tritium analysis.

All Discharge Pathways Surface Water samples were collected as required. Forty-eight samples were analyzed by gamma spectrometry. All results for the required radionuclides were reported as less than the required LLDs. Sixteen quarterly composited samples were analyzed for tritium. The results of the reported tritium values for Squaw Creek reservoir were in line with expected concentrations. The tritium values ranged from a high of **1.44E+04** pCi/l to a low of **7.22E+03** pCi/l. The results from Lake Granbury were all less than the required LLDs as expected. The tritium concentration reported in Squaw Creek is well below the action level of **3.00E+4** pCi/l and is following the expected concentration variations based on fuel cycles, power histories and reservoir makeup due to rain and pump transfers from Lake Granbury. Graph 3 – Discharge Pathway Water Tritium Results indicates the current results and the short-term trend of the tritium concentration in Squaw Creek reservoir, Squaw Creek spillway, Lake Granbury, and Brazos River (control location). Graph 4 – Squaw Creek Maximum Tritium Values trends the reservoir tritium concentration since it was first detected in 1990 after Unit 1 startup. **Squaw Creek reservoir tritium is a direct product from the operation of CPNPP.**

There should not be any significant changes in the tritium concentrations in the near future and no action levels are anticipated. A review of pre-operational and operational data indicated the 2022 results were both expected and consistent with previous data and that no anomalies had occurred.

During the year 2022, there were no exceptions to the Discharge Pathway Surface Water.



E. Squaw Creek and Lake Granbury Surface Water Program

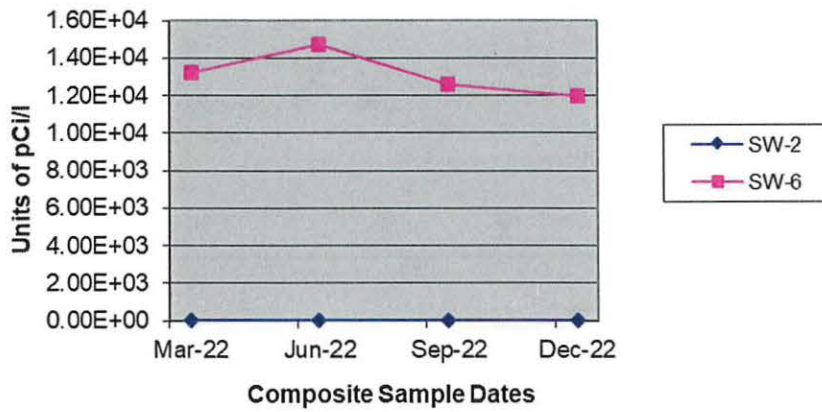
Surface water was collected at two monitoring locations. Table 1 -- Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program details the location and types of analysis required. Samples of water from Squaw Creek reservoir were collected at the monitoring location NNW-0.1. There is not a surface water drinking source within a mile of CPNPP. Monitoring location N-9.9 is used as a surface drinking water location based on the proximity of the City of Granbury intake to the Granbury potable water system. All surface water samples were collected weekly and then composited for Iodine-131 analysis, gamma isotopic analysis, and gross beta analysis on a monthly basis. Tritium analysis was performed on a quarterly basis.

All samples were analyzed for gamma emitting radionuclides. There were no gamma emitting radionuclides identified in any of the twenty-four composite samples. Tritium reported in Squaw Creek reservoir ranged from **1.33E+04 pCi/l to 7.22E+03 pCi/l** and **averaged 1.02E+04 pCi/l**. Tritium reported from all Lake Granbury water samples indicated less than the required LLD as expected. Graph 5 – Environmental Squaw Creek and Lake Granbury Surface Water Tritium Results trends the results reported for the year 2022.

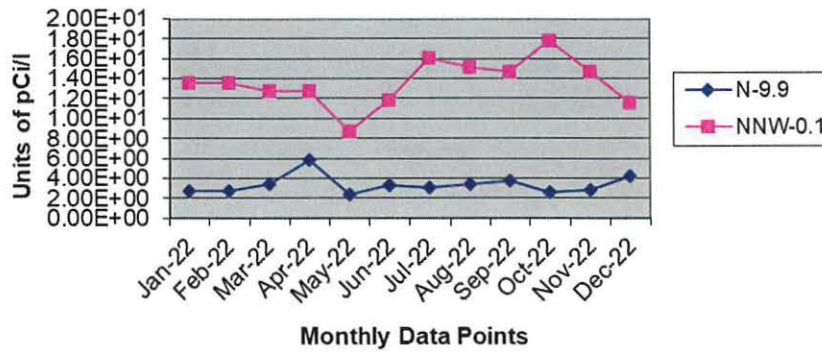
Graph 6 – Environmental Squaw Creek and Lake Granbury Surface Water Gross Beta Results trends the gross beta results for the two monitor locations and indicates no influence from Comanche Peak in the levels detected in the two different bodies of water. Gross Beta results at the indicator location NNW-0.1 ranged from **8.70+00 pCi/l to 1.77E+01 pCi/l** with an average of **1.32E+01 pCi/l**. Gross Beta results at the control location N-9.9 ranged from **2.25E+00 pCi/l to 5.82E+00 pCi/l** with an average of **4.03E+00 pCi/l**. Past gross beta results for Lake Granbury have been as high as **1.23E+01 pCi/l**, which is still within acceptable levels for gross beta. The gross beta results received are within values previously reported and there is no reportable level for gross beta so no action is required at this time.

During the year 2022, there were no exception to the Surface Water Program.

Graph 5 -- Environmental Squaw Creek and Lake Granbury Surface Water Tritium Results



Graph 6 -- Environmental Squaw Creek and Lake Granbury Surface Water Gross Beta Results



F. Ground Water Program

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program specifies the five groundwater monitoring locations. Groundwater supplies in the site area are not affected by plant effluents and are sampled only to provide confirmation that groundwater is not affected by plant discharges. Groundwater samples were collected quarterly and analyzed for gamma isotopes and tritium at each location.

A total of twenty groundwater samples were collected from the five different monitoring locations. There were no radionuclides identified in any of the samples. All required LLDs were met for each required gamma emitting radionuclide. Tritium analysis was performed on twenty samples, all indicated less than the required LLD. The results confirm that plant discharges are having no effect on groundwater in the area surrounding Comanche Peak.

Groundwater samples are taken quarterly in accordance with STA-654, “Groundwater Protection Program”.

During the year 2022, there were no exceptions to the Ground Water Program.

G. Sediment Program

Table 1 – Comanche Peak Nuclear Power Plant Radiological Environmental Monitoring Program specifies shoreline sediments were collected at four different monitoring locations. One sample location is along the shore of Squaw Creek Reservoir, one sample location is on Squaw Creek downstream of the dam discharge and two locations are along Lake Granbury's shores. Each sample is collected on a six-month frequency and sent to the contract laboratory for analysis by gamma spectrometry.

The process of shoreline sedimentation is a complex evolution whereby potential radionuclides and stable elements may concentrate in the bottom sediment of particular bodies of water. The concentrations are affected by such things as colloidal particles combining with chelating agents and biological action of bacteria and other benthic organisms. Monitoring of the area shorelines provides one of the first and best indicators of radionuclide deposition.

As expected, and in agreement with previous results from both the pre-operational and operational programs, naturally occurring Potassium-40 was detected in all eight samples and Beryllium-7 was detected in three of the samples. All required radionuclide results were reported as less than the required LLDs. During previous years, both pre-operational and operational, positive indications occasionally had been noted for Cesium-137 however during 2022 there was one positive Cesium-137 results reported. As expected, there were no results in any sediment sample that indicated any direct influence from CPNPP discharges to the local environment.

During the year 2022, there were no exceptions to the Sediment Program

H. Fish Program

Fish samples were collected at two locations. One monitoring location is an area approximately 0.1 miles south-east of the site on Squaw Creek Reservoir. The second location is on Lake Granbury approximately eight miles north-northeast of the site. Fish sampling is scheduled for the months of April and November. The collected fish are frozen and shipped to the independent laboratory where the edible portions are analyzed for gamma emitting radionuclides.

Tritium analysis is performed annually on Squaw Creek fish (CR-2014-013335). The analysis of the (cooked) fish sample collected on May 24, 2022 from Squaw Creek indicates a positive Tritium (TR-2022-003969-3) concentration of 3.45 pCi/g. This is consistent with tritium concentration of fish from previous years: 2021 uncooked fish was 7.62 pCi/g, 2020 sample was 6.18 pCi/g. This is not an ODCM required sample/analysis, and there is NO reporting level. The sample/analysis of cooked fish from Squaw Creek was a recommendation during an audit.

Lake Granbury Catfish and Bass samples were analyzed. There were no positive results reported except for the expected Potassium-40, which is naturally occurring in all living organisms. All required radionuclide results were reported as less than the required LLDs. As a result of the fish-sampling program, there were no anomalies noted and no indication of any influence on the surrounding environment from Comanche Peak plant discharges.

No abnormal results were reported by CPNPP or by the State of Texas. As expected, Potassium-40 was the only positive isotope found.

During the year 2022 there was no exceptions to the Fish Program.

I. Food Products Program

Food products (pecans/tomatoes) were collected at the time of harvest. The samples are obtained at monitoring location ENE-9.0 and location E-4.2 at the time of harvest and are shipped to the contract laboratory for gamma isotopic analysis.

Naturally occurring Potassium 40 was detected in the samples as expected and all other required radionuclide results were reported as less than the required LLDs.

During the year 2022, there were no exceptions to the Food Products Program.

J. Broadleaf Program

Broadleaf sample collection is conducted in accordance with the requirements of the Radiological Environmental Monitoring Program. The program specifies the sampling based on the absence of milk monitoring locations. One broadleaf control location is located at SW-13.5 in the vicinity of the previous control milk location. The two indicator locations, N-1.45 and SW-1.0, are located near the site boundaries. The broadleaf samples consist of mainly native grasses and are analyzed for Iodine-131 and gamma emitting isotopes.

All radionuclide analysis met their required LLDs. The naturally occurring radionuclides of Potassium-40 was found in 36 of 36 samples taken and radionuclide Beryllium-7 was present in 35 of 36 samples.

During the year 2022, there were no exception to the Broadleaf Program.

K. Conclusions

Based on the results presented in this report and from comparisons with the pre-operational and operational program results from previous years, it can be concluded that the impact of Comanche Peak on the environment is minimal. The only indication directly attributable to Comanche Peak is the tritium detected in Squaw Creek reservoir.

The tritium in Squaw Creek reservoir is reaching equilibrium and is expected to remain well below the reportable level.

Gross beta trend indications concerning Squaw Creek Reservoir are consistent with previous values and do not indicate any increase due to influence from Comanche Peak. Future data will be evaluated as it is received and will be addressed as necessary.

There were no values reported during the year 2022 that exceeded any NRC reportable limit.

L. Inter Laboratory Comparison and Cross Check Program

GEL Laboratories LLC

GEL Laboratories LLC is the independent contract laboratory that processes the radiological environmental monitoring samples collected by CPNPP. The contract laboratory is required to participate in an Interlaboratory Comparison Program in accordance with the ODCM Control 3.12.3. GEL participates in multiple programs to ensure all environmental media sent to them are analyzed to the proper standards.

GEL Laboratories, LLC (GEL) is a privately owned environmental laboratory. GEL was established as an analytical testing laboratory in 1981. Now a full-service lab, their analytical divisions use state of the art equipment and methods to provide a comprehensive array of organic, inorganic, and radiochemical analyses.

GEL administers the QA program in accordance with the Quality Assurance Plan, GL-QSB-001. Their Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work they perform. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of their organization.

TR-2023-002232: During a plant review committee meeting questions were raised on the Quality Assurance Program of Gel Laboratories regarding radiological proficiency/performance testing results concluded as “Not Acceptable”. Further, an issue documented in the corrective action program for Gel Laboratories described that all testing criteria was met and no cause could be determined or corrected. No concrete answer for questions was produced during the meeting.

Gel Laboratories was contacted regarding concerns of the plant review committee. It was found that Gel Laboratories conducts acceptable testing of Comanche Peak Environmental Samples. In accordance with the CPNPP Offsite Dose Calculation Manual (ODCM) that serves as a supporting document of Technical Specification 5.6.2, CPNPP is committed to having samples evaluated by a laboratory following an interlaboratory comparison program. In 2022, Gel Laboratories analyzed 463 performance evaluation samples of which 453 were found acceptable.

Based on the response by Gel Laboratories and additional review of the Annual Quality Assurance Report the “Not Acceptable” results listed therein outline individual instances of the performance evaluation tests not meeting acceptable tolerances. The performance evaluation testing by Gel Laboratories is conducted by procuring single blind performance evaluation samples from Eckert and Ziegler Analytics as a verification of meeting sample matrices. This is not related to actual sample results from Comanche Peak. When an individual performance evaluation test result is outside of the acceptable limits they use a Corrective Action Request and Report (CARR) to address such a case. The CARR will initiate a root cause evaluation that will include review of sample preparation and analytical processes. The investigations are carried out by team leaders and members of the QA Department.

Appendix A

Gel Environmental Lab Results



a member of The GEL Group Inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

To: Distribution List

From: Robert L. Pullano, Director, Quality Systems, GEL Laboratories, LLC

Date: June 17, 2022

Subject: Environmental Laboratory Quarterly Quality Assurance Report for Environmental Analyses (January - March 2022)

Attached is GEL Laboratories, LLC (GEL) first quarter 2022 quality assurance report covering Environmental Analyses. This report includes internal quality assurance comparisons, analytical Performance Test (PT) sample cross check programs in support of client Radiological Environmental Monitoring Programs (REMP) and analysis of additional radionuclides in environmental samples that are typically outside the REMP scope.

A total of 22 individual PT analyses were evaluated during this period. GEL received performance evaluation samples from Eckert & Ziegler Analytics, Inc. (EZA).

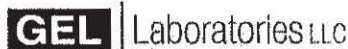
Please do not hesitate to contact your project manager or me with any additional questions or comments about the report. I can be contacted by email bob.pullano@gel.com, or by phone at 843-556-8171 ext. 4429.

A handwritten signature in black ink, appearing to read "Robert L. Pullano".

Robert L. Pullano
Director, Quality Systems

Attachment

problem solved



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ENVIRONMENTAL LABORATORY QUALITY REPORT 2022 – FIRST QUARTER

In accordance with the U.S. Nuclear Regulatory Commission requirements, GEL Laboratories, LLC (GEL) participates in an Interlaboratory Comparison Program (ICP). This satisfies the requirements of both Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979 and Regulatory Guide 4.15, Revision 2, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) - Effluent Streams and the Environment", July, 2007. Both guides indicate the ICP is to be conducted with the U.S. Environmental Protection Agency (EPA) Environmental Radioactivity Laboratory Intercomparison Studies (Cross-check) Program or an equivalent program, and the ICP should include all sample medium/radionuclide combinations that are offered by the EPA and included in the REMP.

Throughout the year, GEL receives performance evaluation samples from the U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP), ERA's Mixed Rad (MRAD) Proficiency Testing Program, ERA's RadChem Proficiency Testing Program (RAD), and ERA's Quik Response Proficiency Testing Program. Each provider has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provides a means to ensure independent checks are performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. The providers supply the crosscheck samples to GEL. Upon receipt, the laboratory performs the analyses in a normal manner. Laboratory results are given to each provider for evaluation.

The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. (EZA) is measured by the ratio of GEL's result to the known value. Accuracy for all other results is based on statistically derived acceptance ranges calculated by the providers or from internally derived ranges if not provided in the report. An investigation is initiated whenever the ratio or reported result falls outside of the acceptance range.

A summary of GEL's results received during First Quarter 2022 is provided in Table 2 for the required sample matrix types and isotopic distribution. GEL's results met acceptance criteria for 22 of 22 reported analytes, therefore, investigations and/or corrective actions were not necessary.



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 1
INTERNAL LABORATORY QUALITY CONTROL RESULT
SUMMARY
January through March 2022



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

1st Quarter 2022	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	30	0	33	0
Gas Flow Total Strontium	9	0	9	0
Gamma Spec Liquid RAD A-013 with Ba, La	27	0	77	0
SOLID				
LSC Iron-55	6	0	6	0
Gamma Spec Solid RAD A-013	3	0	3	0
LSC Nickel 63	6	0	6	0
Gas Flow Sr 2nd count	3	0	3	0
Gas Flow Total Strontium	6	0	6	0
Gamma Spec Solid RAD A-013 with Iodine	12	0	15	0
FILTER				
Gross A & B	219	0	186	0
Gamma Spec Filter	24	0	54	0
LIQUID				
Tritium	183	0	222	0
LSC Iron-55	6	0	6	0
LSC Nickel 63	6	0	6	0
Gas Flow Sr 2nd count	6	0	6	0
Gas Flow Total Strontium	18	0	12	0
Gross Alpha Non Vol Beta	18	0	56	0
Gamma Spec Liquid RAD A-013 with Ba, La	55	0	118	0
Gamma Spec Liquid RAD A-013 with Iodine	15	0	53	0
TISSUE				
Gamma Spec Solid RAD A-013	17	0	17	0
Gas Flow Total Strontium	6	0	6	0
Gamma Spec Solid RAD A-013 with Iodine	6	0	6	0
VEGETATION				
Gamma Spec Solid RAD A-013	6	0	6	0



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Gamma Spec Solid RAD A-013 with Iodine	18	6	32	0
AIR CHARCOAL				
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	21	0	21	0
DRINKING WATER				
Tritium	15	0	27	0
LSC Iron-55	6	0	6	0
LSC Nickel 63	6	0	6	0
Gamma Iodine-131	9	0	12	0
Gas Flow Sr 2nd count	3	0	3	0
Gas Flow Total Strontium	9	0	15	0
Gross Alpha Non Vol Beta	71	0	78	0
Gamma Spec Liquid RAD A-013 with Ba, La	15	0	30	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	12	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 2
GEL QUARTERLY INTERLABORATORY COMPARISON
January through March 2022



PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
EZA	1st/2022	05/20/22	E13655	Cartridge	pCi	Iodine-131	8.98E+01	8.72E+01	1.03	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-89	9.30E+01	9.68E+01	0.96	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-90	8.41E+00	1.26E+01	0.67	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cerium-141	8.31E+01	6.46E+01	1.29	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-58	1.66E+02	1.64E+02	1.04	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-60	2.96E+02	3.02E+02	0.98	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Chromium-51	3.92E+02	3.39E+02	1.16	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-134	1.68E+02	1.82E+02	0.92	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-137	2.41E+02	2.23E+02	1.08	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Manganese-54	1.76E+02	1.64E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iron-59	1.91E+02	1.85E+02	1.03	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iodine-131	1.19E+02	9.67E+01	1.23	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Zinc-65	2.62E+02	2.46E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cerium-141	7.12E+01	7.61E+01	0.94	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-58	2.05E+02	1.93E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-60	3.79E+02	3.55E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-134	2.00E+02	2.14E+02	0.93	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-137	2.65E+02	2.63E+02	1.01	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iodine-131	9.35E+01	8.76E+01	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iron-59	2.39E+02	2.18E+02	1.10	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Manganese-54	2.07E+02	1.93E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Zinc-65	3.25E+02	2.90E+02	1.12	Acceptable



a member of The GEL Group Inc



PQ Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

To: Distribution List

From: Robert L. Pullano, Director, Quality Systems, GEL Laboratories, LLC

Date: August 22, 2022

Subject: Environmental Laboratory Quarterly Quality Assurance Report for Environmental Analyses (April - June 2022)

Attached is GEL Laboratories, LLC (GEL) second quarter 2022 quality assurance report covering Environmental Analyses. This report includes internal quality assurance comparisons, analytical Performance Test (PT) sample cross check programs in support of client Radiological Environmental Monitoring Programs (REMP) and analysis of additional radionuclides in environmental samples that are typically outside the REMP scope.

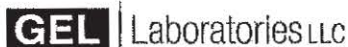
A total of 182 individual PT analyses were evaluated during this period. GEL received performance evaluation samples from Eckert & Ziegler Analytics, Inc. (EZA, U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP), ERA's Mixed Rad (MRAD) Proficiency Testing Program, ERA's RadChem Proficiency Testing Program (RAD).

Please do not hesitate to contact your project manager or me with any additional questions or comments about the report. I can be contacted by email bob.pullano@gel.com, or by phone at 843-556-8171 ext. 4429.

Robert L. Pullano
Director, Quality Systems

Attachment

problem solved



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

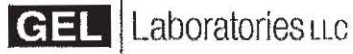
ENVIRONMENTAL LABORATORY QUALITY REPORT 2022 – SECOND QUARTER

In accordance with the U.S. Nuclear Regulatory Commission requirements, GEL Laboratories, LLC (GEL) participates in an Interlaboratory Comparison Program (ICP). This satisfies the requirements of both Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979 and Regulatory Guide 4.15, Revision 2, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) - Effluent Streams and the Environment", July 2007. Both guides indicate the ICP is to be conducted with the U.S. Environmental Protection Agency (EPA) Environmental Radioactivity Laboratory Intercomparison Studies (Cross-check) Program or an equivalent program, and the ICP should include all sample medium/radionuclide combinations that are offered by the EPA and included in the REMP.

Throughout the year, GEL receives performance evaluation samples from the U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP), ERA's Mixed Rad (MRAD) Proficiency Testing Program, ERA's RadChem Proficiency Testing Program (RAD), and ERA's Quik Response Proficiency Testing Program. Each provider has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provides a means to ensure independent checks are performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. The providers supply the crosscheck samples to GEL. Upon receipt, the laboratory performs the analyses in a normal manner. Laboratory results are given to each provider for evaluation.

The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. (EZA) is measured by the ratio of GEL's result to the known value. Accuracy for all other results is based on statistically derived acceptance ranges calculated by the providers or on internally derived ranges if not provided in the report. An investigation is initiated whenever the ratio or reported result falls outside of the acceptance range.

A summary of GEL's results received during Second Quarter 2022 is provided in Table 2 for the required sample matrix types and isotopic distribution. GEL's results met acceptance criteria for 177 of 182 reported results (97.2%), investigations and/or corrective actions are still being reviewed for the unacceptable results for MAPEP 46 which will be reported in the next quarter.



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 1
INTERNAL LABORATORY QUALITY CONTROL RESULT
SUMMARY

April through June 2022



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

2nd Quarter 2022	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	8	0	9	0
Gas Flow Total Strontium	2	0	2	0
Gamma Spec Liquid RAD A-013 with Ba, La	12	0	33	0
SOLID				
LSC Iron-55	2	0	2	0
Gamma Spec Solid RAD A-013	2	0	4	0
LSC Nickel 63	1	0	1	0
Gas Flow Sr 2nd count	3	0	3	0
Gamma Spec Solid RAD A-013 with Iodine	6	0	12	0
FILTER				
Gross A & B	68	0	56	0
Gamma Spec Filter	8	0	16	0
LIQUID				
Tritium	47	0	64	0
LSC Iron-55	2	0	3	0
LSC Nickel 63	2	0	3	0
Gamma Spec Liquid RAD A-013	2	0	2	0
Gas Flow Sr 2nd count	6	0	5	0
Gas Flow Total Strontium	4	0	5	0
Gross Alpha Non-Vol Beta	8	0	18	0
Gamma Spec Liquid RAD A-013 with Ba, La	20	0	39	0
Gamma Spec Liquid RAD A-013 with Iodine	5	0	17	0
TISSUE				
Gamma Spec Solid RAD A-013	8	0	10	0
Gas Flow Sr 2nd count	2	0	2	0
Gas Flow Total Strontium	2	0	2	0
Gamma Spec Solid RAD A-013 with Iodine	8	0	9	0
VEGETATION				



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Gas Flow Sr 2nd count	0	0	1	0
Gamma Spec Solid RAD A-013 with Iodine	15	0	20	0
AIR CHARCOAL				
Carbon-14 (Asca rite/Soda Lime Filter per Liter)	7	0	7	0
DRINKING WATER				
Tritium	7	0	7	0
LSC Iron-55	3	0	2	0
LSC Nickel 63	3	0	2	0
Gamma Iodine-131	8	0	11	0
Gas Flow Total Strontium	5	0	4	0
Gross Alpha Non-Vol Beta	19	0	22	0
Gamma Spec Liquid RAD A-013 with Ba, La	10	0	16	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	2	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 2

GEL QUARTERLY INTERLABORATORY COMPARISON

April through June 2022



PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nucleide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	2nd/2022	06/16/22	E13659	Cartridge	pCi	Iodine-131	8.77E+01	8.53E+01	103	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Chromium-51	4.53E+02	4.25E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-60	2.68E+02	2.42E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Radium-226	14.2	19.3	14.3 - 22.0	Acceptable
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Radium-228	9.98	10.3	6.71 - 12.8	Acceptable
ERA	2nd/2021	5/25/2021	RAD 125	Water	pCi/L	Strontium-89	59.3	63.5	51.4 - 71.5	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Alpha	0.864	1.77	0.53-3.01	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Beta	0.639	0.649	0.325-0.974	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Alpha	0.782	0.87	0.26-1.48	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Beta	2.40	2.50	1.25-3.75	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Americium-241	56.2	72	50.4-93.6	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-134	741	890	623-1157	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-137	369	365	256-475	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-57	1450	1400	980-1820	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-60	411	443	310-576	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Iron-55	725	1100	770-1430	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Manganese-54	1140	1140	798-1482	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	786	780	546-1014	482-896	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Plutonium-238	54.2	56	39.2-72.8	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Plutonium-239/240	41.1	41	28.7-53.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Potassium-40	598	596	417-775	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Strontium-90	560	677	474-880	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Technetium-99	506	778	545-1011	Not Acceptable



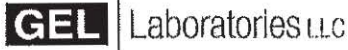
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 228	45.8	43	30-56	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 230	49	38	27-49	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 232	39.5	42	29-55	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	U-234/233	46	44	30.8-57.2	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Uranium-238	126	123	86-160	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Zinc-85	-0.659		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Americium-241	0.271	0.335	0.249-0.462	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cesium-134	-0.0355		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cesium-137	7.9	7.64	5.35-9.93	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cobalt-57	37	36	25.2-48.8	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cobalt-60	9.64	9.3	6.5-12.1	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Hydrogen-3	303	300	210-390	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Iron-55	27.1	26.9	18.8-35.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Manganese-54	19.8	18.9	13.2-24.6	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Nickel-63	31.7	34	23.8-44.2	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Plutonium-238	0.992	1.07	0.75-1.39	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Plutonium-239/240	1.07	1.19	0.83-1.55	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Potassium-40	-875		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Radium-226	0.871	0.8	0.6-1.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Strontium-90	14.9	12.9	5.5-10.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Technetium-99	7.89	7.9	5.5-10.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Uranium-234/233	1.52	1.5	1.1-2.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Uranium-238	1.55	1.54	1.08-2.00	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Zinc-85	29.3	26.2	18.3-34.1	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-235	0.0407	0.041	0.029-0.053	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-238	5.8	5.35	3.75-6.96	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-Total	5.84	5.4	3.8-7.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Americium-241	0.0392	0.0439	0.307-0.0571	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cesium-134	0.936	0.93	0.85-1.21	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cesium-137	0.759	0.726	0.0508-0.944	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cobalt-57	0		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cobalt-60	0.831	0.72	0.50-0.84	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Manganese-54	0.00527		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Plutonium-238	0.0212	0.0221	0.0155-0.0287	Acceptable



MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Plutonium-239/240	0.0142	0.0141	0.0099-0.0183	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Strontium-90	0.5	0.54	0.38-0.70	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Uranium-234/233	0.083	0.06	0.045-0.083	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Uranium-238	0.0685	0.067	0.047-0.087	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Zinc-65	0.0755		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Americium-241	0.0892	0.101	0.071-0.131	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cesium-134	7.04	7.61	5.33-9.89	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cesium-137	1.57	1.52	1.06-1.98	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cobalt-57	5.06	5.09	3.56-6.62	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cobalt-60	-0.077		2.09-3.89	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Manganese-54	2.7	2.59	1.81-3.37	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Plutonium-238	0.267	0.27	0.019-0.035	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Plutonium-239/240	0.625	0.0594	0.0416-0.0772	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Strontium-90	1.12	0.789	0.552-1.026	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Uranium-234/233	0.0763	0.071	0.050-0.092	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Uranium-238	0.0746	0.074	0.052-0.096	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Zinc-65	1.53	1.47	1.03-1.91	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Actinium-228	1710	1670	1100 - 2100	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Bismuth-212	2130	1840	527 - 2740	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Bismuth-214	888	790	379 - 1180	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-137	7680	6760	5110 - 8550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cobalt-60	3110	2820	2220 - 3480	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Lead-212	1880	1630	1140 - 2060	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Lead-214	1090	838	352 - 1320	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Manganese-54	<24.3	<555	<555	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Plutonium-238	280	289	144 - 439	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Plutonium-239	1290	1180	643 - 1700	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Potassium-40	40500	37900	26100 - 45300	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Strontium-90	7090	6720	2090 - 10500	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Thorium-234	4900	3390	1280 - 5810	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	3830	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	4120	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	3830	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-238	4080	3390	1860 - 4550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-238	4080	3390	1860 - 4550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6980	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8366	6980	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6980	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	µg/kg	Uranium (mass)	12300	10100	4560 - 13600	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Zinc-65	6450	5070	4050 - 6920	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Americium-241	1670	1850	1140 - 2610	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	1900	2450	1630 - 3260	Acceptable



ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cobalt-60	822	902	708 - 1180	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Curium-244	1270	1530	863 - 1900	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Manganese-54	<25.2	<207	<207	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Plutonium-238	3470	3640	2520 - 4690	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Plutonium-239	3400	3540	2450 - 4480	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Potassium-40	32400	33300	25000 - 42200	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Strontium-90	5170	4340	2450 - 5660	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-234	3750	3980	2800 - 5080	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-238	3850	3940	2780 - 4930	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-Total	7800	8110	5180 - 10900	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	µg/kg	Uranium (mass)	11500	11800	9060 - 14600	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Zinc-65	584	545	407 - 808	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Americium-241	22.6	21	15.0 - 28.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cesium-134	497	549	356 - 673	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cesium-137	1320	1320	1080 - 1730	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cobalt-60	905	885	752 - 1120	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Iron-55	110	127	46.4 - 203	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Manganese-54	<4.39	<36.0	<35.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Plutonium-238	27.1	29.6	22.3 - 36.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Plutonium-239	44.5	49.7	37.2 - 60.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Strontium-90	38	31.1	19.7 - 42.3	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-234	59.1	67.3	49.9 - 78.9	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-234	62.3	67.3	49.9 - 78.9	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-238	61.5	66.7	50.4 - 79.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-238	63.6	66.7	50.4 - 79.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-Total	124	137	100 - 162	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-Total	128.9	137	100 - 162	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	µg/Filter	Uranium (mass)	184	200	160 - 234	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	µg/Filter	Uranium (mass)	190	200	160 - 234	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Gross Alpha	98.4	94.2	49.2 - 155	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Gross Beta	71.5	66.8	40.5 - 101	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Americium-241	65	74.6	51.2 - 95.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cobalt-60	2880	2710	2340 - 3110	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Iron-55	1270	1140	670 - 1660	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Manganese-54	<8.37	<71.0	<71.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-238	116	147	88.4 - 190	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-239	56	71.9	44.5 - 88.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Strontium-90	639	628	452 - 776	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	41.2	44.1	33.6 - 50.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	44	44.1	33.6 - 50.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	44.7	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	43.5	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	88.9	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	89.5	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	134	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	130	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Zinc-65	1320	1220	1090 - 1540	Acceptable



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Gross Alpha	74.5	79.4	29.0 - 109	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Tritium	28000	28200	21300 - 34300	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Radium-226	8.15	9.46	7.09 - 11.1	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Radium-228	3.06	3.18	1.71 - 4.63	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Strontium-89	67.6	67.9	55.3 - 76.1	Acceptable



a member of The GEL Group Inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

To: Distribution List

From: Robert L. Pullano, Director, Quality Systems, GEL Laboratories, LLC

Date: December 2, 2022

Subject: Environmental Laboratory Quarterly Quality Assurance Report for Environmental Analyses (July through September 2022)

Attached is GEL Laboratories, LLC (GEL) third quarter 2022 quality assurance report covering Environmental Analyses. This report includes internal quality assurance comparisons, analytical Performance Test (PT) sample cross check programs in support of client Radiological Environmental Monitoring Programs (REMP) and analysis of additional radionuclides in environmental samples that are typically outside the REMP scope.

A total of 45 individual PT analyses were evaluated during this period. GEL received performance evaluation samples from Eckert & Ziegler Analytics, Inc. (EZA) and ERA's RadChem Proficiency Testing Program (RAD).

Please do not hesitate to contact your project manager or me with any additional questions or comments about the report. I can be contacted by email bob.pullano@gel.com, or by phone at 843-556-8171 ext. 4429.

A handwritten signature in black ink, appearing to read "Robert L. Pullano", written over a horizontal line.

Robert L. Pullano
Director, Quality Systems

Attachment

problem solved



a member of The GEL Group Inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ENVIRONMENTAL LABORATORY QUALITY REPORT 2022 THIRD QUARTER

In accordance with the U.S. Nuclear Regulatory Commission requirements, GEL Laboratories, LLC (GEL) participates in an Interlaboratory Comparison Program (ICP). This satisfies the requirements of both Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979 and Regulatory Guide 4.15, Revision 2, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) - Effluent Streams and the Environment", July 2007. Both guides indicate the ICP is to be conducted with the U.S. Environmental Protection Agency (EPA) Environmental Radioactivity Laboratory Intercomparison Studies (Cross-check) Program or an equivalent program, and the ICP should include all sample medium/radionuclide combinations that are offered by the EPA and included in the REMP.

Throughout the year, GEL receives performance evaluation samples from the U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP), ERA's Mixed Rad (MRAD) Proficiency Testing Program, ERA's RadChem Proficiency Testing Program (RAD), and ERA's Quik Response Proficiency Testing Program. Each provider has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provides a means to ensure independent checks are performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. The providers supply the crosscheck samples to GEL. Upon receipt, the laboratory performs the analyses in a normal manner. Laboratory results are given to each provider for evaluation.

The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. (EZA) is measured by the ratio of GEL's result to the known value. Accuracy for all other results is based on statistically derived acceptance ranges calculated by the providers or on internally derived ranges if not provided in the report. An investigation is initiated whenever the ratio or reported result falls outside of the acceptance range.

A summary of GEL's results received during Third Quarter 2022 is provided in Table 2 for the required sample matrix types and isotopic distribution. GEL's results met acceptance criteria for 45 of 45 reported results (100%). As described in the second quarter report, investigations and/or corrective actions for MAPEP 46 were reviewed during this quarter and are provided in Table 3.



TABLE 1

**INTERNAL LABORATORY QUALITY CONTROL RESULT
SUMMARY**

July through September 2022



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Third Quarter 2022	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
MILK				
Gas Flow Sr 2nd count	8	0	11	0
Gas Flow Total Strontium	4	0	4	0
Gamma Spec Liquid RAD A-013 with Ba, La	6	0	16	0
SOLID				
Gamma Spec Solid RAD A-013 with Iodine	2	0	8	0
FILTER				
Gross A & B	61	0	47	0
Gamma Spec Filter	3	0	8	0
LIQUID				
Tritium	43	0	54	0
LSC Iron-55	3	0	5	0
LSC Nickel 63	2	0	4	0
Gas Flow Sr 2nd count	2	0	3	0
Gas Flow Total Strontium	3	0	5	0
Gross Alpha Non Vol Beta	5	0	18	0
Gamma Spec Liquid RAD A-013 with Ba, La	10	0	25	0
Gamma Spec Liquid RAD A-013 with Iodine	4	0	16	0
TISSUE				
Gas Flow Sr 2nd count	2	0	2	0
Gas Flow Total Strontium	1	0	1	0
Gamma Spec Solid RAD A-013 with Iodine	1	0	1	0
VEGETATION				
Gas Flow Total Strontium	3	0	3	0
Gamma Spec Solid RAD A-013 with Iodine	11	0	15	0
AIR CHARCOAL				
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	4	0	4	0
DRINKING WATER				



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Tritium	7	0	5	0
LSC Iron-55	3	0	1	0
LSC Nickel 63	4	0	2	0
Gamma Iodine-131	4	0	4	0
Gas Flow Total Strontium	4	0	3	0
Gross Alpha Non Vol Beta	17	0	18	0
Gamma Spec Liquid RAD A-013 with Ba, La	4	0	6	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	1	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.



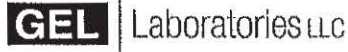
PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 2
GEL QUARTERLY INTERLABORATORY COMPARISON
July through September 2022



PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	2nd/2022	08/24/22	E13659	Cartridge	pCi/L	Iodine-131	8.77E+01	8.53E+01	1.03	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Chromium-51	4.53E+02	4.26E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-60	2.58E+02	2.42E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Chromium-51	3.66E+02	3.44E+02	1.06	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Barium-133	40.1	38.2	30.9 - 42.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-134	84.7	88.6	72.7 - 97.5	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cobalt-60	79	72.4	65.2 - 82.1	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Zinc-65	363	326	293 - 380	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	54.3	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-226	12.1	13.1	9.77 - 15.1	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	8.05	8.4	5.38 - 10.6	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	7.91	8.4	5.38 - 10.6	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Uranium (Nat)	53.5	54	44.0 - 59.5	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	µg/L	Uranium (mass)	74.525	78.8	64.2 - 86.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Tritium	20200	22100	19400 - 24300	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	48.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	47.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	12.8	11.2	7.62 - 13.8	Acceptable



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	11.9	11.2	7.62 - 13.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Iodine-131	28.9	27.7	23.0 - 32.5	Acceptable



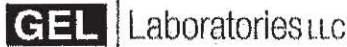
a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 3
CORRECTIVE ACTION REPORT SUMMARY



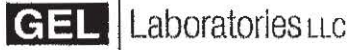
a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

CORRECTIVE ACTION & PE FAILURE					DISPOSITION															
<table border="1"> <thead> <tr> <th>Sample ID</th> <th>Param</th> <th>Reported Value</th> <th>Reference Value</th> <th>Acceptance Range</th> </tr> </thead> <tbody> <tr> <td>MAPEP-22-MaS46 (Radiological)</td> <td>Fe-55 Tc-99</td> <td>725 Bq/kg 506 Bq/kg</td> <td>1100 Bq/kg 778 Bq/kg</td> <td>770-1430 Bq/kg 545-1011 Bq/kg</td> </tr> <tr> <td>MAPEP-22-RdV46</td> <td>Sr-90</td> <td>1.12 Bq/sample</td> <td>0.789 Bq/sample</td> <td>0.552-1.026 Bq/sample</td> </tr> </tbody> </table>					Sample ID	Param	Reported Value	Reference Value	Acceptance Range	MAPEP-22-MaS46 (Radiological)	Fe-55 Tc-99	725 Bq/kg 506 Bq/kg	1100 Bq/kg 778 Bq/kg	770-1430 Bq/kg 545-1011 Bq/kg	MAPEP-22-RdV46	Sr-90	1.12 Bq/sample	0.789 Bq/sample	0.552-1.026 Bq/sample	<p>Containment Actions, if any:</p> <p>Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system.</p>
Sample ID	Param	Reported Value	Reference Value	Acceptance Range																
MAPEP-22-MaS46 (Radiological)	Fe-55 Tc-99	725 Bq/kg 506 Bq/kg	1100 Bq/kg 778 Bq/kg	770-1430 Bq/kg 545-1011 Bq/kg																
MAPEP-22-RdV46	Sr-90	1.12 Bq/sample	0.789 Bq/sample	0.552-1.026 Bq/sample																
					<p>Root Cause(s):</p> <p>MAPEP-22-MaS46 (Radiological): Fe-55:</p> <p>The laboratory reviewed the data and noted that the tracer recoveries for this analysis were higher than typical soil tracer recoveries. The higher tracer recoveries possibly contributed to the low bias seen in the result.</p> <p>Tc-99:</p> <p>The laboratory reviewed both the inorganic and radiological data for contributors to the low bias. Both analyses include the addition of Hydrofluoric Acid to the 1M Hydrochloric leach process. The</p>															



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

.gel.com

	<p>laboratory has concluded that since both the reported results were low, the HF leach may not have been performed long enough for the HF to effectively isolate the Technetium.</p> <p>MAPEP-22-RdV46:</p> <p>The data for the Sr-90 analysis was reviewed and no anomalies were noted. The QC in the analysis batch met acceptance criteria. The laboratory evaluated both the prep and instrument processes for possible areas of contamination that contributed to the positive bias. A definitive source was not determined.</p>
--	---

GEL Laboratories LLC

a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

To: Distribution List

From: Robert L. Pullano, Director, Quality Systems, GEL Laboratories, LLC

Date: February 28, 2023

Subject: Environmental Laboratory Quarterly Quality Assurance Report for Environmental Analyses (October through December 2022)

Attached is GEL Laboratories, LLC (GEL) fourth quarter 2022 quality assurance report covering Environmental Analyses. This report includes internal quality assurance comparisons, analytical Performance Test (PT) sample cross check programs in support of client Radiological Environmental Monitoring Programs (REMP) and analysis of additional radionuclides in environmental samples that are typically outside the REMP scope.

A total of 192 individual PT analyses were evaluated during this period. GEL received performance evaluation samples from U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP) Eckert & Ziegler Analytics, Inc. (EZA), ERA's Mixed Rad (MRAD) Proficiency Testing Program, and ERA's RadChem Proficiency Testing Program (RAD).

Please do not hesitate to contact your project manager or me with any additional questions or comments about the report. I can be contacted by email bob.pullano@gel.com, or by phone at 843-556-8171 ext. 4429.

Robert L. Pullano
Director, Quality Systems

Attachment

problem solved



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

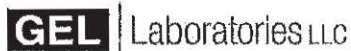
ENVIRONMENTAL LABORATORY QUALITY REPORT 2022 FOURTH QUARTER

In accordance with the U.S. Nuclear Regulatory Commission requirements, GEL Laboratories, LLC (GEL) participates in an Interlaboratory Comparison Program (ICP). This satisfies the requirements of both Regulatory Guide 4.15, Revision 1, "Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment", February 1979 and Regulatory Guide 4.15, Revision 2, "Quality Assurance for Radiological Monitoring Programs (Inception through Normal Operations to License Termination) - Effluent Streams and the Environment", July 2007. Both guides indicate the ICP is to be conducted with the U.S. Environmental Protection Agency (EPA) Environmental Radioactivity Laboratory Intercomparison Studies (Cross-check) Program or an equivalent program, and the ICP should include all sample medium/radionuclide combinations that are offered by the EPA and included in the REMP.

Throughout the year, GEL receives performance evaluation samples from the U.S. Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP), ERA's Mixed Rad (MRAD) Proficiency Testing Program, ERA's RadChem Proficiency Testing Program (RAD), and ERA's Quik Response Proficiency Testing Program. Each provider has a documented Quality Assurance (QA) program and the capability to prepare Quality Control (QC) materials traceable to the National Institute of Standards and Technology. The ICP is a third-party blind testing program which provides a means to ensure independent checks are performed on the accuracy and precision of the measurements of radioactive materials in environmental sample matrices. The providers supply the crosscheck samples to GEL. Upon receipt, the laboratory performs the analyses in a normal manner. Laboratory results are given to each provider for evaluation.

The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. (EZA) is measured by the ratio of GEL's result to the known value. Accuracy for all other results is based on statistically derived acceptance ranges calculated by the providers or on internally derived ranges if not provided in the report. An investigation is initiated whenever the ratio or reported result falls outside of the acceptance range.

A summary of GEL's results received during Fourth Quarter 2022 is provided in Table 2 for the required sample matrix types and isotopic distribution. GEL's results met acceptance criteria for 189 of 192 reported results (98.4%). Investigations and/or corrective actions for MAPEP 47 and MRAD 37 were reviewed during this quarter and are provided in Table 3.



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 1

**INTERNAL LABORATORY QUALITY CONTROL RESULT
SUMMARY**

October through December 2022



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Fourth Quarter 2022	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
LIQUID				
Gross Alpha Non Vol Beta	38	0	102	0
Gas Flow Sr 2nd count	19	0	19	0
TISSUE				
Gross A & B	324	0	263	0
FILTER				
Gamma Spec Liquid RAD A-013 with Ba, La	100	0	199	0
LIQUID				
Iodine-131	0	0	27	0
DRINKING WATER				
Gas Flow Sr 2nd count	33	0	51	0
MILK				
Gamma Spec Liquid RAD A-013 with Ba, La	33	0	51	0
DRINKING WATER				
Tritium	259	0	325	0
LIQUID				
Iodine-131	0	0	93	0
Gamma Spec Liquid RAD A-013 with Ba, La	35	0	106	0
MILK				
Gamma Iodine 131 RAD A-013	333	0	500	0
AIR CHARCOAL				
Gamma Spec Liquid RAD A-013 with Iodine	32	0	104	0
LIQUID				
Gamma Spec Solid RAD A-013 with Iodine	64	0	85	0
VEGETATION				



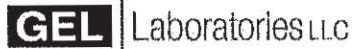
a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

Gamma Iodine-131	4	0	92	0
MILK				
Gamma Spec Solid RAD A-013 with Iodine	40	0	63	0
SOLID				
Gas Flow Total Strontium	19	0	23	0
LIQUID				
Gross Alpha Non Vol Beta	75	0	80	0
DRINKING WATER				
LSC Iron-55	5	0	5	0
SOLID				
LSC Nickel 63	5	0	5	0
Gamma Spec Solid RAD A-013	56	0	68	0
TISSUE				
LSC Iron-55	6	0	6	0
DRINKING WATER				
LSC Nickel 63	6	0	6	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	33	0	33	0
AIR CHARCOAL				
Gas Flow Total Strontium	11	0	11	0
TISSUE				
Gamma Spec Solid RAD A-013 with Iodine	18	0	18	0
Gamma Iodine-131	23	0	23	0
DRINKING WATER				
Gamma Spec Filter	38	0	68	0
0				
Gamma Spec Solid RAD A-013	10	0	13	0
SOLID				
Gas Flow Total Strontium	5	0	5	0
Gas Flow Total Strontium	5	0	5	0



a member of The GEL Group Inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

VEGETATION				
Tritium	20	0	26	0
DRINKING WATER				
Gas Flow Total Strontium	19	0	15	0
Gas Flow Sr 2nd count	14	0	14	0
LIQUID				
Gas Flow Total Strontium	14	0	10	0
MILK				
Gas Flow Sr 2nd count	6	0	10	0
VEGETATION				
Gamma Spec Liquid RAD A-013 with Iodine	0	0	5	0
DRINKING WATER				
LSC Iron-55	19	0	19	0
LIQUID				
LSC Nickel 63	19	0	19	0
Gas Flow Sr 2nd count	8	0	8	0
SOLID				
Gamma Spec Solid RAD A-013	8	0	8	0
VEGETATION				
Gas Flow Sr 2nd Count	4	0	4	0
FILTER				
Carbon-14	4	0	4	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 2

GEL QUARTERLY INTERLABORATORY COMPARISON

October through December 2022



PT. Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	3rd/2022	11/22/22	E13663	Cartridge	pCi	Iodine-131	7.97E+01	8.35E+01	0.95	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-89	9.54E+01	8.91E+01	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-90	8.87E+00	1.36E+01	0.65	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Caesium-141	1.52E+02	1.61E+02	0.94	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-58	1.87E+02	1.89E+02	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-60	2.65E+02	2.60E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Chromium-51	4.63E+02	4.56E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-134	2.31E+02	2.52E+02	0.92	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-137	2.24E+02	2.22E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iron-59	1.91E+02	1.73E+02	1.10	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iodine-131	9.28E+01	9.42E+01	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Manganese-54	2.97E+02	2.82E+02	1.05	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Zinc-65	3.99E+02	3.73E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cerium-141	1.29E+02	1.26E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-58	1.49E+02	1.48E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-60	2.17E+02	2.04E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Chromium-51	3.84E+02	3.57E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-134	1.84E+02	1.98E+02	0.93	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-137	1.79E+02	1.74E+02	1.03	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iron-59	1.57E+02	1.36E+02	1.16	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iodine-131	8.96E+01	8.80E+01	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Manganese-54	2.30E+02	2.21E+02	1.04	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Zinc-65	3.42E+05	2.93E+02	1.17	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Alpha	0.378	0.90	0.27-1.53	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Beta	1.25	1.31	0.66-1.97	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Alpha	0.978	0.871	0.281-1.481	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Beta	4.57	5.20	2.60-7.80	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Americium-241	96.8	99.2	69.4-129.0	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-134	564	627	439-815	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-137	0.284		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-57	856	786	650-1022	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-60	0.429		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Iron-55	628	740	518-962	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Manganese-54	888	841	589-1093	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Nickel-63	20.0		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-238	0.285	0.56	Sens. Evaluation	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-239/240	110	113	79-147	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-241	22.7	26.8	Sens. Evaluation	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Potassium-40	561	537	376-698	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Strontium-90	842	852	596-1108	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-228	55	49	34-84	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-230	49.6	43	30-56	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-232	51	47	33-61	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Technetium-99	979	1000	700-1300	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	U-234/233	88.9	50.8	35.6-66.0	Not Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Uranium-238	196	157	110-204	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Zinc-65	1240	1140	798-1482	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Americium-241	0.414	0.327	0.229-0.425	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-134	15.9	17.1	12.0-22.2	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-137	17.80	16.8	11.8-21.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-57	30.4	30.0	21.0-39.0	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-60	17.8	17.0	11.9-22.1	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Hydrogen-3	350	395	277-514	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Iron-55	22.9	27.8	19.5-36.1	Acceptable



MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Manganese-54	-0.0317		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Nickel-63	35.7	32.9	23.0-42.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-238	0.881	0.985	0.690-1.281	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-239/240	0.943	1.070	0.749-1.391	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Potassium-40	-0.850		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Radium-226	0.471	0.511	0.358-0.664	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Strontium-90	7.49	7.73	5.41-10.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Technetium-99	-0.206		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-234/233	1.3100	1.3400	0.96-1.78	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-238	0.851	0.84	0.69-1.09	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Zinc-65	12.6	11.3	7.9-14.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-235	0.0803	0.0743	0.050-0.0968	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-238	11.6	10.4	7.3-13.5	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-Total	11.680	10.5	7.4-13.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Americium-241	0.0953	0.0899	0.0629-0.1169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-134	0.0435		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-137	1.66	1.530	1.07-1.99	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cobalt-57	3.32	3.32	2.32-4.32	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cobalt-60	2.00	1.99	1.39-2.59	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Manganese-54	1.97	1.88	1.32-2.44	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-238	0.1110	0.1180	0.081-0.151	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-239/240	0.0854	0.0936	0.0655-0.1217	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Strontium-90	1.580	1.620	1.13-2.11	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-234/233	0.132	0.125	0.088-0.163	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-238	0.14	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Zinc-65	1.77	1.58	1.11-2.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Americium-241	0.1890	0.1890	0.132-0.248	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-134	-0.002		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-137	1.18	1.083	0.758-1.408	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-57	0.0163		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-60	4.84	4.82	3.23-6.01	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Manganese-54	2.42	2.43	1.70-3.16	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-238	0.1490	0.156	0.109-0.203	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-239/240	0.14900	1.162	0.113-0.211	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Strontium-90	1.78	1.80	1.12-2.08	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-234/233	0.1330	0.1260	0.088-0.164	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-238	0.135	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Zinc-65	8.21	7.49	5.24-9.74	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Actinium-228	1550	1870	1100 - 2100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Americium-241	187	147	79.4 - 208	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-212	1460	1870	478 - 2490	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-134	8710	9800	6560 - 11500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-137	8080	7890	5970 - 9980	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cobalt-60	1490	1500	1180 - 1850	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-212	1820	1630	1140 - 2080	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-214	735	838	352 - 1320	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Manganese-54	<32.1	<555	<555	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-238	1100	1100	549 - 1670	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-239	948	967	527 - 1390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Potassium-40	41300	43100	29700 - 51500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Strontium-90	5310	6270	1950 - 9770	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Thorium-234	3920	3320	1250 - 5690	Acceptable



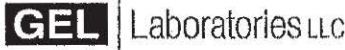
a member of The GEL Group Inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3410	3350	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3640	3360	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-238	3880	3320	1820 - 4460	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-Total	7520	6830	3790 - 8830	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	µg/kg	Uranium (mass)	11600	9960	4490 - 13400	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Zinc-65	4300	3990	3190 - 5440	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Americium-241	3650	3560	2200 - 5030	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-134	1820	1860	1230 - 2480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-137	2660	2300	1770 - 3100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cobalt-60	528	498	389 - 648	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Curium-244	957	1100	620 - 1370	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Manganese-54	<27.4	<207	<207	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-238	1320	1300	900 - 1680	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-239	1190	1170	809 - 1480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Strontium-90	4560	2960	1670 - 3860	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-234	1090	1090	766 - 1390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-238	1100	1080	763 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-Total	2230	2220	1420 - 2990	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	µg/kg	Uranium (mass)	3300	3240	2490 - 4010	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Zinc-65	665	512	382 - 759	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Americium-241	41.2	38.8	27.7 - 51.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-134	286	325	211 - 399	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-137	739	795	683 - 1040	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cobalt-60	203	191	162 - 243	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Iron-55	107	122	44.5 - 195	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Manganese-54	<2.38	<35.0	<35.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-238	29.9	29.9	22.6 - 38.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-239	12.1	13	9.73 - 15.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Strontium-90	130	133	84.1 - 181	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	68.1	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	69.9	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	70.1	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	72.3	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	141	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	142.2	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	210	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	216	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Zinc-65	133	120	98.4 - 183	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Alpha	57.8	55.5	29.0 - 91.4	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Beta	68.2	64.8	39.3 - 97.9	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Americium-241	100	98.2	66.0 - 123	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-134	452	483	365 - 531	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-137	1220	1250	1070 - 1420	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cobalt-60	1500	1420	1220 - 1630	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Iron-55	867	928	544 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Manganese-54	<5.46	<71.0	<71.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-238	44.5	52.6	31.6 - 68.2	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-239	94.4	117	72.5 - 144	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Strontium-90	283	224	161 - 277	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	140	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	145	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	147	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	158	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	296	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	301	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	442	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	468	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Zinc-65	145	122	109 - 154	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Alpha	46.6	42.7	15.6 - 68.9	Acceptable



a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Beta	93.6	111	55.5 - 153	Acceptable
ERA	4th/2022	2/15/23	MRAD-37	Water	pCi/L	Tritium	16900	18800	14200 - 22900	Acceptable
EZA	4th/2022	2/15/23	E13667	Cartridge	pCi	Iodine-131	8.96E+01	9.18E+01	0.98	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-89	9.93E+01	9.04E+01	1.10	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-90	1.28E+01	1.50E+01	0.86	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cerium-141	2.32E+02	2.26E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-58	2.35E+02	2.30E+02	1.02	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-60	2.85E+02	2.90E+02	0.98	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Chromium-51	4.62E+02	4.64E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Chromium-134	1.76E+02	1.91E+02	0.92	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cesium-137	2.18E+02	2.19E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iron-59	2.31E+02	1.98E+02	1.17	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iodine-131	1.02E+02	9.51E+01	1.07	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Manganese-54	2.64E+02	2.52E+02	1.05	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Zinc-65	3.50E+02	3.06E+02	1.15	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cerium-141	2.33E+02	2.24E+02	1.04	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-58	2.54E+02	2.29E+02	1.07	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-60	2.97E+02	2.89E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Chromium-51	5.24E+02	4.62E+02	1.13	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-134	1.71E+02	1.91E+02	0.90	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-137	2.17E+02	2.18E+02	1.00	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iron-59	2.32E+02	1.97E+02	1.18	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iodine-131	9.98E+01	9.63E+01	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Manganese-54	2.72E+02	2.51E+02	1.08	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Zinc-65	3.36E+02	3.04E+02	1.11	Acceptable



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

TABLE 3
CORRECTIVE ACTION REPORT SUMMARY



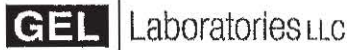
a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

CORRECTIVE ACTION & PE FAILURE					DISPOSITION
Sample ID	Parm	Reported Value	Reference Value	Acceptance Range	Containment Actions, if any:
MAPEP-22-MaS47 (Radiological)	U-234 U-238 (W)	88.9 Bq/kg 196 Bq/kg	50.8 Bq/kg 157 Bq/kg	35.6-66.0 Bq/kg 110-204 Bq/kg	<p>Upon receipt of the FT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system.</p> <p>A review of the spectral data and calculations was performed, and no errors were found. A recount of the samples was performed to see if there were any counting issues that would result in the higher bias. Recount data verified original results. A reanalysis was performed via alpha spec, utilizing an HF, HNO₃, HCL complete digestion procedure (GEL-RAD-A-011). Reanalysis results averaged between 83%-104% for U-234 and 92%-102% for U-238. Possible issues with original analysis could include: analyst errors in tracing or aliquoting, tracer low bias (a different secondary tracer was used on the reanalysis, however control charts of the original tracer indicated no bias), or possible contamination issues from the NaOH fusion method.</p>



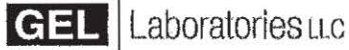
a member of The GEL Group inc



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

	<p>(original prep) and/or the crucibles used for the fusion. Although contamination is a probable cause, the batch blank gave no indication of a contamination issues. A review of the cleaning procedure for the crucibles was performed and no issues were identified.</p>															
	<p>Root Cause(s):</p> <p>The laboratory could not definitively identify the cause of the high bias in the results for these parameters. The lab will continue to monitor the recoveries of these parameters in all methods to ensure that there are no continued issues..</p>															
<table border="1" data-bbox="164 1119 1219 1341"> <thead> <tr> <th>Sample ID</th> <th>Parm</th> <th>Reported Value</th> <th>Reference Value</th> <th>Acceptance Range</th> </tr> </thead> <tbody> <tr> <td>Vegetation</td> <td>Strontium-90</td> <td>4560 pCi/kg</td> <td>2960 pCi/kg</td> <td>1670-3860 pCi/L</td> </tr> <tr> <td>Water</td> <td>Strontium-90</td> <td>283 pCi/L</td> <td>224 pCi/L</td> <td>161-277 pCi/L</td> </tr> </tbody> </table>	Sample ID	Parm	Reported Value	Reference Value	Acceptance Range	Vegetation	Strontium-90	4560 pCi/kg	2960 pCi/kg	1670-3860 pCi/L	Water	Strontium-90	283 pCi/L	224 pCi/L	161-277 pCi/L	<p>Containment Actions, if any:</p> <p>Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system</p>
Sample ID	Parm	Reported Value	Reference Value	Acceptance Range												
Vegetation	Strontium-90	4560 pCi/kg	2960 pCi/kg	1670-3860 pCi/L												
Water	Strontium-90	283 pCi/L	224 pCi/L	161-277 pCi/L												
	<p>The lab will continue to monitor the recoveries of these</p>															



a member of The GEL Group INC



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

parameters to ensure that there are no continued issues. During the analysis time period for MRAD-37, the laboratory successfully completed the analysis of Strontium-90 in these matrices in PT study MAPEP-47. In which, the samples were prepared and analyzed by the same processes and procedures



PO Box 30712 Charleston, SC 29417
2040 Savage Road Charleston, SC 29407
P 843.556.8171
F 843.766.1178

gel.com

2022 ANNUAL QUALITY ASSURANCE REPORT

FOR THE

**RADIOLOGICAL ENVIRONMENTAL
MONITORING PROGRAM (REMP)**

2022 ANNUAL QUALITY ASSURANCE REPORT
FOR THE
RADIOLOGICAL ENVIRONMENTAL
MONITORING PROGRAM (REMP)

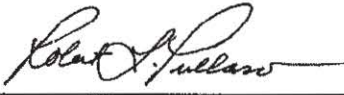
Approved By  March 17, 2023
Robert L. Pullano Date
Director, Quality Systems

TABLE OF CONTENTS

1. INTRODUCTION	5
2. QUALITY ASSURANCE PROGRAMS FOR INTER-LABORATORY, INTRA-LABORATORY AND THIRD PARTY CROSS-CHECK	5
3. QUALITY ASSURANCE PROGRAM FOR INTERNAL AND EXTERNAL AUDITS	7
4. PERFORMANCE EVALUATION ACCEPTANCE CRITERIA FOR ENVIRONMENTAL SAMPLE ANALYSIS	7
5. PERFORMANCE EVALUATION SAMPLES	7
6. QUALITY CONTROL PROGRAM FOR ENVIRONMENTAL SAMPLE ANALYSIS	8
7. SUMMARY OF DATA RESULTS	9
8. SUMMARY OF PARTICIPATION IN THE ECKERT & ZIEGLER ANALYTICS ENVIRONMENTAL CROSS-CHECK PROGRAM	9
9. SUMMARY OF PARTICIPATION IN THE MAPEP MONITORING PROGRAM	9
10. SUMMARY OF PARTICIPATION IN THE ERA MRAD PT PROGRAM	9
11. SUMMARY OF PARTICIPATION IN THE ERA PT PROGRAM	9
12. CORRECTIVE ACTION REQUEST AND REPORT (CARR)	9
13. REFERENCES	11

TABLES

TABLE 1	12
---------	----

TABLE OF CONTENTS (CONTINUED)

FIGURES

Figure 1	Cobalt-60 Performance Evaluation Results and % Bias	35
Figure 2	Cesium-137 Performance Evaluation Results and % Bias	36
Figure 3	Tritium Performance Evaluation Results and % Bias	37
Figure 4	Strontium-90 Performance Evaluation Results and % Bias	38
Figure 5	Gross Alpha Performance Evaluation Results and % Bias	39
Figure 6	Gross Beta Performance Evaluation Results and % Bias	40

Figure 7 Iodine-131 Performance Evaluation Results and % Bias41
Figure 8 Americium-241 Performance Evaluation Results and % Bias42
Figure 9 Plutonium-238 Performance Evaluation Results and % Bias43

2022 ANNUAL QUALITY ASSURANCE REPORT FOR THE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)

1. Introduction

GEL Laboratories, LLC (GEL) is a privately owned environmental laboratory dedicated to providing personalized client services of the highest quality. GEL was established as an analytical testing laboratory in 1981. Now a full service lab, our analytical divisions use state of the art equipment and methods to provide a comprehensive array of organic, inorganic, and radiochemical analyses to meet the needs of our clients.

At GEL, quality is emphasized at every level of personnel throughout the company. Management's ongoing commitment to good professional practice and to the quality of our testing services to our customers is demonstrated by their dedication of personnel and resources to develop, implement, assess, and improve our technical and management operations.

The purpose of GEL's quality assurance program is to establish policies, procedures, and processes to meet or exceed the expectations of our clients. To achieve this, all personnel that support these services to our clients are introduced to the program and policies during their initial orientation, and annually thereafter during company-wide training sessions.

GEL's primary goals are to ensure that all measurement data generated are scientifically and legally defensible, of known and acceptable quality per the data quality objectives (DQOs), and thoroughly documented to provide sound support for environmental decisions. In addition, GEL continues to ensure compliance with all contractual requirements, environmental standards, and regulations established by local, state and federal authorities.

GEL administers the QA program in accordance with the Quality Assurance Plan, GL-QS-B-001. Our Quality Systems include all quality assurance (QA) policies and quality control (QC) procedures necessary to plan, implement, and assess the work we perform. GEL's QA Program establishes a quality management system (QMS) that governs all of the activities of our organization.

This report entails the quality assurance program for the proficiency testing and environmental monitoring aspects of GEL for 2022. GEL's QA Program is designed to monitor the quality of analytical processing associated with environmental, radiobioassay, effluent (10 CFR Part 50), and waste (10 CFR Part 61) sample analysis.

This report covers the category of Radiological Environmental Monitoring Program (REMP) and includes:

- Intra-laboratory QC results analyzed during 2022.
- Inter-laboratory QC results analyzed during 2022 where known values are available.

2. Quality Assurance Programs for Inter-laboratory, Intra-laboratory and Third Party Cross-Check

In addition to internal and client audits, our laboratory participates in annual performance evaluation studies conducted by independent providers. We routinely participate in the following types of performance audits:

- Proficiency testing and other inter-laboratory comparisons
- Performance requirements necessary to retain certifications
- Evaluation of recoveries of certified reference and in-house secondary reference materials using statistical process control data.
- Evaluation of relative percent difference between measurements through SPC data.

We also participate in a number of proficiency testing programs for federal and state agencies and as required by contracts. It is our policy that no proficiency evaluation samples be analyzed in any special manner. Our annual performance evaluation participation generally includes a combination of studies that support the following:

- US Environmental Protection Agency Discharge Monitoring Report, Quality Assurance Program (DMR-QA). Annual national program sponsored by EPA for laboratories engaged in the analysis of samples associated with the NPDES monitoring program. Participation is mandatory for all holders of NPDES permits. The permit holder must analyze for all of the parameters listed on the discharge permit. Parameters include general chemistry, metals, BOD/COD, oil and grease, ammonia, nitrates, etc.
- Department of Energy Mixed Analyte Performance Evaluation Program (MAPEP). A semiannual program developed by DOE in support of DOE contractors performing waste analyses. Participation is required for all laboratories that perform environmental analytical measurements in support of environmental management activities. This program includes radioactive isotopes in water, soil, vegetation and air filters.
- ERA's MRAD-Multimedia Radiochemistry Proficiency test program. This program is for labs seeking certification for radionuclides in wastewater and solid waste. The program is conducted in strict compliance with USEPA National Standards for Water Proficiency study.
- ERA's InterLaB RadCheM Proficiency Testing Program for radiological analyses. This program completes the process of replacing the USEPA EMSL-LV Nuclear Radiation Assessment Division program discontinued in 1998. Laboratories seeking certification for radionuclide analysis in drinking water also use the study. This program is conducted in strict compliance with the USEPA National Standards for Water Proficiency Testing Studies. This program encompasses Uranium by EPA method 200.8 (for drinking water certification in Utah/Primary NELAP), gamma emitters, Gross Alpha/Beta, Iodine-131, naturally occurring radioactive isotopes, Strontium-89/90, and Tritium.
- ERA's Water Pollution (WP) biannual program for waste methodologies includes parameters for both organic and inorganic analytes.
- ERA's Water Supply (WS) biannual program for drinking water methodologies includes parameters for organic and inorganic analytes.
- Environmental Cross-Check Program administered by Eckert & Ziegler Analytics, Inc. This program encompasses radionuclides in water, soil, milk, naturally occurring radioactive isotopes in soil and air filters.

GEL procures single-blind performance evaluation samples from Eckert & Ziegler Analytics to verify the analysis of sample matrices processed at GEL. Samples are received on a quarterly basis. GEL's Third-Party Cross-Check Program provides environmental matrices encountered in a typical nuclear utility REMP. The Third-Party Cross-Check Program is intended to meet or exceed the inter-laboratory comparison program requirements discussed in NRC Regulatory Guide 4.15. Once performance evaluation samples have been prepared in accordance with the instructions provided by

the PT provider, samples are managed and analyzed in the same manner as environmental samples from GEL's clients.

3. Quality Assurance Program for Internal and External Audits

During each annual reporting period, at least one internal assessment of each area of the laboratory is conducted in accordance with the pre-established schedule from Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001. The annual internal audit plan is reviewed for adequacy and includes the scheduled frequency and scope of quality control actions necessary to GEL's QA program. Internal audits are conducted at least annually in accordance with a schedule approved by the Quality Systems Director. Supplier audits are contingent upon the categorization of the supplies and may or may not be conducted prior to the use of a supplier or subcontractor. Type I suppliers and subcontractors, regardless of how they were initially qualified, are re-evaluated at least once every three years.

In addition, prospective customers audit GEL during pre-contract audits. GEL hosts several external audits each year for both our clients and other programs. These programs include environmental monitoring, waste characterization, and radiobioassay. The following list of programs may audit GEL at least annually or up to every three years depending on the program.

- TNI, The NELAC Institute, National Environmental Laboratory Accreditation Program
- DOECAP, U.S. Department of Energy Consolidated Audit Program
- DOELAP, U.S. Department of Energy Laboratory Accreditation Program
- DOE QSAS, U.S. Department of Energy, Quality Systems for Analytical Services
- ISO/IEC 17025:2017
- A2LA, American Association for Laboratory Accreditation
- DoD ELAP, US Department of Defense Environmental Accreditation Program
- NUPIC, Nuclear Procurement Issues Committee
- South Carolina Department of Health and Environmental Control (SC DHEC)

The annual radiochemistry laboratory internal audit (22-RAD-001) was conducted in August and September, 2022. There were no findings or observations and four recommendations for improvements from this assessment.

4. Performance Evaluation Acceptance Criteria for Environmental Sample Analysis

GEL utilized an acceptance protocol based upon two performance models. For those inter-laboratory programs that already have established performance criteria for bias (i.e., MAPEP, and ERA/ELAP), GEL will utilize the criteria for the specific program. For intra-laboratory or third party quality control programs that do not have a specific acceptance criteria (i.e. the Eckert-Ziegler Analytics Environmental Cross-check Program), results will be evaluated in accordance with GEL's internal acceptance criteria.

5. Performance Evaluation Samples

Performance Evaluation (PE) results and internal quality control sample results are evaluated in accordance with GEL acceptance criteria. The first criterion concerns bias, which is defined as the deviation of any one result from the known value. The second criterion concerns precision, which deals with the ability of the measurement to be replicated by comparison of an individual result with the mean of all results for a given sample set.

At GEL, we also evaluate our analytical performance on a regular basis through statistical process control (SPC) acceptance criteria. Where feasible, this criterion is applied to both measures of precision and accuracy and is specific to sample matrix. We establish environmental process control limits at least annually.

For Radiochemistry analysis, quality control evaluation is based on static limits rather than those that are statistically derived. Our current process control limits are maintained in GEL's AlphaLIMS. We also measure precision with matrix duplicates and/or matrix spike duplicates. The upper and lower control limits (UCL and LCL respectively) for precision are plus or minus three times the standard deviation from the mean of a series of relative percent differences. The static precision criteria for radiochemical analyses are 0 - 20%, for activity levels exceeding the contract required detection limit (CRDL).

6. Quality Control Program for Environmental Sample Analysis

GEL's internal QA Program is designed to include QC functions such as instrumentation calibration checks (to insure proper instrument response), blank samples, instrumentation backgrounds, duplicates, as well as overall staff qualification analyses and statistical process controls. Both quality control and qualification analyses samples are used to be as similar as the matrix type of those samples submitted for analysis by the various laboratory clients. These performance test samples (or performance evaluation samples) are either actual sample submitted in duplicate in order to evaluate the precision of laboratory measurements, or fortified blank samples, which have been given a known quantity of a radioisotope that is in the interest to GEL's clients.

Accuracy (or Bias) is measured through laboratory control samples and/or matrix spikes, as well as surrogates and internal standards. The UCLs and LCLs for accuracy are plus or minus three times the standard deviation from the mean of a series of recoveries. The static limit for most radiochemical analyses is 75 - 125%. Specific instructions for out-of-control situations are provided in the applicable analytical SOP.

GEL's Laboratory Control Standard (LCS) is an aliquot of reagent water or other blank matrix to which known quantities of the method analytes are added in the laboratory. The LCS is analyzed exactly like a sample, and its purpose is to determine whether the methodology is in control, and whether the laboratory is capable of making accurate and precise measurements. Some methods may refer to these samples as Laboratory Fortified Blanks (LFB). The requirement for recovery is between 75% and 125% for radiological analyses excluding drinking water matrix.

$$\text{Bias (\%)} = \frac{(\text{observed concentration})}{(\text{known concentration})} * 100 \%$$

Precision is a data quality indicator of the agreement between measurements of the same property, obtained under similar conditions, and how well they conform to themselves. Precision is usually expressed as standard deviation, variance or range in either absolute or relative (percentage) terms.

GEL's laboratory duplicate (DUP or LCSD) is an aliquot of a sample taken from the same container and processed in the same manner under identical laboratory conditions. The aliquot is analyzed independently from the parent sample and the results are compared to measure precision and accuracy.

If a sample duplicate is analyzed, it will be reported as Relative Percent Difference (RPD). The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

$$\text{Difference (\%)} = \frac{(\text{high duplicate result} - \text{low duplicate result})}{(\text{average of results})} * 100 \%$$

7. Summary of Data Results

During 2022, forty-five (45) radioisotopes associated with seven (7) matrix types were analyzed under GEL's Performance Evaluation program in participation with ERA, MAPEP, and Eckert & Ziegler Analytics. Matrix types were representative of client analyses performed during 2022. Of the four hundred forty-one (441) total results, 98.4% (434 of 441) were found to be acceptable within the PT providers three sigma or other statistical criteria. The list below contains the type of matrix evaluated by GEL.

- Air Filter
- Cartridge
- Water
- Milk
- Soil
- Liquid
- Vegetation

Graphs are provided in Figures 1-9 of this report to allow for the evaluation of trends or biases. These graphs include radioisotopes Cobalt-60, Cesium-137, Tritium, Strontium-90, Gross Alpha, Gross Beta, Iodine-131, Americium-241, and Plutonium-238.

8. Summary of Participation in the Eckert & Ziegler Analytics Environmental Cross-Check Program

Eckert & Ziegler Analytics provided samples for eighty-nine (89) individual environmental analyses. The accuracy of each result reported to Eckert & Ziegler Analytics, Inc. is measured by the ratio of GEL's result to the known value. All results fell within GEL's acceptance criteria (100% within acceptance).

9. Summary of Participation in the MAPEP Monitoring Program

MAPEP Series 46 and 47 were analyzed by the laboratory. Of the one hundred thirty-seven (137) analyses reported, 96.4% (132 out of 137) fell within the PT provider's acceptance criteria.

10. Summary of Participation in the ERA MRad PT Program

The ERA MRad program provided samples (MRAD-36 and MRAD-37) for one hundred sixty-three (163) individual environmental analyses reported. Of the 171 analyses reported, 98.8% (161 of the 163) fell within the PT provider's acceptance criteria.

11. Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-129 and RAD-130) for twenty-five (25) individual environmental analyses. Of the 25 analyses, 100% fell within the PT provider's acceptance criteria.

All corrective actions for unacceptable PTs are summarized in Table 8.

12. Corrective Action Request and Report (CARR)

There are two categories of corrective action at GEL. One is corrective action implemented at the analytical and data review level in accordance with the analytical SOP. The other is formal corrective action documented by the Quality Systems Team in accordance with GL-QS-E-002. A formal corrective action is initiated when a nonconformance reoccurs or is so significant that permanent elimination or prevention of

the problem is required. Formal corrective action investigations include root cause analysis.

GEL includes quality requirements in most analytical standard operating procedures to ensure that data are reported only if the quality control criteria are met or the quality control measures that did not meet the acceptance criteria are documented. A formal corrective action is implemented according to GL-QS-E-002 for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement. Recording and documentation is performed following guidelines stated in GL-QS-E-012 for Client NCR Database Operation.

Any employee at GEL can identify and report a nonconformance and request that corrective action be taken. Any GEL employee can participate on a corrective action team as requested by the QS team or Group Leaders. The steps for conducting corrective action are detailed in GL-QS-E-002. In the event that correctness or validity of the laboratory's test results in doubt, the laboratory will take corrective action. If investigations show that the results have been impacted, affected clients will be informed of the issue in writing within five (5) calendar days of the discovery.

Table 8 provides the status of CARRs for radiological performance testing during 2022. **It has been determined that causes of the unacceptable results did not impact any data reported to our clients.**

13. References

1. GEL Quality Assurance Plan, GL-QS-B-001
2. GEL Standard Operating Procedure for the Conduct of Quality Audits, GL-QS-E-001
3. GEL Standard Operating Procedure for Conducting Corrective/Preventive Action and Identifying Opportunities for Improvement, GL-QS-E-002
4. GEL Standard Operating Procedure for AlphaLIMS Documentation of Nonconformance Reporting and Dispositioning and Control of Nonconforming Items, GL-QS-E-004
5. GEL Standard Operating Procedure for Handling Proficiency Evaluation Samples, GL-QS-E-013
6. GEL Standard Operating Procedure for Quality Assurance Measurement Calculations and Processes, GL-QS-E-014
7. 40 CFR Part 136 Guidelines Establishing Test Procedures for the Analysis of Pollutants
8. ISO/IEC 17025-2017, General Requirements for the Competence of Testing and Calibration Laboratories
9. ANSI/ASQC E4-1994, Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs, American National Standard
10. 2016 TNI Standard, The NELAC Institute, National Environmental Accreditation Program
11. MARLAP, Multi-Agency Radiological Laboratory Analytical Protocols
12. 10 CFR Part 21, Reporting of Defects and Noncompliance
13. 10 CFR Part 50 Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants
14. 10 CFR Part 61, Licensing Requirements for Land Disposal and Radioactive Waste
15. NRC REG Guide 4.15 and NRC REG Guide 4.8

TABLE 1
2022 RADIOLOGICAL PROFICIENCY TESTING RESULTS AND ACCEPTANCE CRITERIA

PT Provider	Quarter /Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
EZA	1st/2022	05/20/22	E13655	Cartridge	pCi	Iodine-131	8.98E+01	8.72E+01	1.03	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-89	9.30E+01	9.68E+01	0.96	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-90	8.41E+00	1.26E+01	0.67	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cerium-141	8.31E+01	6.46E+01	1.29	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-58	1.66E+02	1.64E+02	1.04	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-60	2.96E+02	3.02E+02	0.98	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Chromium-51	3.92E+02	3.39E+02	1.16	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-134	1.68E+02	1.82E+02	0.92	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-137	2.41E+02	2.23E+02	1.08	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Manganese-54	1.76E+02	1.64E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iron-59	1.91E+02	1.86E+02	1.03	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iodine-131	1.19E+02	9.67E+01	1.23	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Zinc-65	2.62E+02	2.46E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cerium-141	7.12E+01	7.61E+01	0.94	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-58	2.05E+02	1.93E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-60	3.79E+02	3.55E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-134	2.00E+02	2.14E+02	0.93	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-137	2.65E+02	2.63E+02	1.01	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iodine-131	9.35E+01	8.78E+01	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iron-59	2.39E+02	2.18E+02	1.10	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Manganese-54	2.07E+02	1.93E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Zinc-65	3.25E+02	2.90E+02	1.12	Acceptable
ERA	2nd/2022	5/25/2022	RAD 125	Water	pCi/L	Radium-226	14.2	19.3	14.3 - 22.0	Acceptable
ERA	2nd/2022	5/25/2022	RAD 125	Water	pCi/L	Radium-228	9.98	10.3	6.71 - 12.8	Acceptable
ERA	2nd/2022	5/25/2022	RAD 125	Water	pCi/L	Strontium-89	59.3	63.5	51.4 - 71.5	Acceptable
EZA	2nd/2022	08/24/22	E13659	Cartridge	pCi	Iodine-131	8.77E+01	8.53E+01	1.03	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Chromium-51	4.53E+02	4.25E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-60	2.58E+02	2.42E+02	1.07	Acceptable

EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Chromium-51	3.66E+02	3.44E+02	1.06	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
EZA	2nd/2022	06/16/22	E13659	Cartridge	pCi	Iodine-131	8.77E+01	8.53E+01	103	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Chromium-51	4.53E+02	4.25E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-60	2.58E+02	2.42E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Alpha	0.864	1.77	0.53-3.01	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Beta	0.639	0.649	0.325-0.974	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Alpha	0.782	0.87	0.26-1.48	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Beta	2.40	2.50	1.25-3.75	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Americium-241	56.2	72	50.4-93.6	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-134	741	890	623-1157	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-137	369	365	256-475	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-57	1450	1400	980-1620	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-60	411	443	310-576	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Iron-55	725	1100	770-1430	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Manganese-54	1140	1140	798-1482	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	766	780	546-1014	482-896	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-	Soil	Bq/Kg	Plutonium-238	54.2	56	39.2-72.8	Acceptable

	2		MaS46							
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Plutonium- 239/240	41.1	41	28.7-53.3	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Potassium-40	598	596	417-775	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Strontium-90	560	677	474-880	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Technetium-99	506	778	545-1011	Not Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Thorium 228	45.8	43	30-56	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Thorium 230	49	38	27-49	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Thorium 232	39.5	42	29-55	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	U-234/233	46	44	30.8-57.2	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Uranium-238	126	123	86-160	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaS46	Soil	Bq/Kg	Zinc-65	-0.659		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Americium-241	0.271	0.335	0.249-0.462	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Cesium-134	-0.0355		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Cesium-137	7.9	7.64	5.35-9.93	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Cobalt-57	37	36	25.2-46.8	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Cobalt-60	9.64	9.3	6.5-12.1	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Hydrogen-3	303	300	210-390	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Iron-55	27.1	26.9	18.8-35.0	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Manganese-54	19.8	18.9	13.2-24.6	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Nickel-63	31.7	34	23.8-44.2	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Plutonium-238	0.992	1.07	0.75-1.39	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Plutonium- 239/240	1.07	1.19	0.83-1.55	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Potassium-40	-875		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Radium-226	0.871	0.8	0.6-1.0	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Strontium-90	14.9	12.9	5.5-10.3	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Technetium-99	7.89	7.9	5.5-10.3	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Uranium- 234/233	1.52	1.5	1.1-2.0	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Uranium-238	1.55	1.54	1.08-2.00	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- MaW46	Water	Bq/L	Zinc-65	29.3	26.2	18.3-34.1	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	ug/smpl	Uranium-235	0.0407	0.041	0.029-0.053	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	ug/smpl	Uranium-238	5.8	5.35	3.75-6.96	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	ug/smpl	Uranium-Total	5.84	5.4	3.8-7.0	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Americium-241	0.0392	0.0439	0.307-0.0571	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Cesium-134	0.936	0.93	0.65-1.21	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Cesium-137	0.759	0.726	0.0508-0.944	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Cobalt-57	0		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Cobalt-60	0.831	0.72	0.50-0.84	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Manganese-54	0.00527		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Plutonium-238	0.0212	0.0221	0.0155- 0.0287	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Plutonium- 239/240	0.0142	0.0141	0.0099- 0.0183	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Strontium-90	0.5	0.54	0.38-0.70	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Uranium- 234/233	0.063	0.06	0.045-0.083	Acceptable

MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Uranium-238	0.0685	0.067	0.047-0.087	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdF46	Filter	Bq/smpl	Zinc-65	0.0755		False pos. test	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Americium-241	0.0892	0.101	0.071-0.131	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Cesium-134	7.04	7.61	5.33-9.89	Not Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Cesium-137	1.57	1.52	1.06-1.98	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Cobalt-57	5.06	5.09	3.56-6.62	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Cobalt-60	-0.077		2.09-3.89	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Manganese-54	2.7	2.59	1.81-3.37	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Plutonium-238	0.267	0.27	0.019-0.035	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Plutonium- 239/240	0.625	0.0594	0.0416- 0.0772	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Strontium-90	1.12	0.789	0.552-1.026	Not Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Uranium- 234/233	0.0763	0.071	0.050-0.092	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Uranium-238	0.0746	0.074	0.052-0.096	Acceptable
MAPEP	2nd/202 2	06/15/22	MAPEP-22- RdV46	veg	Bq/smpl	Zinc-65	1.53	1.47	1.03-1.91	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Actinium-228	1710	1670	1100 - 2100	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Bismuth-212	2130	1840	527 - 2740	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Bismuth-214	888	790	379 - 1180	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Cesium-137	7680	6760	5110 - 8550	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Cobalt-60	3110	2820	2220 - 3480	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Lead-212	1880	1630	1140 - 2060	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Lead-214	1090	838	352 - 1320	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Manganese-54	<24.3	<555	<555	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Plutonium-238	260	289	144 - 439	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Plutonium-239	1290	1180	643 - 1700	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Potassium-40	40500	37900	26100 - 45300	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Strontium-90	7090	6720	2090 - 10500	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Thorium-234	4900	3390	1280 - 5810	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-234	3830	3410	1600 - 4470	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-234	4120	3410	1600 - 4470	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-234	3830	3410	1600 - 4470	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-238	4080	3390	1860 - 4550	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-238	4060	3390	1860 - 4550	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6960	3860 - 9000	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-Total	8366	6960	3860 - 9000	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6960	3860 - 9000	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	µg/kg	Uranium (mass)	12300	10100	4560 - 13600	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Zinc-65	6450	5070	4050 - 6920	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Americium-241	1670	1850	1140 - 2610	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Soil	pCi/kg	Cesium-134	1900	2450	1630 - 3260	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable

	2	2								
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Cobalt-60	822	902	706 - 1180	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Curium-244	1270	1530	863 - 1900	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Manganese-54	<25.2	<207	<207	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Plutonium-238	3470	3640	2520 - 4690	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Plutonium-239	3400	3540	2450 - 4480	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Potassium-40	32400	33300	25000 - 42200	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Strontium-90	5170	4340	2450 - 5660	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Uranium-234	3750	3980	2800 - 5080	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Uranium-238	3850	3940	2780 - 4930	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Uranium-Total	7800	8110	5180 - 10900	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	µg/kg	Uranium (mass)	11500	11800	9060 - 14600	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	veg	pCi/kg	Zinc-65	564	545	407 - 808	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Americium-241	22.6	21	15.0 - 28.0	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Cesium-134	497	549	356 - 673	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Cesium-137	1320	1320	1080 - 1730	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Cobalt-60	905	885	752 - 1120	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Iron-55	110	127	46.4 - 203	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Manganese-54	<4.39	<35.0	<35.0	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Plutonium-238	27.1	29.6	22.3 - 36.4	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Plutonium-239	44.5	49.7	37.2 - 60.0	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Strontium-90	38	31.1	19.7 - 42.3	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-234	59.1	67.3	49.9 - 78.9	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-234	62.3	67.3	49.9 - 78.9	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-238	61.5	66.7	50.4 - 79.6	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-238	63.6	66.7	50.4 - 79.6	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-Total	124	137	100 - 162	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Uranium-Total	128.9	137	100 - 162	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	µg/Filter	Uranium (mass)	184	200	160 - 234	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	µg/Filter	Uranium (mass)	190	200	160 - 234	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Gross Alpha	98.4	94.2	49.2 - 155	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Filter	pCi/Filter	Gross Beta	71.5	66.8	40.5 - 101	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Americium-241	65	74.6	51.2 - 95.4	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/202 2	5/27/202 2	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable

ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cobalt-60	2880	2710	2340 - 3110	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Iron-55	1270	1140	670 - 1660	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Manganese-54	<8.37	<71.0	<71.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-238	116	147	88.4 - 190	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-239	56	71.9	44.5 - 88.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Strontium-90	639	628	452 - 776	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	41.2	44.1	33.6 - 50.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	44	44.1	33.6 - 50.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	44.7	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	43.5	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	88.9	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	89.5	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	134	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	130	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Zinc-65	1320	1220	1090 - 1540	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Gross Alpha	74.5	79.4	29.0 - 109	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Tritium	28000	28200	21300 - 34300	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Radium-226	8.15	9.46	7.09 - 11.1	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Radium-228	3.06	3.18	1.71 - 4.63	Acceptable
ERA	2nd/2022	5/23/2022	RAD -129	Water	pCi/L	Strontium-89	67.6	67.9	55.3 - 76.1	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Barium-133	40.1	38.2	30.9 - 42.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Cesium-134	84.7	88.6	72.7 - 97.5	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Cobalt-60	79	72.4	65.2 - 82.1	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Zinc-65	363	326	293 - 380	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	54.3	60.2	31.5 - 74.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Radium-226	12.1	13.1	9.77 - 15.1	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	8.05	8.4	5.38 - 10.6	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	7.91	8.4	5.38 - 10.6	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Uranium (Nat)	53.6	54	44.0 - 59.5	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	µg/L	Uranium (mass)	74.525	78.8	64.2 - 86.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Tritium	20200	22100	19400 - 24300	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	48.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	47.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	12.8	11.2	7.62 - 13.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	11.9	11.2	7.62 - 13.8	Acceptable
ERA	3rd/2022	08/29/22	RAD-130	Water	pCi/L	Iodine-131	28.9	27.7	23.0 - 32.5	Acceptable

EZA	3rd/2022	11/22/22	E13663	Cartridge	pCi	Iodine-131	7.97E+01	8.35E+01	0.95	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-89	9.54E+01	8.91E+01	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-90	8.87E+00	1.36E+01	0.65	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cerium-141	1.52E+02	1.61E+02	0.94	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-58	1.87E+02	1.89E+02	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-60	2.65E+02	2.60E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Chromium-51	4.63E+02	4.56E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-134	2.31E+02	2.52E+02	0.92	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-137	2.24E+02	2.22E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iron-59	1.91E+02	1.73E+02	1.10	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iodine-131	9.28E+01	9.42E+01	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Manganese-54	2.97E+02	2.82E+02	1.05	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Zinc-65	3.98E+02	3.73E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cerium-141	1.29E+02	1.26E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-58	1.49E+02	1.48E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-60	2.17E+02	2.04E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Chromium-51	3.84E+02	3.57E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-134	1.84E+02	1.98E+02	0.93	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-137	1.79E+02	1.74E+02	1.03	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iron-59	1.57E+02	1.36E+02	1.16	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iodine-131	8.96E+01	8.80E+01	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Manganese-54	2.30E+02	2.21E+02	1.04	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Zinc-65	3.42E+05	2.93E+02	1.17	Acceptable
EZA	4th/2022	2/15/23	E13667	Cartridge	pCi	Iodine-131	8.96E+01	9.18E+01	0.98	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-89	9.93E+01	9.04E+01	1.10	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-90	1.28E+01	1.50E+01	0.86	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cerium-141	2.32E+02	2.25E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-58	2.35E+02	2.30E+02	1.02	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-60	2.85E+02	2.90E+02	0.98	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Chromium-51	4.62E+02	4.64E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cesium-134	1.76E+02	1.91E+02	0.92	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cesium-137	2.16E+02	2.19E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iron-59	2.31E+02	1.98E+02	1.17	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iodine-131	1.02E+02	9.51E+01	1.07	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Manganese-54	2.64E+02	2.52E+02	1.05	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Zinc-65	3.50E+02	3.05E+02	1.15	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cerium-141	2.33E+02	2.24E+02	1.04	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-58	2.54E+02	2.29E+02	1.07	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-60	2.97E+02	2.89E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Chromium-51	5.24E+02	4.62E+02	1.13	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-134	1.71E+02	1.91E+02	0.90	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-137	2.17E+02	2.18E+02	1.00	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iron-59	2.32E+02	1.97E+02	1.18	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iodine-131	9.96E+01	9.63E+01	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Manganese-54	2.72E+02	2.51E+02	1.08	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Zinc-65	3.36E+02	3.04E+02	1.11	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Alpha	0.378	0.90	0.27-1.53	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Beta	1.25	1.31	0.66-1.97	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Alpha	0.978	0.871	0.261-1.481	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Beta	4.57	5.20	2.60-7.80	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Americium-241	96.8	99.2	69.4-129.0	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-134	564	627	439-815	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-137	0.284		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-57	856	786	550-1022	Acceptable

MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-60	0.429		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Iron-55	628	740	518-962	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Manganese-54	888	841	589-1093	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Nickel-63	20.0		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-238	0.285	0.56	Sens. Evaluation	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-239/240	110	113	79-147	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-241	22.7	26.8	Sens. Evaluation	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Potassium-40	561	537	376-698	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Strontium-90	842	852	596-1108	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-228	55	49	34-64	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-230	49.6	43	30-56	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-232	51	47	33-61	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Technetium-99	979	1000	700-1300	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	U-234/233	88.9	50.8	35.6-66.0	Not Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Uranium-238	196	157	110-204	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Zinc-65	1240	1140	798-1482	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Americium-241	0.414	0.327	0.229-0.425	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-134	15.9	17.1	12.0-22.2	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-137	17.80	16.8	11.8-21.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-57	30.4	30.0	21.0-39.0	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-60	17.8	17.0	11.9-22.1	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Hydrogen-3	350	395	277-514	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Iron-55	22.9	27.8	19.5-36.1	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Manganese-54	-0.0317		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Nickel-63	35.7	32.9	23.0-42.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-238	0.881	0.985	0.690-1.281	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-239/240	0.943	1.070	0.749-1.391	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Potassium-40	-0.850		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Radium-226	0.471	0.511	0.358-0.664	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Strontium-90	7.49	7.73	5.41-10.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Technetium-99	-0.206		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-234/233	1.3100	1.3400	0.96-1.78	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-238	0.851	0.84	0.59-1.09	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Zinc-65	12.6	11.3	7.9-14.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-235	0.0803	0.0743	0.550-0.0966	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-238	11.6	10.4	7.3-13.5	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-Total	11.680	10.5	7.4-13.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Americium-241	0.0953	0.0899	0.0629-0.1169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-134	0.0435		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-137	1.66	1.530	1.07-1.99	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cobalt-57	3.32	3.32	2.32-4.32	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-	Filter	Bq/sample	Cobalt-60	2.00	1.99	1.39-2.59	Acceptable

			RdF47		e					
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Manganese-54	1.97	1.88	1.32-2.44	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-238	0.1110	0.1160	0.081-0.151	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-239/240	0.0854	0.0936	0.0655-0.1217	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Strontium-90	1.580	1.820	1.13-2.11	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-234/233	0.132	0.125	0.088-0.163	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-238	0.14	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Zinc-65	1.77	1.58	1.11-2.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Americium-241	0.1890	0.1890	0.132-0.246	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-134	-0.002		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-137	1.18	1.083	0.758-1.408	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-57	0.0163		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-60	4.84	4.62	3.23-6.01	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Manganese-54	2.42	2.43	1.70-3.16	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-238	0.1490	0.156	0.109-0.203	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-239/240	0.14900	1.162	0.113-0.211	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Strontium-90	1.78	1.60	1.12-208	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-234/233	0.1330	0.1280	0.088-0.164	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-238	0.135	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Zinc-65	8.21	7.49	5.24-9.74	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Actinium-228	1550	1670	1100 - 2100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Americium-241	187	147	79.4 - 208	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-212	1460	1670	478 - 2490	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-134	8710	9600	6560 - 11500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-137	8080	7890	5970 - 9980	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cobalt-60	1490	1500	1180 - 1850	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-212	1820	1630	1140 - 2060	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-214	735	838	352 - 1320	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Manganese-54	<32.1	<555	<555	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-238	1100	1100	549 - 1670	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-239	948	967	527 - 1390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Potassium-40	41300	43100	29700 - 51500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Strontium-90	5310	6270	1950 - 9770	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Thorium-234	3920	3320	1250 - 5690	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3410	3350	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3640	3350	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-238	3880	3320	1820 - 4460	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-Total	7520	6830	3790 - 8830	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	µg/kg	Uranium (mass)	11600	9960	4490 - 13400	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Zinc-65	4300	3990	3190 - 5440	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Americium-241	3650	3560	2200 - 5030	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-134	1820	1860	1230 - 2480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-137	2560	2300	1770 - 3100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cobalt-60	528	496	389 - 848	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Curium-244	957	1100	620 - 1370	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Manganese-54	<27.4	<207	<207	Acceptable

ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-238	1320	1300	900 - 1680	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-239	1190	1170	809 - 1480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Strontium-90	4560	2960	1670 - 3860	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-234	1090	1090	766 - 1390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-238	1100	1080	763 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-Total	2230	2220	1420 - 2990	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	µg/kg	Uranium (mass)	3300	3240	2490 - 4010	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Zinc-65	665	512	382 - 759	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Americium-241	41.2	38.8	27.7 - 51.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-134	286	325	211 - 399	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-137	739	795	653 - 1040	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cobalt-60	203	191	162 - 243	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Iron-55	107	122	44.5 - 195	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Manganese-54	<2.38	<35.0	<35.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-238	29.9	29.9	22.6 - 36.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-239	12.1	13	9.73 - 15.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Strontium-90	130	133	84.1 - 181	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	68.1	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	69.9	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	70.1	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	72.3	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	141	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	142.2	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	210	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	216	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Zinc-65	133	120	98.4 - 183	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Alpha	57.8	55.5	29.0 - 91.4	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Beta	68.2	64.8	39.3 - 97.9	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Americium-241	100	96.2	66.0 - 123	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-134	452	483	365 - 531	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-137	1220	1250	1070 - 1420	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cobalt-60	1500	1420	1220 - 1630	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Iron-55	867	926	544 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Manganese-54	<5.46	<71.0	<71.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-238	44.5	52.6	31.6 - 68.2	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-239	94.4	117	72.5 - 144	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Strontium-90	283	224	161 - 277	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	140	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	145	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	147	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	156	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	296	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	301	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	442	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	468	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Zinc-65	145	122	109 - 154	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Alpha	46.6	42.7	15.6 - 58.9	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Beta	93.6	111	55.5 - 153	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Tritium	16900	18800	14200 - 22900	Acceptable

TABLE 2
2022 ECKERT & ZIEGLER ANALYTICS PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
EZA	1st/2022	05/20/22	E13655	Cartridge	pCi	Iodine-131	8.98E+01	8.72E+01	1.03	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-89	9.30E+01	9.68E+01	0.96	Acceptable
EZA	1st/2022	05/20/22	E13656	Milk	pCi/L	Strontium-90	8.41E+00	1.26E+01	0.67	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cerium-141	8.31E+01	8.46E+01	1.29	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-58	1.66E+02	1.64E+02	1.04	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cobalt-60	2.96E+02	3.02E+02	0.98	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Chromium-51	3.92E+02	3.39E+02	1.16	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-134	1.68E+02	1.82E+02	0.92	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Cesium-137	2.41E+02	2.23E+02	1.08	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Manganese-54	1.78E+02	1.64E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iron-59	1.91E+02	1.85E+02	1.03	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Iodine-131	1.19E+02	9.67E+01	1.23	Acceptable
EZA	1st/2022	05/20/22	E13657	Milk	pCi/L	Zinc-65	2.62E+02	2.46E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cerium-141	7.12E+01	7.61E+01	0.94	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-58	2.05E+02	1.93E+02	1.06	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cobalt-60	3.79E+02	3.55E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-134	2.00E+02	2.14E+02	0.93	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Cesium-137	2.65E+02	2.63E+02	1.01	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iodine-131	9.35E+01	8.76E+01	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Iron-59	2.39E+02	2.18E+02	1.10	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Manganese-54	2.07E+02	1.93E+02	1.07	Acceptable
EZA	1st/2022	05/20/22	E13658	Water	pCi/L	Zinc-65	3.25E+02	2.90E+02	1.12	Acceptable
EZA	2nd/2022	06/16/22	E13659	Cartridge	pCi	Iodine-131	8.77E+01	8.53E+01	1.03	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	06/16/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Chromium-51	4.53E+02	4.25E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.02	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13661	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cobalt-60	2.58E+02	2.42E+02	1.07	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable

EZA	2nd/2022	06/16/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13659	Cartridge	pCi	Iodine-131	8.77E+01	8.53E+01	1.03	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-89	6.76E+01	8.72E+01	0.78	Acceptable
EZA	2nd/2022	08/24/22	E13660	Milk	pCi/L	Strontium-90	1.07E+01	1.45E+01	0.74	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cerium-141	1.68E+02	1.71E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-58	1.51E+02	1.59E+02	0.95	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cobalt-60	3.04E+02	2.99E+02	1.02	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Chromium-51	4.53E+02	4.25E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-134	1.92E+02	2.12E+02	0.91	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Cesium-137	2.51E+02	2.52E+02	1.00	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iron-59	2.29E+02	1.94E+02	1.18	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Iodine-131	8.45E+01	9.05E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Manganese-54	2.95E+02	2.83E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13361	Milk	pCi/L	Zinc-65	3.90E+02	3.66E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cerium-141	1.54E+02	1.39E+02	1.11	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-58	1.38E+02	1.28E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cobalt-60	2.58E+02	2.42E+02	1.07	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Chromium-51	3.66E+02	3.44E+02	1.06	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-134	1.68E+02	1.72E+02	0.98	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Cesium-137	2.12E+02	2.04E+02	1.04	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iron-59	1.71E+02	1.57E+02	1.09	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Iodine-131	8.47E+01	9.12E+01	0.93	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Manganese-54	2.57E+02	2.29E+02	1.12	Acceptable
EZA	2nd/2022	08/24/22	E13662	Water	pCi/L	Zinc-65	3.09E+02	2.96E+02	1.04	Acceptable
EZA	3rd/2022	11/22/22	E13663	Cartridge	pCi	Iodine-131	7.97E+01	8.35E+01	0.95	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-89	9.54E+01	8.91E+01	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13664	Milk	pCi/L	Strontium-90	8.87E+00	1.36E+01	0.65	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cerium-141	1.52E+02	1.61E+02	0.94	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-58	1.87E+02	1.89E+02	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cobalt-60	2.65E+02	2.60E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Chromium-51	4.63E+02	4.56E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-134	2.31E+02	2.52E+02	0.92	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Cesium-137	2.24E+02	2.22E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iron-59	1.91E+02	1.73E+02	1.10	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Iodine-131	9.28E+01	9.42E+01	0.99	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Manganese-54	2.97E+02	2.82E+02	1.05	Acceptable
EZA	3rd/2022	11/22/22	E13665	Milk	pCi/L	Zinc-65	3.98E+02	3.73E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cerium-141	1.29E+02	1.26E+02	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-58	1.49E+02	1.48E+02	1.01	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cobalt-60	2.17E+02	2.04E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Chromium-51	3.84E+02	3.57E+02	1.07	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-134	1.84E+02	1.98E+02	0.93	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Cesium-137	1.79E+02	1.74E+02	1.03	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iron-59	1.57E+02	1.36E+02	1.16	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Iodine-131	8.96E+01	8.80E+01	1.02	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Manganese-54	2.30E+02	2.21E+02	1.04	Acceptable
EZA	3rd/2022	11/22/22	E13666	Water	pCi/L	Zinc-65	3.42E+02	2.93E+02	1.17	Acceptable
EZA	4th/2022	2/15/23	E13667	Cartridge	pCi	Iodine-131	8.96E+01	9.18E+01	0.98	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-89	9.93E+01	9.04E+01	1.10	Acceptable
EZA	4th/2022	2/15/23	E13668	Milk	pCi/L	Strontium-90	1.28E+01	1.50E+01	0.86	Acceptable

EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cerium-141	2.32E+02	2.25E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-58	2.35E+02	2.30E+02	1.02	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cobalt-60	2.85E+02	2.90E+02	0.98	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Chromium-51	4.62E+02	4.64E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cesium-134	1.76E+02	1.91E+02	0.92	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Cesium-137	2.16E+02	2.19E+02	0.99	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iron-59	2.31E+02	1.98E+02	1.17	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Iodine-131	1.02E+02	9.51E+01	1.07	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Manganese-54	2.64E+02	2.52E+02	1.05	Acceptable
EZA	4th/2022	2/15/23	E13669	Milk	pCi/L	Zinc-65	3.50E+02	3.05E+02	1.15	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cerium-141	2.33E+02	2.24E+02	1.04	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-58	2.54E+02	2.29E+02	1.07	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cobalt-60	2.97E+02	2.89E+02	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Chromium-51	5.24E+02	4.62E+02	1.13	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-134	1.71E+02	1.91E+02	0.90	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Cesium-137	2.17E+02	2.18E+02	1.00	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iron-59	2.32E+02	1.97E+02	1.18	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Iodine-131	9.96E+01	9.63E+01	1.03	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Manganese-54	2.72E+02	2.51E+02	1.08	Acceptable
EZA	4th/2022	2/15/23	E13670	Water	pCi/L	Zinc-65	3.36E+02	3.04E+02	1.11	Acceptable

TABLE 3
2022 DEPARTMENT OF ENERGY MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM
(MAPEP) RESULTS

PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Alpha	0.864	1.77	0.53-3.01	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrF46	Filter	Bq/smpl	Gross Beta	0.639	0.649	0.325-0.974	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Alpha	0.782	0.87	0.26-1.48	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-GrW46	Water	Bq/L	Gross Beta	2.40	2.50	1.25-3.75	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Americium-241	56.2	72	50.4-93.6	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-134	741	890	623-1157	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cesium-137	369	365	256-475	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-57	1450	1400	980-1820	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Cobalt-60	411	443	310-576	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Iron-55	725	1100	770-1430	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Manganese-54	1140	1140	798-1482	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	766	780	546-1014	482-896	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Plutonium-238	54.2	56	39.2-72.8	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Plutonium-239/240	41.1	41	28.7-53.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Potassium-40	598	596	417-775	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Strontium-90	560	677	474-880	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Technetium-99	506	778	545-1011	Not Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 228	45.8	43	30-56	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 230	49	38	27-49	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Thorium 232	39.5	42	29-55	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	U-234/233	46	44	30.8-57.2	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Uranium-238	126	123	86-160	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaS46	Soil	Bq/Kg	Zinc-65	-0.659		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Americium-241	0.271	0.335	0.249-0.462	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cesium-134	-0.0355		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cesium-137	7.9	7.64	5.35-9.93	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cobalt-57	37	36	25.2-46.8	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Cobalt-60	9.64	9.3	6.5-12.1	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Hydrogen-3	303	300	210-390	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Iron-55	27.1	26.9	18.8-35.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Manganese-54	19.8	18.9	13.2-24.6	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Nickel-63	31.7	34	23.8-44.2	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Plutonium-238	0.992	1.07	0.75-1.39	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Plutonium-239/240	1.07	1.19	0.83-1.55	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Potassium-40	-875		False pos. test	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Radium-226	0.871	0.8	0.6-1.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Strontium-90	14.9	12.9	5.5-10.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Technetium-99	7.89	7.9	5.5-10.3	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Uranium-234/233	1.52	1.5	1.1-2.0	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Uranium-238	1.55	1.54	1.08-2.00	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-MaW46	Water	Bq/L	Zinc-65	29.3	26.2	18.3-34.1	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-235	0.0407	0.041	0.029-0.053	Acceptable
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-238	5.8	5.35	3.75-6.96	Acceptable

MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	ug/smpl	Uranium-Total	5.84	5.4	3.8-7.0	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Americium-241	0.0392	0.0439	0.307-0.0571	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cesium-134	0.936	0.93	0.65-1.21	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cesium-137	0.759	0.726	0.0508-0.944	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cobalt-67	0		False pos. test	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Cobalt-60	0.831	0.72	0.50-0.84	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Manganese-54	0.00527		False pos. test 0.0155- 0.0287	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Plutonium-238	0.0212	0.0221	0.0099- 0.0183	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Plutonium-239/240	0.0142	0.0141	0.38-0.70	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Strontium-90	0.5	0.54	0.045-0.083	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Uranium-234/233	0.063	0.06	0.047-0.087	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Uranium-238	0.0685	0.067	False pos. test	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdF46	Filter	Bq/smpl	Zinc-65	0.0755		0.071-0.131	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Americium-241	0.0892	0.101	5.33-9.89	Not Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cesium-134	7.04	7.61	1.06-1.98	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cesium-137	1.57	1.52	3.56-6.62	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cobalt-57	5.06	5.09	2.09-3.89	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Cobalt-60	-0.077		1.81-3.37	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Manganese-54	2.7	2.59	0.019-0.035	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Plutonium-238	0.267	0.27	0.0416- 0.0772	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Plutonium-239/240	0.625	0.0594	0.552-1.026	Not Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Strontium-90	1.12	0.789	0.050-0.092	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Uranium-234/233	0.0763	0.071	0.052-0.096	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Uranium-238	0.0746	0.074	1.03-1.91	Acceptable		
MAPEP	2nd/2022	06/15/22	MAPEP-22-RdV46	veg	Bq/smpl	Zinc-65	1.53	1.47	0.27-1.53	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Alpha	0.378	0.90	0.66-1.97	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-GrF47	Filter	Bq/sample	Gross Beta	1.25	1.31	0.261-1.481	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Alpha	0.978	0.871	4.57	5.20	2.80-7.80	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-GrW47	Water	Bq/L	Gross Beta	4.57	5.20	69.4-129.0	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Americium-241	96.8	99.2	439-815	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-134	584	627	False Pos Test	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cesium-137	0.284		550-1022	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-57	856	786	False Pos Test	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Cobalt-60	0.429		518-962	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Iron-55	628	740	589-1093	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Manganese-54	888	841	False Pos Test	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Nickel-63	20.0		Sens. Evaluation	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-238	0.285	0.56	79-147	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-239/240	110	113	Sens. Evaluation	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Plutonium-241	22.7	26.8	376-698	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Potassium-40	561	537	596-1108	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Strontium-90	842	852	34-64	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-228	55	49	30-56	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-230	49.6	43	33-61	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Thorium-232	51	47	700-1300	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Technetium-99	979	1000	35.6-66.0	Not Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	U-234/233	88.9	50.8	110-204	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Uranium-238	196	157	798-1482	Acceptable		
MAPEP	4th/2022	12/15/22	MAPEP-22-MaS47	Soil	Bq/Kg	Zinc-85	1240	1140		Acceptable		

MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Americium-241	0.414	0.327	0.229-0.425	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-134	15.9	17.1	12.0-22.2	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cesium-137	17.80	16.8	11.8-21.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-57	30.4	30.0	21.0-39.0	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Cobalt-60	17.8	17.0	11.9-22.1	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Hydrogen-3	350	395	277-514	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Iron-55	22.9	27.8	19.5-36.1	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Manganese-54	-0.0317		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Nickel-63	35.7	32.9	23.0-42.8	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-238	0.881	0.985	0.690-1.281	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Plutonium-239/240	0.943	1.070	0.749-1.391	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Potassium-40	-0.850		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Radium-226	0.471	0.511	0.358-0.664	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Strontium-90	7.49	7.73	5.41-10.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Technetium-99	-0.206		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-234/233	1.3100	1.3400	0.96-1.78	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Uranium-238	0.851	0.84	0.59-1.09	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-MaW47	Water	Bq/L	Zinc-65	12.6	11.3	7.9-14.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-235	0.0803	0.0743	0.0550-0.0966	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-238	11.6	10.4	7.3-13.5	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	ug/sample	Uranium-Total	11.680	10.5	7.4-13.7	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Americium-241	0.0953	0.0899	0.0629-0.1169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-134	0.0435		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cesium-137	1.66	1.530	1.07-1.99	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cobalt-57	3.32	3.32	2.32-4.32	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Cobalt-60	2.00	1.99	1.39-2.59	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Manganese-54	1.97	1.88	1.32-2.44	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-238	0.1110	0.1160	0.081-0.151	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Plutonium-239/240	0.0854	0.0936	0.0655-0.1217	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Strontium-90	1.580	1.620	1.13-2.11	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-234/233	0.132	0.125	0.088-0.163	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Uranium-238	0.14	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdF47	Filter	Bq/sample	Zinc-65	1.77	1.58	1.11-2.05	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Americium-241	0.1890	0.1890	0.132-0.246	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-134	-0.002		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cesium-137	1.18	1.083	0.758-1.408	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-57	0.0163		False Pos Test	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Cobalt-60	4.84	4.62	3.23-6.01	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Manganese-54	2.42	2.43	1.70-3.16	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-238	0.1490	0.156	0.109-0.203	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Plutonium-239/240	0.14900	1.162	0.113-0.211	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Strontium-90	1.78	1.60	1.12-2.08	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-234/233	0.1330	0.1260	0.088-0.164	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Uranium-238	0.135	0.130	0.091-0.169	Acceptable
MAPEP	4th/2022	12/15/22	MAPEP-22-RdV47	Vegetation	Bq/sample	Zinc-65	8.21	7.49	5.24-9.74	Acceptable

TABLE 4
2022 ERA PROGRAM PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
ERA	2nd/2022	5/23/2022	RAD-129	Water	pCi/L	Radium-226	8.15	9.46	7.09 - 11.1	Acceptable
ERA	2nd/2022	5/23/2022	RAD-129	Water	pCi/L	Radium-228	3.06	3.18	1.71 - 4.63	Acceptable
ERA	2nd/2022	5/23/2022	RAD-129	Water	pCi/L	Strontium-89	67.6	67.9	55.3 - 76.1	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Barium-133	40.1	38.2	30.9 - 42.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-134	84.7	88.6	72.7 - 97.5	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cesium-137	177	170	153 - 189	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Cobalt-60	79	72.4	65.2 - 82.1	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Zinc-65	363	326	293 - 380	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	54.3	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Alpha	58.8	60.2	31.5 - 74.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Gross Beta	22.5	17.7	10.1 - 25.9	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-226	12.1	13.1	9.77 - 15.1	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	8.05	8.4	5.38 - 10.6	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Radium-228	7.91	8.4	5.38 - 10.6	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Uranium (Nat)	53.6	54	44.0 - 59.5	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	µg/L	Uranium (mass)	74.525	78.8	64.2 - 86.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Tritium	20200	22100	19400 - 24300	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	48.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-89	47.4	49.6	39.0 - 57.0	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	12.8	11.2	7.62 - 13.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Strontium-90	11.9	11.2	7.62 - 13.8	Acceptable
ERA	3rd /2022	08/29/22	RAD-130	Water	pCi/L	Iodine-131	28.9	27.7	23.0 - 32.5	Acceptable

TABLE 5
2022 ERA PROGRAM (MRAD) PERFORMANCE EVALUATION RESULTS

PT Provider	Quarter / Year	Report Closing / Received Date	Sample Number	Sample Media	Units	Analyte	Reported Value	Assigned Value	Acceptance Limits	Performance Evaluation
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Actinium-228	1710	1670	1100 - 2100	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Bismuth-212	2130	1840	527 - 2740	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Bismuth-214	888	790	379 - 1180	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	6470	6620	4530 - 7910	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-137	7680	6760	5110 - 8550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cobalt-60	3110	2820	2220 - 3480	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Lead-212	1880	1630	1140 - 2060	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Lead-214	1090	838	352 - 1320	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Manganese-54	<24.3	<555	<555	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Plutonium-238	260	289	144 - 439	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Plutonium-239	1290	1180	643 - 1700	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Potassium-40	40500	37900	26100 - 45300	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Strontium-90	7090	6720	2090 - 10500	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Thorium-234	4900	3390	1280 - 5810	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	3830	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	4120	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-234	3630	3410	1600 - 4470	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-238	4080	3390	1860 - 4550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-238	4060	3390	1860 - 4550	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6960	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8386	6960	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Uranium-Total	8170	6960	3860 - 9000	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	µg/kg	Uranium (mass)	12300	10100	4560 - 13600	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Zinc-65	6450	5070	4050 - 6920	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Americium-241	1670	1850	1140 - 2610	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Soil	pCi/kg	Cesium-134	1930	2450	1630 - 3260	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cesium-137	1330	1460	1120 - 1970	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Cobalt-60	822	902	708 - 1180	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Curium-244	1270	1530	863 - 1900	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Manganese-54	<25.2	<207	<207	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Plutonium-238	3470	3640	2520 - 4690	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Plutonium-239	3400	3540	2450 - 4480	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Potassium-40	32400	33300	25000 - 42200	Acceptable

ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Strontium-90	5170	4340	2450 - 5660	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-234	3750	3980	2800 - 5080	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-238	3850	3940	2780 - 4930	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Uranium-Total	7800	8110	5180 - 10900	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	µg/kg	Uranium (mass)	11500	11800	9060 - 14600	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	veg	pCi/kg	Zinc-65	564	545	407 - 808	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Americium-241	22.6	21	15.0 - 28.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cesium-134	497	549	356 - 673	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cesium-137	1320	1320	1080 - 1730	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Cobalt-60	905	885	752 - 1120	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Iron-55	110	127	46.4 - 203	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Manganese-54	<4.39	<35.0	<35.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Plutonium-238	27.1	29.8	22.3 - 36.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Plutonium-239	44.5	49.7	37.2 - 60.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Strontium-90	38	31.1	19.7 - 42.3	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-234	59.1	67.3	49.9 - 78.9	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-234	62.3	67.3	49.9 - 78.9	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-238	61.5	66.7	50.4 - 79.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-238	63.6	66.7	50.4 - 79.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-Total	124	137	100 - 162	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Uranium-Total	128.9	137	100 - 162	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	µg/Filter	Uranium (mass)	184	200	160 - 234	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	µg/Filter	Uranium (mass)	190	200	160 - 234	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Zinc-65	730	671	550 - 1030	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Gross Alpha	98.4	94.2	49.2 - 155	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Filter	pCi/Filter	Gross Beta	71.5	66.8	40.5 - 101	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Americium-241	65	74.6	51.2 - 95.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-134	1620	1720	1300 - 1890	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cesium-137	1130	1120	959 - 1270	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Cobalt-60	2880	2710	2340 - 3110	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Iron-55	1270	1140	670 - 1660	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Manganese-54	<8.37	<71.0	<71.0	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-238	116	147	88.4 - 190	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Plutonium-239	56	71.9	44.5 - 88.6	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Strontium-90	639	628	452 - 776	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	41.2	44.1	33.6 - 50.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-234	44	44.1	33.6 - 50.4	Acceptable

			36							
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	44.7	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-238	43.5	43.7	33.9 - 51.4	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	88.9	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Uranium-Total	89.5	89.8	70.0 - 102	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	134	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	µg/L	Uranium (mass)	130	131	106 - 149	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Zinc-65	1320	1220	1090 - 1540	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Gross Alpha	74.5	79.4	29.0 - 109	Acceptable
ERA	2nd/2022	5/27/2022	MRAD-36	Water	pCi/L	Tritium	28000	28200	21300 - 34300	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Actinium-228	1550	1670	1100 - 2100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Americium-241	187	147	79.4 - 208	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-212	1460	1670	478 - 2490	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Bismuth-214	592	790	379 - 1180	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-134	8710	9600	6560 - 11500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cesium-137	8080	7890	5970 - 9980	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Cobalt-60	1490	1500	1180 - 1850	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-212	1820	1630	1140 - 2060	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Lead-214	735	838	352 - 1320	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Manganese-54	<32.1	<555	<555	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-238	1100	1100	549 - 1670	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Plutonium-239	948	967	527 - 1390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Potassium-40	41300	43100	29700 - 51500	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Strontium-90	5310	6270	1950 - 9770	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Thorium-234	3920	3320	1250 - 5690	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3410	3350	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-234	3640	3350	1570 - 4390	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-238	3880	3320	1820 - 4460	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Uranium-Total	7520	6830	3790 - 8830	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	µg/kg	Uranium (mass)	11600	9960	4490 - 13400	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Soil	pCi/kg	Zinc-65	4300	3990	3190 - 5440	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Americium-241	3650	3560	2200 - 5030	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-134	1820	1860	1230 - 2480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cesium-137	2560	2300	1770 - 3100	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Cobalt-60	528	496	389 - 648	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Curium-244	957	1100	620 - 1370	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Manganese-54	<27.4	<207	<207	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-238	1320	1300	900 - 1680	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Plutonium-239	1190	1170	809 - 1480	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Strontium-90	4580	2960	1670 - 3860	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-234	1090	1090	766 - 1390	Acceptable

ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-238	1100	1080	763 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Uranium-Total	2230	2220	1420 - 2990	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	µg/kg	Uranium (mass)	3300	3240	2490 - 4010	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Vegetation	pCi/kg	Zinc-65	665	512	382 - 759	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Americium-241	41.2	38.8	27.7 - 51.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-134	286	325	211 - 399	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cesium-137	739	795	653 - 1040	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Cobalt-60	203	191	162 - 243	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Iron-55	107	122	44.5 - 195	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Manganese-54	<2.38	<35.0	<35.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-238	29.9	29.9	22.6 - 36.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Plutonium-239	12.1	13	9.73 - 15.7	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Strontium-90	130	133	84.1 - 181	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	68.1	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-234	69.9	71.5	53.0 - 83.8	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	70.1	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-238	72.3	70.9	53.5 - 84.6	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	141	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Uranium-Total	142.2	146	107 - 173	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	210	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	µg/Filter	Uranium (mass)	216	212	170 - 248	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Zinc-65	133	120	98.4 - 183	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Alpha	57.8	55.5	29.0 - 91.4	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Filter	pCi/Filter	Gross Beta	68.2	64.8	39.3 - 97.9	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Americium-241	100	96.2	66.0 - 123	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-134	452	483	365 - 531	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cesium-137	1220	1250	1070 - 1420	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Cobalt-60	1500	1420	1220 - 1630	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Iron-55	887	926	544 - 1350	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Manganese-54	<5.46	<71.0	<71.0	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-238	44.5	52.6	31.6 - 68.2	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Plutonium-239	94.4	117	72.5 - 144	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Strontium-90	283	224	161 - 277	Not Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	140	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-234	145	153	116 - 175	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	147	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-238	156	152	118 - 179	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	296	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Uranium-Total	301	312	243 - 356	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	442	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	µg/L	Uranium (mass)	468	455	369 - 516	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Zinc-65	145	122	109 - 154	Acceptable

			37							
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Alpha	46.6	42.7	15.6 - 58.9	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Gross Beta	93.6	111	55.5 - 153	Acceptable
ERA	4th/2022	11/21/22	MRAD-37	Water	pCi/L	Tritium	16900	18800	14200 - 22900	Acceptable

FIGURE 1

COBALT-60 PERFORMANCE EVALUATION RESULTS AND % BIAS

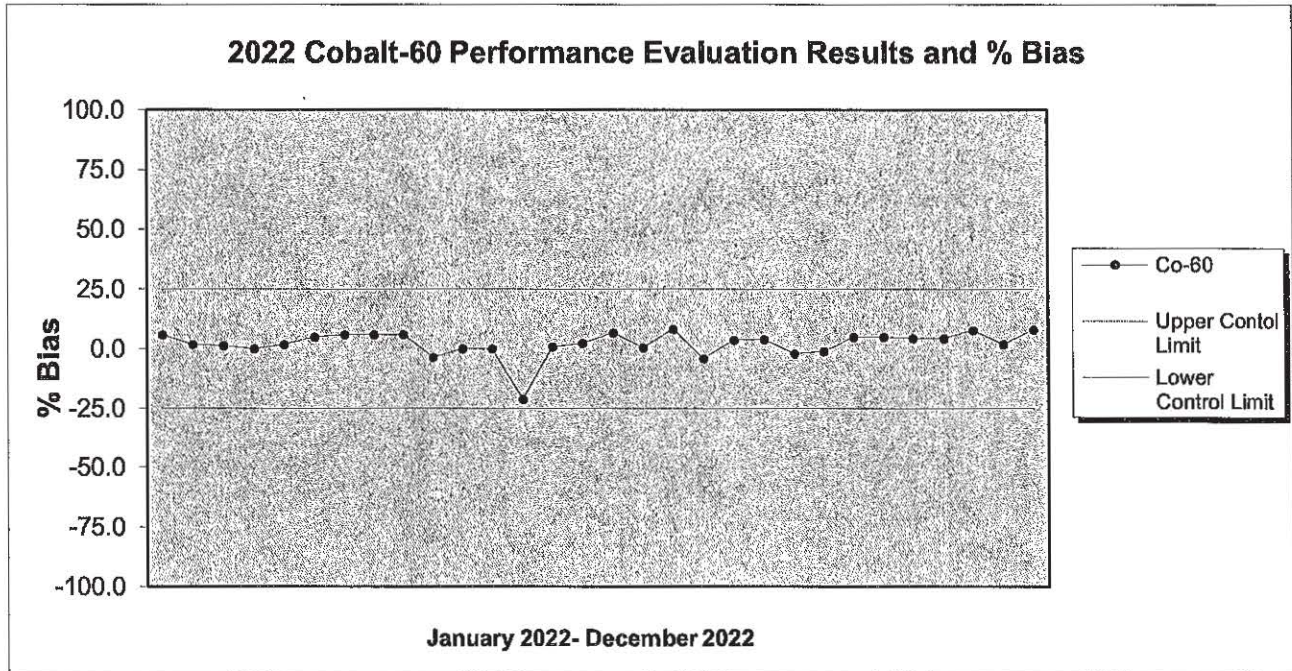


FIGURE 2

CESIUM-137 PERFORMANCE EVALUATION RESULTS AND % BIAS

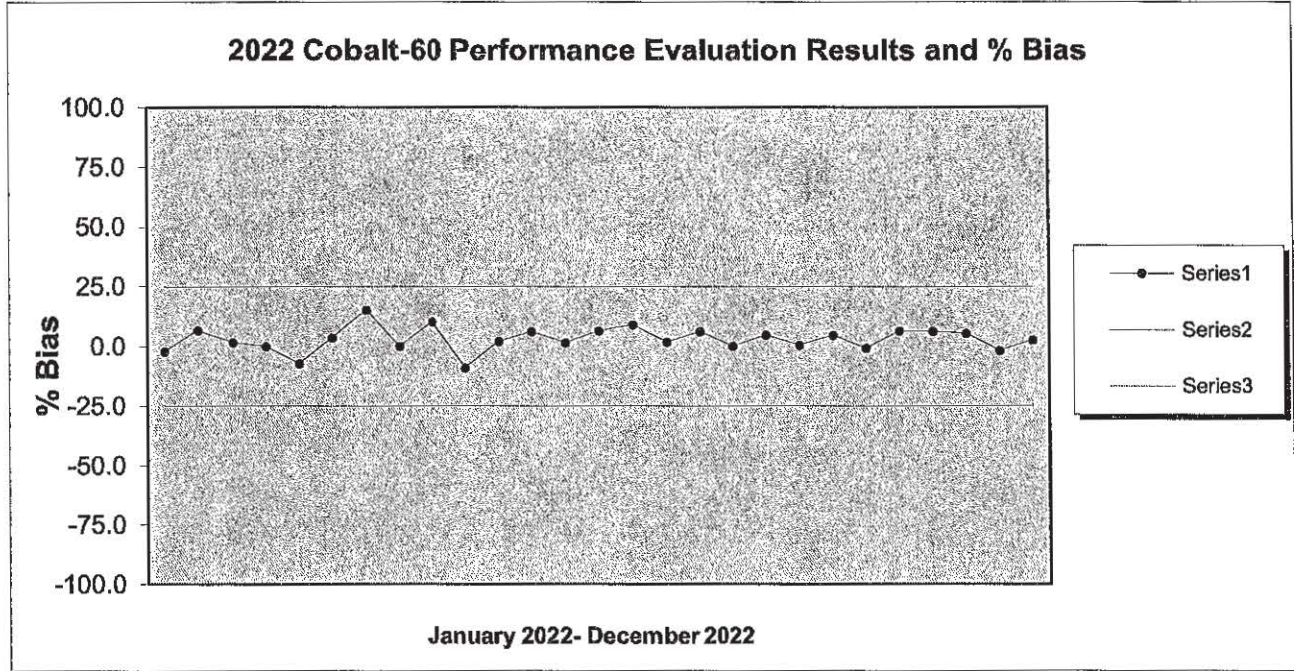


FIGURE 3

TRITIUM PERFORMANCE EVALUATION RESULTS AND % BIAS

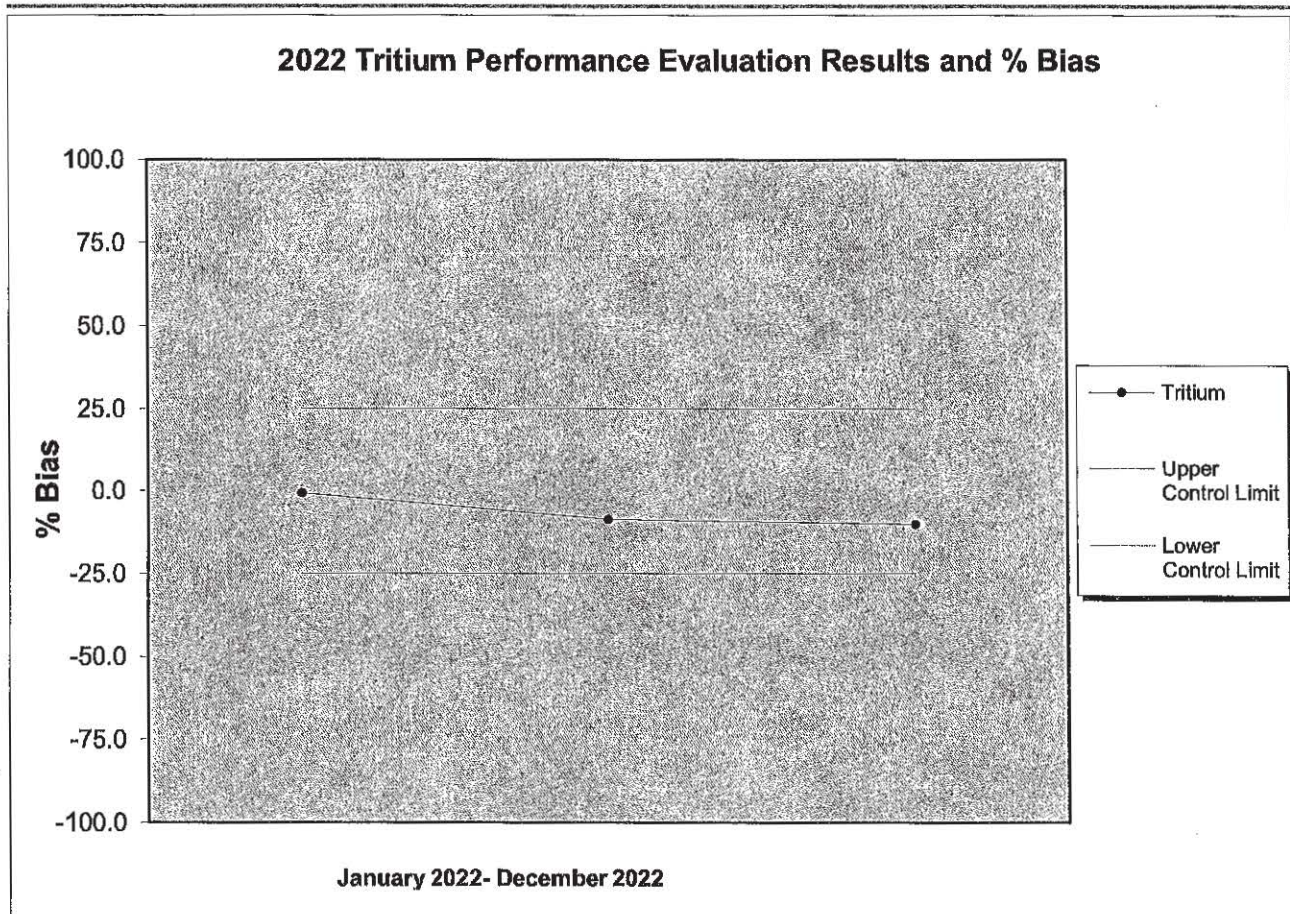


FIGURE 4

STRONTIUM-90 PERFORMANCE EVALUATION RESULTS AND % BIAS

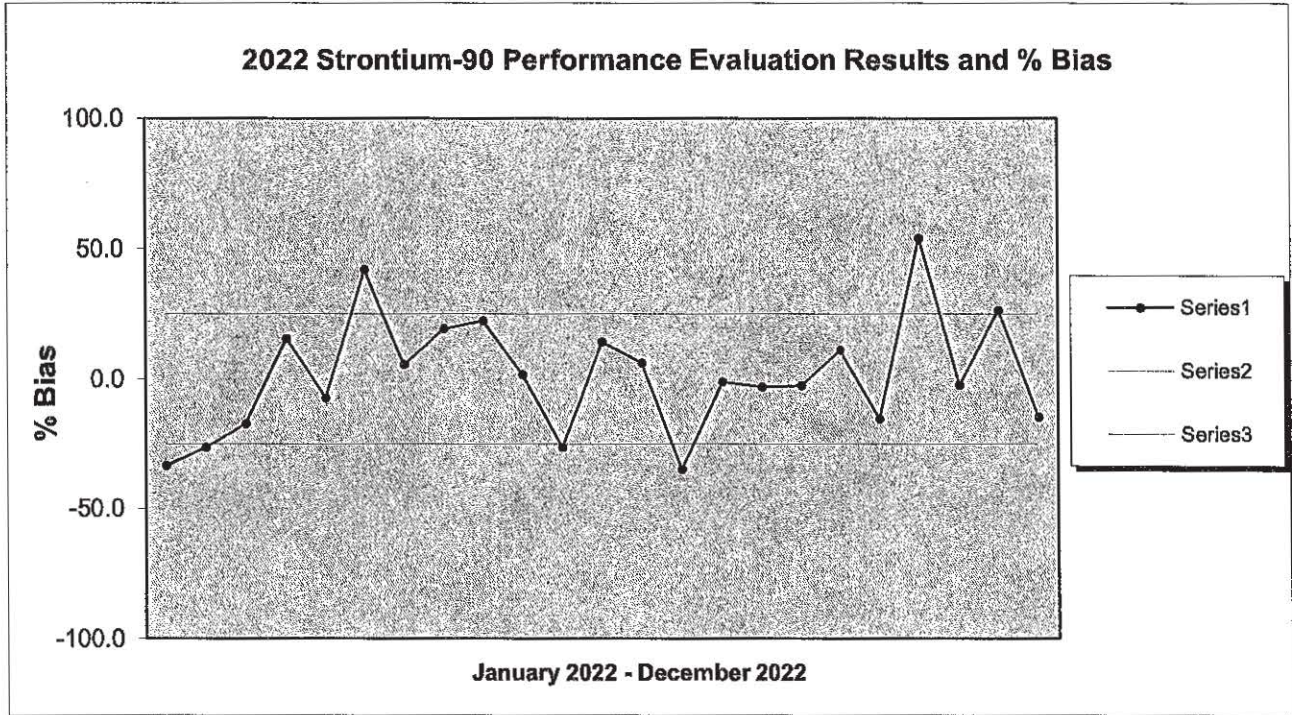


FIGURE 5

GROSS ALPHA PERFORMANCE EVALUATION RESULTS AND % BIAS

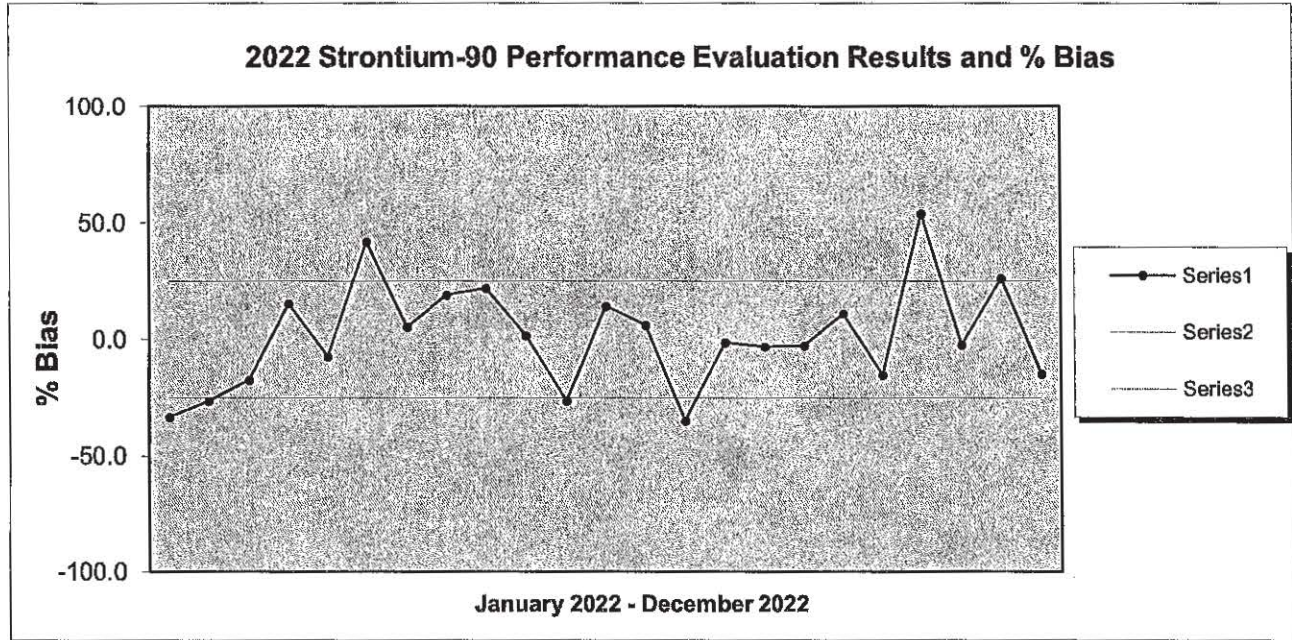


FIGURE 6

GROSS BETA PERFORMANCE EVALUATION RESULTS AND % BIAS

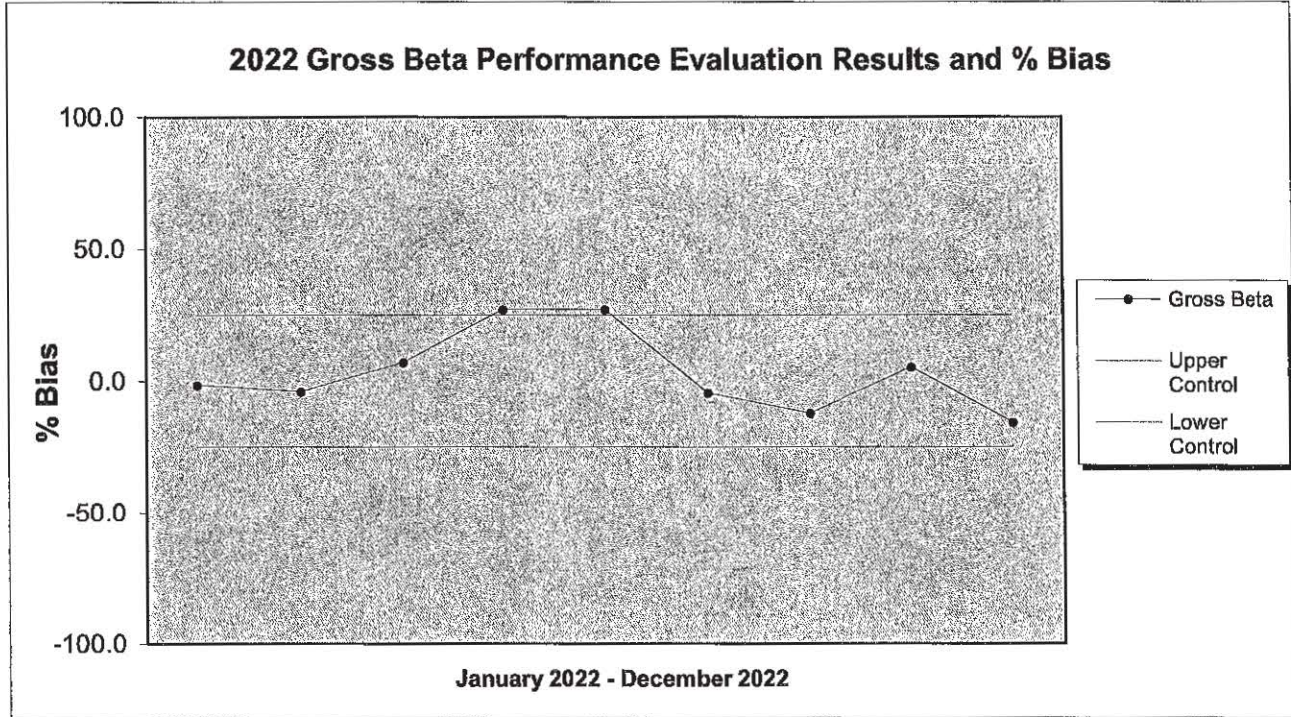


FIGURE 7

IODINE-131 PERFORMANCE EVALUATION RESULTS AND % BIAS

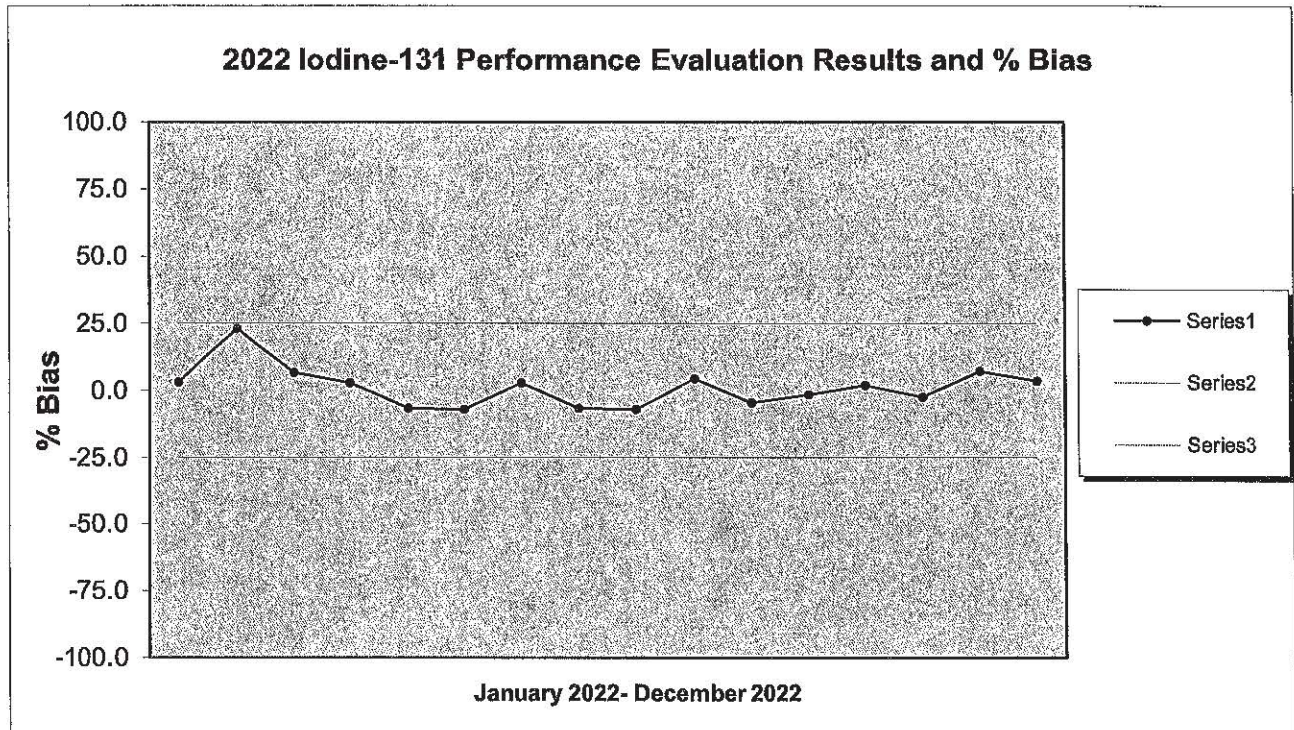


FIGURE 8

AMERICIUM-241 PERFORMANCE EVALUATION RESULTS AND % BIAS

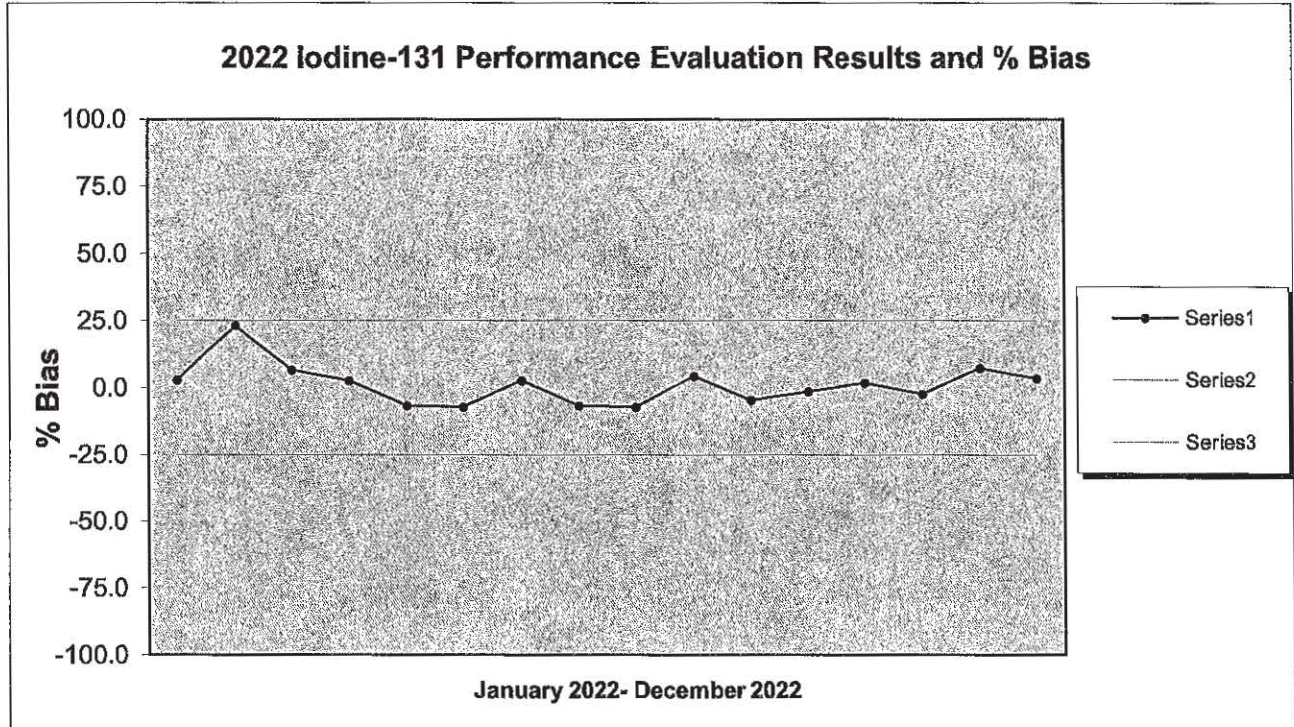


FIGURE 9

PLUTONIUM-238 PERFORMANCE EVALUATION RESULTS AND % BIAS

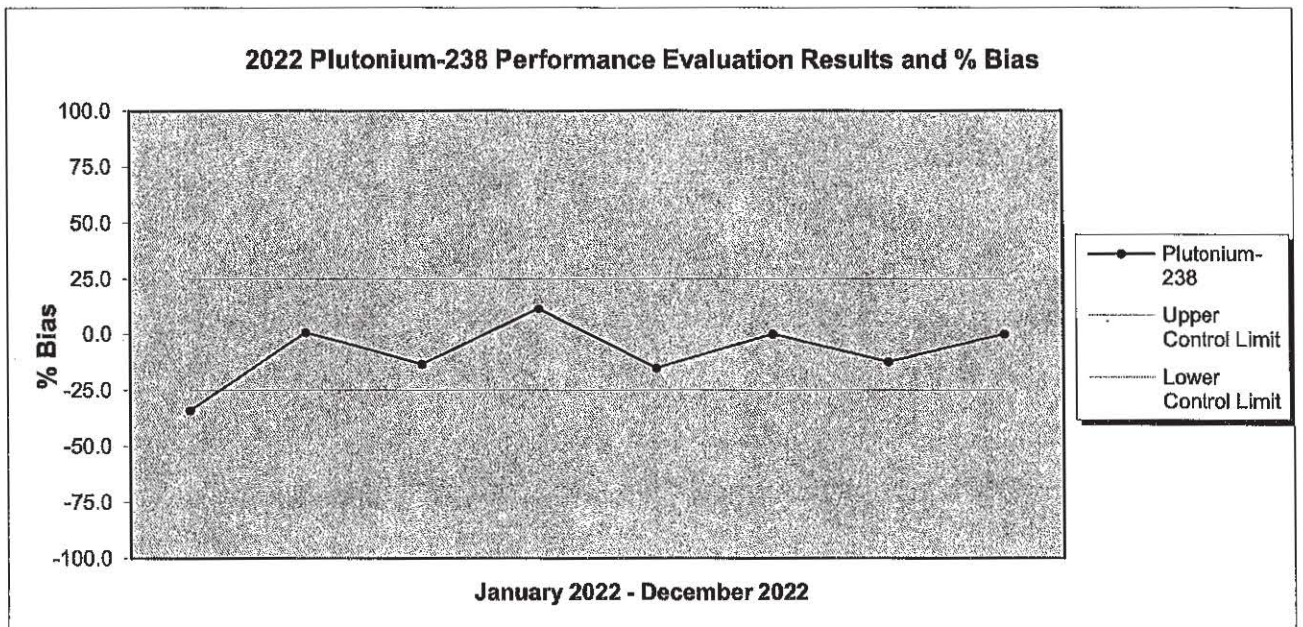


TABLE 6
REMP INTRA-LABORATORY DATA SUMMARY: BIAS AND PRECISION BY MATRIX

2022 REMP Intra Laboratory	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
DRINKING WATER				
Gross Alpha Non Vol Beta	471	0	498	0
LIQUID				
Gross Alpha Non Vol Beta	181	0	484	0
FILTER				
Gross A & B	1726	0	1415	0
AIR CHARCOAL				
Gamma Iodine 131 RAD A-013	1701	0	2570	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	155	0	155	0
SOLID				
LSC Iron-55	30	0	30	0
LSC Nickel 63	25	0	25	0
Tritium	12	0	12	0
VEGETATION				
Carbon-14	12	0	12	0
LIQUID				
Tritium	1281	0	1626	0
Gamma Spec Liquid RAD A-013 with Ba, La	434	0	939	0
MILK				
Gamma Spec Liquid RAD A-013 with Ba, La	209	0	615	0
Gamma Iodine-131	56	0	606	0
Gas Flow Sr 2nd count	209	0	257	0
LIQUID				
Iodine-131	0	0	341	0
TISSUE				
Tritium	12	0	12	0
LIQUID				
Gamma Spec Liquid RAD A-013 with Iodine	119	0	444	0
DRINKING WATER				
Iodine-131	0	0	199	0
Gamma Spec Liquid RAD A-013 with Ba, La	166	0	282	0
LIQUID				
Gas Flow Sr 2nd count	83	0	84	0

VEGETATION				
Gamma Spec Solid RAD A-013 with Iodine	327	0	467	0
SOLID				
Gas Flow Sr 2nd count	44	0	54	0
DRINKING WATER				
Gamma Spec Liquid RAD A-013 with Iodine	0	0	53	0
FILTER				
Gamma Spec Filter	188	0	395	0
LIQUID				
LSC Iron-55	74	0	89	0
DRINKING WATER				
LSC Iron-55	68	0	47	0
LIQUID				
LSC Nickel 63	69	0	90	0
DRINKING WATER				
LSC Nickel 63	68	0	47	0
Tritium	146	0	165	0
SOLID				
Gamma Spec Solid RAD A-013 with Iodine	138	0	239	0
DRINKING WATER				
Gamma Iodine-131	123	0	145	0
LIQUID				
Gas Flow Total Strontium	100	0	112	0
DRINKING WATER				
Gas Flow Total Strontium	100	0	93	0
VEGETATION				
Gamma Spec Solid RAD A-013	34	0	34	0
FILTER				
Gas Flow Sr 2nd Count	17	0	22	0
MILK				
Gas Flow Total Strontium	74	0	69	0
SOLID				
Gamma Spec Solid RAD A-013	34	8	47	0
TISSUE				
Gamma Spec Solid RAD A-013	185	0	209	0
Gamma Spec Solid RAD A-013 with Iodine	81	0	86	0
Gas Flow Total Strontium	42	0	42	0
DRINKING WATER				
Gas Flow Sr 2nd count	7	0	7	0
SOLID				
Gas Flow Total Strontium	20	0	20	0

LIQUID				
Gamma Spec Liquid RAD A-013	16	0	16	0
VEGETATION				
Gas Flow Total Strontium	27	0	27	0
Gas Flow Sr 2nd count	19	0	28	0
TISSUE				
Gas Flow Sr 2nd count	49	0	49	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

TABLE 7
ALL RADIOLOGICAL INTRA-LABORATORY DATA SUMMARY:
BIAS AND PRECISION BY MATRIX:

LIQUID				
Gas Flow Radium 228	19	0	16	0
DRINKING WATER				
Gas Flow Radium 228	364	0	387	0
Lucas Cell Radium-226	443	0	465	0
LIQUID				
Iodine-131	0	0	352	0
DRINKING WATER				
Tritium	151	0	170	0
AIR CHARCOAL				
Gamma Iodine 129	52	0	52	0
FILTER				
Gas Flow Total Strontium	5	0	12	0
LIQUID				
ICP-MS Uranium-233, 234 in Liquid	48	0	57	0
ICP-MS Uranium-235, 236, 238 Prep in Liquid	45	0	73	0
ICP-MS Uranium-235, 236, 238 in Liquid	58	0	98	0
SOLID				
Gamma Spec Solid RAD A-013 (pCi/Sample)	57	0	82	0
LIQUID				
Alpha Spec Polonium	41	0	134	0
SOLID				
Total Activity,	19	0	31	0
FILTER				
Gas Flow Lead 210	0	0	22	0
ICP-MS Uranium-234, 235, 236, 238 in Filter	32	0	160	0
LIQUID				
Gamma Iodine 131. RAD A-013	12	0	12	0
Gross Alpha/Beta	0	0	18	0
DRINKING WATER				
Gas Flow Strontium 90	68	0	47	0
VEGETATION				
Tritium	67	0	72	0
LIQUID				
Radium 226 + 228 Sum (Result and TPU only)	148	0	167	0

FILTER				
Filter Prep	16	0	60	0
VEGETATION				
Gas Flow Sr 2nd count	19	0	28	0
TISSUE				
LSC Plutonium	10	0	10	0
SOLID				
Gas Flow Strontium 90	26	0	27	0
LIQUID				
Gamma Spec Drinking Water RAD A-013	16	0	16	0
MILK				
Gas Flow Strontium 90	41	0	52	0
LIQUID				
Lucas Cell Radium 226	2344	0	3458	0
Technetium-99	4280	0	4184	0
SOLID				
LSC Plutonium	1683	0	1762	0
FILTER				
Alpha Spec U	68	0	320	0
Alpha Spec Uranium	476	0	1053	0
LIQUID				
LSC Nickel 63	620	0	923	0
FILTER				
Carbon-14	27	0	538	0
LIQUID				
Alpha Spec Uranium	3046	0	4469	0
FILTER				
Gamma Spec Filter RAD A-013	1117	0	1510	0
LIQUID				
Gas Flow Total Strontium	643	0	758	0
Gas Flow Total Alpha Radium	60	0	56	0
DRINKING WATER				
LSC Iron-55	68	0	47	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	53	0
SOLID				
ICP-MS U-234, 235, 236, 238 Prep per sample	53	0	53	0
LIQUID				
LSC Calcium 45	70	0	70	0
MILK				
Gamma Spec Liquid RAD A-013 with Ba, La	209	0	615	0
Gamma Iodine-131	56	0	606	0

FILTER				
Alpha Spec Plutonium	60	0	60	0
Gamma Spec Filter RAD A-013 Direct Count	5	0	48	0
SOLID				
Tritium	111	0	111	0
DRINKING WATER				
Gamma Spec Liquid RAD A-013	45	0	45	0
FILTER				
ICP-MS Tc-99 in Filter	0	0	29	0
DRINKING WATER				
Alpha Spec Am241 Curium	10	0	10	0
Alpha Spec Plutonium	10	0	10	0
SOLID				
LSC Calcium 45	5	0	16	0
VEGETATION				
Alpha Spec Uranium	1	0	11	0
FILTER				
Gamma I-131, filter	21	0	21	0
VEGETATION				
Gamma Spec Solid RAD A-013 (pCi/Sample)	11	0	11	0
FILTER				
Laboratory Sample composite-Filters	0	0	15	0
LIQUID				
Total Activity,	21	0	31	0
FILTER				
Carbon-14 Direct Count	0	0	10	0
TISSUE				
Gas Flow Sr 2nd count	59	0	59	0
VEGETATION				
Gas Flow Total Strontium	27	0	27	0

Note 1: The RPD must be 20 percent or less, if both samples are greater than 5 times the MDC. If both results are less than 5 times MDC, then the RPD must be equal to or less than 100%. If one result is above the MDC and the other is below the MDC, then the RPD can be calculated using the MDC for the result of the one below the MDC. The RPD must be 100% or less. In the situation where both results are above the MDC but one result is greater than 5 times the MDC and the other is less than 5 times the MDC, the RPD must be less than or equal to 20%. If both results are below MDC, then the limits on % RPD are not applicable.

TABLE 8
2022 CORRECTIVE ACTION REPORT SUMMARY

CORRECTIVE ACTION & PE FAILURE					DISPOSITION
Sample ID	Param	Reported Value	Reference Value	Acceptance Range	<p style="text-align: center;">Containment Actions, if any:</p> <p>Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non conformance system.</p>
MAPEP-22-MaS46 (Radiological)	Fe-55 Tc-99	725 Bq/kg 506 Bq/kg	1100 Bq/kg 778 Bq/kg	770-1430 Bq/kg 545-1011 Bq/kg	
MAPEP-22-RdV46	Sr-90	1.12 Bq/sample	0.789 Bq/sample	0.552-1.026 Bq/sample	
					<p>Root Cause(s):</p> <p>MAPEP-22-MaS46 (Radiological): Fe-55:</p> <p>The laboratory reviewed the data and noted that the tracer recoveries for this analysis were higher than typical soil tracer recoveries. The higher tracer recoveries possibly contributed to the low bias seen in the result.</p> <p>Tc-99:</p> <p>The laboratory reviewed both the inorganic and radiological data for contributors to the low bias. Both analyses include the addition of Hydrofluoric Acid to the 1M Hydrochloric leach process. The laboratory has concluded that since both the reported results were low, the HF leach may not have been performed long enough for the HF to effectively isolate the Technetium.</p> <p>MAPEP-22-RdV46:</p> <p>The data for the Sr-90 analysis was reviewed and no anomalies were noted. The QC in the analysis batch met acceptance criteria. The laboratory evaluated both the prep and instrument processes for possible areas of contamination that contributed to the positive bias. A definitive source was not determined.</p>

CORRECTIVE ACTION & PE FAILURE					DISPOSITION
Sample ID	Parm	Reported Value	Reference Value	Acceptance Range	Containment Actions, If any:
MAPEP-22-MaS47 (Radiological)	U-234 U-238 (W)	88.9 Bq/kg 196 Bq/kg	50.8 Bq/kg 157 Bq/kg	35.6-66.0 Bq/kg 110-204 Bq/kg	<p>Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system.</p> <p>A review of the spectral data and calculations was performed, and no errors were found. A recount of the samples was performed to see if there were any counting issues that would result in the higher bias. Recount data verified original results. A reanalysis was performed via alpha spec, utilizing an HF, HNO₃, HCL complete digestion procedure (GEL-RAD-A-011). Reanalysis results averaged between 83%-104% for U-234 and 92%-102% for U-238. Possible issues with original analysis could include: analyst errors in tracing or aliquoting, tracer low bias (a different secondary tracer was used on the reanalysis, however control charts of the original tracer indicated no bias), or possible contamination issues from the NaOH fusion method (original prep) and/or the crucibles used for the fusion. Although contamination is a probable cause, the batch blank gave no indication of a contamination issues. A review of the cleaning procedure for the crucibles was performed and no issues were identified.</p>
					Root Cause(s):

	<p>The laboratory could not definitively identify the cause of the high bias in the results for these parameters. The lab will continue to monitor the recoveries of these parameters in all methods to ensure that there are no continued issues..</p>															
<table border="1" data-bbox="175 653 1235 877"> <thead> <tr> <th>Sample ID</th> <th>Parm</th> <th>Reported Value</th> <th>Reference Value</th> <th>Acceptance Range</th> </tr> </thead> <tbody> <tr> <td>MRAD 37 Vegetation</td> <td>Strontium-90</td> <td>4560 pCi/kg</td> <td>2960 pCi/kg</td> <td>1670-3860 pCi/L</td> </tr> <tr> <td>MRAD 37 Water</td> <td>Strontium-90</td> <td>283 pCi/L</td> <td>224 pCi/L</td> <td>161-277 pCi/L</td> </tr> </tbody> </table>	Sample ID	Parm	Reported Value	Reference Value	Acceptance Range	MRAD 37 Vegetation	Strontium-90	4560 pCi/kg	2960 pCi/kg	1670-3860 pCi/L	MRAD 37 Water	Strontium-90	283 pCi/L	224 pCi/L	161-277 pCi/L	<p>Containment Actions, if any:</p> <p>Upon receipt of the PT report, an investigation was initiated by the Quality Department and a Corrective Action (CARR) team assembled. The team consisted of representatives from the affected areas. The sample preparation and analytical processes were reviewed. This included review of reagents and standards used in the sample preparation steps, calibration records, process control samples, and interviews with the analysts.</p> <p>The investigation determined that the laboratory met all quality control criteria specified in each method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system</p>
Sample ID	Parm	Reported Value	Reference Value	Acceptance Range												
MRAD 37 Vegetation	Strontium-90	4560 pCi/kg	2960 pCi/kg	1670-3860 pCi/L												
MRAD 37 Water	Strontium-90	283 pCi/L	224 pCi/L	161-277 pCi/L												
	<p>The lab will continue to monitor the recoveries of these parameters to ensure that there are no continued issues. During the analysis time period for MRAD-37, the laboratory successfully completed the analysis of Strontium-90 in these matrices in PT study MAPEP-47. In which, the samples were prepared and analyzed by the same processes and procedures</p>															

Sample Data For: "BL-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Barium-140	pCi/kg	7.47E+01	4.24E+01	1.36E+02		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Beryllium-7	pCi/kg	2.07E+03	1.59E+02	2.14E+02		
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Cesium-134	pCi/kg	1.73E+01	9.13E+00	3.21E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Cesium-137	pCi/kg	1.28E+01	8.72E+00	3.00E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Cobalt-57	pCi/kg	-3.86E+00	6.20E+00	2.08E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Cobalt-58	pCi/kg	1.77E+01	7.99E+00	2.87E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Cobalt-60	pCi/kg	9.57E+00	9.24E+00	3.29E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Iodine-131	pCi/kg	-9.21E+00	1.29E+01	4.14E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Iron-59	pCi/kg	4.94E+00	1.56E+01	5.39E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Lanthanum-140	pCi/kg	-2.09E+00	1.34E+01	4.42E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Manganese-54	pCi/kg	5.96E+00	8.35E+00	2.77E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Niobium-95	pCi/kg	-4.29E+00	8.63E+00	2.70E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Potassium-40	pCi/kg	2.65E+03	3.00E+02	2.56E+02		
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Zinc-65	pCi/kg	-1.62E+01	1.83E+01	5.07E+01		U
Broad Leaf-Grasses	1/25/2022 11:03	2/1/2022 7:53	Zirconium-95	pCi/kg	1.40E+01	1.53E+01	5.13E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Barium-140	pCi/kg	7.31E+00	3.28E+01	1.10E+02		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Beryllium-7	pCi/kg	5.21E+03	2.10E+02	2.24E+02		
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Cesium-134	pCi/kg	-5.04E+00	9.22E+00	2.91E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Cesium-137	pCi/kg	-1.15E+00	8.19E+00	2.67E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Cobalt-57	pCi/kg	-8.01E+00	5.62E+00	1.76E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Cobalt-58	pCi/kg	-2.33E+00	8.30E+00	2.65E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Cobalt-60	pCi/kg	8.17E+00	7.63E+00	2.73E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Iodine-131	pCi/kg	-1.41E+01	9.96E+00	3.26E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Iron-59	pCi/kg	-3.09E+00	1.39E+01	4.65E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Lanthanum-140	pCi/kg	6.28E-01	9.80E+00	3.25E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Manganese-54	pCi/kg	-8.05E+00	9.44E+00	2.56E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Niobium-95	pCi/kg	7.73E+00	8.58E+00	2.89E+01		U
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Potassium-40	pCi/kg	9.16E+02	1.92E+02	2.30E+02		
Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Zinc-65	pCi/kg	7.80E+00	1.52E+01	4.74E+01		U

Broad Leaf-Grasses	2/22/2022 9:14	2/25/2022 17:48	Zirconium-95	pCi/kg	-2.65E+01	1.47E+01	4.36E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Barium-140	pCi/kg	1.96E+01	3.81E+01	1.30E+02	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Beryllium-7	pCi/kg	5.68E+03	2.01E+02	2.10E+02	
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Cesium-134	pCi/kg	1.19E+01	8.75E+00	3.01E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Cesium-137	pCi/kg	3.98E+01	2.09E+01	2.43E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Cobalt-57	pCi/kg	-1.53E-01	5.43E+00	1.79E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Cobalt-58	pCi/kg	1.43E+01	9.05E+00	2.40E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Cobalt-60	pCi/kg	5.90E+00	9.98E+00	3.08E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Iodine-131	pCi/kg	1.60E+01	1.30E+01	4.58E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Iron-59	pCi/kg	-2.32E+01	1.66E+01	4.90E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Lanthanum-140	pCi/kg	1.14E+01	1.39E+01	4.83E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Manganese-54	pCi/kg	3.52E+00	8.16E+00	2.43E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Niobium-95	pCi/kg	4.11E+00	8.25E+00	2.75E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Potassium-40	pCi/kg	1.15E+03	2.93E+02	2.79E+02	
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Zinc-65	pCi/kg	-1.24E+00	1.76E+01	4.93E+01	U
Broad Leaf-Grasses	3/29/2022 10:08	4/5/2022 10:42	Zirconium-95	pCi/kg	-1.26E+01	1.41E+01	4.45E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Barium-140	pCi/kg	3.73E+01	3.53E+01	1.26E+02	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Beryllium-7	pCi/kg	8.04E+03	2.39E+02	2.09E+02	
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Cesium-134	pCi/kg	6.86E-01	8.32E+00	2.77E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Cesium-137	pCi/kg	4.32E+00	8.58E+00	2.95E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Cobalt-57	pCi/kg	-5.06E+00	5.28E+00	1.73E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Cobalt-58	pCi/kg	1.16E+01	7.10E+00	2.57E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Cobalt-60	pCi/kg	6.00E+00	6.52E+00	2.10E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Iodine-131	pCi/kg	-8.15E+00	1.38E+01	4.25E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Iron-59	pCi/kg	2.43E+01	1.46E+01	5.29E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Lanthanum-140	pCi/kg	-1.37E+01	1.04E+01	3.04E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Manganese-54	pCi/kg	-2.74E+00	7.92E+00	2.57E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Niobium-95	pCi/kg	-2.12E+00	8.76E+00	2.88E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Potassium-40	pCi/kg	2.46E+03	2.47E+02	2.09E+02	
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Zinc-65	pCi/kg	4.52E+00	1.74E+01	5.13E+01	U
Broad Leaf-Grasses	4/26/2022 9:15	5/3/2022 6:59	Zirconium-95	pCi/kg	-3.89E+00	1.32E+01	4.31E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Barium-140	pCi/kg	1.96E+01	4.69E+01	1.56E+02	U

Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Beryllium-7	pCi/kg	6.63E+03	2.35E+02	2.26E+02	
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Cesium-134	pCi/kg	-1.75E+00	9.44E+00	2.97E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Cesium-137	pCi/kg	-1.66E+01	1.12E+01	2.79E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Cobalt-57	pCi/kg	8.77E+00	6.31E+00	2.07E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Cobalt-58	pCi/kg	8.94E+00	7.72E+00	2.62E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Cobalt-60	pCi/kg	1.48E+01	9.82E+00	2.68E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Iodine-131	pCi/kg	-1.25E+00	1.75E+01	5.83E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Iron-59	pCi/kg	2.92E+00	1.64E+01	5.55E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Lanthanum-140	pCi/kg	-2.44E+00	1.33E+01	3.90E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Manganese-54	pCi/kg	-3.51E+00	8.24E+00	2.55E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Niobium-95	pCi/kg	1.47E+01	9.44E+00	2.96E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Potassium-40	pCi/kg	2.55E+03	2.71E+02	2.74E+02	
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Zinc-65	pCi/kg	9.79E+00	1.60E+01	5.54E+01	U
Broad Leaf-Grasses	5/31/2022 9:32	6/9/2022 18:49	Zirconium-95	pCi/kg	1.38E+00	1.65E+01	5.27E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Barium-140	pCi/kg	4.14E+01	5.14E+01	1.73E+02	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Beryllium-7	pCi/kg	4.19E+03	3.23E+02	3.36E+02	
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Cesium-134	pCi/kg	-1.49E+01	1.41E+01	4.22E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Cesium-137	pCi/kg	-1.03E+02	3.06E+01	7.82E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Cobalt-57	pCi/kg	4.50E+00	9.60E+00	3.33E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Cobalt-58	pCi/kg	2.25E+01	1.28E+01	4.29E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Cobalt-60	pCi/kg	1.90E+01	1.58E+01	5.08E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Iodine-131	pCi/kg	2.00E+01	1.51E+01	5.19E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Iron-59	pCi/kg	3.26E+01	2.55E+01	8.90E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Lanthanum-140	pCi/kg	-2.56E+01	1.97E+01	4.85E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Manganese-54	pCi/kg	1.81E+01	1.37E+01	4.22E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Niobium-95	pCi/kg	2.21E+00	1.25E+01	4.03E+01	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Potassium-40	pCi/kg	1.37E+03	4.57E+02	4.57E+02	
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Zinc-65	pCi/kg	4.38E+01	3.20E+01	1.04E+02	U
Broad Leaf-Grasses	7/26/2022 8:34	7/29/2022 5:24	Zirconium-95	pCi/kg	2.49E+01	2.55E+01	8.49E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Barium-140	pCi/kg	-1.87E+01	2.63E+01	8.37E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Beryllium-7	pCi/kg	6.34E+02	1.28E+02	1.41E+02	
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Cesium-134	pCi/kg	-3.21E+00	6.65E+00	2.06E+01	U

Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Cesium-137	pCi/kg	5.47E+00	6.51E+00	2.15E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Cobalt-57	pCi/kg	-1.51E+00	2.87E+00	9.16E+00	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Cobalt-58	pCi/kg	2.00E+01	9.35E+00	1.83E+01	UI
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Cobalt-60	pCi/kg	-1.21E+01	6.14E+00	1.78E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Iodine-131	pCi/kg	-8.05E+00	8.87E+00	2.58E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Iron-59	pCi/kg	1.93E+01	1.23E+01	4.35E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Lanthanum-140	pCi/kg	-1.04E+01	7.76E+00	2.20E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Manganese-54	pCi/kg	-2.85E+00	6.79E+00	2.00E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Niobium-95	pCi/kg	1.38E+01	6.26E+00	2.16E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Potassium-40	pCi/kg	4.70E+03	2.61E+02	1.72E+02	
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Zinc-65	pCi/kg	3.34E+00	1.36E+01	4.57E+01	U
Broad Leaf-Grasses	8/30/2022 8:54	9/6/2022 11:01	Zirconium-95	pCi/kg	5.77E+00	1.92E+01	3.20E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Barium-140	pCi/kg	3.21E+02	1.04E+02	1.69E+02	UI
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Beryllium-7	pCi/kg	3.22E+03	2.45E+02	3.12E+02	
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Cesium-134	pCi/kg	-1.44E+01	1.91E+01	4.17E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Cesium-137	pCi/kg	-4.13E+01	2.38E+01	5.55E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Cobalt-57	pCi/kg	2.36E+01	1.11E+01	2.68E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Cobalt-58	pCi/kg	-5.30E+00	1.24E+01	3.89E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Cobalt-60	pCi/kg	1.73E+01	1.30E+01	4.53E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Iodine-131	pCi/kg	1.57E+01	1.92E+01	6.48E+01	UDL
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Iron-59	pCi/kg	3.97E+00	2.51E+01	8.48E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Lanthanum-140	pCi/kg	7.48E+00	1.93E+01	6.02E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Manganese-54	pCi/kg	7.92E+00	1.15E+01	3.73E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Niobium-95	pCi/kg	1.51E+01	1.15E+01	3.83E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Potassium-40	pCi/kg	1.58E+04	5.11E+02	3.39E+02	UI
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Zinc-65	pCi/kg	-3.38E+01	2.56E+01	8.19E+01	U
Broad Leaf-Grasses	9/27/2022 13:28	10/5/2022 10:39	Zirconium-95	pCi/kg	-9.78E+00	2.19E+01	6.90E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Barium-140	pCi/kg	-5.10E+00	6.15E+01	1.54E+02	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Beryllium-7	pCi/kg	3.37E+03	2.34E+02	2.75E+02	
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Cesium-134	pCi/kg	7.04E+00	1.02E+01	3.44E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Cesium-137	pCi/kg	6.19E+00	1.02E+01	3.45E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Cobalt-57	pCi/kg	2.03E+00	7.11E+00	2.34E+01	U

Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Cobalt-58	pCi/kg	-9.04E+00	9.64E+00	2.93E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Cobalt-60	pCi/kg	4.39E+00	9.78E+00	3.37E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Iodine-131	pCi/kg	1.83E+01	1.54E+01	5.46E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Iron-59	pCi/kg	-7.32E-01	2.26E+01	7.64E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Lanthanum-140	pCi/kg	7.95E+00	1.58E+01	4.86E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Manganese-54	pCi/kg	-7.83E+00	9.98E+00	3.06E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Niobium-95	pCi/kg	3.22E+00	9.83E+00	3.24E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Potassium-40	pCi/kg	6.07E+03	3.72E+02	2.08E+02	
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Zinc-65	pCi/kg	1.18E+01	2.51E+01	7.74E+01	U
Broad Leaf-Grasses	10/25/2022 10:52	11/1/2022 6:54	Zirconium-95	pCi/kg	-2.55E+01	1.61E+01	4.68E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Barium-140	pCi/kg	8.65E+00	2.46E+01	8.53E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Beryllium-7	pCi/kg	2.89E+03	1.53E+02	1.45E+02	
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Cesium-134	pCi/kg	3.16E+01	8.60E+00	2.34E+01	UI
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Cesium-137	pCi/kg	1.94E+01	7.89E+00	1.55E+01	UI
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Cobalt-57	pCi/kg	7.78E+00	4.33E+00	1.53E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Cobalt-58	pCi/kg	8.68E+00	6.47E+00	2.35E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Cobalt-60	pCi/kg	7.47E+00	7.61E+00	2.66E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Iodine-131	pCi/kg	3.96E+00	8.86E+00	2.85E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Iron-59	pCi/kg	-1.91E+01	1.36E+01	3.82E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Lanthanum-140	pCi/kg	5.05E+00	7.02E+00	2.59E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Manganese-54	pCi/kg	2.30E+01	1.03E+01	2.19E+01	UI
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Niobium-95	pCi/kg	-4.47E+00	5.95E+00	1.86E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Potassium-40	pCi/kg	6.42E+02	1.45E+02	1.37E+02	
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Zinc-65	pCi/kg	-1.41E+01	1.17E+01	3.24E+01	U
Broad Leaf-Grasses	11/29/2022 10:41	12/3/2022 16:21	Zirconium-95	pCi/kg	1.81E+01	1.16E+01	4.25E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Barium-140	pCi/kg	2.01E+01	2.72E+01	8.21E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Beryllium-7	pCi/kg	5.03E+03	1.57E+02	1.60E+02	
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Cesium-134	pCi/kg	-5.14E+00	6.87E+00	2.15E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Cesium-137	pCi/kg	2.47E+01	6.99E+00	2.48E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Cobalt-57	pCi/kg	-3.59E+00	4.82E+00	1.53E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Cobalt-58	pCi/kg	8.55E+00	5.87E+00	1.98E+01	U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Cobalt-60	pCi/kg	9.51E+00	5.96E+00	2.12E+01	U

Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Iodine-131	pCi/kg	-2.34E+00	7.60E+00	2.54E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Iron-59	pCi/kg	8.07E-01	1.15E+01	3.88E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Lanthanum-140	pCi/kg	-1.24E+01	7.42E+00	2.19E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Manganese-54	pCi/kg	1.33E+00	6.20E+00	2.00E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Niobium-95	pCi/kg	8.62E+00	6.41E+00	2.15E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Potassium-40	pCi/kg	4.21E+03	2.53E+02	2.16E+02		
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Zinc-65	pCi/kg	2.78E+01	1.44E+01	4.67E+01		U
Broad Leaf-Grasses	12/27/2022 12:44	12/30/2022 14:03	Zirconium-95	pCi/kg	1.30E+00	1.23E+01	3.53E+01		U

The data obtained from this website is the most accurate possible at the time of your query and based upon your specific inquiry. This data does not replace the Certificates of Analysis provided by GEL. Certificates of Analysis undergo an additional level of review before being sent to the client that is not possible to perform on the interactive data query provided by this site.

Notes:

1. LLDs are a-priori values.
2. MDCs are calculated a-posteriori values.
3. Gamma spectroscopy analysis results are calculated from a measurement using only one gamma energy line.
4. Air sample volumes are received in units of ft³. GEL converts the units and reports them as m³.

QUALIFIERS:

- U Target isotope was analyzed for but not detected above the MDC or LLD.
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
- M Reported result is less than the LLD and greater than the MDC.
- DL DL MDC > LLD.

Sample Data For: "BL-2"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Barium-140	pCi/kg	-3.17E+01	3.56E+01	1.12E+02		U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Beryllium-7	pCi/kg	2.15E+03	1.79E+02	2.41E+02		

Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Cesium-134	pCi/kg	6.81E+00	1.00E+01	3.39E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Cesium-137	pCi/kg	-9.44E+00	8.09E+00	2.43E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Cobalt-57	pCi/kg	3.20E+00	5.99E+00	2.00E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Cobalt-58	pCi/kg	-2.06E+00	6.75E+00	2.11E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Cobalt-60	pCi/kg	-2.13E+00	7.66E+00	2.48E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Iodine-131	pCi/kg	-6.25E+00	1.26E+01	4.20E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Iron-59	pCi/kg	-1.90E+01	1.51E+01	4.54E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Lanthanum-140	pCi/kg	-1.62E+01	1.27E+01	3.45E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Manganese-54	pCi/kg	9.54E+00	7.92E+00	2.78E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Niobium-95	pCi/kg	3.76E+00	7.81E+00	2.62E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Potassium-40	pCi/kg	1.89E+03	2.53E+02	1.99E+02	
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Zinc-65	pCi/kg	-4.42E+01	2.05E+01	5.29E+01	U
Broad Leaf-Grasses	1/25/2022 9:23	2/1/2022 7:54	Zirconium-95	pCi/kg	-8.64E+00	1.22E+01	3.71E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Barium-140	pCi/kg	-4.66E+00	2.52E+01	8.14E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Beryllium-7	pCi/kg	3.67E+03	1.74E+02	1.85E+02	
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Cesium-134	pCi/kg	5.42E+00	7.42E+00	2.60E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Cesium-137	pCi/kg	3.17E+00	6.64E+00	2.18E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Cobalt-57	pCi/kg	-3.56E+00	4.88E+00	1.57E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Cobalt-58	pCi/kg	6.98E-01	5.58E+00	1.90E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Cobalt-60	pCi/kg	4.95E+00	7.49E+00	2.54E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Iodine-131	pCi/kg	1.39E+00	8.57E+00	2.90E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Iron-59	pCi/kg	-2.47E+01	1.30E+01	3.76E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Lanthanum-140	pCi/kg	-7.14E+00	9.32E+00	2.96E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Manganese-54	pCi/kg	-8.48E+00	5.78E+00	1.80E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Niobium-95	pCi/kg	1.22E+01	6.48E+00	2.37E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Potassium-40	pCi/kg	1.63E+03	2.14E+02	2.22E+02	
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Zinc-65	pCi/kg	9.31E-02	1.47E+01	4.84E+01	U
Broad Leaf-Grasses	2/22/2022 8:03	2/25/2022 17:49	Zirconium-95	pCi/kg	1.99E+01	1.17E+01	4.04E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Barium-140	pCi/kg	-1.03E+00	4.33E+01	1.41E+02	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Beryllium-7	pCi/kg	4.26E+03	1.96E+02	2.37E+02	
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Cesium-134	pCi/kg	2.30E+01	9.80E+00	3.56E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Cesium-137	pCi/kg	-1.29E+01	9.16E+00	2.79E+01	U

Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Cobalt-57	pCi/kg	2.42E+00	6.47E+00	2.13E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Cobalt-58	pCi/kg	1.16E+01	8.83E+00	3.12E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Cobalt-60	pCi/kg	-1.57E+00	9.54E+00	3.06E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Iodine-131	pCi/kg	-6.46E+00	1.42E+01	4.71E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Iron-59	pCi/kg	6.04E-01	1.79E+01	5.91E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Lanthanum-140	pCi/kg	-1.50E+01	1.60E+01	5.13E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Manganese-54	pCi/kg	-1.11E+01	8.51E+00	2.75E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Niobium-95	pCi/kg	-7.89E+00	8.80E+00	2.91E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Potassium-40	pCi/kg	2.03E+03	2.73E+02	3.38E+02	
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Zinc-65	pCi/kg	1.03E+01	2.01E+01	6.75E+01	U
Broad Leaf-Grasses	3/29/2022 7:48	4/5/2022 10:17	Zirconium-95	pCi/kg	7.83E+00	1.66E+01	5.35E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Barium-140	pCi/kg	2.47E+00	2.63E+01	8.60E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Beryllium-7	pCi/kg	3.67E+03	1.54E+02	1.38E+02	
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Cesium-134	pCi/kg	-1.37E+01	6.14E+00	1.68E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Cesium-137	pCi/kg	1.42E+01	1.41E+01	1.62E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Cobalt-57	pCi/kg	4.53E-01	3.96E+00	1.35E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Cobalt-58	pCi/kg	4.52E+00	5.24E+00	1.77E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Cobalt-60	pCi/kg	1.42E+01	7.54E+00	2.17E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Iodine-131	pCi/kg	6.96E+00	8.80E+00	2.99E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Iron-59	pCi/kg	-1.98E+00	1.01E+01	3.38E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Lanthanum-140	pCi/kg	7.68E+00	8.73E+00	3.12E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Manganese-54	pCi/kg	-5.84E+00	5.23E+00	1.55E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Niobium-95	pCi/kg	4.41E-01	6.40E+00	1.76E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Potassium-40	pCi/kg	2.94E+03	1.85E+02	2.02E+02	
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Zinc-65	pCi/kg	-9.37E+00	1.26E+01	4.11E+01	U
Broad Leaf-Grasses	4/26/2022 8:04	5/3/2022 9:17	Zirconium-95	pCi/kg	9.77E+00	1.02E+01	3.45E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Barium-140	pCi/kg	-6.22E+00	3.12E+01	9.22E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Beryllium-7	pCi/kg	1.84E+03	1.23E+02	1.57E+02	
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Cesium-134	pCi/kg	-1.48E+00	9.10E+00	2.19E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Cesium-137	pCi/kg	8.77E+00	9.44E+00	2.39E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Cobalt-57	pCi/kg	-1.50E+00	3.43E+00	1.10E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Cobalt-58	pCi/kg	1.95E+01	8.13E+00	1.72E+01	U

Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Cobalt-60	pCi/kg	7.64E-01	6.77E+00	2.22E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Iodine-131	pCi/kg	1.38E+01	1.06E+01	3.64E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Iron-59	pCi/kg	1.84E+01	1.39E+01	4.70E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Lanthanum-140	pCi/kg	4.62E+00	1.24E+01	3.72E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Manganese-54	pCi/kg	-3.87E+00	9.29E+00	2.01E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Niobium-95	pCi/kg	3.22E+00	6.87E+00	2.03E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Potassium-40	pCi/kg	4.53E+03	2.79E+02	1.91E+02	
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Zinc-65	pCi/kg	-4.82E+00	1.68E+01	4.76E+01	U
Broad Leaf-Grasses	5/31/2022 8:01	6/9/2022 18:52	Zirconium-95	pCi/kg	3.07E+01	1.10E+01	4.05E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Barium-140	pCi/kg	-2.94E+01	4.41E+01	1.41E+02	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Beryllium-7	pCi/kg	3.19E+03	2.03E+02	2.35E+02	
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Cesium-134	pCi/kg	-1.26E+01	1.13E+01	3.39E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Cesium-137	pCi/kg	-2.36E+01	1.66E+01	3.52E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Cobalt-57	pCi/kg	-2.04E+00	6.21E+00	1.99E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Cobalt-58	pCi/kg	1.81E+01	9.57E+00	3.35E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Cobalt-60	pCi/kg	9.26E+00	1.09E+01	3.77E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Iodine-131	pCi/kg	-2.57E+00	1.48E+01	4.95E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Iron-59	pCi/kg	1.90E+01	1.97E+01	6.91E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Lanthanum-140	pCi/kg	-1.91E+01	1.58E+01	4.63E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Manganese-54	pCi/kg	-6.19E+00	9.79E+00	3.01E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Niobium-95	pCi/kg	1.64E+00	9.96E+00	3.21E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Potassium-40	pCi/kg	4.36E+03	3.67E+02	2.88E+02	
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Zinc-65	pCi/kg	3.79E+01	2.26E+01	8.15E+01	U
Broad Leaf-Grasses	7/26/2022 7:11	8/1/2022 16:53	Zirconium-95	pCi/kg	-4.95E+00	1.57E+01	4.93E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Barium-140	pCi/kg	-1.28E+01	3.32E+01	1.07E+02	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Beryllium-7	pCi/kg	8.95E+02	1.21E+02	1.88E+02	
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Cesium-134	pCi/kg	-1.18E+01	1.27E+01	2.77E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Cesium-137	pCi/kg	9.96E+00	7.97E+00	2.68E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Cobalt-57	pCi/kg	7.91E+00	3.91E+00	1.04E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Cobalt-58	pCi/kg	-6.43E+00	6.89E+00	2.25E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Cobalt-60	pCi/kg	-1.32E+00	9.18E+00	2.95E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Iodine-131	pCi/kg	-1.03E+01	1.05E+01	3.44E+01	U

Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Iron-59	pCi/kg	1.59E+01	1.61E+01	5.56E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Lanthanum-140	pCi/kg	-1.26E+01	1.27E+01	3.87E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Manganese-54	pCi/kg	5.48E+00	7.71E+00	2.67E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Niobium-95	pCi/kg	6.47E+00	7.87E+00	2.58E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Potassium-40	pCi/kg	3.87E+03	2.76E+02	2.46E+02	
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Zinc-65	pCi/kg	-1.38E+00	1.70E+01	5.57E+01	U
Broad Leaf-Grasses	8/30/2022 7:35	9/6/2022 13:20	Zirconium-95	pCi/kg	-7.22E+00	1.45E+01	4.51E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Barium-140	pCi/kg	-1.00E+02	5.07E+01	1.56E+02	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Beryllium-7	pCi/kg	2.59E+03	2.08E+02	2.81E+02	
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Cesium-134	pCi/kg	5.70E+00	1.14E+01	3.81E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Cesium-137	pCi/kg	-3.52E+00	9.83E+00	3.20E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Cobalt-57	pCi/kg	-9.57E-01	7.16E+00	2.35E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Cobalt-58	pCi/kg	1.33E+00	1.10E+01	3.61E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Cobalt-60	pCi/kg	2.42E+01	2.63E+01	4.18E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Iodine-131	pCi/kg	-2.82E+01	1.81E+01	5.92E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Iron-59	pCi/kg	2.35E+01	2.44E+01	8.21E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Lanthanum-140	pCi/kg	-4.53E+00	1.84E+01	6.01E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Manganese-54	pCi/kg	-6.06E-01	1.03E+01	3.34E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Niobium-95	pCi/kg	6.08E+00	1.06E+01	3.57E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Potassium-40	pCi/kg	3.67E+03	4.44E+02	3.84E+02	
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Zinc-65	pCi/kg	-1.70E+01	2.34E+01	7.07E+01	U
Broad Leaf-Grasses	9/27/2022 8:42	10/5/2022 10:40	Zirconium-95	pCi/kg	2.07E+00	2.01E+01	6.60E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Barium-140	pCi/kg	-5.97E+00	3.69E+01	1.17E+02	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Beryllium-7	pCi/kg	7.57E+03	2.58E+02	2.31E+02	
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Cesium-134	pCi/kg	1.36E+01	7.19E+00	2.73E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Cesium-137	pCi/kg	-1.54E+00	8.67E+00	2.72E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Cobalt-57	pCi/kg	7.74E+00	5.18E+00	1.85E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Cobalt-58	pCi/kg	-7.28E+00	7.22E+00	2.27E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Cobalt-60	pCi/kg	1.13E+00	7.92E+00	2.62E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Iodine-131	pCi/kg	-3.32E+00	1.20E+01	3.89E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Iron-59	pCi/kg	1.23E+01	1.69E+01	5.86E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Lanthanum-140	pCi/kg	-3.25E+00	1.35E+01	3.65E+01	U

Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Manganese-54	pCi/kg	6.62E+00	9.04E+00	2.66E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Niobium-95	pCi/kg	-1.42E+01	9.67E+00	2.58E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Potassium-40	pCi/kg	8.73E+02	1.73E+02	1.90E+02	
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Zinc-65	pCi/kg	-1.31E+01	1.63E+01	5.04E+01	U
Broad Leaf-Grasses	10/25/2022 12:12	11/1/2022 6:55	Zirconium-95	pCi/kg	3.77E+00	1.20E+01	4.14E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Barium-140	pCi/kg	2.29E+01	1.75E+01	6.40E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Beryllium-7	pCi/kg	3.67E+03	1.55E+02	1.17E+02	
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Cesium-134	pCi/kg	4.94E+00	4.95E+00	1.76E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Cesium-137	pCi/kg	3.05E+00	5.23E+00	1.79E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Cobalt-57	pCi/kg	-4.40E+00	3.24E+00	9.68E+00	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Cobalt-58	pCi/kg	-5.40E+00	5.06E+00	1.48E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Cobalt-60	pCi/kg	-3.83E+00	5.19E+00	1.61E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Iodine-131	pCi/kg	7.00E+00	6.25E+00	2.24E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Iron-59	pCi/kg	-1.19E+01	9.77E+00	2.65E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Lanthanum-140	pCi/kg	7.76E+00	5.11E+00	2.09E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Manganese-54	pCi/kg	-4.60E+00	4.63E+00	1.35E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Niobium-95	pCi/kg	3.15E+00	3.99E+00	1.40E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Potassium-40	pCi/kg	5.46E+02	1.40E+02	1.85E+02	
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Zinc-65	pCi/kg	1.02E+01	9.15E+00	3.30E+01	U
Broad Leaf-Grasses	11/29/2022 9:04	12/3/2022 16:23	Zirconium-95	pCi/kg	2.07E+00	8.83E+00	2.94E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Barium-140	pCi/kg	-2.39E-01	2.71E+01	8.89E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Beryllium-7	pCi/kg	7.09E+03	1.88E+02	1.88E+02	
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Cesium-134	pCi/kg	2.27E+01	7.99E+00	2.81E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Cesium-137	pCi/kg	7.59E+00	7.83E+00	2.36E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Cobalt-57	pCi/kg	-1.37E+00	5.39E+00	1.71E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Cobalt-58	pCi/kg	-3.73E+00	7.27E+00	2.27E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Cobalt-60	pCi/kg	6.01E+00	7.04E+00	2.43E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Iodine-131	pCi/kg	-7.08E+00	8.46E+00	2.78E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Iron-59	pCi/kg	-2.15E+01	1.21E+01	3.74E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Lanthanum-140	pCi/kg	1.48E+00	8.51E+00	2.81E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Manganese-54	pCi/kg	7.47E+00	7.06E+00	2.34E+01	U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Niobium-95	pCi/kg	-4.41E+00	1.72E+01	2.55E+01	U

Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Potassium-40	pCi/kg	4.14E+03	2.89E+02	2.12E+02		
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Zinc-65	pCi/kg	1.71E+01	1.51E+01	4.76E+01		U
Broad Leaf-Grasses	12/27/2022 10:31	12/30/2022 14:04	Zirconium-95	pCi/kg	-2.30E+01	1.42E+01	3.71E+01		U

Sample Data For: "BL-3"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Barium-140	pCi/kg	-4.50E+01	4.02E+01	1.28E+02		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Beryllium-7	pCi/kg	2.69E+03	1.97E+02	2.61E+02		
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Cesium-134	pCi/kg	-1.69E+01	9.61E+00	2.78E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Cesium-137	pCi/kg	1.55E+01	8.00E+00	2.79E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Cobalt-57	pCi/kg	6.68E+00	6.26E+00	2.21E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Cobalt-58	pCi/kg	-7.62E+00	8.18E+00	2.51E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Cobalt-60	pCi/kg	5.43E+00	9.37E+00	3.30E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Iodine-131	pCi/kg	-2.31E+00	1.54E+01	4.95E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Iron-59	pCi/kg	-2.42E+00	1.64E+01	5.21E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Lanthanum-140	pCi/kg	-7.91E+00	1.19E+01	3.61E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Manganese-54	pCi/kg	-1.18E+01	9.29E+00	2.80E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Niobium-95	pCi/kg	5.29E+00	9.60E+00	3.28E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Potassium-40	pCi/kg	1.91E+03	2.54E+02	2.92E+02		
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Zinc-65	pCi/kg	-2.84E+01	2.01E+01	5.65E+01		U
Broad Leaf-Grasses	1/25/2022 9:56	2/1/2022 7:53	Zirconium-95	pCi/kg	-7.42E+00	1.47E+01	4.69E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Barium-140	pCi/kg	7.94E+01	3.11E+01	1.11E+02		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Beryllium-7	pCi/kg	4.43E+03	1.87E+02	1.91E+02		
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Cesium-134	pCi/kg	-5.60E-01	8.46E+00	2.84E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Cesium-137	pCi/kg	-9.08E+00	8.91E+00	2.69E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Cobalt-57	pCi/kg	5.30E-01	5.59E+00	1.76E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Cobalt-58	pCi/kg	2.32E+00	6.88E+00	2.35E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Cobalt-60	pCi/kg	3.58E+00	8.49E+00	2.84E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Iodine-131	pCi/kg	3.61E+00	9.93E+00	3.31E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Iron-59	pCi/kg	-3.41E+00	1.79E+01	5.08E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Lanthanum-140	pCi/kg	-8.45E+00	8.94E+00	2.77E+01		U

Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Manganese-54	pCi/kg	-2.35E+00	8.03E+00	2.66E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Niobium-95	pCi/kg	1.40E+01	8.88E+00	3.17E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Potassium-40	pCi/kg	2.23E+03	2.58E+02	2.62E+02		
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Zinc-65	pCi/kg	-4.95E+00	2.17E+01	6.15E+01		U
Broad Leaf-Grasses	2/22/2022 8:32	2/25/2022 17:48	Zirconium-95	pCi/kg	-7.96E+00	1.33E+01	4.36E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Barium-140	pCi/kg	2.74E+00	4.70E+01	1.52E+02		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Beryllium-7	pCi/kg	4.39E+03	2.16E+02	2.56E+02		
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Cesium-134	pCi/kg	2.12E+00	1.55E+01	3.86E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Cesium-137	pCi/kg	2.53E+00	2.78E+01	3.50E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Cobalt-57	pCi/kg	-1.60E+00	4.63E+00	1.58E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Cobalt-58	pCi/kg	6.12E+00	1.02E+01	3.51E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Cobalt-60	pCi/kg	2.12E+00	1.12E+01	3.71E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Iodine-131	pCi/kg	3.95E+01	2.00E+01	4.95E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Iron-59	pCi/kg	-4.40E+01	2.05E+01	6.21E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Lanthanum-140	pCi/kg	-2.81E+00	1.94E+01	5.42E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Manganese-54	pCi/kg	1.54E+00	9.52E+00	3.23E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Niobium-95	pCi/kg	1.19E+01	1.01E+01	3.53E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Potassium-40	pCi/kg	1.36E+03	3.23E+02	3.61E+02		
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Zinc-65	pCi/kg	-3.73E+01	2.16E+01	6.68E+01		U
Broad Leaf-Grasses	3/29/2022 8:58	4/5/2022 10:17	Zirconium-95	pCi/kg	-6.82E+00	1.74E+01	5.85E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Barium-140	pCi/kg	5.88E+00	3.78E+01	1.26E+02		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Beryllium-7	pCi/kg	6.46E+03	2.43E+02	2.29E+02		
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Cesium-134	pCi/kg	-2.56E+00	9.60E+00	3.05E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Cesium-137	pCi/kg	8.96E+00	8.56E+00	2.95E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Cobalt-57	pCi/kg	7.97E+00	5.52E+00	1.87E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Cobalt-58	pCi/kg	1.66E+00	7.30E+00	2.39E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Cobalt-60	pCi/kg	4.71E+00	1.33E+01	3.32E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Iodine-131	pCi/kg	1.76E+01	1.27E+01	4.52E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Iron-59	pCi/kg	2.77E+01	1.68E+01	5.78E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Lanthanum-140	pCi/kg	-2.16E+01	1.34E+01	3.73E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Manganese-54	pCi/kg	-2.55E-01	7.65E+00	2.46E+01		U
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Niobium-95	pCi/kg	4.23E+00	8.03E+00	2.68E+01		U

Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Potassium-40	pCi/kg	1.11E+03	2.63E+02	3.04E+02		
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Zinc-65	pCi/kg	8.69E+00	1.70E+01	5.92E+01	U	
Broad Leaf-Grasses	4/26/2022 8:30	5/3/2022 7:03	Zirconium-95	pCi/kg	-9.87E+00	1.35E+01	4.17E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Barium-140	pCi/kg	6.69E+01	5.02E+01	1.74E+02	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Beryllium-7	pCi/kg	6.56E+03	2.58E+02	2.51E+02		
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Cesium-134	pCi/kg	1.42E+01	1.09E+01	3.69E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Cesium-137	pCi/kg	1.21E+01	1.05E+01	3.56E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Cobalt-57	pCi/kg	-2.46E+00	5.15E+00	1.64E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Cobalt-58	pCi/kg	2.44E+01	1.51E+01	3.16E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Cobalt-60	pCi/kg	-1.40E+01	1.22E+01	3.07E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Iodine-131	pCi/kg	-2.26E+01	2.24E+01	5.48E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Iron-59	pCi/kg	-9.84E+00	1.86E+01	5.98E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Lanthanum-140	pCi/kg	8.58E-01	1.97E+01	6.38E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Manganese-54	pCi/kg	8.99E-01	1.36E+01	3.18E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Niobium-95	pCi/kg	2.95E+01	2.07E+01	3.17E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Potassium-40	pCi/kg	4.14E+03	3.33E+02	2.29E+02		
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Zinc-65	pCi/kg	3.20E+01	2.29E+01	8.14E+01	U	
Broad Leaf-Grasses	5/31/2022 8:31	6/9/2022 18:51	Zirconium-95	pCi/kg	7.77E+00	1.78E+01	5.80E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Barium-140	pCi/kg	6.29E-01	3.40E+01	1.11E+02	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Beryllium-7	pCi/kg	5.84E+03	2.31E+02	2.47E+02		
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Cesium-134	pCi/kg	-2.36E+01	2.04E+01	3.56E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Cesium-137	pCi/kg	2.07E+01	1.05E+01	3.65E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Cobalt-57	pCi/kg	-2.54E+00	6.32E+00	2.03E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Cobalt-58	pCi/kg	-9.93E+00	7.79E+00	2.47E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Cobalt-60	pCi/kg	1.60E+01	9.17E+00	3.36E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Iodine-131	pCi/kg	1.20E+01	1.11E+01	3.83E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Iron-59	pCi/kg	-2.17E+00	1.71E+01	5.61E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Lanthanum-140	pCi/kg	-1.73E+01	1.23E+01	3.44E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Manganese-54	pCi/kg	7.96E+00	9.19E+00	3.22E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Niobium-95	pCi/kg	8.83E+00	9.79E+00	3.24E+01	U	
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Potassium-40	pCi/kg	2.06E+03	3.05E+02	3.64E+02		
Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Zinc-65	pCi/kg	2.78E+01	2.26E+01	7.16E+01	U	

Broad Leaf-Grasses	7/26/2022 7:37	7/29/2022 7:02	Zirconium-95	pCi/kg	-2.17E+01	1.77E+01	5.28E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Barium-140	pCi/kg	3.91E+01	4.76E+01	1.44E+02	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Beryllium-7	pCi/kg	5.23E+03	2.16E+02	2.60E+02	
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Cesium-134	pCi/kg	2.13E+01	1.02E+01	3.53E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Cesium-137	pCi/kg	3.46E+01	1.73E+01	3.03E+01	UI
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Cobalt-57	pCi/kg	-7.14E+00	6.99E+00	2.16E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Cobalt-58	pCi/kg	6.15E+00	9.26E+00	3.02E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Cobalt-60	pCi/kg	-5.94E+00	9.72E+00	3.10E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Iodine-131	pCi/kg	-9.10E+00	1.84E+01	5.41E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Iron-59	pCi/kg	-1.93E+01	1.76E+01	5.60E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Lanthanum-140	pCi/kg	-1.26E+01	1.90E+01	5.10E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Manganese-54	pCi/kg	-7.77E+00	9.22E+00	2.82E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Niobium-95	pCi/kg	9.75E+00	1.43E+01	3.30E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Potassium-40	pCi/kg	1.25E+03	3.11E+02	3.34E+02	
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Zinc-65	pCi/kg	5.65E+01	2.18E+01	7.34E+01	U
Broad Leaf-Grasses	8/30/2022 8:26	9/6/2022 13:20	Zirconium-95	pCi/kg	-2.39E+01	1.57E+01	4.65E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Barium-140	pCi/kg	6.91E+01	3.68E+01	1.30E+02	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Beryllium-7	pCi/kg	4.13E+03	1.78E+02	1.78E+02	
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Cesium-134	pCi/kg	7.03E+00	7.21E+00	2.56E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Cesium-137	pCi/kg	5.43E-01	1.56E+01	2.42E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Cobalt-57	pCi/kg	-2.86E+00	4.94E+00	1.57E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Cobalt-58	pCi/kg	8.26E+00	6.65E+00	2.40E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Cobalt-60	pCi/kg	-3.04E+00	7.36E+00	2.30E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Iodine-131	pCi/kg	3.01E+00	1.34E+01	4.50E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Iron-59	pCi/kg	-1.52E+01	1.72E+01	5.37E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Lanthanum-140	pCi/kg	-1.42E+01	1.68E+01	4.52E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Manganese-54	pCi/kg	6.48E+00	7.79E+00	2.72E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Niobium-95	pCi/kg	3.45E+00	7.06E+00	2.45E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Potassium-40	pCi/kg	3.93E+03	3.08E+02	2.11E+02	
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Zinc-65	pCi/kg	3.79E+01	2.70E+01	5.23E+01	U
Broad Leaf-Grasses	9/27/2022 9:28	10/5/2022 10:40	Zirconium-95	pCi/kg	1.02E+01	1.21E+01	4.29E+01	U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Barium-140	pCi/kg	5.28E+01	5.10E+01	1.72E+02	U

Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Beryllium-7	pCi/kg	4.22E+03	2.80E+02	3.09E+02		
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Cesium-134	pCi/kg	-1.41E+01	1.19E+01	3.71E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Cesium-137	pCi/kg	3.09E+01	2.28E+01	4.13E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Cobalt-57	pCi/kg	-3.52E+00	8.31E+00	2.72E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Cobalt-58	pCi/kg	2.98E+00	9.95E+00	3.41E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Cobalt-60	pCi/kg	-7.77E+00	1.26E+01	3.95E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Iodine-131	pCi/kg	-1.13E+01	1.79E+01	5.59E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Iron-59	pCi/kg	2.27E+01	1.93E+01	7.00E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Lanthanum-140	pCi/kg	-1.07E+01	2.07E+01	6.42E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Manganese-54	pCi/kg	-1.24E+01	1.06E+01	3.30E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Niobium-95	pCi/kg	-1.64E+01	1.52E+01	4.01E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Potassium-40	pCi/kg	2.42E+03	3.08E+02	3.65E+02		
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Zinc-65	pCi/kg	1.27E+01	2.17E+01	7.05E+01		U
Broad Leaf-Grasses	10/25/2022 11:32	11/1/2022 6:54	Zirconium-95	pCi/kg	-1.27E+01	1.77E+01	5.69E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Barium-140	pCi/kg	-1.20E+01	1.94E+01	6.06E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Beryllium-7	pCi/kg	2.31E+03	1.48E+02	1.36E+02		
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Cesium-134	pCi/kg	2.13E+00	6.24E+00	1.97E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Cesium-137	pCi/kg	-5.08E+00	5.17E+00	1.54E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Cobalt-57	pCi/kg	-4.30E-01	3.43E+00	1.09E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Cobalt-58	pCi/kg	9.87E+00	5.04E+00	1.80E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Cobalt-60	pCi/kg	-3.72E+00	3.90E+00	1.10E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Iodine-131	pCi/kg	8.78E+00	6.25E+00	2.26E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Iron-59	pCi/kg	6.95E+00	9.47E+00	3.41E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Lanthanum-140	pCi/kg	-9.01E+00	8.73E+00	2.52E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Manganese-54	pCi/kg	-2.02E+00	4.94E+00	1.52E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Niobium-95	pCi/kg	1.37E+00	5.45E+00	1.79E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Potassium-40	pCi/kg	1.50E+03	1.61E+02	1.40E+02		
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Zinc-65	pCi/kg	8.82E-01	8.55E+00	2.92E+01		U
Broad Leaf-Grasses	11/29/2022 9:32	12/3/2022 16:22	Zirconium-95	pCi/kg	-1.55E+01	9.27E+00	2.50E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Barium-140	pCi/kg	1.65E+01	3.02E+01	1.02E+02		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Beryllium-7	pCi/kg	7.52E+03	2.04E+02	2.23E+02		
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Cesium-134	pCi/kg	9.99E+00	8.54E+00	2.89E+01		U

Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Cesium-137	pCi/kg	8.25E+00	8.57E+00	2.90E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Cobalt-57	pCi/kg	-3.45E-01	6.21E+00	2.02E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Cobalt-58	pCi/kg	6.92E+00	7.69E+00	2.58E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Cobalt-60	pCi/kg	1.28E+01	8.39E+00	3.02E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Iodine-131	pCi/kg	-1.86E+00	9.80E+00	3.32E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Iron-59	pCi/kg	1.75E+01	1.63E+01	5.77E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Lanthanum-140	pCi/kg	2.20E+01	1.09E+01	4.00E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Manganese-54	pCi/kg	-2.32E+01	1.66E+01	2.85E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Niobium-95	pCi/kg	5.57E+00	1.33E+01	2.78E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Potassium-40	pCi/kg	4.24E+03	3.28E+02	2.63E+02		
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Zinc-65	pCi/kg	1.75E+01	1.95E+01	6.13E+01		U
Broad Leaf-Grasses	12/27/2022 11:43	12/30/2022 14:03	Zirconium-95	pCi/kg	-6.40E+00	1.30E+01	4.13E+01		U

Sample Data For: "F-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Catfish	5/24/2022 12:00	6/1/2022 5:01	Barium-140	pCi/kg	-7.90E+00	1.35E+01	4.27E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Beryllium-7	pCi/kg	3.77E+00	1.98E+01	6.72E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Cesium-134	pCi/kg	1.47E+00	2.80E+00	9.53E+00		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Cesium-137	pCi/kg	4.39E+00	3.04E+00	1.10E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Cobalt-57	pCi/kg	5.32E-01	1.81E+00	6.00E+00		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Cobalt-58	pCi/kg	-6.34E+00	3.05E+00	7.81E+00		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Cobalt-60	pCi/kg	1.02E+01	2.72E+00	1.07E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Iodine-131	pCi/kg	-2.34E+00	4.84E+00	1.61E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Iron-59	pCi/kg	4.67E+00	6.81E+00	2.43E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Lanthanum-140	pCi/kg	-1.09E+00	4.08E+00	1.28E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Manganese-54	pCi/kg	4.78E+00	2.56E+00	9.70E+00		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Niobium-95	pCi/kg	1.09E+00	2.66E+00	8.94E+00		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Potassium-40	pCi/kg	2.56E+03	1.49E+02	7.43E+01		
Catfish	5/24/2022 12:00	6/1/2022 5:01	Zinc-65	pCi/kg	1.49E+00	7.09E+00	2.44E+01		U
Catfish	5/24/2022 12:00	6/1/2022 5:01	Zirconium-95	pCi/kg	5.72E+00	4.45E+00	1.62E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Barium-140	pCi/kg	7.81E-04	1.27E+01	3.90E+01		U

Bass	5/24/2022 12:00	6/1/2022 5:02	Beryllium-7	pCi/kg	3.39E+00	1.68E+01	5.82E+01	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cesium-134	pCi/kg	1.96E+00	2.30E+00	8.18E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cesium-137	pCi/kg	-1.24E+00	1.80E+00	5.63E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-57	pCi/kg	-9.49E-01	1.65E+00	5.43E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-58	pCi/kg	1.12E+00	1.86E+00	6.53E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-60	pCi/kg	3.26E-01	2.47E+00	7.97E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Iodine-131	pCi/kg	-5.82E+00	3.72E+00	1.04E+01	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Iron-59	pCi/kg	2.61E+00	5.66E+00	1.73E+01	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Lanthanum-140	pCi/kg	-3.00E+00	3.32E+00	9.68E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Manganese-54	pCi/kg	1.15E+00	2.64E+00	9.07E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Niobium-95	pCi/kg	-1.90E+00	3.07E+00	8.93E+00	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Potassium-40	pCi/kg	3.44E+03	1.45E+02	6.82E+01	
Bass	5/24/2022 12:00	6/1/2022 5:02	Zinc-65	pCi/kg	-6.87E+00	7.74E+00	2.02E+01	U
Bass	5/24/2022 12:00	6/1/2022 5:02	Zirconium-95	pCi/kg	-2.09E+00	3.69E+00	1.16E+01	U

Sample Data For: "F-1- Bass"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Bass	11/15/2022 12:00	11/19/2022 14:30	Barium-140	pCi/kg	1.27E+01	6.93E+00	2.65E+01		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Beryllium-7	pCi/kg	4.68E+00	1.70E+01	5.77E+01		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Cesium-134	pCi/kg	6.41E+00	2.42E+00	6.51E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Cesium-137	pCi/kg	1.59E+00	2.19E+00	7.56E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Cobalt-57	pCi/kg	1.01E+00	1.55E+00	5.13E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Cobalt-58	pCi/kg	3.96E-01	2.02E+00	6.65E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Cobalt-60	pCi/kg	-2.00E+00	2.09E+00	6.14E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Iodine-131	pCi/kg	4.51E-01	2.62E+00	8.07E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Iron-59	pCi/kg	-1.06E+00	4.95E+00	1.65E+01		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Lanthanum-140	pCi/kg	-1.39E+00	2.86E+00	8.79E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Manganese-54	pCi/kg	9.08E-01	2.40E+00	7.95E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Niobium-95	pCi/kg	2.28E+00	2.00E+00	7.14E+00		U
Bass	11/15/2022 12:00	11/19/2022 14:30	Potassium-40	pCi/kg	2.94E+03	1.36E+02	6.21E+01		
Bass	11/15/2022 12:00	11/19/2022 14:30	Zinc-65	pCi/kg	5.09E+00	5.19E+00	1.89E+01		U

Bass	11/15/2022 12:00	11/19/2022 14:30	Zirconium-95	pCi/kg	2.74E+00	3.63E+00	1.26E+01		U
------	------------------	------------------	--------------	--------	----------	----------	----------	--	---

Sample Data For: "F-1-Catfish"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Catfish	11/15/2022 12:00	11/19/2022 14:29	Barium-140	pCi/kg	-2.41E+00	8.54E+00	2.48E+01		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Beryllium-7	pCi/kg	4.53E+01	3.03E+01	4.35E+01		UI
Catfish	11/15/2022 12:00	11/19/2022 14:29	Cesium-134	pCi/kg	2.57E+00	2.11E+00	7.61E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Cesium-137	pCi/kg	1.31E+00	1.47E+00	5.28E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Cobalt-57	pCi/kg	-4.88E-01	1.35E+00	4.31E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Cobalt-58	pCi/kg	7.67E-01	2.17E+00	7.25E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Cobalt-60	pCi/kg	-5.38E+00	2.36E+00	6.02E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Iodine-131	pCi/kg	-6.43E-01	2.03E+00	6.79E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Iron-59	pCi/kg	4.59E+00	3.63E+00	1.25E+01		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Lanthanum-140	pCi/kg	-3.84E+00	4.69E+00	6.33E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Manganese-54	pCi/kg	-9.90E-01	2.08E+00	6.44E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Niobium-95	pCi/kg	-7.31E-01	1.80E+00	4.93E+00		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Potassium-40	pCi/kg	2.56E+03	1.16E+02	3.99E+01		
Catfish	11/15/2022 12:00	11/19/2022 14:29	Zinc-65	pCi/kg	-4.21E-01	5.32E+00	1.67E+01		U
Catfish	11/15/2022 12:00	11/19/2022 14:29	Zirconium-95	pCi/kg	1.35E+00	3.38E+00	1.14E+01		U

Sample Data For: "F-2"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Bass	5/24/2022 12:00	6/1/2022 5:02	Barium-140	pCi/kg	-2.64E+01	1.71E+01	4.90E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Beryllium-7	pCi/kg	3.45E+00	2.52E+01	8.37E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cesium-134	pCi/kg	3.41E+00	4.11E+00	1.40E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cesium-137	pCi/kg	-1.81E+00	3.62E+00	1.12E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-57	pCi/kg	2.18E+00	2.31E+00	7.68E+00		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-58	pCi/kg	-2.05E+00	3.44E+00	1.03E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Cobalt-60	pCi/kg	1.14E+01	3.98E+00	1.41E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Iodine-131	pCi/kg	-4.02E+00	5.35E+00	1.70E+01		U

Bass	5/24/2022 12:00	6/1/2022 5:02	Iron-59	pCi/kg	-1.53E+01	8.80E+00	1.97E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Lanthanum-140	pCi/kg	-4.36E+00	6.02E+00	1.63E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Manganese-54	pCi/kg	7.38E+00	3.01E+00	1.18E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Niobium-95	pCi/kg	4.87E+00	3.58E+00	1.28E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Potassium-40	pCi/kg	3.39E+03	1.80E+02	8.95E+01		
Bass	5/24/2022 12:00	6/1/2022 5:02	Zinc-65	pCi/kg	9.48E+00	5.86E+00	2.90E+01		U
Bass	5/24/2022 12:00	6/1/2022 5:02	Zirconium-95	pCi/kg	1.47E+01	5.28E+00	2.14E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Barium-140	pCi/kg	-1.96E+00	9.87E+00	3.21E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Beryllium-7	pCi/kg	7.54E+00	1.54E+01	5.26E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Cesium-134	pCi/kg	-1.83E+00	2.43E+00	7.38E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Cesium-137	pCi/kg	-1.33E+00	2.04E+00	6.29E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Cobalt-57	pCi/kg	-2.91E+00	1.43E+00	4.15E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Cobalt-58	pCi/kg	2.91E+00	1.97E+00	7.09E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Cobalt-60	pCi/kg	-4.27E+00	2.21E+00	5.79E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Iodine-131	pCi/kg	4.56E+00	3.36E+00	1.21E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Iron-59	pCi/kg	7.73E-01	5.43E+00	1.85E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Lanthanum-140	pCi/kg	-2.58E+00	3.68E+00	1.11E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Manganese-54	pCi/kg	-6.77E-01	2.22E+00	6.93E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Niobium-95	pCi/kg	9.13E-01	2.35E+00	7.64E+00		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Potassium-40	pCi/kg	3.10E+03	1.24E+02	6.23E+01		
Bass	12/29/2022 12:00	1/6/2023 17:19	Zinc-65	pCi/kg	-1.18E+00	4.58E+00	1.51E+01		U
Bass	12/29/2022 12:00	1/6/2023 17:19	Zirconium-95	pCi/kg	2.88E+00	3.79E+00	1.29E+01		U

Sample Data For: "F-3"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Catfish	5/24/2022 12:00	6/19/2022 4:20	Tritium	pCi/g	3.45E+00	6.43E-01	1.26E+00		

Sample Data For: "FP-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Food Product	11/8/2022 12:00	11/15/2022 17:25	Barium-140	pCi/kg	3.92E+00	1.27E+01	4.25E+01		U

Food Product	11/8/2022 12:00	11/15/2022 17:25	Beryllium-7	pCi/kg	-7.17E+00	2.07E+01	6.80E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Cesium-134	pCi/kg	1.82E+00	2.83E+00	9.48E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Cesium-137	pCi/kg	3.07E+00	2.86E+00	9.84E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Cobalt-57	pCi/kg	3.86E-01	1.89E+00	6.12E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Cobalt-58	pCi/kg	6.20E-01	2.67E+00	7.79E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Cobalt-60	pCi/kg	1.01E+00	2.63E+00	9.06E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Iodine-131	pCi/kg	-7.14E+00	4.16E+00	1.31E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Iron-59	pCi/kg	8.95E+00	5.63E+00	2.08E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Lanthanum-140	pCi/kg	-1.05E-02	4.01E+00	1.32E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Manganese-54	pCi/kg	4.82E+00	2.59E+00	9.26E+00	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Niobium-95	pCi/kg	2.57E+00	3.00E+00	1.01E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Potassium-40	pCi/kg	3.09E+03	1.34E+02	9.80E+01	
Food Product	11/8/2022 12:00	11/15/2022 17:25	Zinc-65	pCi/kg	3.64E-01	5.39E+00	1.83E+01	U
Food Product	11/8/2022 12:00	11/15/2022 17:25	Zirconium-95	pCi/kg	1.41E+00	4.14E+00	1.37E+01	U

Sample Data For: "GW-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Barium-140	pCi/L	-4.07E+00	3.13E+00	1.01E+01		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Beryllium-7	pCi/L	3.74E-01	4.72E+00	1.60E+01		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Cesium-134	pCi/L	7.69E-01	6.06E-01	2.09E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Cesium-137	pCi/L	1.33E-01	5.82E-01	1.95E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Cobalt-57	pCi/L	2.48E-02	4.63E-01	1.56E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Cobalt-58	pCi/L	1.90E-01	5.82E-01	1.93E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Cobalt-60	pCi/L	2.96E+00	1.13E+00	1.91E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Iodine-131	pCi/L	4.01E-02	1.27E+00	4.08E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Iron-59	pCi/L	1.96E-02	1.11E+00	3.55E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Lanthanum-140	pCi/L	1.95E-01	1.03E+00	3.45E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Manganese-54	pCi/L	2.89E-01	5.58E-01	1.86E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Niobium-95	pCi/L	5.55E-01	7.06E-01	2.12E+00		U
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Potassium-40	pCi/L	4.33E+01	1.45E+01	1.89E+01		
Ground Water	3/29/2022 8:00	4/7/2022 19:45	Zinc-65	pCi/L	-1.71E+00	1.27E+00	3.82E+00		U

Ground Water	3/29/2022 8:00	4/7/2022 19:45	Zirconium-95	pCi/L	-7.63E-01	1.12E+00	3.11E+00	U
Ground Water	3/29/2022 8:00	4/13/2022 14:37	Tritium	pCi/L	2.11E+01	2.29E+02	7.50E+02	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Barium-140	pCi/L	-2.12E-01	2.52E+00	8.56E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Beryllium-7	pCi/L	1.35E+00	3.40E+00	1.18E+01	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Cesium-134	pCi/L	-2.52E-01	4.57E-01	1.48E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Cesium-137	pCi/L	1.36E-01	4.12E-01	1.40E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Cobalt-57	pCi/L	-2.93E-02	3.90E-01	1.31E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Cobalt-58	pCi/L	-3.54E-02	4.04E-01	1.19E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Cobalt-60	pCi/L	-2.02E-01	4.19E-01	1.29E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Iodine-131	pCi/L	1.41E+00	9.95E-01	3.28E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Iron-59	pCi/L	-7.81E-01	1.03E+00	2.82E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Lanthanum-140	pCi/L	-2.86E+00	1.63E+00	2.60E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Manganese-54	pCi/L	2.61E-01	3.93E-01	1.33E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Niobium-95	pCi/L	6.87E-01	4.69E-01	1.49E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Potassium-40	pCi/L	-3.22E+01	9.45E+00	2.55E+01	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Zinc-65	pCi/L	6.06E-01	9.54E-01	3.17E+00	U
Ground Water	6/28/2022 7:32	7/8/2022 18:39	Zirconium-95	pCi/L	7.98E-01	8.21E-01	2.83E+00	U
Ground Water	6/28/2022 7:32	7/28/2022 11:51	Tritium	pCi/L	5.26E+01	1.82E+02	5.91E+02	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Barium-140	pCi/L	3.23E+00	3.37E+00	1.14E+01	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Beryllium-7	pCi/L	-1.73E-01	5.45E+00	1.80E+01	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Cesium-134	pCi/L	9.57E-01	7.82E-01	2.78E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Cesium-137	pCi/L	3.55E-01	1.42E+00	2.18E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Cobalt-57	pCi/L	8.65E-02	3.98E-01	1.32E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Cobalt-58	pCi/L	-1.11E+00	6.86E-01	2.17E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Cobalt-60	pCi/L	1.06E+00	6.97E-01	2.48E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Iodine-131	pCi/L	7.97E-01	1.09E+00	3.76E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Iron-59	pCi/L	-8.07E-01	1.49E+00	4.76E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Lanthanum-140	pCi/L	-4.90E-01	1.11E+00	3.60E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Manganese-54	pCi/L	-1.87E-01	6.41E-01	2.14E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Niobium-95	pCi/L	5.59E-01	7.39E-01	2.42E+00	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Potassium-40	pCi/L	1.73E+01	1.85E+01	2.26E+01	U
Ground Water	9/27/2022 8:38	10/4/2022 13:05	Zinc-65	pCi/L	-4.28E+00	1.57E+00	4.45E+00	U

Ground Water	9/27/2022 8:38	10/4/2022 13:05	Zirconium-95	pCi/L	-9.77E-01	1.35E+00	4.12E+00	U
Ground Water	9/27/2022 8:38	10/6/2022 9:44	Tritium	pCi/L	3.20E+02	1.95E+02	6.11E+02	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Barium-140	pCi/L	2.06E+00	3.20E+00	1.08E+01	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Beryllium-7	pCi/L	1.05E+00	4.16E+00	1.41E+01	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Cesium-134	pCi/L	-6.40E-01	5.24E-01	1.62E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Cesium-137	pCi/L	1.11E+00	7.59E-01	1.48E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Cobalt-57	pCi/L	1.30E-01	3.82E-01	1.26E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Cobalt-58	pCi/L	-8.43E-01	5.85E-01	1.57E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Cobalt-60	pCi/L	2.33E-01	4.80E-01	1.46E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Iodine-131	pCi/L	1.06E+00	1.44E+00	4.52E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Iron-59	pCi/L	2.36E+00	8.34E-01	3.22E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Lanthanum-140	pCi/L	1.64E+00	8.60E-01	2.92E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Manganese-54	pCi/L	-1.47E-01	4.52E-01	1.44E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Niobium-95	pCi/L	9.43E-02	4.97E-01	1.62E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Potassium-40	pCi/L	6.51E+00	1.13E+01	1.49E+01	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Zinc-65	pCi/L	-2.04E+00	1.39E+00	2.68E+00	U
Ground Water	12/27/2022 10:39	1/9/2023 13:31	Zirconium-95	pCi/L	9.98E-01	9.28E-01	3.12E+00	U
Ground Water	12/27/2022 10:39	1/21/2023 15:03	Tritium	pCi/L	2.24E+02	1.84E+02	5.68E+02	U

Sample Data For: "GW-2"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Barium-140	pCi/L	6.79E-01	2.66E+00	8.90E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Beryllium-7	pCi/L	-2.70E+00	3.86E+00	1.25E+01	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Cesium-134	pCi/L	8.09E-02	4.52E-01	1.48E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Cesium-137	pCi/L	-3.54E-01	6.40E-01	1.59E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Cobalt-57	pCi/L	-4.00E-01	4.10E-01	1.29E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Cobalt-58	pCi/L	-3.52E-01	4.83E-01	1.50E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Cobalt-60	pCi/L	1.17E+00	5.00E-01	1.90E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Iodine-131	pCi/L	1.52E+00	9.45E-01	3.37E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Iron-59	pCi/L	-2.13E+00	9.19E-01	2.69E+00	U	
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Lanthanum-140	pCi/L	-5.18E-01	9.49E-01	3.01E+00	U	

Ground Water	3/29/2022 6:24	4/7/2022 19:24	Manganese-54	pCi/L	2.89E-01	4.70E-01	1.56E+00	U
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Niobium-95	pCi/L	1.65E-01	6.92E-01	1.64E+00	U
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Potassium-40	pCi/L	7.88E+00	8.61E+00	2.47E+01	U
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Zinc-65	pCi/L	9.42E-01	9.44E-01	3.36E+00	U
Ground Water	3/29/2022 6:24	4/7/2022 19:24	Zirconium-95	pCi/L	-1.03E+00	1.49E+00	2.80E+00	U
Ground Water	3/29/2022 6:24	4/13/2022 14:53	Tritium	pCi/L	1.33E+02	2.36E+02	7.52E+02	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Barium-140	pCi/L	-8.25E-01	2.25E+00	7.48E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Beryllium-7	pCi/L	1.87E+00	3.29E+00	1.14E+01	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Cesium-134	pCi/L	7.16E-02	3.85E-01	1.28E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Cesium-137	pCi/L	-9.30E-01	1.04E+00	1.34E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Cobalt-57	pCi/L	2.00E-01	3.14E-01	1.05E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Cobalt-58	pCi/L	1.22E-01	4.16E-01	1.38E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Cobalt-60	pCi/L	2.41E-01	3.72E-01	1.31E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Iodine-131	pCi/L	1.61E-01	9.83E-01	3.07E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Iron-59	pCi/L	9.38E-01	8.17E-01	2.55E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Lanthanum-140	pCi/L	-1.07E+00	8.00E-01	2.47E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Manganese-54	pCi/L	1.65E-01	3.67E-01	1.23E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Niobium-95	pCi/L	6.07E-01	4.00E-01	1.40E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Potassium-40	pCi/L	-1.02E+01	9.03E+00	2.25E+01	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Zinc-65	pCi/L	-1.08E-01	8.80E-01	2.66E+00	U
Ground Water	6/28/2022 6:14	7/8/2022 18:40	Zirconium-95	pCi/L	1.51E+00	6.89E-01	2.49E+00	U
Ground Water	6/28/2022 6:14	7/28/2022 12:07	Tritium	pCi/L	3.11E+02	1.96E+02	5.96E+02	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Barium-140	pCi/L	5.35E+00	2.67E+00	9.54E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Beryllium-7	pCi/L	-5.18E+00	4.53E+00	1.38E+01	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Cesium-134	pCi/L	9.45E-01	5.49E-01	1.93E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Cesium-137	pCi/L	9.00E-01	5.32E-01	1.88E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Cobalt-57	pCi/L	-1.32E-03	4.54E-01	1.55E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Cobalt-58	pCi/L	7.95E-02	5.00E-01	1.66E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Cobalt-60	pCi/L	4.68E-01	5.27E-01	1.84E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Iodine-131	pCi/L	8.93E-01	1.07E+00	3.17E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Iron-59	pCi/L	1.83E+00	1.10E+00	3.79E+00	U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Lanthanum-140	pCi/L	-4.88E-01	8.93E-01	2.87E+00	U

Ground Water	9/27/2022 7:41	10/4/2022 13:40	Manganese-54	pCi/L	-8.09E-01	5.09E-01	1.57E+00		U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Niobium-95	pCi/L	7.03E-01	5.27E-01	1.83E+00		U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Potassium-40	pCi/L	1.85E+01	1.32E+01	1.70E+01		UI
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Zinc-65	pCi/L	1.06E+00	1.21E+00	3.61E+00		U
Ground Water	9/27/2022 7:41	10/4/2022 13:40	Zirconium-95	pCi/L	-7.93E-01	9.04E-01	2.90E+00		U
Ground Water	9/27/2022 7:41	10/6/2022 9:59	Tritium	pCi/L	2.98E+02	1.83E+02	5.72E+02		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Barium-140	pCi/L	4.32E+00	3.12E+00	8.00E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Beryllium-7	pCi/L	7.49E-01	3.32E+00	1.10E+01		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Cesium-134	pCi/L	4.77E-01	4.01E-01	1.34E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Cesium-137	pCi/L	4.96E-01	6.95E-01	1.27E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Cobalt-57	pCi/L	-5.74E-01	3.69E-01	1.04E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Cobalt-58	pCi/L	1.89E-02	4.02E-01	1.28E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Cobalt-60	pCi/L	-8.15E-02	4.02E-01	1.31E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Iodine-131	pCi/L	-5.63E-01	1.10E+00	3.60E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Iron-59	pCi/L	4.75E-01	8.35E-01	2.85E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Lanthanum-140	pCi/L	-1.33E+00	8.55E-01	2.49E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Manganese-54	pCi/L	2.92E-01	3.64E-01	1.27E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Niobium-95	pCi/L	2.87E-03	4.82E-01	1.36E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Potassium-40	pCi/L	-1.66E+00	9.12E+00	1.86E+01		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Zinc-65	pCi/L	-3.28E-01	1.17E+00	2.59E+00		U
Ground Water	12/27/2022 10:03	1/9/2023 13:31	Zirconium-95	pCi/L	3.35E-01	7.92E-01	2.30E+00		U
Ground Water	12/27/2022 10:03	1/21/2023 15:20	Tritium	pCi/L	2.16E+02	1.80E+02	5.55E+02		U

Sample Data For: "GW-3"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Barium-140	pCi/L	2.26E+00	3.67E+00	1.24E+01		U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Beryllium-7	pCi/L	-4.57E+00	5.39E+00	1.74E+01		U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Cesium-134	pCi/L	3.51E-01	6.41E-01	2.13E+00		U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Cesium-137	pCi/L	7.78E-01	6.73E-01	2.31E+00		U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Cobalt-57	pCi/L	-6.13E-01	5.84E-01	1.85E+00		U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Cobalt-58	pCi/L	7.53E-01	6.10E-01	2.10E+00		U

Ground Water	3/29/2022 10:52	4/7/2022 17:41	Cobalt-60	pCi/L	2.07E-02	7.13E-01	2.09E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Iodine-131	pCi/L	-7.74E-01	1.34E+00	4.47E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Iron-59	pCi/L	5.32E-01	1.32E+00	4.55E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Lanthanum-140	pCi/L	-1.01E+00	1.37E+00	3.64E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Manganese-54	pCi/L	2.30E-01	7.27E-01	2.12E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Niobium-95	pCi/L	-1.38E-01	6.44E-01	2.06E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Potassium-40	pCi/L	-1.62E+01	1.30E+01	3.53E+01	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Zinc-65	pCi/L	-2.24E+00	1.37E+00	3.81E+00	U
Ground Water	3/29/2022 10:52	4/7/2022 17:41	Zirconium-95	pCi/L	-4.19E-01	1.15E+00	3.64E+00	U
Ground Water	3/29/2022 10:52	4/13/2022 13:48	Tritium	pCi/L	2.16E+02	2.37E+02	7.39E+02	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Barium-140	pCi/L	5.45E+00	2.65E+00	9.13E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Beryllium-7	pCi/L	-4.47E+00	3.73E+00	1.18E+01	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Cesium-134	pCi/L	-3.35E-01	4.43E-01	1.47E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Cesium-137	pCi/L	1.97E+00	4.79E-01	1.73E+00	UI
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Cobalt-57	pCi/L	2.52E-01	3.87E-01	1.16E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Cobalt-58	pCi/L	-7.32E-01	4.00E-01	1.27E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Cobalt-60	pCi/L	1.51E+00	4.81E-01	1.41E+00	UI
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Iodine-131	pCi/L	1.33E+00	1.04E+00	3.25E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Iron-59	pCi/L	-8.25E-01	9.25E-01	2.95E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Lanthanum-140	pCi/L	-8.27E-01	9.53E-01	2.92E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Manganese-54	pCi/L	8.04E-01	4.12E-01	1.48E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Niobium-95	pCi/L	4.26E-01	4.53E-01	1.49E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Potassium-40	pCi/L	1.81E+01	1.17E+01	1.14E+01	UI
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Zinc-65	pCi/L	-1.84E+00	8.66E-01	2.60E+00	U
Ground Water	6/28/2022 8:57	7/8/2022 18:35	Zirconium-95	pCi/L	-9.22E-01	7.66E-01	2.30E+00	U
Ground Water	6/28/2022 8:57	7/28/2022 11:02	Tritium	pCi/L	8.97E+01	1.86E+02	5.96E+02	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Barium-140	pCi/L	2.34E+00	2.20E+00	7.39E+00	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Beryllium-7	pCi/L	1.75E+00	3.76E+00	1.25E+01	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Cesium-134	pCi/L	2.98E-01	4.98E-01	1.72E+00	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Cesium-137	pCi/L	8.90E-01	1.17E+00	1.42E+00	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Cobalt-57	pCi/L	-6.62E-01	3.86E-01	1.20E+00	U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Cobalt-58	pCi/L	4.01E-01	4.59E-01	1.60E+00	U

Ground Water	9/27/2022 9:55	10/4/2022 12:11	Cobalt-60	pCi/L	1.93E-02	4.44E-01	1.45E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Iodine-131	pCi/L	-1.08E+00	7.37E-01	2.36E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Iron-59	pCi/L	-8.84E-01	1.08E+00	2.97E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Lanthanum-140	pCi/L	-9.63E-02	7.14E-01	2.39E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Manganese-54	pCi/L	2.46E-01	4.38E-01	1.50E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Niobium-95	pCi/L	-7.69E-02	4.49E-01	1.52E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Potassium-40	pCi/L	2.42E+01	8.48E+00	1.57E+01		UI
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Zinc-65	pCi/L	2.41E+00	9.68E-01	3.25E+00		U
Ground Water	9/27/2022 9:55	10/4/2022 12:11	Zirconium-95	pCi/L	-1.13E+00	7.28E-01	2.33E+00		U
Ground Water	9/27/2022 9:55	10/6/2022 8:57	Tritium	pCi/L	1.35E+02	1.78E+02	5.73E+02		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Barium-140	pCi/L	5.56E+00	3.77E+00	1.27E+01		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Beryllium-7	pCi/L	6.64E+00	6.50E+00	1.58E+01		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Cesium-134	pCi/L	-1.49E-01	5.19E-01	1.73E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Cesium-137	pCi/L	5.33E-01	5.43E-01	1.78E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Cobalt-57	pCi/L	1.54E+00	5.88E-01	1.56E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Cobalt-58	pCi/L	2.54E-01	5.28E-01	1.80E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Cobalt-60	pCi/L	6.34E-01	5.34E-01	1.83E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Iodine-131	pCi/L	-1.65E+00	1.56E+00	5.01E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Iron-59	pCi/L	3.92E-01	1.14E+00	3.79E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Lanthanum-140	pCi/L	-4.36E-01	1.23E+00	4.06E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Manganese-54	pCi/L	-4.72E-01	5.29E-01	1.49E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Niobium-95	pCi/L	9.67E-01	5.93E-01	2.09E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Potassium-40	pCi/L	-8.65E+00	1.29E+01	3.34E+01		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Zinc-65	pCi/L	1.40E+00	1.11E+00	3.45E+00		U
Ground Water	12/27/2022 12:00	1/9/2023 13:29	Zirconium-95	pCi/L	-1.42E-01	9.33E-01	3.13E+00		U
Ground Water	12/27/2022 12:00	1/21/2023 14:14	Tritium	pCi/L	2.01E+02	1.82E+02	5.63E+02		U

Sample Data For: "GW-4"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Barium-140	pCi/L	-3.13E+00	2.97E+00	9.12E+00		U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Beryllium-7	pCi/L	6.74E-01	4.15E+00	1.36E+01		U

Ground Water	3/29/2022 9:13	4/7/2022 18:19	Cesium-134	pCi/L	-1.99E-01	8.39E-01	1.95E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Cesium-137	pCi/L	2.36E-01	5.63E-01	1.82E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Cobalt-57	pCi/L	5.14E-01	4.41E-01	1.42E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Cobalt-58	pCi/L	2.29E-01	4.60E-01	1.59E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Cobalt-60	pCi/L	6.27E-01	5.41E-01	1.88E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Iodine-131	pCi/L	-3.52E-01	1.05E+00	3.40E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Iron-59	pCi/L	1.01E-02	1.37E+00	2.85E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Lanthanum-140	pCi/L	-9.60E-01	9.39E-01	2.97E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Manganese-54	pCi/L	-4.54E-01	4.63E-01	1.48E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Niobium-95	pCi/L	6.69E-01	5.16E-01	1.83E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Potassium-40	pCi/L	-3.27E+00	9.61E+00	2.41E+01	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Zinc-65	pCi/L	9.50E-01	1.02E+00	3.54E+00	U
Ground Water	3/29/2022 9:13	4/7/2022 18:19	Zirconium-95	pCi/L	1.29E+00	9.20E-01	3.29E+00	U
Ground Water	3/29/2022 9:13	4/13/2022 14:20	Tritium	pCi/L	-1.05E+02	2.14E+02	7.24E+02	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Barium-140	pCi/L	3.82E+00	2.66E+00	9.23E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Beryllium-7	pCi/L	4.49E+00	4.43E+00	1.52E+01	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Cesium-134	pCi/L	-8.94E-01	4.98E-01	1.45E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Cesium-137	pCi/L	-8.01E-01	4.80E-01	1.45E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Cobalt-57	pCi/L	1.60E+00	5.39E-01	1.38E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Cobalt-58	pCi/L	3.57E-01	5.10E-01	1.68E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Cobalt-60	pCi/L	-9.01E-01	5.73E-01	1.43E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Iodine-131	pCi/L	-2.89E+00	1.11E+00	3.51E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Iron-59	pCi/L	-1.38E+00	1.08E+00	3.39E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Lanthanum-140	pCi/L	0.00E+00	1.01E+00	3.28E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Manganese-54	pCi/L	7.11E-01	4.67E-01	1.59E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Niobium-95	pCi/L	8.48E-01	6.05E-01	1.02E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Potassium-40	pCi/L	-1.01E+01	1.15E+01	2.51E+01	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Zinc-65	pCi/L	-9.59E-01	9.52E-01	3.02E+00	U
Ground Water	6/28/2022 10:12	7/8/2022 18:38	Zirconium-95	pCi/L	-5.04E-01	8.44E-01	2.63E+00	U
Ground Water	6/28/2022 10:12	7/28/2022 11:35	Tritium	pCi/L	7.49E+01	1.87E+02	6.03E+02	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Barium-140	pCi/L	-5.34E-01	2.47E+00	7.12E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Beryllium-7	pCi/L	-1.63E+00	3.91E+00	1.27E+01	U

Ground Water	9/27/2022 12:03	10/4/2022 12:12	Cesium-134	pCi/L	-4.18E-01	5.18E-01	1.59E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Cesium-137	pCi/L	2.53E-01	5.03E-01	1.65E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Cobalt-57	pCi/L	4.89E-01	4.26E-01	1.38E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Cobalt-58	pCi/L	-3.54E-01	4.53E-01	1.39E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Cobalt-60	pCi/L	2.21E-01	4.40E-01	1.49E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Iodine-131	pCi/L	-1.70E+00	8.01E-01	2.52E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Iron-59	pCi/L	2.25E-01	1.02E+00	3.05E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Lanthanum-140	pCi/L	-2.00E-01	9.23E-01	2.58E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Manganese-54	pCi/L	2.76E-01	4.46E-01	1.45E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Niobium-95	pCi/L	-5.86E-01	9.04E-01	1.57E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Potassium-40	pCi/L	1.61E+01	1.35E+01	1.49E+01	UI
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Zinc-65	pCi/L	7.12E-01	1.02E+00	3.50E+00	U
Ground Water	9/27/2022 12:03	10/4/2022 12:12	Zirconium-95	pCi/L	6.06E-02	8.43E-01	2.70E+00	U
Ground Water	9/27/2022 12:03	10/6/2022 9:28	Tritium	pCi/L	3.14E+02	1.89E+02	5.90E+02	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Barium-140	pCi/L	2.07E+00	3.41E+00	1.18E+01	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Beryllium-7	pCi/L	-2.17E+00	4.56E+00	1.42E+01	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Cesium-134	pCi/L	4.38E-01	4.96E-01	1.71E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Cesium-137	pCi/L	2.27E+00	7.02E-01	1.59E+00	UI
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Cobalt-57	pCi/L	-2.22E-01	4.71E-01	1.54E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Cobalt-58	pCi/L	6.39E-01	5.10E-01	1.78E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Cobalt-60	pCi/L	3.81E-01	5.12E-01	1.73E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Iodine-131	pCi/L	3.95E-01	1.54E+00	4.96E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Iron-59	pCi/L	1.88E-01	9.51E-01	3.17E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Lanthanum-140	pCi/L	-2.03E+00	1.85E+00	3.78E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Manganese-54	pCi/L	-7.98E-02	4.68E-01	1.56E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Niobium-95	pCi/L	-8.39E-02	5.26E-01	1.76E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Potassium-40	pCi/L	2.10E+01	6.41E+00	2.16E+01	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Zinc-65	pCi/L	-1.11E-01	9.47E-01	3.11E+00	U
Ground Water	12/27/2022 13:29	1/9/2023 13:31	Zirconium-95	pCi/L	3.49E-01	8.86E-01	3.01E+00	U
Ground Water	12/27/2022 13:29	1/21/2023 14:47	Tritium	pCi/L	1.36E+02	1.86E+02	5.88E+02	U

Sample Data For: "GW-5"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Barium-140	pCi/L	1.89E+00	4.48E+00	1.47E+01		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Beryllium-7	pCi/L	5.88E+00	6.69E+00	2.24E+01		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Cesium-134	pCi/L	-2.20E+00	1.05E+00	2.67E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Cesium-137	pCi/L	-1.33E+00	1.44E+00	3.59E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Cobalt-57	pCi/L	-3.38E-01	4.72E-01	1.60E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Cobalt-58	pCi/L	-6.64E-01	8.13E-01	2.65E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Cobalt-60	pCi/L	-9.32E-01	9.37E-01	2.89E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Iodine-131	pCi/L	3.34E+00	1.57E+00	5.51E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Iron-59	pCi/L	2.62E+00	2.04E+00	7.15E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Lanthanum-140	pCi/L	-4.99E+00	1.69E+00	4.23E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Manganese-54	pCi/L	1.40E+00	9.06E-01	2.80E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Niobium-95	pCi/L	-7.82E-01	8.16E-01	2.66E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Potassium-40	pCi/L	-7.80E-01	1.64E+01	4.69E+01		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Zinc-65	pCi/L	-1.96E+00	1.63E+00	5.01E+00		U
Ground Water	3/29/2022 10:22	4/7/2022 18:17	Zirconium-95	pCi/L	9.69E-01	1.31E+00	4.59E+00		U
Ground Water	3/29/2022 10:22	4/13/2022 14:04	Tritium	pCi/L	-1.12E+02	2.18E+02	7.41E+02		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Barium-140	pCi/L	2.35E+00	2.51E+00	8.47E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Beryllium-7	pCi/L	-1.07E+00	3.53E+00	1.16E+01		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Cesium-134	pCi/L	-3.78E-01	4.37E-01	1.44E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Cesium-137	pCi/L	-1.59E+00	6.91E-01	1.58E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Cobalt-57	pCi/L	-2.57E-01	3.34E-01	1.09E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Cobalt-58	pCi/L	-2.53E-01	3.95E-01	1.31E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Cobalt-60	pCi/L	-2.64E-01	4.71E-01	1.48E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Iodine-131	pCi/L	-6.22E-01	1.02E+00	3.03E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Iron-59	pCi/L	1.61E-02	8.47E-01	2.80E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Lanthanum-140	pCi/L	-2.43E+00	9.18E-01	2.68E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Manganese-54	pCi/L	6.30E-01	9.48E-01	1.40E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Niobium-95	pCi/L	1.10E+00	9.66E-01	1.29E+00		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Potassium-40	pCi/L	1.33E+01	1.12E+01	1.48E+01		U
Ground Water	6/28/2022 9:35	7/8/2022 18:37	Zinc-65	pCi/L	8.94E-01	8.21E-01	2.84E+00		U

Ground Water	6/28/2022 9:35	7/8/2022 18:37	Zirconium-95	pCi/L	-1.13E+00	1.07E+00	2.41E+00	U
Ground Water	6/28/2022 9:35	7/28/2022 11:18	Tritium	pCi/L	2.56E+02	1.94E+02	5.95E+02	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Barium-140	pCi/L	-1.66E+00	2.32E+00	7.56E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Beryllium-7	pCi/L	1.72E-01	4.05E+00	1.36E+01	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Cesium-134	pCi/L	-9.37E-02	5.63E-01	1.61E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Cesium-137	pCi/L	1.18E+00	7.04E-01	1.55E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Cobalt-57	pCi/L	5.68E-01	4.11E-01	1.37E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Cobalt-58	pCi/L	1.49E-01	5.14E-01	1.68E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Cobalt-60	pCi/L	2.49E-01	4.46E-01	1.54E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Iodine-131	pCi/L	2.73E-02	8.70E-01	2.96E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Iron-59	pCi/L	8.62E-01	8.50E-01	3.01E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Lanthanum-140	pCi/L	3.90E-01	7.39E-01	2.51E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Manganese-54	pCi/L	4.46E-01	4.85E-01	1.62E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Niobium-95	pCi/L	-7.79E-02	5.08E-01	1.64E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Potassium-40	pCi/L	-1.65E+01	1.10E+01	2.06E+01	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Zinc-65	pCi/L	-1.02E+00	8.91E-01	2.87E+00	U
Ground Water	9/27/2022 13:30	10/4/2022 12:12	Zirconium-95	pCi/L	6.78E-01	8.66E-01	2.90E+00	U
Ground Water	9/27/2022 13:30	10/6/2022 9:12	Tritium	pCi/L	2.68E+02	1.90E+02	5.97E+02	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Barium-140	pCi/L	-5.36E+00	3.47E+00	1.11E+01	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Beryllium-7	pCi/L	-3.46E+00	4.34E+00	1.44E+01	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Cesium-134	pCi/L	1.78E+00	9.99E-01	1.92E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Cesium-137	pCi/L	8.04E-01	5.49E-01	1.89E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Cobalt-57	pCi/L	-2.68E-01	4.42E-01	1.29E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Cobalt-58	pCi/L	5.99E-01	5.66E-01	1.90E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Cobalt-60	pCi/L	3.92E-01	5.82E-01	1.95E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Iodine-131	pCi/L	5.28E-02	2.86E+00	4.82E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Iron-59	pCi/L	1.53E+00	1.27E+00	4.39E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Lanthanum-140	pCi/L	1.08E+00	1.38E+00	4.76E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Manganese-54	pCi/L	-1.87E-01	5.39E-01	1.71E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Niobium-95	pCi/L	2.88E-01	5.43E-01	1.80E+00	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Potassium-40	pCi/L	-1.53E+01	1.03E+01	2.46E+01	U
Ground Water	12/27/2022 12:41	1/9/2023 13:30	Zinc-65	pCi/L	-2.99E-01	1.14E+00	3.72E+00	U

Ground Water	12/27/2022 12:41	1/9/2023 13:30	Zirconium-95	pCi/L	-1.68E-01	9.56E-01	3.08E+00		U
Ground Water	12/27/2022 12:41	1/21/2023 14:31	Tritium	pCi/L	2.01E+02	1.82E+02	5.63E+02		U

Sample Data For: "SS"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Sediment	5/17/2022 7:00	5/25/2022 16:40	Barium-140	pCi/kg	5.41E+01	5.42E+01	1.93E+02		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Beryllium-7	pCi/kg	8.83E+01	9.07E+01	2.97E+02		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Cesium-134	pCi/kg	-4.30E+00	1.07E+01	3.33E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Cesium-137	pCi/kg	-5.91E+00	1.00E+01	3.13E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Cobalt-57	pCi/kg	1.09E+01	7.26E+00	2.58E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Cobalt-58	pCi/kg	7.85E+00	9.30E+00	3.26E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Cobalt-60	pCi/kg	3.07E+00	1.08E+01	3.71E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Iodine-131	pCi/kg	2.06E+01	1.76E+01	6.44E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Iron-59	pCi/kg	4.20E+01	2.01E+01	8.06E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Lanthanum-140	pCi/kg	-1.09E+01	1.85E+01	4.58E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Manganese-54	pCi/kg	-2.00E+00	1.15E+01	3.65E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Niobium-95	pCi/kg	2.04E+00	1.42E+01	4.11E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Potassium-40	pCi/kg	4.19E+03	3.32E+02	2.89E+02		
Sediment	5/17/2022 7:00	5/25/2022 16:40	Zinc-65	pCi/kg	1.04E+01	2.15E+01	6.82E+01		U
Sediment	5/17/2022 7:00	5/25/2022 16:40	Zirconium-95	pCi/kg	-6.83E+00	1.85E+01	5.81E+01		U
Sediment	5/17/2022 7:00	6/16/2022 8:15	Tritium	pCi/g	1.21E-01	3.69E-01	1.17E+00		U
Sediment	5/17/2022 7:00	6/16/2022 10:19	Iron-55	pCi/g	-2.47E+01	9.63E+00	2.79E+01		U

Sample Data For: "SS-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Sediment	1/11/2022 10:52	1/14/2022 19:30	Barium-140	pCi/kg	4.97E+01	5.36E+01	1.98E+02		U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Beryllium-7	pCi/kg	2.26E+02	1.29E+02	4.57E+02		U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Cesium-134	pCi/kg	1.65E+01	1.57E+01	5.68E+01		U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Cesium-137	pCi/kg	-2.23E+01	1.58E+01	4.74E+01		U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Cobalt-57	pCi/kg	-5.50E+00	6.52E+00	2.24E+01		U

Sediment	1/11/2022 10:52	1/14/2022 19:30	Cobalt-58	pCi/kg	2.64E+00	1.36E+01	4.57E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Cobalt-60	pCi/kg	2.29E+01	1.93E+01	7.00E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Iodine-131	pCi/kg	4.97E+00	1.48E+01	5.41E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Iron-59	pCi/kg	5.49E+00	2.47E+01	7.73E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Lanthanum-140	pCi/kg	-9.62E+00	1.72E+01	5.11E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Manganese-54	pCi/kg	2.91E+01	1.23E+01	5.00E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Niobium-95	pCi/kg	-1.78E+01	1.28E+01	3.64E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Potassium-40	pCi/kg	1.30E+03	3.74E+02	4.16E+02	
Sediment	1/11/2022 10:52	1/14/2022 19:30	Zinc-65	pCi/kg	5.79E-01	3.10E+01	9.37E+01	U
Sediment	1/11/2022 10:52	1/14/2022 19:30	Zirconium-95	pCi/kg	-1.71E-01	2.59E+01	8.63E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Barium-140	pCi/kg	1.23E+02	5.16E+01	1.70E+02	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Beryllium-7	pCi/kg	-7.32E+00	6.70E+01	2.30E+02	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Cesium-134	pCi/kg	-1.73E+01	9.56E+00	2.90E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Cesium-137	pCi/kg	2.72E+01	1.06E+01	3.88E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Cobalt-57	pCi/kg	-1.16E+01	6.03E+00	1.72E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Cobalt-58	pCi/kg	-1.17E+01	7.64E+00	2.31E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Cobalt-60	pCi/kg	1.06E+01	7.92E+00	3.02E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Iodine-131	pCi/kg	-1.04E+00	1.61E+01	5.72E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Iron-59	pCi/kg	3.09E+01	1.70E+01	6.66E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Lanthanum-140	pCi/kg	-4.16E+00	1.45E+01	4.72E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Manganese-54	pCi/kg	5.07E+00	9.88E+00	3.18E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Niobium-95	pCi/kg	5.77E+00	1.12E+01	3.43E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Potassium-40	pCi/kg	3.45E+03	2.77E+02	3.23E+02	
Sediment	7/5/2022 10:06	7/15/2022 7:21	Zinc-65	pCi/kg	-1.76E+01	2.37E+01	6.35E+01	U
Sediment	7/5/2022 10:06	7/15/2022 7:21	Zirconium-95	pCi/kg	1.13E+01	1.49E+01	4.77E+01	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Barium-140	pCi/kg	-1.23E+09	2.41E+10	0.00E+00	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Beryllium-7	pCi/kg	8.03E+03	1.01E+04	3.59E+04	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Cesium-134	pCi/kg	2.82E+01	1.76E+01	6.36E+01	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Cesium-137	pCi/kg	-9.99E+00	1.13E+01	3.51E+01	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Cobalt-57	pCi/kg	5.56E+00	1.23E+01	4.42E+01	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Cobalt-58	pCi/kg	2.21E+02	3.65E+02	1.24E+03	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Cobalt-60	pCi/kg	5.45E-02	1.38E+01	4.54E+01	U

Sediment	1/10/2022 11:20	1/19/2023 13:38	Iodine-131	pCi/kg	-1.16E+14	8.05E+14	0.00E+00	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Iron-59	pCi/kg	5.52E+03	7.52E+03	2.66E+04	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Lanthanum-140	pCi/kg	4.18E+09	7.41E+09	0.00E+00	UI
Sediment	1/10/2022 11:20	1/19/2023 13:38	Manganese-54	pCi/kg	1.51E+01	2.58E+01	8.69E+01	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Niobium-95	pCi/kg	-6.82E+02	5.98E+02	1.76E+03	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Potassium-40	pCi/kg	8.10E+03	4.47E+02	3.08E+02	
Sediment	1/10/2022 11:20	1/19/2023 13:38	Zinc-65	pCi/kg	-2.30E+01	8.44E+01	2.79E+02	U
Sediment	1/10/2022 11:20	1/19/2023 13:38	Zirconium-95	pCi/kg	6.50E+02	9.43E+02	3.25E+03	U

Sample Data For: "SS-2"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Sediment	1/11/2022 11:15	1/14/2022 19:32	Barium-140	pCi/kg	1.19E+02	5.30E+01	1.97E+02		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Beryllium-7	pCi/kg	5.55E+02	2.51E+02	3.62E+02		UI
Sediment	1/11/2022 11:15	1/14/2022 19:32	Cesium-134	pCi/kg	8.50E+00	1.43E+01	4.34E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Cesium-137	pCi/kg	9.49E+01	2.09E+01	5.04E+01		M
Sediment	1/11/2022 11:15	1/14/2022 19:32	Cobalt-57	pCi/kg	5.40E+00	9.17E+00	3.04E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Cobalt-58	pCi/kg	1.21E+01	1.06E+01	3.74E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Cobalt-60	pCi/kg	3.32E+01	1.59E+01	5.85E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Iodine-131	pCi/kg	-1.10E+01	1.45E+01	4.70E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Iron-59	pCi/kg	5.18E+01	2.40E+01	9.15E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Lanthanum-140	pCi/kg	1.60E+00	1.23E+01	4.09E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Manganese-54	pCi/kg	7.70E-01	1.40E+01	4.48E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Niobium-95	pCi/kg	2.36E+01	1.72E+01	5.45E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Potassium-40	pCi/kg	8.63E+03	5.38E+02	4.69E+02		
Sediment	1/11/2022 11:15	1/14/2022 19:32	Zinc-65	pCi/kg	4.14E+01	2.55E+01	9.10E+01		U
Sediment	1/11/2022 11:15	1/14/2022 19:32	Zirconium-95	pCi/kg	8.89E+01	2.82E+01	8.32E+01		UI
Sediment	7/5/2022 11:03	7/15/2022 7:22	Barium-140	pCi/kg	2.36E+00	4.42E+01	1.52E+02		U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Beryllium-7	pCi/kg	-8.88E+01	6.67E+01	2.03E+02		U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Cesium-134	pCi/kg	-1.28E+01	1.38E+01	3.52E+01		U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Cesium-137	pCi/kg	1.33E+01	9.47E+00	3.59E+01		U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Cobalt-57	pCi/kg	-4.81E+00	4.62E+00	1.55E+01		U

Sediment	7/5/2022 11:03	7/15/2022 7:22	Cobalt-58	pCi/kg	-8.64E+00	1.12E+01	3.70E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Cobalt-60	pCi/kg	-8.14E+00	1.01E+01	2.95E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Iodine-131	pCi/kg	1.78E+01	1.94E+01	6.34E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Iron-59	pCi/kg	1.87E+01	2.62E+01	9.45E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Lanthanum-140	pCi/kg	-1.10E+01	2.58E+01	7.95E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Manganese-54	pCi/kg	-1.67E+01	9.20E+00	1.99E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Niobium-95	pCi/kg	-1.16E+01	1.18E+01	3.53E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Potassium-40	pCi/kg	1.95E+03	3.26E+02	3.77E+02	
Sediment	7/5/2022 11:03	7/15/2022 7:22	Zinc-65	pCi/kg	4.00E+00	2.30E+01	7.96E+01	U
Sediment	7/5/2022 11:03	7/15/2022 7:22	Zirconium-95	pCi/kg	-2.51E-01	1.92E+01	5.61E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Barium-140	pCi/kg	-1.05E+09	1.10E+10	0.00E+00	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Beryllium-7	pCi/kg	3.87E+04	1.09E+04	1.82E+04	
Sediment	1/10/2022 12:18	1/19/2023 17:07	Cesium-134	pCi/kg	5.62E+00	9.29E+00	3.31E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Cesium-137	pCi/kg	-4.40E+00	4.40E+00	1.40E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Cobalt-57	pCi/kg	1.10E-01	6.69E+00	2.45E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Cobalt-58	pCi/kg	4.09E+02	1.44E+02	6.12E+02	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Cobalt-60	pCi/kg	6.41E-01	6.94E+00	2.26E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Iodine-131	pCi/kg	-1.61E+14	4.62E+14	0.00E+00	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Iron-59	pCi/kg	-2.87E+03	3.26E+03	8.12E+03	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Lanthanum-140	pCi/kg	-5.76E+09	5.24E+09	0.00E+00	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Manganese-54	pCi/kg	1.41E+01	1.20E+01	4.32E+01	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Niobium-95	pCi/kg	-6.13E+02	3.07E+02	8.09E+02	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Potassium-40	pCi/kg	1.83E+03	1.90E+02	1.72E+02	
Sediment	1/10/2022 12:18	1/19/2023 17:07	Zinc-65	pCi/kg	3.98E+01	3.03E+01	1.07E+02	U
Sediment	1/10/2022 12:18	1/19/2023 17:07	Zirconium-95	pCi/kg	-4.56E+02	5.02E+02	1.60E+03	U

Sample Data For: "SS-3"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Sediment	1/11/2022 11:54	1/14/2022 19:31	Barium-140	pCi/kg	-2.16E+01	2.87E+01	9.14E+01		U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Beryllium-7	pCi/kg	8.94E+01	5.65E+01	2.19E+02		U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Cesium-134	pCi/kg	1.35E+01	9.47E+00	3.65E+01		U

Sediment	1/11/2022 11:54	1/14/2022 19:31	Cesium-137	pCi/kg	-8.30E+00	8.43E+00	2.55E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Cobalt-57	pCi/kg	-4.39E+00	4.98E+00	1.70E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Cobalt-58	pCi/kg	-7.05E+00	7.50E+00	2.40E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Cobalt-60	pCi/kg	1.73E+01	6.11E+00	3.18E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Iodine-131	pCi/kg	1.24E+01	1.75E+01	3.19E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Iron-59	pCi/kg	1.27E+01	1.52E+01	5.58E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Lanthanum-140	pCi/kg	-3.67E+00	1.28E+01	4.19E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Manganese-54	pCi/kg	9.56E-01	6.86E+00	2.42E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Niobium-95	pCi/kg	4.44E+00	8.20E+00	3.00E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Potassium-40	pCi/kg	1.17E+03	2.18E+02	2.45E+02	
Sediment	1/11/2022 11:54	1/14/2022 19:31	Zinc-65	pCi/kg	-2.60E+01	1.34E+01	3.07E+01	U
Sediment	1/11/2022 11:54	1/14/2022 19:31	Zirconium-95	pCi/kg	-7.52E-01	1.30E+01	4.22E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Barium-140	pCi/kg	-4.37E+01	5.89E+01	1.87E+02	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Beryllium-7	pCi/kg	7.72E+01	8.69E+01	2.96E+02	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Cesium-134	pCi/kg	-1.53E-01	1.26E+01	4.41E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Cesium-137	pCi/kg	7.02E+00	9.76E+00	3.51E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Cobalt-57	pCi/kg	-3.06E+00	4.45E+00	1.55E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Cobalt-58	pCi/kg	1.50E+01	1.13E+01	4.41E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Cobalt-60	pCi/kg	1.06E+01	1.13E+01	4.21E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Iodine-131	pCi/kg	2.19E+01	2.01E+01	7.64E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Iron-59	pCi/kg	-3.89E+01	2.43E+01	6.53E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Lanthanum-140	pCi/kg	-2.90E+01	2.50E+01	7.14E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Manganese-54	pCi/kg	-1.07E+01	6.91E+00	1.82E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Niobium-95	pCi/kg	1.37E+01	1.21E+01	4.41E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Potassium-40	pCi/kg	2.23E+03	3.13E+02	3.27E+02	
Sediment	7/5/2022 10:22	7/15/2022 7:22	Zinc-65	pCi/kg	1.03E+00	2.56E+01	7.61E+01	U
Sediment	7/5/2022 10:22	7/15/2022 7:22	Zirconium-95	pCi/kg	-3.29E+01	2.11E+01	5.64E+01	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Barium-140	pCi/kg	-3.54E+09	1.82E+10	0.00E+00	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Beryllium-7	pCi/kg	5.56E+04	1.64E+04	2.36E+04	
Sediment	1/10/2022 11:47	1/19/2023 13:38	Cesium-134	pCi/kg	1.16E+01	1.25E+01	4.33E+01	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Cesium-137	pCi/kg	8.60E+00	9.34E+00	3.09E+01	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Cobalt-57	pCi/kg	9.87E-03	1.08E+01	3.95E+01	U

Sediment	1/10/2022 11:47	1/19/2023 13:38	Cobalt-58	pCi/kg	-3.97E+01	2.90E+02	9.86E+02	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Cobalt-60	pCi/kg	-2.76E+01	1.62E+01	3.48E+01	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Iodine-131	pCi/kg	-1.12E+15	6.57E+14	0.00E+00	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Iron-59	pCi/kg	-2.43E+03	4.79E+03	1.46E+04	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Lanthanum-140	pCi/kg	-3.96E+09	8.76E+09	0.00E+00	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Manganese-54	pCi/kg	-3.64E+01	2.41E+01	5.82E+01	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Niobium-95	pCi/kg	8.50E+01	4.44E+02	1.57E+03	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Potassium-40	pCi/kg	2.30E+03	2.88E+02	2.23E+02	
Sediment	1/10/2022 11:47	1/19/2023 13:38	Zinc-65	pCi/kg	1.23E+02	9.59E+01	2.35E+02	U
Sediment	1/10/2022 11:47	1/19/2023 13:38	Zirconium-95	pCi/kg	-1.00E+03	9.50E+02	3.03E+03	U

Sample Data For: "SS-4"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Sediment	1/11/2022 10:15	1/14/2022 19:29	Barium-140	pCi/kg	6.33E+01	4.77E+01	1.76E+02		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Beryllium-7	pCi/kg	5.81E+02	2.48E+02	3.15E+02		UI
Sediment	1/11/2022 10:15	1/14/2022 19:29	Cesium-134	pCi/kg	3.19E+01	1.48E+01	5.38E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Cesium-137	pCi/kg	3.81E+01	2.34E+01	5.01E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Cobalt-57	pCi/kg	1.07E+01	8.78E+00	3.14E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Cobalt-58	pCi/kg	-1.71E+01	1.18E+01	3.26E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Cobalt-60	pCi/kg	7.94E+00	1.50E+01	5.30E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Iodine-131	pCi/kg	-4.46E+00	1.46E+01	5.01E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Iron-59	pCi/kg	3.93E+01	2.52E+01	9.57E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Lanthanum-140	pCi/kg	2.95E+01	2.04E+01	7.77E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Manganese-54	pCi/kg	2.63E+01	1.34E+01	5.06E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Niobium-95	pCi/kg	8.25E+00	1.55E+01	4.78E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Potassium-40	pCi/kg	6.36E+03	4.80E+02	3.88E+02		
Sediment	1/11/2022 10:15	1/14/2022 19:29	Zinc-65	pCi/kg	-2.38E+01	2.90E+01	7.67E+01		U
Sediment	1/11/2022 10:15	1/14/2022 19:29	Zirconium-95	pCi/kg	3.56E+00	2.28E+01	7.59E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Barium-140	pCi/kg	3.65E+01	5.80E+01	2.05E+02		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Beryllium-7	pCi/kg	-1.15E+01	9.78E+01	3.30E+02		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Cesium-134	pCi/kg	2.11E+01	1.04E+01	4.08E+01		U

Sediment	7/5/2022 9:12	7/15/2022 7:15	Cesium-137	pCi/kg	3.60E+01	1.74E+01	4.33E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Cobalt-57	pCi/kg	9.27E+00	8.15E+00	2.88E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Cobalt-58	pCi/kg	9.45E-01	1.25E+01	4.08E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Cobalt-60	pCi/kg	3.10E+00	1.25E+01	4.29E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Iodine-131	pCi/kg	2.89E+01	2.44E+01	8.95E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Iron-59	pCi/kg	-2.67E+01	2.75E+01	8.53E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Lanthanum-140	pCi/kg	2.77E+01	2.35E+01	8.82E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Manganese-54	pCi/kg	1.01E+01	1.39E+01	4.76E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Niobium-95	pCi/kg	8.04E+00	1.33E+01	4.14E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Potassium-40	pCi/kg	5.35E+03	4.25E+02	3.65E+02		
Sediment	7/5/2022 9:12	7/15/2022 7:15	Zinc-65	pCi/kg	-5.71E+01	2.72E+01	6.23E+01		U
Sediment	7/5/2022 9:12	7/15/2022 7:15	Zirconium-95	pCi/kg	5.85E+01	3.41E+01	9.13E+01		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Barium-140	pCi/kg	-2.19E+10	4.09E+10	0.00E+00		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Beryllium-7	pCi/kg	3.36E+04	2.06E+04	7.33E+04		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Cesium-134	pCi/kg	8.19E+01	2.93E+01	1.16E+02		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Cesium-137	pCi/kg	2.28E+01	2.15E+01	7.33E+01		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Cobalt-57	pCi/kg	1.51E+01	2.48E+01	8.55E+01		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Cobalt-58	pCi/kg	8.07E+02	5.76E+02	2.01E+03		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Cobalt-60	pCi/kg	-1.30E+01	3.41E+01	9.43E+01		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Iodine-131	pCi/kg	-5.73E+14	1.61E+15	0.00E+00		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Iron-59	pCi/kg	6.26E+03	1.21E+04	4.11E+04		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Lanthanum-140	pCi/kg	-1.21E+10	1.51E+10	0.00E+00		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Manganese-54	pCi/kg	1.13E+02	5.09E+01	1.91E+02		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Niobium-95	pCi/kg	1.48E+03	1.15E+03	4.16E+03		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Potassium-40	pCi/kg	1.18E+04	7.55E+02	6.46E+02		
Sediment	1/10/2022 10:19	1/19/2023 10:50	Zinc-65	pCi/kg	4.24E+01	1.41E+02	4.13E+02		U
Sediment	1/10/2022 10:19	1/19/2023 10:50	Zirconium-95	pCi/kg	2.06E+03	1.78E+03	6.46E+03		U

Sample Data For: "SW-1"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Barium-140	pCi/L	1.64E+00	3.45E+00	1.13E+01		U

Surface Water	1/25/2022 10:55	2/2/2022 12:27	Beryllium-7	pCi/L	-2.52E+00	5.42E+00	1.73E+01	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Cesium-134	pCi/L	6.66E-02	6.84E-01	2.25E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Cesium-137	pCi/L	2.34E-01	7.10E-01	2.29E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Cobalt-57	pCi/L	-1.54E-01	3.90E-01	1.33E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Cobalt-58	pCi/L	9.21E-01	6.93E-01	2.39E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Cobalt-60	pCi/L	9.16E-01	6.85E-01	2.41E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Iodine-131	pCi/L	-8.88E-01	1.16E+00	3.74E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Iron-59	pCi/L	-1.09E+00	1.45E+00	4.64E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Lanthanum-140	pCi/L	-2.07E+00	1.23E+00	3.53E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Manganese-54	pCi/L	1.21E-01	6.63E-01	2.25E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Niobium-95	pCi/L	-4.92E-01	6.74E-01	2.23E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Potassium-40	pCi/L	6.76E+01	1.48E+01	2.31E+01	
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Zinc-65	pCi/L	-3.86E+00	1.97E+00	4.55E+00	U
Surface Water	1/25/2022 10:55	2/2/2022 12:27	Zirconium-95	pCi/L	-7.15E-01	1.16E+00	3.86E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Barium-140	pCi/L	4.67E+00	3.35E+00	1.16E+01	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Beryllium-7	pCi/L	4.45E+00	4.39E+00	1.45E+01	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Cesium-134	pCi/L	-8.56E-03	5.48E-01	1.77E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Cesium-137	pCi/L	-1.08E+00	7.84E-01	1.46E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Cobalt-57	pCi/L	1.01E-01	4.15E-01	1.36E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Cobalt-58	pCi/L	-1.76E-01	5.08E-01	1.62E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Cobalt-60	pCi/L	-1.84E-01	4.13E-01	1.35E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Iodine-131	pCi/L	-3.01E-01	1.46E+00	4.95E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Iron-59	pCi/L	-1.47E+00	1.00E+00	2.71E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Lanthanum-140	pCi/L	6.66E-02	1.13E+00	3.27E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Manganese-54	pCi/L	9.30E-01	5.16E-01	1.77E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Niobium-95	pCi/L	1.31E-01	5.37E-01	1.76E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Potassium-40	pCi/L	1.80E+01	1.04E+01	1.47E+01	UI
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Zinc-65	pCi/L	1.02E+00	9.04E-01	2.91E+00	U
Surface Water	2/22/2022 9:05	3/7/2022 13:26	Zirconium-95	pCi/L	4.73E-01	9.87E-01	3.26E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Barium-140	pCi/L	6.07E+00	2.28E+00	8.41E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Beryllium-7	pCi/L	-2.18E+00	3.72E+00	1.24E+01	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Cesium-134	pCi/L	-2.12E-01	4.85E-01	1.56E+00	U

Surface Water	3/29/2022 9:51	4/6/2022 17:44	Cesium-137	pCi/L	-1.91E+00	8.25E-01	1.29E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Cobalt-57	pCi/L	1.28E-01	3.51E-01	1.16E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Cobalt-58	pCi/L	9.76E-02	4.84E-01	1.44E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Cobalt-60	pCi/L	-3.24E-01	4.07E-01	1.31E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Iodine-131	pCi/L	-2.25E-02	9.79E-01	2.79E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Iron-59	pCi/L	2.94E-02	9.59E-01	3.09E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Lanthanum-140	pCi/L	-7.47E-01	6.65E-01	2.03E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Manganese-54	pCi/L	4.99E-02	4.30E-01	1.42E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Niobium-95	pCi/L	4.47E-01	4.18E-01	1.45E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Potassium-40	pCi/L	7.51E+00	1.30E+01	1.43E+01	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Zinc-65	pCi/L	-1.76E+00	1.03E+00	2.49E+00	U
Surface Water	3/29/2022 9:51	4/6/2022 17:44	Zirconium-95	pCi/L	8.63E-01	7.60E-01	2.64E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Barium-140	pCi/L	9.67E-01	3.92E+00	1.29E+01	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Beryllium-7	pCi/L	-2.61E+00	4.59E+00	1.48E+01	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Cesium-134	pCi/L	-8.90E-03	6.09E-01	1.93E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Cesium-137	pCi/L	-1.49E-01	9.66E-01	2.08E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Cobalt-57	pCi/L	-2.12E-01	5.57E-01	1.16E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Cobalt-58	pCi/L	-1.13E-01	5.55E-01	1.87E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Cobalt-60	pCi/L	-1.38E-01	5.87E-01	1.89E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Iodine-131	pCi/L	-7.13E-01	1.72E+00	5.08E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Iron-59	pCi/L	3.20E+00	1.28E+00	4.75E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Lanthanum-140	pCi/L	-2.02E-01	1.41E+00	4.48E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Manganese-54	pCi/L	-4.19E-01	6.23E-01	1.80E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Niobium-95	pCi/L	-4.19E-01	9.41E-01	2.22E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Potassium-40	pCi/L	2.70E+01	1.64E+01	1.67E+01	UI
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Zinc-65	pCi/L	1.40E+00	1.20E+00	4.19E+00	U
Surface Water	4/26/2022 9:03	5/10/2022 14:40	Zirconium-95	pCi/L	-1.27E+00	1.13E+00	2.95E+00	U
Surface Water	3/29/2022 9:51	5/18/2022 10:00	Tritium	pCi/L	1.31E+04	4.58E+02	7.42E+02	
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Barium-140	pCi/L	1.89E+00	3.45E+00	1.17E+01	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Beryllium-7	pCi/L	3.29E+00	4.85E+00	1.65E+01	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Cesium-134	pCi/L	1.61E-02	5.94E-01	1.91E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Cesium-137	pCi/L	-1.88E-01	5.42E-01	1.73E+00	U

Surface Water	5/31/2022 9:19	6/11/2022 22:06	Cobalt-57	pCi/L	-3.26E-02	4.56E-01	1.47E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Cobalt-58	pCi/L	-1.02E-01	5.22E-01	1.65E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Cobalt-60	pCi/L	5.89E-01	5.99E-01	1.92E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Iodine-131	pCi/L	-2.62E+00	1.38E+00	4.36E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Iron-59	pCi/L	-1.84E+00	1.23E+00	3.15E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Lanthanum-140	pCi/L	3.18E+00	2.03E+00	3.67E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Manganese-54	pCi/L	-1.82E-01	5.45E-01	1.71E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Niobium-95	pCi/L	-5.82E-01	5.67E-01	1.72E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Potassium-40	pCi/L	6.37E+00	1.68E+01	1.77E+01	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Zinc-65	pCi/L	2.73E-01	1.23E+00	3.73E+00	U
Surface Water	5/31/2022 9:19	6/11/2022 22:06	Zirconium-95	pCi/L	-5.33E-01	9.92E-01	3.09E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Barium-140	pCi/L	-4.39E-01	2.57E+00	8.41E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Beryllium-7	pCi/L	-8.80E-01	3.84E+00	1.27E+01	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Cesium-134	pCi/L	-4.79E-02	5.10E-01	1.63E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Cesium-137	pCi/L	1.38E+00	4.45E-01	1.53E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Cobalt-57	pCi/L	-7.91E-01	3.83E-01	1.18E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Cobalt-58	pCi/L	3.05E-01	4.74E-01	1.57E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Cobalt-60	pCi/L	4.48E-01	4.62E-01	1.62E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Iodine-131	pCi/L	7.40E-02	9.74E-01	3.29E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Iron-59	pCi/L	-5.11E-01	9.43E-01	3.10E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Lanthanum-140	pCi/L	2.26E-01	9.30E-01	3.09E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Manganese-54	pCi/L	1.36E-01	5.06E-01	1.46E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Niobium-95	pCi/L	1.97E-01	4.62E-01	1.52E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Potassium-40	pCi/L	1.38E+01	1.10E+01	1.49E+01	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Zinc-65	pCi/L	-5.79E-01	8.87E-01	2.89E+00	U
Surface Water	6/28/2022 9:20	7/8/2022 17:39	Zirconium-95	pCi/L	-5.96E-01	8.25E-01	2.57E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Barium-140	pCi/L	-4.92E-01	2.63E+00	8.61E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Beryllium-7	pCi/L	-3.81E+00	4.23E+00	1.37E+01	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Cesium-134	pCi/L	2.24E-01	5.46E-01	1.78E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Cesium-137	pCi/L	4.64E-01	5.28E-01	1.77E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Cobalt-57	pCi/L	1.85E-02	4.26E-01	1.40E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Cobalt-58	pCi/L	3.86E-02	5.09E-01	1.63E+00	U

Surface Water	7/26/2022 8:22	8/3/2022 16:15	Cobalt-60	pCi/L	1.84E-01	4.74E-01	1.60E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Iodine-131	pCi/L	1.38E-01	9.30E-01	3.17E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Iron-59	pCi/L	-8.04E-02	1.03E+00	3.42E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Lanthanum-140	pCi/L	5.87E-01	9.83E-01	3.30E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Manganese-54	pCi/L	2.77E+00	9.80E-01	1.37E+00	UI
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Niobium-95	pCi/L	3.13E-01	5.33E-01	1.75E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Potassium-40	pCi/L	3.64E+01	1.64E+01	1.52E+01	
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Zinc-65	pCi/L	-8.83E-01	1.23E+00	3.44E+00	U
Surface Water	7/26/2022 8:22	8/3/2022 16:15	Zirconium-95	pCi/L	3.86E+00	1.49E+00	3.26E+00	UI
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Barium-140	pCi/L	-4.47E+00	3.89E+00	7.11E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Beryllium-7	pCi/L	-1.76E+00	3.46E+00	1.15E+01	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Cesium-134	pCi/L	-1.69E-01	4.35E-01	1.40E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Cesium-137	pCi/L	1.56E-01	3.92E-01	1.32E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Cobalt-57	pCi/L	1.43E-02	3.57E-01	1.18E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Cobalt-58	pCi/L	-6.22E-02	4.18E-01	1.36E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Cobalt-60	pCi/L	-4.32E-03	4.39E-01	1.48E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Iodine-131	pCi/L	-3.70E-01	6.75E-01	2.28E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Iron-59	pCi/L	-1.35E+00	9.72E-01	2.87E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Lanthanum-140	pCi/L	-1.16E+00	7.69E-01	2.33E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Manganese-54	pCi/L	-4.46E-01	4.35E-01	1.35E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Niobium-95	pCi/L	-1.90E-01	3.80E-01	1.22E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Potassium-40	pCi/L	-1.15E+01	8.66E+00	2.50E+01	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Zinc-65	pCi/L	7.46E-01	8.83E-01	2.94E+00	U
Surface Water	8/30/2022 8:44	9/6/2022 13:13	Zirconium-95	pCi/L	-1.91E+00	1.21E+00	2.47E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Barium-140	pCi/L	8.72E-01	2.42E+00	8.32E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Beryllium-7	pCi/L	3.31E+00	4.54E+00	1.48E+01	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Cesium-134	pCi/L	6.83E-01	5.65E-01	1.96E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Cesium-137	pCi/L	1.17E+00	5.61E-01	2.01E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Cobalt-57	pCi/L	-6.32E-02	4.43E-01	1.52E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Cobalt-58	pCi/L	-4.42E-01	4.62E-01	1.46E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Cobalt-60	pCi/L	-5.88E-01	5.77E-01	1.85E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Iodine-131	pCi/L	-1.88E+00	9.46E-01	2.89E+00	U

Surface Water	9/27/2022 10:42	10/4/2022 13:41	Iron-59	pCi/L	2.04E+00	1.14E+00	3.98E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Lanthanum-140	pCi/L	4.17E-01	9.62E-01	2.87E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Manganese-54	pCi/L	-4.57E-01	4.85E-01	1.54E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Niobium-95	pCi/L	1.96E+00	1.18E+00	1.68E+00	UI
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Potassium-40	pCi/L	-1.42E+01	1.18E+01	2.78E+01	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Zinc-65	pCi/L	2.10E-01	1.28E+00	3.63E+00	U
Surface Water	9/27/2022 10:42	10/4/2022 13:41	Zirconium-95	pCi/L	-6.51E-01	9.11E-01	2.94E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Barium-140	pCi/L	1.93E+00	3.14E+00	1.07E+01	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Beryllium-7	pCi/L	2.03E+00	4.02E+00	1.38E+01	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Cesium-134	pCi/L	5.26E-01	5.28E-01	1.80E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Cesium-137	pCi/L	-8.71E-02	7.02E-01	1.77E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Cobalt-57	pCi/L	1.06E+00	4.37E-01	1.50E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Cobalt-58	pCi/L	-1.01E+00	6.22E-01	1.55E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Cobalt-60	pCi/L	9.50E-01	4.83E-01	1.81E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Iodine-131	pCi/L	7.25E-01	1.36E+00	4.73E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Iron-59	pCi/L	4.32E-01	1.01E+00	3.31E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Lanthanum-140	pCi/L	4.82E+00	1.24E+00	3.72E+00	UI
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Manganese-54	pCi/L	-2.93E-01	4.55E-01	1.42E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Niobium-95	pCi/L	3.51E-01	5.23E-01	1.76E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Potassium-40	pCi/L	2.31E+01	1.47E+01	1.59E+01	UI
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Zinc-65	pCi/L	9.02E-01	9.81E-01	3.30E+00	U
Surface Water	10/25/2022 10:46	11/7/2022 17:01	Zirconium-95	pCi/L	-1.17E-01	8.52E-01	2.76E+00	U
Surface Water	7/26/2022 8:22	11/12/2022 6:34	Tritium	pCi/L	9.66E+03	4.58E+02	5.39E+02	
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Barium-140	pCi/L	-6.03E-01	2.43E+00	7.88E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Beryllium-7	pCi/L	2.77E-01	3.71E+00	1.23E+01	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Cesium-134	pCi/L	6.16E-01	4.81E-01	1.62E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Cesium-137	pCi/L	3.02E-01	4.82E-01	1.59E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Cobalt-57	pCi/L	-3.73E-01	3.93E-01	1.24E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Cobalt-58	pCi/L	-1.21E-01	4.80E-01	1.50E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Cobalt-60	pCi/L	3.84E-01	4.78E-01	1.63E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Iodine-131	pCi/L	-1.41E+00	1.52E+00	2.92E+00	U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Iron-59	pCi/L	-1.09E+00	9.57E-01	3.02E+00	U

Surface Water	11/29/2022 10:27	12/8/2022 16:13	Lanthanum-140	pCi/L	-1.42E-01	8.42E-01	2.33E+00		U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Manganese-54	pCi/L	-1.11E-01	4.34E-01	1.46E+00		U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Niobium-95	pCi/L	5.77E-02	4.83E-01	1.55E+00		U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Potassium-40	pCi/L	5.80E-01	1.06E+01	1.33E+01		U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Zinc-65	pCi/L	2.65E+00	1.74E+00	3.12E+00		U
Surface Water	11/29/2022 10:27	12/8/2022 16:13	Zirconium-95	pCi/L	-2.72E-01	8.04E-01	2.52E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Barium-140	pCi/L	4.58E+00	2.91E+00	9.98E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Beryllium-7	pCi/L	-7.81E-02	3.87E+00	1.29E+01		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Cesium-134	pCi/L	-6.87E-02	4.60E-01	1.47E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Cesium-137	pCi/L	4.81E-01	3.98E-01	1.35E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Cobalt-57	pCi/L	-7.32E-01	4.16E-01	1.19E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Cobalt-58	pCi/L	2.23E-01	4.37E-01	1.43E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Cobalt-60	pCi/L	4.35E-01	4.12E-01	1.43E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Iodine-131	pCi/L	1.59E+00	1.94E+00	4.00E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Iron-59	pCi/L	-1.43E+00	8.58E-01	2.70E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Lanthanum-140	pCi/L	-9.71E-01	8.80E-01	2.71E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Manganese-54	pCi/L	2.99E-01	4.14E-01	1.36E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Niobium-95	pCi/L	1.08E-01	4.68E-01	1.52E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Potassium-40	pCi/L	7.84E+00	1.21E+01	1.28E+01		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Zinc-65	pCi/L	5.71E-01	8.28E-01	2.56E+00		U
Surface Water	12/27/2022 12:35	1/9/2023 13:33	Zirconium-95	pCi/L	4.78E-02	7.72E-01	2.49E+00		U
Surface Water	12/27/2022 12:35	2/11/2023 5:27	Tritium	pCi/L	1.02E+04	4.71E+02	5.77E+02		

Sample Data For: "SW-2"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Barium-140	pCi/L	3.93E+00	2.16E+00	7.13E+00		U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Beryllium-7	pCi/L	2.22E+00	3.46E+00	1.20E+01		U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Cesium-134	pCi/L	6.96E-01	4.53E-01	1.58E+00		U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Cesium-137	pCi/L	5.92E-01	4.10E-01	1.44E+00		U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Cobalt-57	pCi/L	-4.98E-02	3.65E-01	1.20E+00		U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Cobalt-58	pCi/L	6.14E-02	4.33E-01	1.42E+00		U

Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Cobalt-60	pCi/L	3.47E-01	4.69E-01	1.48E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Iodine-131	pCi/L	1.16E-01	7.54E-01	2.60E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Iron-59	pCi/L	-1.06E+00	9.91E-01	2.97E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Lanthanum-140	pCi/L	4.43E-01	8.52E-01	2.61E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Manganese-54	pCi/L	-7.12E-01	4.50E-01	1.36E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Niobium-95	pCi/L	-5.17E-01	4.29E-01	1.33E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Potassium-40	pCi/L	-9.73E+00	9.40E+00	2.45E+01	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Zinc-65	pCi/L	-1.92E+00	1.04E+00	2.97E+00	U
Surface Drinking	1/25/2022 11:52	2/2/2022 12:26	Zirconium-95	pCi/L	1.22E+00	9.78E-01	2.59E+00	U
Surface Drinking	1/25/2022 11:52	2/8/2022 18:32	Iodine-131	pCi/L	-5.81E-02	2.74E-01	9.06E-01	U
Surface Drinking	1/25/2022 11:52	2/17/2022 18:18	BETA	pCi/L	6.89E+00	9.53E-01	2.67E+00	
Surface Drinking	2/22/2022 10:31	3/3/2022 16:16	Iodine-131	pCi/L	-2.28E-01	1.96E-01	6.09E-01	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Barium-140	pCi/L	-2.59E-01	3.21E+00	1.06E+01	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Beryllium-7	pCi/L	1.19E+00	4.87E+00	1.64E+01	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Cesium-134	pCi/L	-1.00E-01	5.39E-01	1.72E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Cesium-137	pCi/L	-3.36E-01	5.32E-01	1.69E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Cobalt-57	pCi/L	-7.69E-01	4.94E-01	1.55E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Cobalt-58	pCi/L	4.07E-01	5.22E-01	1.74E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Cobalt-60	pCi/L	-2.52E-01	5.87E-01	1.66E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Iodine-131	pCi/L	-7.36E-01	1.53E+00	4.88E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Iron-59	pCi/L	1.63E+00	1.06E+00	3.85E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Lanthanum-140	pCi/L	5.51E-01	1.38E+00	4.09E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Manganese-54	pCi/L	-5.71E-03	4.63E-01	1.49E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Niobium-95	pCi/L	-5.77E-01	9.55E-01	1.85E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Potassium-40	pCi/L	-1.07E+01	1.16E+01	3.04E+01	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Zinc-65	pCi/L	-1.08E+00	1.01E+00	3.21E+00	U
Surface Drinking	2/22/2022 10:31	3/7/2022 13:28	Zirconium-95	pCi/L	-8.70E-03	9.55E-01	3.09E+00	U
Surface Drinking	2/22/2022 10:31	3/11/2022 18:40	BETA	pCi/L	8.52E+00	1.02E+00	2.81E+00	
Surface Drinking	3/29/2022 10:49	4/5/2022 18:47	Iodine-131	pCi/L	-3.88E-01	1.84E-01	5.74E-01	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Barium-140	pCi/L	6.64E+00	2.97E+00	1.06E+01	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Beryllium-7	pCi/L	-2.47E+00	4.86E+00	1.57E+01	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Cesium-134	pCi/L	-9.24E-01	7.25E-01	2.14E+00	U

Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Cesium-137	pCi/L	7.86E-01	6.87E-01	2.32E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Cobalt-57	pCi/L	5.13E-02	3.78E-01	1.22E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Cobalt-58	pCi/L	-7.05E-02	6.11E-01	2.07E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Cobalt-60	pCi/L	-2.83E-01	7.19E-01	2.30E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Iodine-131	pCi/L	9.18E-01	1.08E+00	3.73E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Iron-59	pCi/L	-2.60E-01	1.43E+00	4.71E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Lanthanum-140	pCi/L	-8.73E-01	1.19E+00	3.60E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Manganese-54	pCi/L	3.39E-01	7.14E-01	2.20E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Niobium-95	pCi/L	-1.90E+00	1.22E+00	2.43E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Potassium-40	pCi/L	3.13E+01	1.95E+01	2.16E+01	UI
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Zinc-65	pCi/L	-2.02E+00	1.28E+00	3.87E+00	U
Surface Drinking	3/29/2022 10:49	4/6/2022 17:41	Zirconium-95	pCi/L	6.02E-01	1.21E+00	3.94E+00	U
Surface Drinking	3/29/2022 10:49	4/15/2022 18:59	BETA	pCi/L	1.65E+01	1.23E+00	3.31E+00	
Surface Drinking	4/26/2022 9:58	5/6/2022 7:44	Iodine-131	pCi/L	1.06E-01	1.73E-01	5.94E-01	U
Surface Drinking	4/26/2022 9:58	5/9/2022 19:10	BETA	pCi/L	5.82E+00	9.74E-01	2.86E+00	DL
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Barium-140	pCi/L	4.18E+00	3.39E+00	1.15E+01	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Beryllium-7	pCi/L	-3.88E-01	4.35E+00	1.42E+01	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Cesium-134	pCi/L	4.34E-01	4.79E-01	1.67E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Cesium-137	pCi/L	9.20E-01	1.21E+00	1.58E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Cobalt-57	pCi/L	-1.08E-01	4.00E-01	1.29E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Cobalt-58	pCi/L	-3.10E-01	4.62E-01	1.52E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Cobalt-60	pCi/L	1.81E-01	4.24E-01	1.41E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Iodine-131	pCi/L	-2.46E+00	2.46E+00	4.90E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Iron-59	pCi/L	-2.23E+00	2.32E+00	3.09E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Lanthanum-140	pCi/L	-6.76E-01	1.10E+00	3.59E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Manganese-54	pCi/L	3.16E-01	4.03E-01	1.40E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Niobium-95	pCi/L	-5.85E-01	6.94E-01	1.70E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Potassium-40	pCi/L	8.39E+00	1.44E+01	1.26E+01	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Zinc-65	pCi/L	-1.55E+00	1.10E+00	2.87E+00	U
Surface Drinking	4/26/2022 9:58	5/10/2022 14:46	Zirconium-95	pCi/L	-1.37E+00	8.15E-01	2.60E+00	U
Surface Drinking	3/29/2022 10:49	5/18/2022 11:03	Tritium	pCi/L	-2.39E+02	2.14E+02	7.25E+02	U
Surface Drinking	5/31/2022 10:21	6/10/2022 18:06	Iodine-131	pCi/L	3.65E-02	1.87E-01	6.37E-01	U

Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Barium-140	pCi/L	-4.35E+00	3.33E+00	1.07E+01	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Beryllium-7	pCi/L	6.12E+00	4.98E+00	1.75E+01	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Cesium-134	pCi/L	2.84E-01	6.85E-01	2.02E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Cesium-137	pCi/L	8.88E-01	6.09E-01	2.12E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Cobalt-57	pCi/L	-3.33E-01	4.71E-01	1.57E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Cobalt-58	pCi/L	5.14E-01	5.29E-01	1.81E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Cobalt-60	pCi/L	-6.04E-01	8.08E-01	1.95E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Iodine-131	pCi/L	-1.59E+00	1.50E+00	4.65E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Iron-59	pCi/L	-6.46E-01	1.17E+00	3.63E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Lanthanum-140	pCi/L	-1.48E+00	1.22E+00	3.72E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Manganese-54	pCi/L	2.31E-01	5.14E-01	1.72E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Niobium-95	pCi/L	1.11E-01	5.47E-01	1.82E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Potassium-40	pCi/L	1.90E+00	1.57E+01	2.27E+01	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Zinc-65	pCi/L	-7.43E-02	1.28E+00	4.10E+00	U
Surface Drinking	5/31/2022 10:21	6/11/2022 21:54	Zirconium-95	pCi/L	1.73E+00	1.03E+00	3.62E+00	U
Surface Drinking	5/31/2022 10:21	6/17/2022 18:58	BETA	pCi/L	7.73E+00	8.58E-01	2.35E+00	
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Barium-140	pCi/L	2.27E+00	2.50E+00	8.50E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Beryllium-7	pCi/L	-1.76E-01	3.97E+00	1.31E+01	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Cesium-134	pCi/L	2.23E-01	4.95E-01	1.62E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Cesium-137	pCi/L	-1.11E+00	8.12E-01	1.61E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Cobalt-57	pCi/L	-4.46E-02	3.83E-01	1.23E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Cobalt-58	pCi/L	6.38E-01	7.38E-01	1.55E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Cobalt-60	pCi/L	1.05E-02	4.83E-01	1.59E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Iodine-131	pCi/L	6.34E-02	1.01E+00	3.42E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Iron-59	pCi/L	3.69E-01	9.04E-01	3.09E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Lanthanum-140	pCi/L	-5.42E-01	8.64E-01	2.68E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Manganese-54	pCi/L	-9.74E-01	4.80E-01	1.37E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Niobium-95	pCi/L	-2.36E-02	4.68E-01	1.49E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Potassium-40	pCi/L	4.09E+00	1.39E+01	1.85E+01	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Zinc-65	pCi/L	2.58E+00	1.01E+00	3.75E+00	U
Surface Drinking	7/26/2022 9:41	8/4/2022 16:12	Zirconium-95	pCi/L	6.50E-02	8.75E-01	2.81E+00	U
Surface Drinking	7/26/2022 9:41	8/5/2022 18:40	Iodine-131	pCi/L	6.49E-01	2.74E-01	8.67E-01	U

Surface Drinking	7/26/2022 9:41	8/23/2022 19:22	BETA	pCi/L	3.54E+01	1.41E+00	3.07E+00	
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Barium-140	pCi/L	1.84E+00	2.17E+00	7.25E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Beryllium-7	pCi/L	2.06E+00	3.62E+00	1.21E+01	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Cesium-134	pCi/L	-5.33E-01	4.54E-01	1.47E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Cesium-137	pCi/L	-1.16E+00	9.96E-01	2.43E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Cobalt-57	pCi/L	2.62E-01	3.65E-01	1.19E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Cobalt-58	pCi/L	-7.34E-02	4.25E-01	1.32E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Cobalt-60	pCi/L	-5.11E-02	7.10E-01	1.66E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Iodine-131	pCi/L	2.79E-01	7.80E-01	2.63E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Iron-59	pCi/L	-1.08E+00	9.08E-01	2.84E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Lanthanum-140	pCi/L	-2.74E-01	7.26E-01	2.26E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Manganese-54	pCi/L	5.17E-01	4.16E-01	1.32E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Niobium-95	pCi/L	-1.80E-01	4.13E-01	1.38E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Potassium-40	pCi/L	1.50E+01	1.24E+01	1.40E+01	UI
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Zinc-65	pCi/L	3.24E-01	8.72E-01	2.92E+00	U
Surface Drinking	8/30/2022 9:51	9/6/2022 13:12	Zirconium-95	pCi/L	-4.86E-01	7.21E-01	2.39E+00	U
Surface Drinking	8/30/2022 9:51	9/8/2022 18:30	Iodine-131	pCi/L	-1.44E-01	2.63E-01	8.73E-01	U
Surface Drinking	8/30/2022 9:51	9/8/2022 18:31	BETA	pCi/L	6.13E+00	1.13E+00	3.41E+00	
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Barium-140	pCi/L	3.55E-01	2.07E+00	6.75E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Beryllium-7	pCi/L	9.69E-02	3.54E+00	1.16E+01	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Cesium-134	pCi/L	5.98E-01	4.20E-01	1.50E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Cesium-137	pCi/L	5.28E-01	6.98E-01	1.33E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Cobalt-57	pCi/L	1.50E-01	3.51E-01	1.13E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Cobalt-58	pCi/L	-6.28E-01	3.84E-01	1.22E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Cobalt-60	pCi/L	2.02E-01	4.80E-01	1.41E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Iodine-131	pCi/L	6.81E-01	7.15E-01	2.44E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Iron-59	pCi/L	-1.13E-02	8.46E-01	2.80E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Lanthanum-140	pCi/L	-4.66E-02	7.16E-01	2.29E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Manganese-54	pCi/L	-1.63E-01	3.72E-01	1.24E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Niobium-95	pCi/L	-4.84E-01	4.54E-01	1.20E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Potassium-40	pCi/L	1.44E+01	1.14E+01	1.21E+01	UI
Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Zinc-65	pCi/L	-3.70E-01	8.13E-01	2.64E+00	U

Surface Drinking	9/27/2022 11:57	10/4/2022 13:42	Zirconium-95	pCi/L	4.31E-01	7.12E-01	2.32E+00	U
Surface Drinking	9/27/2022 11:57	10/4/2022 15:49	Iodine-131	pCi/L	-3.19E-01	1.85E-01	7.02E-01	U
Surface Drinking	9/27/2022 11:57	10/25/2022 18:48	BETA	pCi/L	6.69E+00	1.21E+00	3.68E+00	
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Barium-140	pCi/L	-1.21E+00	4.22E+00	1.33E+01	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Beryllium-7	pCi/L	-2.15E+00	5.53E+00	1.75E+01	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Cesium-134	pCi/L	1.53E-01	6.65E-01	2.23E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Cesium-137	pCi/L	1.22E+00	7.43E-01	2.11E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Cobalt-57	pCi/L	9.60E-01	5.52E-01	1.80E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Cobalt-58	pCi/L	-8.53E-02	5.94E-01	1.96E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Cobalt-60	pCi/L	-4.97E-01	6.50E-01	2.10E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Iodine-131	pCi/L	-2.38E+00	1.75E+00	5.48E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Iron-59	pCi/L	-3.77E-01	1.64E+00	4.57E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Lanthanum-140	pCi/L	1.10E+00	1.33E+00	4.64E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Manganese-54	pCi/L	-5.25E-01	5.93E-01	1.89E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Niobium-95	pCi/L	2.33E+00	7.15E-01	2.44E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Potassium-40	pCi/L	-2.84E+00	1.19E+01	3.00E+01	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Zinc-65	pCi/L	-1.50E+00	1.40E+00	3.60E+00	U
Surface Drinking	10/25/2022 9:48	11/7/2022 17:00	Zirconium-95	pCi/L	1.13E+00	9.78E-01	3.43E+00	U
Surface Drinking	10/25/2022 9:48	11/15/2022 13:04	Iodine-131	pCi/L	-3.54E-01	2.52E-01	8.81E-01	U
Surface Drinking	10/25/2022 9:48	11/23/2022 18:59	BETA	pCi/L	1.41E+01	1.02E+00	2.58E+00	
Surface Drinking	9/27/2022 11:57	11/14/2022 12:30	Tritium	pCi/L	4.31E+02	2.22E+02	6.89E+02	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Barium-140	pCi/L	4.63E+00	3.54E+00	8.72E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Beryllium-7	pCi/L	-1.46E+00	3.38E+00	1.11E+01	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Cesium-134	pCi/L	-6.34E-01	4.29E-01	1.27E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Cesium-137	pCi/L	3.26E-02	4.38E-01	1.44E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Cobalt-57	pCi/L	-1.15E-01	3.56E-01	1.14E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Cobalt-58	pCi/L	1.79E-01	4.24E-01	1.40E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Cobalt-60	pCi/L	-6.90E-02	4.16E-01	1.38E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Iodine-131	pCi/L	1.41E-02	8.57E-01	2.91E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Iron-59	pCi/L	-1.07E+00	8.37E-01	2.65E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Lanthanum-140	pCi/L	-4.15E-01	7.98E-01	2.54E+00	U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Manganese-54	pCi/L	-4.22E-01	4.17E-01	1.27E+00	U

Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Niobium-95	pCi/L	1.26E-01	4.47E-01	1.47E+00		U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Potassium-40	pCi/L	6.05E+00	1.18E+01	1.50E+01		U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Zinc-65	pCi/L	2.24E-01	8.99E-01	2.87E+00		U
Surface Drinking	11/29/2022 11:20	12/8/2022 16:15	Zirconium-95	pCi/L	-1.58E+00	7.93E-01	2.32E+00		U
Surface Drinking	11/29/2022 11:20	12/16/2022 18:21	Iodine-131	pCi/L	3.90E-01	2.67E-01	8.28E-01		U
Surface Drinking	11/29/2022 11:20	12/21/2022 18:40	BETA	pCi/L	5.04E+00	9.53E-01	2.77E+00		
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Barium-140	pCi/L	3.11E+00	2.48E+00	8.54E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Beryllium-7	pCi/L	-1.22E+00	3.47E+00	1.14E+01		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Cesium-134	pCi/L	-3.28E-01	4.56E-01	1.43E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Cesium-137	pCi/L	9.81E-01	6.15E-01	1.30E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Cobalt-57	pCi/L	2.58E-01	3.41E-01	1.12E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Cobalt-58	pCi/L	-2.66E-01	4.10E-01	1.28E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Cobalt-60	pCi/L	-3.42E-02	4.22E-01	1.40E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Iodine-131	pCi/L	-1.30E-01	1.11E+00	3.76E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Iron-59	pCi/L	1.36E+00	8.23E-01	2.96E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Lanthanum-140	pCi/L	1.61E-01	8.94E-01	2.96E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Manganese-54	pCi/L	4.28E-01	3.65E-01	1.23E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Niobium-95	pCi/L	2.28E-01	4.22E-01	1.39E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Potassium-40	pCi/L	-3.44E+00	8.04E+00	2.04E+01		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Zinc-65	pCi/L	7.42E-01	7.27E-01	2.56E+00		U
Surface Drinking	12/27/2022 13:26	1/9/2023 13:32	Zirconium-95	pCi/L	9.40E-02	1.46E+00	2.32E+00		U
Surface Drinking	12/27/2022 13:26	1/12/2023 18:44	Iodine-131	pCi/L	6.78E-01	2.27E-01	6.91E-01		U
Surface Drinking	12/27/2022 13:26	1/21/2023 13:16	BETA	pCi/L	7.78E+00	1.38E+00	4.21E+00		DL
Surface Drinking	12/27/2022 13:26	2/11/2023 4:54	Tritium	pCi/L	1.14E+02	1.90E+02	6.04E+02		U

Sample Data For: "SW-3"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Barium-140	pCi/L	-8.00E-01	2.18E+00	6.91E+00		U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Beryllium-7	pCi/L	-1.53E+00	3.57E+00	1.14E+01		U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Cesium-134	pCi/L	2.33E-01	3.99E-01	1.38E+00		U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Cesium-137	pCi/L	5.94E-01	4.47E-01	1.49E+00		U

Surface Water	1/25/2022 12:00	2/2/2022 12:31	Cobalt-57	pCi/L	4.67E-02	3.54E-01	1.11E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Cobalt-58	pCi/L	9.35E-02	3.78E-01	1.28E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Cobalt-60	pCi/L	5.22E-01	4.80E-01	1.64E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Iodine-131	pCi/L	9.34E-01	8.23E-01	2.79E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Iron-59	pCi/L	2.75E+00	2.61E+00	2.78E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Lanthanum-140	pCi/L	5.71E-01	6.94E-01	2.45E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Manganese-54	pCi/L	1.59E+00	5.15E-01	1.39E+00	UI
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Niobium-95	pCi/L	7.84E-01	4.07E-01	1.47E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Potassium-40	pCi/L	1.07E+01	1.14E+01	1.38E+01	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Zinc-65	pCi/L	1.81E+00	9.30E-01	3.02E+00	U
Surface Water	1/25/2022 12:00	2/2/2022 12:31	Zirconium-95	pCi/L	4.27E-01	7.23E-01	2.49E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Barium-140	pCi/L	5.23E-02	2.91E+00	9.50E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Beryllium-7	pCi/L	-9.01E+00	3.96E+00	1.20E+01	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Cesium-134	pCi/L	9.80E-01	6.92E-01	1.66E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Cesium-137	pCi/L	5.83E-01	4.67E-01	1.57E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Cobalt-57	pCi/L	-4.63E-01	4.02E-01	1.28E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Cobalt-58	pCi/L	9.32E-02	4.70E-01	1.61E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Cobalt-60	pCi/L	-8.63E-01	4.94E-01	1.43E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Iodine-131	pCi/L	5.32E-01	1.27E+00	4.33E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Iron-59	pCi/L	-1.30E+00	1.02E+00	3.16E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Lanthanum-140	pCi/L	-3.39E-01	1.19E+00	3.42E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Manganese-54	pCi/L	-2.44E-01	4.28E-01	1.41E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Niobium-95	pCi/L	-3.79E-02	4.45E-01	1.51E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Potassium-40	pCi/L	3.43E+01	1.27E+01	1.61E+01	UI
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Zinc-65	pCi/L	2.13E-01	9.96E-01	3.31E+00	U
Surface Water	2/22/2022 10:58	3/7/2022 13:27	Zirconium-95	pCi/L	-3.65E-02	9.36E-01	2.63E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Barium-140	pCi/L	-5.83E-01	2.90E+00	9.36E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Beryllium-7	pCi/L	1.31E+00	7.11E+00	1.56E+01	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Cesium-134	pCi/L	-1.66E-01	6.27E-01	2.09E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Cesium-137	pCi/L	6.64E-01	5.79E-01	1.94E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Cobalt-57	pCi/L	-2.30E-01	4.52E-01	1.48E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Cobalt-58	pCi/L	2.81E-01	5.39E-01	1.86E+00	U

Surface Water	3/29/2022 11:51	4/7/2022 17:37	Cobalt-60	pCi/L	2.76E-02	5.42E-01	1.74E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Iodine-131	pCi/L	9.82E-03	1.20E+00	4.03E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Iron-59	pCi/L	-1.76E+00	1.45E+00	3.79E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Lanthanum-140	pCi/L	-1.35E+00	1.19E+00	3.69E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Manganese-54	pCi/L	2.28E-01	5.30E-01	1.81E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Niobium-95	pCi/L	2.51E+00	1.18E+00	1.60E+00	UI
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Potassium-40	pCi/L	2.50E+01	1.49E+01	1.70E+01	UI
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Zinc-65	pCi/L	4.37E-01	1.16E+00	3.87E+00	U
Surface Water	3/29/2022 11:51	4/7/2022 17:37	Zirconium-95	pCi/L	8.79E-02	9.50E-01	3.23E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Barium-140	pCi/L	4.00E+00	3.04E+00	1.02E+01	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Beryllium-7	pCi/L	3.93E+00	3.95E+00	1.32E+01	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Cesium-134	pCi/L	-1.25E-02	4.04E-01	1.36E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Cesium-137	pCi/L	-1.13E+00	8.89E-01	1.48E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Cobalt-57	pCi/L	2.78E-01	3.63E-01	1.16E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Cobalt-58	pCi/L	8.74E-01	4.24E-01	1.54E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Cobalt-60	pCi/L	3.45E-01	4.53E-01	1.53E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Iodine-131	pCi/L	1.65E-01	1.33E+00	4.41E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Iron-59	pCi/L	3.48E-01	9.23E-01	3.09E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Lanthanum-140	pCi/L	5.73E-01	1.00E+00	3.49E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Manganese-54	pCi/L	3.23E-01	4.05E-01	1.40E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Niobium-95	pCi/L	2.44E-01	8.53E-01	1.23E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Potassium-40	pCi/L	-5.53E+00	1.08E+01	2.07E+01	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Zinc-65	pCi/L	4.76E-02	8.01E-01	2.64E+00	U
Surface Water	4/26/2022 11:19	5/10/2022 14:41	Zirconium-95	pCi/L	7.68E-01	8.81E-01	2.74E+00	U
Surface Water	3/29/2022 11:51	5/18/2022 10:32	Tritium	pCi/L	-3.04E+02	2.17E+02	7.43E+02	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Barium-140	pCi/L	-1.90E+00	6.00E+00	1.32E+01	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Beryllium-7	pCi/L	-1.12E+01	8.84E+00	1.90E+01	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Cesium-134	pCi/L	3.93E-01	6.95E-01	2.32E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Cesium-137	pCi/L	4.93E-01	6.39E-01	2.17E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Cobalt-57	pCi/L	-6.75E-01	8.40E-01	2.02E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Cobalt-58	pCi/L	-4.48E-01	6.29E-01	1.94E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Cobalt-60	pCi/L	-9.62E-01	7.13E-01	2.16E+00	U

Surface Water	5/31/2022 11:04	6/11/2022 22:16	Iodine-131	pCi/L	1.42E-01	1.56E+00	5.34E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Iron-59	pCi/L	2.60E-01	1.29E+00	4.40E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Lanthanum-140	pCi/L	6.22E-01	1.34E+00	4.56E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Manganese-54	pCi/L	6.76E-01	6.58E-01	2.23E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Niobium-95	pCi/L	4.63E-01	7.23E-01	2.42E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Potassium-40	pCi/L	-1.20E+01	1.40E+01	3.38E+01	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Zinc-65	pCi/L	1.35E+00	1.35E+00	4.81E+00	U
Surface Water	5/31/2022 11:04	6/11/2022 22:16	Zirconium-95	pCi/L	-9.98E-01	1.28E+00	3.96E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Barium-140	pCi/L	5.02E+00	2.62E+00	9.05E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Beryllium-7	pCi/L	4.39E+00	3.83E+00	1.30E+01	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Cesium-134	pCi/L	6.62E-01	5.19E-01	1.47E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Cesium-137	pCi/L	-5.99E-01	1.14E+00	2.74E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Cobalt-57	pCi/L	-7.91E-02	3.84E-01	1.23E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Cobalt-58	pCi/L	4.52E-01	4.51E-01	1.58E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Cobalt-60	pCi/L	-1.22E-01	4.85E-01	1.55E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Iodine-131	pCi/L	8.21E-01	1.06E+00	3.60E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Iron-59	pCi/L	5.04E-01	9.09E-01	3.07E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Lanthanum-140	pCi/L	-2.68E-01	9.17E-01	3.05E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Manganese-54	pCi/L	6.39E-01	4.46E-01	1.54E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Niobium-95	pCi/L	2.80E-01	4.57E-01	1.58E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Potassium-40	pCi/L	2.39E+00	1.58E+01	1.62E+01	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Zinc-65	pCi/L	8.89E-01	8.35E-01	2.61E+00	U
Surface Water	6/28/2022 11:04	7/8/2022 18:33	Zirconium-95	pCi/L	-6.18E-01	7.37E-01	2.43E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Barium-140	pCi/L	2.93E+00	3.01E+00	1.04E+01	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Beryllium-7	pCi/L	-4.55E+00	4.56E+00	1.48E+01	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Cesium-134	pCi/L	6.94E-02	5.40E-01	1.76E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Cesium-137	pCi/L	2.63E+00	6.66E-01	1.67E+00	UI
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Cobalt-57	pCi/L	-4.32E-01	4.94E-01	1.59E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Cobalt-58	pCi/L	3.53E-02	5.40E-01	1.75E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Cobalt-60	pCi/L	5.22E-01	5.96E-01	2.08E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Iodine-131	pCi/L	-1.07E+00	2.02E+00	3.94E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Iron-59	pCi/L	3.48E-01	1.11E+00	3.81E+00	U

Surface Water	7/26/2022 10:53	8/4/2022 16:10	Lanthanum-140	pCi/L	-4.01E-01	1.01E+00	3.23E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Manganese-54	pCi/L	1.76E+00	8.49E-01	1.46E+00	UI
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Niobium-95	pCi/L	3.24E-01	8.73E-01	1.85E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Potassium-40	pCi/L	1.28E+01	1.65E+01	1.87E+01	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Zinc-65	pCi/L	5.80E-01	1.13E+00	3.91E+00	U
Surface Water	7/26/2022 10:53	8/4/2022 16:10	Zirconium-95	pCi/L	-5.70E-01	1.09E+00	3.05E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Barium-140	pCi/L	-1.17E+00	1.97E+00	6.29E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Beryllium-7	pCi/L	-8.16E-01	3.42E+00	1.11E+01	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Cesium-134	pCi/L	1.10E+00	8.09E-01	1.41E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Cesium-137	pCi/L	1.21E+00	8.17E-01	1.31E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Cobalt-57	pCi/L	-1.90E-01	3.42E-01	1.08E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Cobalt-58	pCi/L	4.51E-01	3.68E-01	1.30E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Cobalt-60	pCi/L	9.32E-02	4.38E-01	1.44E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Iodine-131	pCi/L	-6.67E-01	6.74E-01	2.19E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Iron-59	pCi/L	2.18E-01	7.97E-01	2.67E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Lanthanum-140	pCi/L	2.39E-01	7.48E-01	2.44E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Manganese-54	pCi/L	-7.96E-01	3.85E-01	1.21E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Niobium-95	pCi/L	4.14E-01	4.02E-01	1.32E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Potassium-40	pCi/L	1.56E+01	1.02E+01	1.28E+01	UI
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Zinc-65	pCi/L	2.84E-01	8.62E-01	2.56E+00	U
Surface Water	8/30/2022 10:17	9/6/2022 13:14	Zirconium-95	pCi/L	-6.27E-01	6.90E-01	2.10E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Barium-140	pCi/L	2.68E+00	2.21E+00	7.49E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Beryllium-7	pCi/L	4.42E+00	3.93E+00	1.34E+01	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Cesium-134	pCi/L	7.75E-01	4.80E-01	1.71E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Cesium-137	pCi/L	-4.08E-01	7.67E-01	1.61E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Cobalt-57	pCi/L	5.56E-01	5.70E-01	1.19E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Cobalt-58	pCi/L	2.13E-01	4.18E-01	1.43E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Cobalt-60	pCi/L	6.76E-02	4.28E-01	1.39E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Iodine-131	pCi/L	-2.72E-01	7.83E-01	2.61E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Iron-59	pCi/L	-1.34E+00	8.91E-01	2.70E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Lanthanum-140	pCi/L	7.64E-01	8.64E-01	3.00E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Manganese-54	pCi/L	-2.19E-01	4.16E-01	1.37E+00	U

Surface Water	9/27/2022 12:51	10/4/2022 13:42	Niobium-95	pCi/L	-1.72E-01	4.26E-01	1.42E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Potassium-40	pCi/L	2.62E+00	1.15E+01	1.40E+01	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Zinc-65	pCi/L	-1.30E+00	1.01E+00	3.09E+00	U
Surface Water	9/27/2022 12:51	10/4/2022 13:42	Zirconium-95	pCi/L	4.89E-01	7.42E-01	2.57E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Barium-140	pCi/L	4.41E+00	3.21E+00	1.09E+01	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Beryllium-7	pCi/L	-4.44E+00	4.36E+00	1.38E+01	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Cesium-134	pCi/L	-3.29E-01	4.61E-01	1.52E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Cesium-137	pCi/L	7.86E-01	5.60E-01	1.40E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Cobalt-57	pCi/L	7.66E-01	3.96E-01	1.31E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Cobalt-58	pCi/L	5.59E-01	4.70E-01	1.66E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Cobalt-60	pCi/L	6.21E-01	4.91E-01	1.71E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Iodine-131	pCi/L	-7.02E-01	1.39E+00	4.57E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Iron-59	pCi/L	-1.16E+00	9.64E-01	3.01E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Lanthanum-140	pCi/L	1.01E+00	1.20E+00	3.61E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Manganese-54	pCi/L	-8.94E-01	4.53E-01	1.42E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Niobium-95	pCi/L	-1.24E+00	5.11E-01	1.44E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Potassium-40	pCi/L	2.22E+01	1.24E+01	1.55E+01	UI
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Zinc-65	pCi/L	8.93E-01	1.02E+00	3.15E+00	U
Surface Water	10/25/2022 9:15	11/7/2022 17:01	Zirconium-95	pCi/L	-3.64E-01	9.32E-01	2.90E+00	U
Surface Water	7/26/2022 10:53	11/12/2022 7:06	Tritium	pCi/L	-1.78E+02	1.58E+02	5.55E+02	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Barium-140	pCi/L	1.32E+00	2.43E+00	8.22E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Beryllium-7	pCi/L	-1.57E+00	3.91E+00	1.29E+01	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Cesium-134	pCi/L	4.09E-01	4.43E-01	1.50E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Cesium-137	pCi/L	6.60E-01	4.77E-01	1.64E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Cobalt-57	pCi/L	-6.13E-01	5.43E-01	1.27E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Cobalt-58	pCi/L	5.56E-02	4.65E-01	1.50E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Cobalt-60	pCi/L	5.04E-01	4.17E-01	1.49E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Iodine-131	pCi/L	-2.69E-01	8.81E-01	2.96E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Iron-59	pCi/L	-2.09E-01	8.90E-01	2.97E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Lanthanum-140	pCi/L	-7.24E-01	8.51E-01	2.64E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Manganese-54	pCi/L	-4.11E-01	4.50E-01	1.38E+00	U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Niobium-95	pCi/L	4.80E-01	4.75E-01	1.60E+00	U

Surface Water	11/29/2022 12:52	12/8/2022 16:15	Potassium-40	pCi/L	-6.71E+00	8.20E+00	2.26E+01		U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Zinc-65	pCi/L	-3.62E-01	7.67E-01	2.52E+00		U
Surface Water	11/29/2022 12:52	12/8/2022 16:15	Zirconium-95	pCi/L	9.36E-01	7.63E-01	2.61E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Barium-140	pCi/L	-3.90E+00	2.92E+00	9.14E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Beryllium-7	pCi/L	2.94E+00	3.85E+00	1.25E+01		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Cesium-134	pCi/L	4.80E-01	4.51E-01	1.51E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Cesium-137	pCi/L	4.38E-01	4.45E-01	1.49E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Cobalt-57	pCi/L	2.14E-01	4.28E-01	1.38E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Cobalt-58	pCi/L	2.88E-01	4.56E-01	1.49E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Cobalt-60	pCi/L	-4.41E-01	4.26E-01	1.33E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Iodine-131	pCi/L	2.93E-01	1.24E+00	4.18E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Iron-59	pCi/L	8.72E-01	8.96E-01	3.14E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Lanthanum-140	pCi/L	7.97E-01	1.15E+00	3.88E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Manganese-54	pCi/L	-2.55E-01	4.38E-01	1.36E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Niobium-95	pCi/L	1.19E+00	4.86E-01	1.70E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Potassium-40	pCi/L	1.95E+01	1.62E+01	1.43E+01		UI
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Zinc-65	pCi/L	-2.55E-01	8.81E-01	2.92E+00		U
Surface Water	12/27/2022 13:58	1/9/2023 13:34	Zirconium-95	pCi/L	-1.16E+00	8.35E-01	2.52E+00		U
Surface Water	12/27/2022 13:58	2/11/2023 5:59	Tritium	pCi/L	-2.06E+01	1.85E+02	6.14E+02		U

Sample Data For: "SW-4"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Barium-140	pCi/L	-3.20E+00	2.52E+00	8.07E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Beryllium-7	pCi/L	1.66E+00	4.36E+00	1.47E+01		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Cesium-134	pCi/L	-4.90E-01	5.45E-01	1.70E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Cesium-137	pCi/L	-5.01E-01	5.59E-01	1.57E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Cobalt-57	pCi/L	7.24E-01	4.65E-01	1.31E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Cobalt-58	pCi/L	-1.01E+00	4.97E-01	1.48E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Cobalt-60	pCi/L	2.22E+00	5.88E-01	1.91E+00		UI
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Iodine-131	pCi/L	-2.36E-01	9.19E-01	3.11E+00		U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Iron-59	pCi/L	9.46E-01	8.45E-01	3.01E+00		U

Surface Water	1/25/2022 11:26	2/2/2022 12:29	Lanthanum-140	pCi/L	-1.47E+00	7.35E-01	2.10E+00	U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Manganese-54	pCi/L	-5.54E-01	5.01E-01	1.55E+00	U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Niobium-95	pCi/L	-5.18E-01	8.13E-01	1.75E+00	U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Potassium-40	pCi/L	2.54E+01	1.54E+01	1.47E+01	UI
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Zinc-65	pCi/L	8.49E-01	1.36E+00	3.24E+00	U
Surface Water	1/25/2022 11:26	2/2/2022 12:29	Zirconium-95	pCi/L	1.04E-01	8.83E-01	2.88E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Barium-140	pCi/L	-3.77E+00	3.06E+00	9.96E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Beryllium-7	pCi/L	-9.25E+00	6.59E+00	1.37E+01	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Cesium-134	pCi/L	5.51E-01	5.02E-01	1.71E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Cesium-137	pCi/L	2.01E-01	4.80E-01	1.62E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Cobalt-57	pCi/L	5.18E-02	3.89E-01	1.32E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Cobalt-58	pCi/L	2.72E-01	5.47E-01	1.61E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Cobalt-60	pCi/L	-1.92E-01	4.75E-01	1.56E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Iodine-131	pCi/L	2.06E+00	1.81E+00	4.52E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Iron-59	pCi/L	-1.70E-01	9.18E-01	2.92E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Lanthanum-140	pCi/L	4.98E-01	1.01E+00	3.43E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Manganese-54	pCi/L	1.43E-01	4.52E-01	1.50E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Niobium-95	pCi/L	6.88E-01	4.86E-01	1.67E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Potassium-40	pCi/L	-1.59E+01	8.89E+00	2.32E+01	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Zinc-65	pCi/L	4.62E-01	1.09E+00	3.13E+00	U
Surface Water	2/22/2022 9:32	3/7/2022 13:26	Zirconium-95	pCi/L	2.11E-01	8.46E-01	2.81E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Barium-140	pCi/L	1.03E-01	2.45E+00	8.09E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Beryllium-7	pCi/L	3.75E-02	4.35E+00	1.45E+01	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Cesium-134	pCi/L	5.06E-01	5.51E-01	1.85E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Cesium-137	pCi/L	9.04E-01	5.30E-01	1.85E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Cobalt-57	pCi/L	5.68E-01	4.08E-01	1.36E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Cobalt-58	pCi/L	-3.65E-01	5.02E-01	1.54E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Cobalt-60	pCi/L	-5.02E-01	6.18E-01	1.68E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Iodine-131	pCi/L	1.59E+00	9.78E-01	3.18E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Iron-59	pCi/L	-1.33E+00	1.09E+00	3.44E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Lanthanum-140	pCi/L	3.27E-01	9.96E-01	3.33E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Manganese-54	pCi/L	-1.91E-01	5.46E-01	1.72E+00	U

Surface Water	3/29/2022 10:31	4/6/2022 17:50	Niobium-95	pCi/L	6.91E-01	4.95E-01	1.71E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Potassium-40	pCi/L	-1.63E+01	9.69E+00	2.65E+01	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Zinc-65	pCi/L	-7.44E-01	1.00E+00	3.23E+00	U
Surface Water	3/29/2022 10:31	4/6/2022 17:50	Zirconium-95	pCi/L	-2.27E-01	9.11E-01	2.90E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Barium-140	pCi/L	5.57E+00	3.27E+00	1.14E+01	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Beryllium-7	pCi/L	3.57E+00	4.24E+00	1.45E+01	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Cesium-134	pCi/L	1.19E-01	5.03E-01	1.63E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Cesium-137	pCi/L	-5.76E-02	4.32E-01	1.40E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Cobalt-57	pCi/L	7.44E-01	3.90E-01	1.31E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Cobalt-58	pCi/L	2.04E-01	4.53E-01	1.49E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Cobalt-60	pCi/L	-2.97E-01	4.79E-01	1.54E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Iodine-131	pCi/L	5.83E-01	1.45E+00	4.94E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Iron-59	pCi/L	-8.26E-01	1.08E+00	3.53E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Lanthanum-140	pCi/L	4.94E-01	1.13E+00	3.79E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Manganese-54	pCi/L	2.66E-01	9.13E-01	1.40E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Niobium-95	pCi/L	-1.52E-01	4.94E-01	1.57E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Potassium-40	pCi/L	1.32E+01	1.36E+01	1.53E+01	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Zinc-65	pCi/L	-4.71E-01	1.05E+00	3.01E+00	U
Surface Water	4/26/2022 9:34	5/10/2022 14:39	Zirconium-95	pCi/L	1.26E-01	8.49E-01	2.76E+00	U
Surface Water	3/29/2022 10:31	5/18/2022 10:16	Tritium	pCi/L	-1.98E+02	2.13E+02	7.20E+02	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Barium-140	pCi/L	3.01E+00	3.30E+00	1.15E+01	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Beryllium-7	pCi/L	-3.61E+00	4.37E+00	1.26E+01	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Cesium-134	pCi/L	6.21E-01	5.76E-01	1.99E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Cesium-137	pCi/L	-2.51E-01	8.84E-01	1.91E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Cobalt-57	pCi/L	-3.15E-02	4.54E-01	1.49E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Cobalt-58	pCi/L	-1.81E-01	5.61E-01	1.71E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Cobalt-60	pCi/L	5.34E-01	5.47E-01	1.96E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Iodine-131	pCi/L	-7.71E-01	1.30E+00	4.38E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Iron-59	pCi/L	-2.81E-01	1.18E+00	3.69E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Lanthanum-140	pCi/L	-1.11E+00	1.06E+00	3.20E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Manganese-54	pCi/L	1.37E-01	5.22E-01	1.72E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Niobium-95	pCi/L	2.46E-01	5.71E-01	1.91E+00	U

Surface Water	5/31/2022 9:47	6/11/2022 22:08	Potassium-40	pCi/L	-1.67E+01	1.07E+01	3.03E+01	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Zinc-65	pCi/L	7.36E-01	1.22E+00	4.02E+00	U
Surface Water	5/31/2022 9:47	6/11/2022 22:08	Zirconium-95	pCi/L	-2.43E-01	1.02E+00	3.31E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Barium-140	pCi/L	-2.76E+00	3.22E+00	1.02E+01	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Beryllium-7	pCi/L	7.25E+00	4.65E+00	1.60E+01	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Cesium-134	pCi/L	8.08E-01	5.46E-01	1.86E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Cesium-137	pCi/L	-4.22E+00	1.41E+00	3.27E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Cobalt-57	pCi/L	-1.40E-01	4.71E-01	1.61E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Cobalt-58	pCi/L	2.15E-01	5.34E-01	1.73E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Cobalt-60	pCi/L	2.99E-01	5.64E-01	1.93E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Iodine-131	pCi/L	-2.08E-01	1.27E+00	4.20E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Iron-59	pCi/L	-1.40E+00	1.66E+00	3.62E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Lanthanum-140	pCi/L	1.73E+00	1.05E+00	3.80E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Manganese-54	pCi/L	-2.39E-03	4.96E-01	1.58E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Niobium-95	pCi/L	1.84E-01	5.80E-01	1.88E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Potassium-40	pCi/L	-5.12E+00	1.25E+01	2.80E+01	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Zinc-65	pCi/L	1.03E+00	1.07E+00	3.40E+00	U
Surface Water	6/28/2022 9:49	7/8/2022 18:32	Zirconium-95	pCi/L	-2.78E-02	9.94E-01	3.17E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Barium-140	pCi/L	-1.94E+00	2.77E+00	9.19E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Beryllium-7	pCi/L	-2.05E-01	4.75E+00	1.51E+01	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Cesium-134	pCi/L	2.12E-01	5.79E-01	1.94E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Cesium-137	pCi/L	2.61E-01	5.47E-01	1.86E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Cobalt-57	pCi/L	2.91E-01	4.56E-01	1.57E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Cobalt-58	pCi/L	3.24E-01	5.25E-01	1.78E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Cobalt-60	pCi/L	-1.09E-01	5.24E-01	1.50E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Iodine-131	pCi/L	2.77E-02	1.17E+00	3.79E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Iron-59	pCi/L	-1.13E+00	1.23E+00	3.79E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Lanthanum-140	pCi/L	4.67E+00	1.74E+00	3.44E+00	UI
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Manganese-54	pCi/L	6.48E-01	5.42E-01	1.86E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Niobium-95	pCi/L	-8.09E-01	9.46E-01	1.82E+00	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Potassium-40	pCi/L	1.25E+01	1.53E+01	1.77E+01	U
Surface Water	7/26/2022 8:52	8/4/2022 16:10	Zinc-65	pCi/L	1.56E-01	1.03E+00	3.33E+00	U

Surface Water	7/26/2022 8:52	8/4/2022 16:10	Zirconium-95	pCi/L	-2.93E-01	9.26E-01	3.03E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Barium-140	pCi/L	-1.41E+00	2.38E+00	7.78E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Beryllium-7	pCi/L	2.76E+00	3.89E+00	1.33E+01	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Cesium-134	pCi/L	9.30E-01	4.84E-01	1.68E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Cesium-137	pCi/L	-2.46E-01	4.81E-01	1.55E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Cobalt-57	pCi/L	1.49E-01	4.13E-01	1.25E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Cobalt-58	pCi/L	-2.83E-01	4.74E-01	1.50E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Cobalt-60	pCi/L	5.58E-01	4.03E-01	1.44E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Iodine-131	pCi/L	-1.58E+00	8.10E-01	2.64E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Iron-59	pCi/L	1.67E+00	9.41E-01	2.53E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Lanthanum-140	pCi/L	-7.29E-01	9.21E-01	2.43E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Manganese-54	pCi/L	-1.31E-01	4.64E-01	1.48E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Niobium-95	pCi/L	-3.62E-01	6.52E-01	1.57E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Potassium-40	pCi/L	-5.25E+00	9.08E+00	2.10E+01	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Zinc-65	pCi/L	8.29E-01	8.32E-01	2.93E+00	U
Surface Water	8/30/2022 9:05	9/6/2022 13:14	Zirconium-95	pCi/L	2.60E-01	8.28E-01	2.72E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Barium-140	pCi/L	-7.15E-01	1.96E+00	6.49E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Beryllium-7	pCi/L	3.20E+00	3.23E+00	1.13E+01	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Cesium-134	pCi/L	3.05E-01	4.92E-01	1.49E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Cesium-137	pCi/L	7.70E-01	3.93E-01	1.41E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Cobalt-57	pCi/L	-3.33E-02	3.82E-01	1.16E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Cobalt-58	pCi/L	-4.92E-01	4.62E-01	1.44E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Cobalt-60	pCi/L	-9.36E-02	4.19E-01	1.22E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Iodine-131	pCi/L	5.78E-02	7.03E-01	2.42E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Iron-59	pCi/L	1.25E-01	8.44E-01	2.71E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Lanthanum-140	pCi/L	-2.17E-01	7.34E-01	2.39E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Manganese-54	pCi/L	3.65E-01	4.09E-01	1.39E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Niobium-95	pCi/L	6.46E-01	6.21E-01	1.31E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Potassium-40	pCi/L	-1.31E+01	1.12E+01	2.66E+01	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Zinc-65	pCi/L	1.23E+00	8.56E-01	2.96E+00	U
Surface Water	9/27/2022 11:35	10/4/2022 13:41	Zirconium-95	pCi/L	1.55E+00	7.45E-01	2.67E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Barium-140	pCi/L	3.54E+00	3.68E+00	1.26E+01	U

Surface Water	10/25/2022 10:30	11/7/2022 17:01	Beryllium-7	pCi/L	3.01E+00	5.12E+00	1.74E+01	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Cesium-134	pCi/L	3.56E-01	5.77E-01	1.73E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Cesium-137	pCi/L	1.37E+00	6.93E-01	1.66E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Cobalt-57	pCi/L	-2.78E-01	4.72E-01	1.52E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Cobalt-58	pCi/L	6.15E-01	5.80E-01	1.96E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Cobalt-60	pCi/L	5.84E-01	4.92E-01	1.75E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Iodine-131	pCi/L	-8.16E-01	1.58E+00	5.29E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Iron-59	pCi/L	8.21E-01	1.15E+00	3.61E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Lanthanum-140	pCi/L	-9.26E-01	1.13E+00	3.54E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Manganese-54	pCi/L	5.19E-01	5.42E-01	1.81E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Niobium-95	pCi/L	8.13E-01	5.66E-01	1.94E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Potassium-40	pCi/L	-1.57E+01	1.12E+01	2.40E+01	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Zinc-65	pCi/L	7.63E-01	9.30E-01	3.28E+00	U
Surface Water	10/25/2022 10:30	11/7/2022 17:01	Zirconium-95	pCi/L	2.80E+00	9.84E-01	3.56E+00	U
Surface Water	7/26/2022 8:52	11/12/2022 6:50	Tritium	pCi/L	7.37E+01	1.72E+02	5.53E+02	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Barium-140	pCi/L	-5.52E-01	2.28E+00	7.48E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Beryllium-7	pCi/L	1.04E+00	3.66E+00	1.23E+01	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Cesium-134	pCi/L	-7.99E-01	4.64E-01	1.36E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Cesium-137	pCi/L	1.19E-01	4.61E-01	1.45E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Cobalt-57	pCi/L	2.71E-01	6.04E-01	1.18E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Cobalt-58	pCi/L	3.85E-01	4.30E-01	1.44E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Cobalt-60	pCi/L	-4.47E-01	4.19E-01	1.30E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Iodine-131	pCi/L	2.68E+00	1.11E+00	3.18E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Iron-59	pCi/L	-6.19E-01	8.01E-01	2.59E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Lanthanum-140	pCi/L	-7.51E-01	9.01E-01	2.80E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Manganese-54	pCi/L	4.48E-01	4.07E-01	1.37E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Niobium-95	pCi/L	-4.94E-01	6.84E-01	1.59E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Potassium-40	pCi/L	2.56E+01	1.31E+01	1.29E+01	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Zinc-65	pCi/L	1.02E+00	9.01E-01	3.19E+00	U
Surface Water	11/29/2022 10:58	12/8/2022 16:14	Zirconium-95	pCi/L	4.08E-01	7.63E-01	2.52E+00	U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Barium-140	pCi/L	5.75E-01	2.46E+00	8.22E+00	U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Beryllium-7	pCi/L	-5.23E+00	3.09E+00	9.73E+00	U

Surface Water	12/27/2022 12:55	1/9/2023 13:33	Cesium-134	pCi/L	1.58E-01	3.95E-01	1.30E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Cesium-137	pCi/L	1.31E+00	5.71E-01	1.19E+00		UI
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Cobalt-57	pCi/L	-2.28E-01	4.60E-01	1.04E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Cobalt-58	pCi/L	1.50E-02	3.55E-01	1.15E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Cobalt-60	pCi/L	9.47E-02	3.86E-01	1.31E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Iodine-131	pCi/L	-7.62E-01	1.01E+00	3.36E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Iron-59	pCi/L	-1.74E+00	7.72E-01	2.35E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Lanthanum-140	pCi/L	-9.83E-02	8.19E-01	2.68E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Manganese-54	pCi/L	-1.13E+00	3.48E-01	9.45E-01		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Niobium-95	pCi/L	-2.35E-01	3.95E-01	1.25E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Potassium-40	pCi/L	-9.37E+00	8.99E+00	2.20E+01		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Zinc-65	pCi/L	1.39E-01	8.26E-01	2.49E+00		U
Surface Water	12/27/2022 12:55	1/9/2023 13:33	Zirconium-95	pCi/L	-2.56E-01	6.77E-01	2.16E+00		U
Surface Water	12/27/2022 12:55	2/11/2023 5:43	Tritium	pCi/L	-9.78E+01	1.74E+02	5.88E+02		U

Sample Data For: "SW-5"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Barium-140	pCi/L	-2.02E+00	2.40E+00	7.55E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Beryllium-7	pCi/L	-4.10E+00	3.78E+00	1.19E+01		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Cesium-134	pCi/L	-2.14E+00	1.12E+00	1.60E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Cesium-137	pCi/L	-7.70E-01	8.58E-01	1.57E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Cobalt-57	pCi/L	2.46E-02	4.04E-01	1.31E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Cobalt-58	pCi/L	1.94E-01	4.52E-01	1.37E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Cobalt-60	pCi/L	1.84E+00	5.58E-01	2.06E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Iodine-131	pCi/L	1.17E+00	8.48E-01	2.93E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Iron-59	pCi/L	-8.97E-01	1.01E+00	3.19E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Lanthanum-140	pCi/L	1.75E+00	7.77E-01	2.27E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Manganese-54	pCi/L	1.44E-01	4.22E-01	1.43E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Niobium-95	pCi/L	-5.46E-02	4.58E-01	1.54E+00		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Potassium-40	pCi/L	1.04E+01	1.17E+01	1.63E+01		U
Surface Water	1/25/2022 10:29	2/2/2022 12:27	Zinc-65	pCi/L	1.46E-01	9.73E-01	3.21E+00		U

Surface Water	1/25/2022 10:29	2/2/2022 12:27	Zirconium-95	pCi/L	1.54E-01	7.66E-01	2.61E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Barium-140	pCi/L	1.48E+00	3.66E+00	1.19E+01	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Beryllium-7	pCi/L	-2.20E+00	4.66E+00	1.48E+01	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Cesium-134	pCi/L	3.03E-01	5.08E-01	1.76E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Cesium-137	pCi/L	7.10E-01	5.20E-01	1.74E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Cobalt-57	pCi/L	3.72E-01	4.34E-01	1.49E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Cobalt-58	pCi/L	2.87E-01	5.06E-01	1.74E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Cobalt-60	pCi/L	1.79E-01	5.61E-01	1.87E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Iodine-131	pCi/L	-1.39E+00	1.51E+00	4.80E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Iron-59	pCi/L	3.17E+00	1.08E+00	4.02E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Lanthanum-140	pCi/L	-1.11E+00	1.57E+00	4.15E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Manganese-54	pCi/L	4.55E-01	5.19E-01	1.80E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Niobium-95	pCi/L	2.17E+00	9.92E-01	1.72E+00	UI
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Potassium-40	pCi/L	1.28E+01	1.60E+01	1.82E+01	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Zinc-65	pCi/L	4.95E-01	1.09E+00	3.70E+00	U
Surface Water	2/22/2022 8:50	3/7/2022 13:26	Zirconium-95	pCi/L	1.12E+00	8.45E-01	3.01E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Barium-140	pCi/L	6.70E+00	3.54E+00	1.27E+01	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Beryllium-7	pCi/L	4.05E+00	5.54E+00	1.91E+01	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Cesium-134	pCi/L	1.40E-01	1.15E+00	2.42E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Cesium-137	pCi/L	4.66E-01	6.67E-01	2.26E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Cobalt-57	pCi/L	-6.81E-01	7.67E-01	1.97E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Cobalt-58	pCi/L	-2.13E-01	7.05E-01	2.24E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Cobalt-60	pCi/L	2.32E+00	7.71E-01	2.55E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Iodine-131	pCi/L	-9.81E-01	1.42E+00	4.75E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Iron-59	pCi/L	-7.20E-01	1.31E+00	4.29E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Lanthanum-140	pCi/L	5.13E-01	1.32E+00	4.44E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Manganese-54	pCi/L	6.36E-02	6.29E-01	2.03E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Niobium-95	pCi/L	2.77E-01	7.11E-01	2.35E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Potassium-40	pCi/L	-1.28E+01	1.35E+01	4.03E+01	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Zinc-65	pCi/L	-1.06E-01	1.39E+00	4.12E+00	U
Surface Water	3/29/2022 9:27	4/7/2022 17:34	Zirconium-95	pCi/L	1.62E-01	1.01E+00	3.30E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Barium-140	pCi/L	1.11E+00	3.65E+00	1.22E+01	U

Surface Water	4/26/2022 8:50	5/10/2022 14:40	Beryllium-7	pCi/L	-5.09E+00	4.54E+00	1.46E+01	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Cesium-134	pCi/L	3.16E-01	5.52E-01	1.83E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Cesium-137	pCi/L	4.15E-02	5.20E-01	1.71E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Cobalt-57	pCi/L	4.07E-02	4.63E-01	1.51E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Cobalt-58	pCi/L	-2.15E-01	5.23E-01	1.65E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Cobalt-60	pCi/L	1.33E+00	5.25E-01	1.98E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Iodine-131	pCi/L	-1.82E+00	1.74E+00	5.75E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Iron-59	pCi/L	9.23E-01	1.12E+00	3.94E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Lanthanum-140	pCi/L	-1.98E-01	1.30E+00	3.68E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Manganese-54	pCi/L	9.39E-01	6.48E-01	1.59E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Niobium-95	pCi/L	2.62E-02	5.46E-01	1.77E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Potassium-40	pCi/L	6.27E+00	1.51E+01	1.62E+01	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Zinc-65	pCi/L	-5.23E-01	1.11E+00	3.67E+00	U
Surface Water	4/26/2022 8:50	5/10/2022 14:40	Zirconium-95	pCi/L	-3.68E-01	9.50E-01	3.02E+00	U
Surface Water	3/29/2022 9:27	5/18/2022 9:45	Tritium	pCi/L	1.11E+04	4.08E+02	6.83E+02	
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Barium-140	pCi/L	-2.19E-01	3.91E+00	1.27E+01	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Beryllium-7	pCi/L	6.12E+00	4.93E+00	1.71E+01	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Cesium-134	pCi/L	2.54E-01	5.87E-01	2.04E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Cesium-137	pCi/L	-4.00E-01	6.86E-01	2.14E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Cobalt-57	pCi/L	-5.10E-01	5.28E-01	1.67E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Cobalt-58	pCi/L	-4.81E-01	5.68E-01	1.84E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Cobalt-60	pCi/L	-8.88E-01	6.71E-01	1.97E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Iodine-131	pCi/L	1.52E+00	1.75E+00	5.48E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Iron-59	pCi/L	2.27E-01	1.27E+00	4.24E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Lanthanum-140	pCi/L	-2.21E+00	1.45E+00	4.06E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Manganese-54	pCi/L	5.79E-02	5.32E-01	1.81E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Niobium-95	pCi/L	1.11E+00	6.54E-01	2.27E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Potassium-40	pCi/L	2.37E+01	1.44E+01	2.07E+01	UI
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Zinc-65	pCi/L	-1.72E-01	1.29E+00	4.24E+00	U
Surface Water	5/31/2022 8:56	6/11/2022 22:06	Zirconium-95	pCi/L	-1.19E+00	1.14E+00	3.39E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Barium-140	pCi/L	1.28E+01	4.79E+00	1.02E+01	UI
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Beryllium-7	pCi/L	4.74E+00	4.24E+00	1.45E+01	U

Surface Water	6/28/2022 8:02	7/8/2022 17:35	Cesium-134	pCi/L	7.89E-01	5.09E-01	1.83E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Cesium-137	pCi/L	8.87E-01	7.84E-01	1.60E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Cobalt-57	pCi/L	2.82E-01	4.00E-01	1.32E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Cobalt-58	pCi/L	-1.17E+00	4.87E-01	1.48E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Cobalt-60	pCi/L	-1.77E-01	5.29E-01	1.69E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Iodine-131	pCi/L	1.60E+00	1.09E+00	3.81E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Iron-59	pCi/L	-9.37E-01	1.12E+00	3.55E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Lanthanum-140	pCi/L	-1.12E-02	1.18E+00	3.79E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Manganese-54	pCi/L	1.82E-01	5.73E-01	1.74E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Niobium-95	pCi/L	6.49E-01	5.48E-01	1.83E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Potassium-40	pCi/L	3.61E+01	1.53E+01	1.71E+01	UI
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Zinc-65	pCi/L	8.88E-01	1.07E+00	3.30E+00	U
Surface Water	6/28/2022 8:02	7/8/2022 17:35	Zirconium-95	pCi/L	7.69E-01	8.46E-01	2.81E+00	U
Surface Water	6/28/2022 8:02	8/5/2022 5:23	Tritium	pCi/L	1.39E+04	5.26E+02	5.08E+02	
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Barium-140	pCi/L	1.92E+00	2.66E+00	9.04E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Beryllium-7	pCi/L	-2.47E+00	4.37E+00	1.43E+01	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Cesium-134	pCi/L	-1.00E+00	9.45E-01	1.89E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Cesium-137	pCi/L	-7.40E-02	5.26E-01	1.71E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Cobalt-57	pCi/L	1.54E-01	4.95E-01	1.62E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Cobalt-58	pCi/L	-8.30E-01	9.04E-01	1.80E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Cobalt-60	pCi/L	7.94E-01	5.41E-01	1.95E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Iodine-131	pCi/L	3.56E-01	1.09E+00	3.71E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Iron-59	pCi/L	-2.04E-01	1.08E+00	3.62E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Lanthanum-140	pCi/L	-1.12E+00	9.63E-01	2.92E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Manganese-54	pCi/L	-1.20E-01	6.04E-01	1.71E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Niobium-95	pCi/L	1.92E+00	5.52E-01	2.03E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Potassium-40	pCi/L	2.15E+01	2.06E+01	1.77E+01	UI
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Zinc-65	pCi/L	-1.99E-01	1.14E+00	3.37E+00	U
Surface Water	7/26/2022 8:00	8/3/2022 16:12	Zirconium-95	pCi/L	-3.52E-02	9.59E-01	3.10E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Barium-140	pCi/L	3.04E-01	2.43E+00	8.22E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Beryllium-7	pCi/L	1.01E+00	4.26E+00	1.45E+01	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Cesium-134	pCi/L	5.87E-01	5.58E-01	1.92E+00	U

Surface Water	8/30/2022 8:03	9/6/2022 13:13	Cesium-137	pCi/L	-1.06E+00	9.03E-01	1.87E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Cobalt-57	pCi/L	2.87E-01	4.64E-01	1.54E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Cobalt-58	pCi/L	6.96E-01	4.90E-01	1.70E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Cobalt-60	pCi/L	9.44E-02	4.90E-01	1.60E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Iodine-131	pCi/L	2.46E-02	9.16E-01	2.92E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Iron-59	pCi/L	3.16E-01	9.90E-01	3.28E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Lanthanum-140	pCi/L	-1.30E+00	9.19E-01	2.72E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Manganese-54	pCi/L	1.78E-01	5.20E-01	1.74E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Niobium-95	pCi/L	1.10E+00	4.97E-01	1.77E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Potassium-40	pCi/L	7.46E+00	1.26E+01	1.68E+01	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Zinc-65	pCi/L	2.61E+00	1.00E+00	3.63E+00	U
Surface Water	8/30/2022 8:03	9/6/2022 13:13	Zirconium-95	pCi/L	7.54E-01	8.18E-01	2.81E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Barium-140	pCi/L	4.27E+00	2.59E+00	9.06E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Beryllium-7	pCi/L	2.60E+00	4.39E+00	1.49E+01	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Cesium-134	pCi/L	2.36E-01	5.28E-01	1.74E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Cesium-137	pCi/L	9.71E-01	9.07E-01	1.63E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Cobalt-57	pCi/L	1.07E+00	4.88E-01	1.65E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Cobalt-58	pCi/L	1.40E-01	5.29E-01	1.72E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Cobalt-60	pCi/L	-4.84E-01	5.05E-01	1.59E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Iodine-131	pCi/L	-1.50E+00	1.03E+00	3.36E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Iron-59	pCi/L	1.07E+01	3.09E+00	3.44E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Lanthanum-140	pCi/L	1.68E-01	1.03E+00	3.42E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Manganese-54	pCi/L	-7.62E-01	4.88E-01	1.45E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Niobium-95	pCi/L	9.65E-01	5.34E-01	1.85E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Potassium-40	pCi/L	6.71E+00	1.52E+01	1.74E+01	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Zinc-65	pCi/L	-1.74E-02	1.16E+00	3.44E+00	U
Surface Water	9/27/2022 10:12	10/5/2022 16:02	Zirconium-95	pCi/L	-1.64E-01	8.40E-01	2.69E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Barium-140	pCi/L	3.62E-01	3.56E+00	1.16E+01	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Beryllium-7	pCi/L	8.61E-01	4.54E+00	1.50E+01	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Cesium-134	pCi/L	2.98E-01	5.26E-01	1.82E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Cesium-137	pCi/L	8.27E-01	1.30E+00	1.72E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Cobalt-57	pCi/L	3.23E-01	4.40E-01	1.44E+00	U

Surface Water	10/25/2022 11:02	11/7/2022 17:00	Cobalt-58	pCi/L	2.32E-01	4.68E-01	1.62E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Cobalt-60	pCi/L	-1.88E-02	5.33E-01	1.72E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Iodine-131	pCi/L	-1.18E+00	1.49E+00	4.88E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Iron-59	pCi/L	1.18E+00	1.09E+00	3.79E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Lanthanum-140	pCi/L	-6.20E-01	1.23E+00	3.45E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Manganese-54	pCi/L	-4.82E-02	4.72E-01	1.59E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Niobium-95	pCi/L	3.15E-01	5.72E-01	1.76E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Potassium-40	pCi/L	4.48E+01	1.36E+01	1.80E+01	
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Zinc-65	pCi/L	9.42E-01	1.03E+00	3.19E+00	U
Surface Water	10/25/2022 11:02	11/7/2022 17:00	Zirconium-95	pCi/L	4.32E-01	9.26E-01	3.20E+00	U
Surface Water	7/26/2022 8:00	11/12/2022 6:18	Tritium	pCi/L	9.38E+03	4.65E+02	5.64E+02	
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Barium-140	pCi/L	-2.32E+00	3.95E+00	8.39E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Beryllium-7	pCi/L	1.86E+00	4.15E+00	1.24E+01	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Cesium-134	pCi/L	-2.39E-01	5.44E-01	1.49E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Cesium-137	pCi/L	3.42E-01	4.67E-01	1.55E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Cobalt-57	pCi/L	7.51E-02	3.84E-01	1.22E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Cobalt-58	pCi/L	-2.45E-01	4.73E-01	1.46E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Cobalt-60	pCi/L	2.34E-01	4.72E-01	1.59E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Iodine-131	pCi/L	-1.67E+00	9.37E-01	2.95E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Iron-59	pCi/L	-6.47E-02	9.03E-01	3.00E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Lanthanum-140	pCi/L	-1.39E-02	8.13E-01	2.63E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Manganese-54	pCi/L	-3.18E-01	4.12E-01	1.35E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Niobium-95	pCi/L	8.02E-01	4.77E-01	1.63E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Potassium-40	pCi/L	1.95E+01	1.35E+01	1.36E+01	UI
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Zinc-65	pCi/L	3.97E-01	9.03E-01	3.08E+00	U
Surface Water	11/29/2022 10:01	12/8/2022 16:13	Zirconium-95	pCi/L	7.67E-01	1.19E+00	2.57E+00	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Barium-140	pCi/L	-3.57E+00	2.43E+00	7.64E+00	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Beryllium-7	pCi/L	-1.11E+00	3.34E+00	1.10E+01	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Cesium-134	pCi/L	-3.32E-01	4.07E-01	1.26E+00	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Cesium-137	pCi/L	1.14E-01	3.64E-01	1.20E+00	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Cobalt-57	pCi/L	1.19E-01	3.20E-01	1.05E+00	U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Cobalt-58	pCi/L	-8.43E-02	3.50E-01	1.11E+00	U

Surface Water	12/27/2022 11:10	1/9/2023 13:33	Cobalt-60	pCi/L	5.81E-01	3.59E-01	1.29E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Iodine-131	pCi/L	-5.80E-02	1.07E+00	3.62E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Iron-59	pCi/L	-8.35E-02	8.15E-01	2.74E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Lanthanum-140	pCi/L	-3.25E-01	8.79E-01	2.82E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Manganese-54	pCi/L	-1.85E-01	3.55E-01	1.11E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Niobium-95	pCi/L	-1.43E+00	9.22E-01	1.41E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Potassium-40	pCi/L	1.89E+01	1.05E+01	1.23E+01		UI
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Zinc-65	pCi/L	-4.90E-01	7.62E-01	2.50E+00		U
Surface Water	12/27/2022 11:10	1/9/2023 13:33	Zirconium-95	pCi/L	-6.70E-01	6.68E-01	2.06E+00		U
Surface Water	12/27/2022 11:10	2/11/2023 5:11	Tritium	pCi/L	8.42E+03	4.36E+02	5.83E+02		

Sample Data For: "SW-6"

Matrix	Collect Date	Run Date	Parmname	Units	Result	Uncertainty	MDC	LLD	Qualifier
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Barium-140	pCi/L	-2.75E-01	2.73E+00	8.73E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Beryllium-7	pCi/L	2.70E+00	4.33E+00	1.42E+01		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Cesium-134	pCi/L	6.03E-01	5.15E-01	1.81E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Cesium-137	pCi/L	6.21E-01	5.03E-01	1.68E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Cobalt-57	pCi/L	-6.50E-01	4.42E-01	1.46E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Cobalt-58	pCi/L	-4.16E-01	4.80E-01	1.57E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Cobalt-60	pCi/L	1.80E+00	1.07E+00	1.71E+00		UI
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Iodine-131	pCi/L	-2.57E+00	1.03E+00	3.13E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Iron-59	pCi/L	-8.34E-02	1.08E+00	3.57E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Lanthanum-140	pCi/L	3.87E+00	2.85E+00	2.74E+00		UI
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Manganese-54	pCi/L	-2.58E-01	8.06E-01	1.76E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Niobium-95	pCi/L	5.51E-01	4.95E-01	1.74E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Potassium-40	pCi/L	1.33E+01	1.65E+01	1.65E+01		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Zinc-65	pCi/L	1.72E+00	1.09E+00	3.85E+00		U
Surface Drinking	1/25/2022 8:45	2/2/2022 12:26	Zirconium-95	pCi/L	1.21E+00	8.94E-01	3.17E+00		U
Surface Drinking	1/25/2022 8:45	2/8/2022 18:32	Iodine-131	pCi/L	2.42E-01	2.53E-01	8.13E-01		U
Surface Drinking	1/25/2022 8:45	2/17/2022 18:18	BETA	pCi/L	1.35E+01	2.10E+00	6.03E+00		DL
Surface Drinking	2/22/2022 7:30	3/3/2022 16:12	Iodine-131	pCi/L	3.49E-01	1.84E-01	6.58E-01		U

Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Barium-140	pCi/L	-1.01E+01	4.68E+00	1.43E+01	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Beryllium-7	pCi/L	2.80E+00	6.12E+00	2.10E+01	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Cesium-134	pCi/L	9.24E-01	7.54E-01	2.60E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Cesium-137	pCi/L	1.11E+00	7.15E-01	2.52E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Cobalt-57	pCi/L	3.30E-01	5.67E-01	1.92E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Cobalt-58	pCi/L	7.21E-02	7.28E-01	2.37E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Cobalt-60	pCi/L	-3.77E-01	6.98E-01	2.24E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Iodine-131	pCi/L	-2.34E+00	2.06E+00	6.10E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Iron-59	pCi/L	-2.71E+00	1.87E+00	5.00E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Lanthanum-140	pCi/L	-1.77E+00	2.69E+00	5.94E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Manganese-54	pCi/L	1.50E+00	7.52E-01	2.66E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Niobium-95	pCi/L	-2.08E-01	7.81E-01	2.51E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Potassium-40	pCi/L	1.14E+01	2.18E+01	2.19E+01	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Zinc-65	pCi/L	-7.82E-01	1.60E+00	4.59E+00	U
Surface Drinking	2/22/2022 7:30	3/7/2022 13:27	Zirconium-95	pCi/L	-2.09E+00	2.97E+00	4.63E+00	U
Surface Drinking	2/22/2022 7:30	3/11/2022 18:41	BETA	pCi/L	1.02E+01	1.75E+00	4.92E+00	DL
Surface Drinking	3/29/2022 6:10	4/5/2022 18:47	Iodine-131	pCi/L	7.28E-02	1.73E-01	5.79E-01	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Barium-140	pCi/L	-1.05E+00	2.31E+00	7.54E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Beryllium-7	pCi/L	3.26E+00	3.57E+00	1.23E+01	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Cesium-134	pCi/L	1.32E-01	4.42E-01	1.45E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Cesium-137	pCi/L	-1.33E+00	6.31E-01	1.41E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Cobalt-57	pCi/L	1.30E-01	3.68E-01	1.20E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Cobalt-58	pCi/L	-4.78E-01	3.97E-01	1.19E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Cobalt-60	pCi/L	6.95E-01	4.95E-01	1.77E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Iodine-131	pCi/L	4.12E-01	8.21E-01	2.82E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Iron-59	pCi/L	1.53E+00	8.93E-01	3.27E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Lanthanum-140	pCi/L	-8.85E-01	8.22E-01	2.52E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Manganese-54	pCi/L	-7.49E-01	3.97E-01	1.14E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Niobium-95	pCi/L	-6.36E-01	7.06E-01	1.40E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Potassium-40	pCi/L	9.67E+00	1.01E+01	1.36E+01	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Zinc-65	pCi/L	-6.78E-01	8.83E-01	2.87E+00	U
Surface Drinking	3/29/2022 6:10	4/6/2022 17:40	Zirconium-95	pCi/L	-1.99E+00	1.47E+00	2.24E+00	U

Surface Drinking	3/29/2022 6:10	4/15/2022 18:59	BETA	pCi/L	1.27E+01	1.51E+00	4.17E+00	DL
Surface Drinking	4/26/2022 7:31	5/6/2022 7:43	Iodine-131	pCi/L	-3.79E-01	2.11E-01	6.44E-01	U
Surface Drinking	4/26/2022 7:31	5/9/2022 19:10	BETA	pCi/L	1.27E+01	1.87E+00	5.44E+00	DL
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Barium-140	pCi/L	7.91E-01	4.07E+00	1.39E+01	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Beryllium-7	pCi/L	-6.26E+00	5.35E+00	1.63E+01	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Cesium-134	pCi/L	5.16E-01	5.81E-01	1.97E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Cesium-137	pCi/L	-3.10E-01	1.21E+00	2.55E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Cobalt-57	pCi/L	-2.97E-01	4.59E-01	1.48E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Cobalt-58	pCi/L	7.53E-01	6.35E-01	2.16E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Cobalt-60	pCi/L	1.50E-01	6.20E-01	2.05E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Iodine-131	pCi/L	3.97E-01	1.73E+00	5.69E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Iron-59	pCi/L	1.78E+00	1.20E+00	4.27E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Lanthanum-140	pCi/L	6.56E+00	1.72E+00	5.39E+00	UI
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Manganese-54	pCi/L	-2.38E-01	5.36E-01	1.70E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Niobium-95	pCi/L	5.72E-02	6.32E-01	2.07E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Potassium-40	pCi/L	1.05E+01	1.37E+01	1.69E+01	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Zinc-65	pCi/L	-1.13E+00	1.23E+00	3.92E+00	U
Surface Drinking	4/26/2022 7:31	5/10/2022 14:41	Zirconium-95	pCi/L	2.76E-01	1.19E+00	3.92E+00	U
Surface Drinking	3/29/2022 6:10	5/18/2022 10:47	Tritium	pCi/L	1.32E+04	4.58E+02	7.38E+02	
Surface Drinking	5/31/2022 7:27	6/10/2022 18:03	Iodine-131	pCi/L	1.89E-01	2.16E-01	7.48E-01	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Barium-140	pCi/L	9.39E+00	4.01E+00	1.43E+01	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Beryllium-7	pCi/L	3.40E+00	5.48E+00	1.87E+01	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Cesium-134	pCi/L	1.44E-01	6.50E-01	2.12E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Cesium-137	pCi/L	2.94E-01	6.04E-01	2.02E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Cobalt-57	pCi/L	1.09E+00	7.55E-01	1.74E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Cobalt-58	pCi/L	-2.12E-01	6.16E-01	1.96E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Cobalt-60	pCi/L	2.97E-01	5.71E-01	1.97E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Iodine-131	pCi/L	-2.72E-01	1.62E+00	5.48E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Iron-59	pCi/L	2.66E-01	1.08E+00	3.71E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Lanthanum-140	pCi/L	-1.27E+00	1.07E+00	3.19E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Manganese-54	pCi/L	-3.79E-01	5.75E-01	1.79E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Niobium-95	pCi/L	1.42E-01	6.75E-01	2.21E+00	U

Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Potassium-40	pCi/L	3.51E+01	1.46E+01	1.87E+01	
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Zinc-65	pCi/L	6.71E-01	9.06E-01	3.21E+00	U
Surface Drinking	5/31/2022 7:27	6/11/2022 21:53	Zirconium-95	pCi/L	-4.27E-01	1.16E+00	3.71E+00	U
Surface Drinking	5/31/2022 7:27	6/17/2022 18:58	BETA	pCi/L	8.70E+00	2.33E+00	7.24E+00	DL
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Barium-140	pCi/L	-2.50E+00	2.70E+00	8.46E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Beryllium-7	pCi/L	-8.69E-01	4.25E+00	1.39E+01	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Cesium-134	pCi/L	1.11E+00	5.24E-01	1.93E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Cesium-137	pCi/L	-6.21E-01	5.30E-01	1.61E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Cobalt-57	pCi/L	2.82E-01	4.18E-01	1.37E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Cobalt-58	pCi/L	5.11E-01	5.11E-01	1.80E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Cobalt-60	pCi/L	-8.50E-01	5.24E-01	1.52E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Iodine-131	pCi/L	8.27E-03	1.07E+00	3.59E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Iron-59	pCi/L	-2.90E+00	1.23E+00	2.91E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Lanthanum-140	pCi/L	1.21E-01	1.00E+00	3.24E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Manganese-54	pCi/L	-5.80E-01	5.30E-01	1.48E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Niobium-95	pCi/L	2.80E-01	5.34E-01	1.73E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Potassium-40	pCi/L	5.03E+01	1.12E+01	1.85E+01	
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Zinc-65	pCi/L	-3.84E-01	1.38E+00	3.26E+00	U
Surface Drinking	7/26/2022 6:51	8/4/2022 16:11	Zirconium-95	pCi/L	5.16E-01	1.01E+00	3.28E+00	U
Surface Drinking	7/26/2022 6:51	8/5/2022 18:40	Iodine-131	pCi/L	1.88E-01	2.78E-01	9.02E-01	U
Surface Drinking	7/26/2022 6:51	8/22/2022 19:13	BETA	pCi/L	1.60E+01	2.41E+00	7.24E+00	DL
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Barium-140	pCi/L	-4.75E+00	4.96E+00	8.19E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Beryllium-7	pCi/L	8.58E-01	4.50E+00	1.44E+01	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Cesium-134	pCi/L	3.20E-01	5.23E-01	1.77E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Cesium-137	pCi/L	9.16E-02	5.34E-01	1.80E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Cobalt-57	pCi/L	8.84E-02	4.26E-01	1.47E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Cobalt-58	pCi/L	-8.14E-02	5.05E-01	1.66E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Cobalt-60	pCi/L	-6.68E-01	4.41E-01	1.35E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Iodine-131	pCi/L	-6.63E-01	8.98E-01	2.85E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Iron-59	pCi/L	4.41E-01	1.04E+00	3.42E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Lanthanum-140	pCi/L	2.96E-01	9.00E-01	3.03E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Manganese-54	pCi/L	-7.97E-01	4.81E-01	1.48E+00	U

Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Niobium-95	pCi/L	1.06E+00	5.33E-01	1.89E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Potassium-40	pCi/L	1.67E+01	1.27E+01	1.56E+01	UI
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Zinc-65	pCi/L	5.60E-01	1.16E+00	3.81E+00	U
Surface Drinking	8/30/2022 7:01	9/6/2022 13:12	Zirconium-95	pCi/L	6.21E-03	8.77E-01	2.91E+00	U
Surface Drinking	8/30/2022 7:01	9/8/2022 18:31	BETA	pCi/L	1.15E+01	1.75E+00	5.05E+00	DL
Surface Drinking	8/30/2022 7:01	9/9/2022 12:25	Iodine-131	pCi/L	3.68E-01	2.74E-01	8.42E-01	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Barium-140	pCi/L	-1.15E+00	2.84E+00	7.20E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Beryllium-7	pCi/L	2.33E+00	3.58E+00	1.18E+01	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Cesium-134	pCi/L	5.49E-01	4.28E-01	1.51E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Cesium-137	pCi/L	6.81E-01	4.59E-01	1.54E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Cobalt-57	pCi/L	9.66E-03	3.42E-01	1.17E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Cobalt-58	pCi/L	-3.45E-01	4.00E-01	1.30E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Cobalt-60	pCi/L	-7.00E-01	7.38E-01	1.32E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Iodine-131	pCi/L	8.43E-01	7.35E-01	2.49E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Iron-59	pCi/L	5.57E-01	8.31E-01	2.83E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Lanthanum-140	pCi/L	-5.72E-01	7.29E-01	2.24E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Manganese-54	pCi/L	-6.33E-01	6.87E-01	1.31E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Niobium-95	pCi/L	3.13E-01	4.13E-01	1.43E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Potassium-40	pCi/L	2.75E+01	1.23E+01	1.23E+01	UI
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Zinc-65	pCi/L	2.24E-02	7.83E-01	2.59E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 13:42	Zirconium-95	pCi/L	3.85E-01	6.82E-01	2.36E+00	U
Surface Drinking	9/27/2022 7:32	10/4/2022 15:49	Iodine-131	pCi/L	3.15E-01	2.42E-01	7.03E-01	U
Surface Drinking	9/27/2022 7:32	10/25/2022 18:48	BETA	pCi/L	1.46E+01	1.85E+00	5.36E+00	DL
Surface Drinking	10/25/2022 12:25	11/3/2022 17:32	Iodine-131	pCi/L	-1.09E-01	2.56E-01	8.57E-01	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Barium-140	pCi/L	3.96E+00	3.80E+00	1.31E+01	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Beryllium-7	pCi/L	4.89E+00	4.94E+00	1.71E+01	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Cesium-134	pCi/L	2.50E-01	6.07E-01	2.00E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Cesium-137	pCi/L	3.71E-01	6.01E-01	2.02E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Cobalt-57	pCi/L	9.70E-01	8.85E-01	1.73E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Cobalt-58	pCi/L	8.63E-01	5.84E-01	2.03E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Cobalt-60	pCi/L	8.18E-01	6.44E-01	2.30E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Iodine-131	pCi/L	4.92E+00	2.10E+00	6.19E+00	U

Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Iron-59	pCi/L	-1.37E+00	1.19E+00	3.76E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Lanthanum-140	pCi/L	-8.69E-01	1.37E+00	4.28E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Manganese-54	pCi/L	1.82E-01	6.09E-01	1.78E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Niobium-95	pCi/L	-1.58E+00	9.14E-01	2.06E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Potassium-40	pCi/L	4.54E+01	1.79E+01	2.01E+01	
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Zinc-65	pCi/L	8.80E-01	1.71E+00	3.97E+00	U
Surface Drinking	10/25/2022 12:25	11/7/2022 17:00	Zirconium-95	pCi/L	-1.06E+00	9.94E-01	3.03E+00	U
Surface Drinking	10/25/2022 12:25	11/23/2022 18:59	BETA	pCi/L	1.77E+01	2.04E+00	5.70E+00	DL
Surface Drinking	9/27/2022 7:32	11/14/2022 12:14	Tritium	pCi/L	1.26E+04	4.34E+02	6.58E+02	
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Barium-140	pCi/L	-1.20E+00	2.82E+00	9.15E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Beryllium-7	pCi/L	-2.48E+00	4.05E+00	1.32E+01	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Cesium-134	pCi/L	5.20E-01	5.27E-01	1.60E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Cesium-137	pCi/L	4.06E-01	5.00E-01	1.67E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Cobalt-57	pCi/L	3.61E-01	4.33E-01	1.41E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Cobalt-58	pCi/L	-3.74E-02	4.61E-01	1.47E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Cobalt-60	pCi/L	6.97E-01	5.86E-01	1.54E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Iodine-131	pCi/L	-1.04E+00	9.96E-01	3.27E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Iron-59	pCi/L	2.52E+00	1.72E+00	2.95E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Lanthanum-140	pCi/L	9.81E-02	8.48E-01	2.46E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Manganese-54	pCi/L	-5.77E-01	4.76E-01	1.44E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Niobium-95	pCi/L	2.35E-01	6.70E-01	1.66E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Potassium-40	pCi/L	2.34E+00	1.24E+01	1.36E+01	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Zinc-65	pCi/L	-2.04E+00	9.21E-01	2.78E+00	U
Surface Drinking	11/29/2022 8:29	12/8/2022 16:15	Zirconium-95	pCi/L	-1.07E+00	8.26E-01	2.50E+00	U
Surface Drinking	11/29/2022 8:29	12/16/2022 18:21	Iodine-131	pCi/L	-1.48E-01	2.66E-01	8.90E-01	U
Surface Drinking	11/29/2022 8:29	12/21/2022 18:40	BETA	pCi/L	1.46E+01	2.06E+00	5.69E+00	DL
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Barium-140	pCi/L	1.88E+00	2.61E+00	8.73E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Beryllium-7	pCi/L	-3.10E+00	5.85E+00	1.24E+01	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Cesium-134	pCi/L	8.15E-01	4.43E-01	1.50E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Cesium-137	pCi/L	-5.79E-01	7.58E-01	1.39E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Cobalt-57	pCi/L	-4.19E-01	3.35E-01	1.06E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Cobalt-58	pCi/L	-3.59E-01	4.17E-01	1.27E+00	U

Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Cobalt-60	pCi/L	3.34E-01	4.22E-01	1.43E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Iodine-131	pCi/L	-3.07E-02	1.17E+00	3.91E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Iron-59	pCi/L	1.30E-01	8.73E-01	2.92E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Lanthanum-140	pCi/L	-1.20E+00	8.62E-01	2.55E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Manganese-54	pCi/L	-1.74E-01	3.66E-01	1.22E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Niobium-95	pCi/L	4.56E-01	4.58E-01	1.51E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Potassium-40	pCi/L	1.19E+01	1.02E+01	1.29E+01	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Zinc-65	pCi/L	-6.11E-01	8.30E-01	2.68E+00	U
Surface Drinking	12/27/2022 9:58	1/9/2023 13:32	Zirconium-95	pCi/L	-3.76E-01	7.84E-01	2.45E+00	U
Surface Drinking	12/27/2022 9:58	1/12/2023 18:44	Iodine-131	pCi/L	2.88E-01	2.66E-01	8.52E-01	U
Surface Drinking	12/27/2022 9:58	1/21/2023 13:15	BETA	pCi/L	1.15E+01	2.12E+00	6.36E+00	DL
Surface Drinking	12/27/2022 9:58	2/11/2023 4:38	Tritium	pCi/L	1.20E+04	5.22E+02	6.14E+02	

Appendix B

Comanche Peak Nuclear Power Plant Land Use Census 2022

COMANCHE PEAK NUCLEAR POWER PLANT

LAND USE CENSUS 2022

The Land Use Census identified receptors within a five (5) mile radius of the plant in each of the sixteen (16) meteorological sectors. The Land Use Census was conducted June 6-9, 2022 and includes the following items:

1. Evaluation of the 2022 Land Use Census
2. Nearest Resident by Sector, Distance, X/Q and D/Q
3. Nearest Garden by Sector, Distance and D/Q
4. Nearest Milk Animal by Sector, Distance and D/Q
5. Population by Sector and Distance
6. Environmental Sample Locations Table
7. Environmental Monitoring Locations Map – 2 Mile Radius
8. 5 Mile Sector and Road Map with Field Data*
9. Environmental Monitoring Locations Map – all sample locations*

*These maps are vaulted along with this census. Copies of this census will not contain a copy of these maps unless specifically requested.

Evaluation of the 2022 Land Use Census

The results of the 2022 Land Use Census were reviewed for impact on the Radiological Environmental Monitoring Program (REMP). The specific areas reviewed, that could be affected by changes found in the land use census, were the sampling requirements for milk, broadleaf vegetation and food products.

Reviewing the milk sampling requirements from the ODCM Table 3.12-1 requires that samples are to be obtained from milking animals in three locations within a 5 km distance having the highest potential dose. If none are available, samples are acceptable from milking animals in locations 5 to 8 km distance where doses are calculated to be greater than 1 mRem per year. A sample is also required at a control location. There are currently no identified milking animals (cow or goat) within the specified distances therefore; there are no current milk samples during the year 2022.

If no milk samples are available, the broadleaf vegetation sampling specified in ODCM Table 3.12-1 will be performed. Broadleaf sample requirements are such that samples of broadleaf vegetation are to be collected from each of two offsite locations of the highest predicted annual average D/Q if milk sampling is not performed at all the required locations. Currently, broadleaf vegetation samples are collected at two indicator locations (N - 1.45 and SW - 1.0) and one control location (SW - 13.5). These indicator locations are near the site boundary in sectors where broadleaf vegetation is available, and D/Q is high. Therefore, no change to the broadleaf sampling program is required.

Food product sample requirements of ODCM Table 3.12-1 requires that one sample of each principal class of food product be collected from any area that is irrigated with water in which liquid plant waste has been discharged. Of the gardens identified in the land use census, no gardens are located in any area that irrigates with water in which liquid plant wastes are discharged. Currently, food products are sampled from two locations (ENE - 9.0) and (E-4.2) when in season. The location ENE-9.0 is for pecans at time of harvest and location E-4.2 will continue to be a major source of food products sold to the public.

The location E-4.2 had tomatoes which were collected from this location as a conservative measure. This garden does not meet the ODCM Table 3.12-1 requirements because the products are not irrigated by water in which liquid plant wastes have been discharged.

Calculated values for the associated X/Q and D/Q values for each controlling receptor location and pathway are included along with the receptor distances in the data tables of this land use census. The values used to determine potential dose due to radioactive effluent discharges are the highest calculated values based on annual average values. The following values are based on the original pre-operational and subsequent Comanche Peak 3 and 4 new build calculations which identified predominant wind direction, structures affecting potential release patterns, and area population. The annual average X/Q used for dose calculations is 3.30E-6, tritium X/Q is 4.36E-6, and the D/Q value is 3.34 E-8. All these values are conservative based on the 2017 Land Use Census data and therefore no changes are required in the dose calculation parameters as verified by the field data.

* X/Q units are Sec/cubic meter * D/Q units are inverse square meters

Nearest Resident by Sector, Distance, X/Q and D/Q

Sector	Distance (Miles)	X/Q	D/Q
N	2.6	6.39E-07	3.50E-09
NNE	2.5	4.20E-07	2.00E-09
NE	2.5	2.90E-07	1.00E-09
ENE	2.6	2.20E-07	5.77E-10
E	2.5	2.70E-07	5.80E-10
ESE	2.2	4.02E-07	9.00E-10
SE	2.0	7.1E-07	2.80E-09
SSE	1.5	1.10E-06	6.60E-09
S	1.5	8.50E-07	5.20E-09
SSW	1.8	5.04 E-7	2.42 E-9
SW	0.8	3.56E-06	1.85E-08
WSW	0.8	3.92E-06	1.63E-08
W	1.6	7.64E-07	2.50E-09
WNW	2.5	4.70E-07	1.40E-09
NW	4.8	2.52E-07	6.20E-10
NNW	2.2	1.12E-06	5.16E-09

Note: The Annual Average X/Q used for dose calculations is 3.30E-06 sec/cubic meter.
The Tritium value X/Q used for dose calculations is 4.36E-06 sec/cubic meter.
The Annual Average D/Q used for dose calculations is 3.34E-08 inverse square meters.

Nearest Garden by Sector, Distance and D/Q

Sector	Distance (Miles)*	D/Q
N	None	None
NNE	None	None
NE	None	None
ENE	None	None
E	4.2	2.00E-10
ESE	None	None
SE	None	None
SSE	None	None
S	None	None
SSW	None	None
SW	None	None
WSW	None	None
W	None	None
WNW	None	None
NW	None	None
NNW	None	None

Nearest Milk Animal by Sector, Distance and D/Q

Sector	Distance (Miles)*	D/Q
N	None	None
NNE	None	None
NE	None	None
ENE	None	None
E	None	None
ESE	None	None
SE	None	None
SSE	None	None
S	None	None
SSW	None	None
SW	None	None
WSW	None	None
W	None	None
WNW	None	None
NW	None	None
NNW	None	None

*No Milk samples are currently being collected.

Population by Sector and Distance

Sector	0-1	1-2	2-3	3-4	4-5	Total
N	-	-	13	81	114	208
NNE	-	-	8	74	72	154
NE	-	-	182	179	320	681
ENE	-	-	111	31	62	204
E	-	-	203	304	43	550
ESE	-	-	111	134	164	409
SE	-	-	243	548	155	946
SSE	-	105	157	130	2798	3190
S	-	30	133	64	307	534
SSW	-	6	8	11	80	105
SW	8	134	17	98	65	322
WSW	36	161	11	11	-	219
W	-	112	10	23	15	160
WNW	-	-	14	64	155	233
NW	-	-	-	-	7	7
NNW	-	-	5	46	57	108
TOTAL	44	548	1226	1798	4414	8030

The average number of residents per house was obtained from North Central Texas Council of Governments for Hood and Somervell Counties. The number of residents per house is 2.56 and 2.60, respectively. (<http://www.indexmundi.com/facts/united-states/quick-facts/texas/average-household-size#table>)

Hood County, Texas/ Somervell County, Texas

Age

- Persons under 5 years 5.6% / 5.0%
- Persons under 18 years 21.3% / 22.4%
- Persons 65 years and older 24.6% / 18.9%

(Population estimates as of July, 1 2018)

Environmental Sample Locations Table

Sampling Point	Location	Sample Type*
A1	N-1.45 (Squaw Creek Park)	A
A2	N-9.4 (Granbury)	A
A3	E-3.5 (Children's Home)	A
A4	SSE-4.5 (Glen Rose)	A
A5	S/SSW-1.2	A
A6	SW-12.3 (CONTROL)	A
A7	SW/WSW-0.95	A
A8	NW-1.0	A
R1	N-1.45 (Squaw Creek Park)	R
R2	N-4.4	R
R3	N-6.5	R
R4	N-9.4 (Granbury)	R
R5	NNE-1.1	R
R6	NNE-5.65	R
R7	NE-1.7	R
R8	NE-4.8	R
R9	ENE-2.5	R
R10	ENE-5.0	R
R11	E-0.5	R
R12	E-1.9	R
R13	E-3.5 (Children's Home)	R
R14	E-4.2	R
R15	ESE-1.4	R
R16	ESE-4.7	R
R17	SE-1.3	R
R18	SE-3.85	R

*Sample Type: A - Air Sample; R - Direct Radiation; SW - Surface Water; DW - Drinking Water; GW - Ground Water; SS - Shoreline Sediments; M - Milk; F - Fish; FP - Food Products; BL - Broadleaf Vegetation

Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
R19	SE-4.6	R
R20	SSE-1.3	R
R21	SSE-4.4 (Glen Rose)	R
R22	SSE-4.5 (Glen Rose)	R
R23	S-1.5	R
R24	S-4.2	R
R25	S/SSW-1.2	R
R26	SSW-4.4 (State Park)	R
R27	SW-0.9	R
R28	SW-4.8 (Girl Scout Camp)	R
R29	SW-12.3 (CONTROL)	R
R30	WSW-1.0	R
R31	WSW-5.35	R
R32	WSW-7.0 (CONTROL)	R
R33	W-1.0	R
R34	W-2.0	R
R35	W-5.5	R
R36	WNW-1.0	R
R37	WNW-5.0	R
R38	WNW-6.7	R
R39	NW-1.0	R
R40	NW-5.7	R
R41	NW-9.9 (Tolar)	R
R42	NNW-1.35	R
R43	NNW-4.6	R
R44	SE-0.6	R
R45	SE-0.6	R
R46	SE-0.6	R
R47	SE-0.6	R

*Sample Type: A - Air Sample; R - Direct Radiation; SW - Surface Water; DW - Drinking Water; GW - Ground Water; SS - Shoreline Sediments; M - Milk; F - Fish; FP - Food Products; BL - Broadleaf Vegetation

Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
SW1	N-1.5 (Squaw Creek Reservoir Marina)	SW
SW2	N-9.9 (Lake Granbury)	SW/DW ¹
SW3	N-19.3 (CONTROL-Brazos River)	SW
SW4	NE-7.4 (Lake Granbury)	SW
SW5	ESE-1.4 (Squaw Creek Reservoir)	SW ²
SW6	NNW-0.1 (Squaw Creek Reservoir)	SW/DW ^{2,3}
GW1	W-1.2 (Security Rifle Range)	GW ⁷
GW2	WSW-0.1 (Somerville Water district)	GW ^{3,4,6}
GW3	SSE-4.6 (Glen Rose – Somerville Water District)	GW ⁴
GW4	N-9.8 (Granbury)	GW ^{1,4,6}
GW5	N-1.45 (Squaw Creek Park)	GW ⁴
SS1	NNE-1.0 (Squaw Creek Reservoir)	SS
SS2	N-9.9 (Lake Granbury)	SS
SS3	NE-7.4 (Lake Granbury)	SS
SS4	SE-5.3 (Squaw Creek)	SS
F1	SE-0.1 (Squaw Creek Reservoir)	F
F2	NNE-8.0 (Lake Granbury)	F
FP1	ENE-9.0 (Leonard Bros. Pecan Farm)	FP
FP2	E-4.2 (Hornick's Produce Farm)	FP

*Sample Type: A - Air Sample; R - Direct Radiation; SW - Surface Water; DW - Drinking Water; GW - Ground Water; SS - Shoreline Sediments; M - Milk; F - Fish; FP - Food Products; BL - Broadleaf Vegetation

Environmental Sample Locations Table (cont.)

Sampling Point	Location	Sample Type*
BL1	N-1.45	BL
BL2	SW-1.0	BL ⁵
BL3	SW-13.5 (CONTROL)	BL ⁵

*Sample Type: A - Air Sample; R - Direct Radiation; SW - Surface Water; DW - Drinking Water GW - Ground Water; SS - Shoreline Sediments; M - Milk; F - Fish; FP - Food Products; BL - Broadleaf Vegetation

NOTES:

1. The municipal water system for the City of Granbury is supplied by surface water from Lake Granbury (location SW2) and ground water (location GW4). Each of these supplies is sampled. These samples are not required for compliance with Radiological Effluent Control 3/4.12.1, Table 3.12-1, because they are not affected by plant discharges.
2. This sample (location SW6) is representative of discharges from Squaw Creek Reservoir both down Squaw Creek and to Lake Granbury via the return line to Lake Granbury if used.
3. Plant potable water could be supplied by surface water from Squaw Creek Reservoir (location SW6) or ground water from onsite wells (location GW2) but is currently supplied by the Somerville County Water District from the Wheeler Branch Reservoir. Each of these possible sources of water were sampled.
4. Ground water supplies in the plant site area are not affected by plant liquid effluents as discussed in CPSES FSAR Section 2.4.13. However, they are monitored for radioactivity IAW the requirements of the Radiological Effluent Control 3/4.12.1, Table 3.12-1.
5. Broadleaf sampling will be performed at the specified locations if milk samples are unavailable from any location.
6. Plant Potable Water (GW2) and Glen Rose (GW3) are supplied from surface water by the Somerville Water District from the Wheeler Branch Reservoir.
7. CPNPP Security Rifle Range (GW1) is supplied by a local Well.

