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NRC-21-0026

TS 5.6.2  
TS 5.6.3  
10 CFR 72.44(d)(3)

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

Fermi 2 Power Plant  
NRC Docket No. 50-341  
NRC License No. NPF-43

Subject: Annual Radioactive Effluent Release Report  
and Radiological Environmental Operating Report

In accordance with Technical Specifications (TS) 5.6.2 and 5.6.3, DTE Electric Company hereby submits the Annual Radioactive Effluent Release Report and the Annual Radiological Environmental Operating Report for Fermi 2. Enclosure 1 provides the 2020 Annual Radioactive Effluent Release Report. Enclosure 2 provides the 2020 Annual Radiological Environmental Operating Report. Both reports cover the time period from January 1, 2020 through December 31, 2020.

Enclosure 1 also includes the Independent Spent Fuel Storage Installation (ISFSI) Environmental Report as required by 10 CFR 72.44(d)(3). The ISFSI Environmental Report covers the time period from January 1, 2020 through December 31, 2020.

No new commitments are being made in this submittal.

Should you have any questions regarding these reports, please contact Ms. Jerri Walters, Manager - Radiation Protection, at (734) 586-7066.

Sincerely,

A handwritten signature in black ink, appearing to read "Peter Dietrich".

Peter Dietrich  
Senior Site Vice President and Chief Nuclear Officer

USNRC  
NRC-21-0026  
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Enclosures: 1) Annual Radioactive Effluent Release Report  
2) Annual Radiological Environmental Operating Report

cc: NRC Project Manager  
NRC Resident Office  
Regional Administrator, Region III

**Enclosure 1 to  
NRC-21-0026**

**Fermi 2 NRC Docket No. 50-341  
Operating License No. NPF-43**

**Fermi 2 Annual Radioactive Effluent Release Report**

**Enclosure 2 to  
NRC-21-0026**

**Fermi 2 NRC Docket No. 50-341  
Operating License No. NPF-43**

**Fermi 2 Annual Radiological Environmental Operating Report**

**FERMI 2 POWER PLANT**  
**DTE Electric Company**  
**OPERATING LICENSE NO. NPF - 43**

**2020**

**Annual Radioactive Effluent Release Report**

**for the period of**  
**January 1, 2020 through December 31, 2020**

Prepared by:

Fermi 2  
Radiological Engineering

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## ***Executive Summary***

This report is published to provide information regarding radioactive effluent monitoring at the Fermi 2 nuclear power plant, including the Independent Spent Fuel Storage Installation (ISFSI). The 2020 Annual Radioactive Effluent Release Report covers the period from January 1, 2020 through December 31, 2020.

The Radioactive Effluent Release Report is produced annually, to document plant releases and offsite dose resulting from these releases. The data presented indicate that the operation of Fermi 2 results in offsite radiation exposures that are well below the applicable allowable levels set by the Nuclear Regulatory Commission (NRC) and the Environmental Protection Agency (EPA).

There were no releases of liquid radioactive effluents from Fermi 2 in 2020. Data on releases of radioactive isotopes in gaseous effluents, as well as regulatory limits and sampling methods for these releases, are contained in the body of the report and in Appendix A.

Regulatory limits for radioactive effluents pertain to allowable offsite doses rather than to quantities of radioactivity released. The highest potential single organ dose to a person living offsite due to iodines, particulates, tritium, and carbon-14 released from the plant was calculated 0.414 mrem to the bone. This corresponds to 2.8% of the federal limit of 15 mrem to any organ specified in 10 CFR 50, Appendix I.

During 2020, no direct radiation dose to members of the public beyond the site boundary was attributed to the operation of Fermi 2, based on analysis of readings of thermoluminescent dosimeters (TLDs) placed at various locations near the Fermi site. The offsite dose due to effluents is a small fraction of the 40 CFR 190 limits. Therefore, the combined direct radiation and effluent dose due to Fermi 2 was in compliance with 40 CFR 190 in 2020.

Data on radioactivity contained in radioactive waste shipments from Fermi 2 to points offsite are contained in the body of the report and in Appendix A. Appendix B of this report describes the Fermi Integrated Ground Water Protection Program. This program was established as part of the site's commitment to conformance with an industry-wide ground water protection initiative. This appendix also contains the results of 2020 quarterly ground water sampling, from 60 monitor wells around Fermi 2 (ground water sampling has been performed under this program since the fall of 2007). Appendix C of this report provides data on tritium concentrations in rainwater samples collected onsite which represent the recapture phenomenon as described in NRC RIS 2008-03. Appendix D of this report contains the meteorological joint frequency distribution tables of wind speed measurements of 2020. Additional sections of the report address Off Site Dose Calculation Manual (ODCM) required monitors which were out of service for more than 30 days in 2020, major changes in radioactive waste processing, the contents of outside temporary tanks, abnormal releases, errata to previous years' reports, and ISFSI monitoring.



## ***Introduction***

During the normal operation of a nuclear power plant, most of the fission products are retained within the fuel and fuel cladding. However, small amounts of radioactive fission products and trace amounts of the component and structure surface corrosion products that have been activated are present in the primary coolant water, as well as tritium and carbon-14. The five types of radioactive material released are noble gases, iodines, particulates, tritium, and carbon-14.

### ***Noble Gases***

Some of the fission products released in airborne effluents are radioactive isotopes of noble gases, such as xenon and krypton. These noble gases are released continuously at low levels while the reactor is operating. Noble gas releases to the environment are reduced by plant systems which delay release of these gases from the plant, which allows a portion of the noble gas activity to decay within plant systems prior to release.

Noble gases are biologically and chemically nonreactive and are readily dispersed in the atmosphere. They do not concentrate in humans or other organisms; however, they contribute to human radiation dose by being an external source of radiation exposure to the body.

### ***Iodines and Particulates***

Fermi 2 calculates offsite dose due to releases of iodine-131 and iodine-133, which are radioisotopes of iodine with half-lives of 8 days and 1 day, respectively, and particulates with half-lives greater than 8 days in gaseous and liquid effluents, and tritium. The principal radioactive particulates released are fission products (e.g., yttrium-91m and barium-139) and activation products (e.g., cobalt-58 and cobalt-60). Gaseous and liquid processing systems, and radioactive waste systems, minimize their discharge.

The main contribution of radioactive iodine to human radiation dose is to the thyroid gland, where the body concentrates iodine. This exposure results from inhalation or ingestion of these iodines. Radioactive isotopes such as cesiums and cobalts, when ingested or inhaled, contribute to radiation exposure of tissues such as the muscle, liver, and intestines. These iodines and particulates are also a source of external radiation exposure if deposited on the ground.

### ***Tritium***

For a Boiling Water Reactor (BWR) plant like Fermi 2, tritium, a radioactive isotope of hydrogen with a half-life of 12.3 years, is released predominantly in the chemical form of tritiated water HTO ( $^3\text{HOH}$ ), in which a tritium nucleus replaces the proton in one of the hydrogen atoms in a regular water molecule ( $\text{H}_2\text{O}$ ). It is detected at Fermi 2 primarily in ventilation exhaust samples. The total tritium activity released in 2020 is 91.8 curies, as shown in Table 4.

A much smaller amount of tritium was released from the Condensate Storage and Condensate Return Tanks, due to water level changes which pushes air out of the tank. It was calculated based on saturated water vapor density, tank tritium concentrations in the liquid and changes in tank

levels. Other small releases of tritium in 2020 were from bladders storing torus water during torus repairs, and from primary containment venting and purging. and These non-ventilation system tritium releases were calculated to be below 0.02 Ci total for 2020, contributing less than 0.03% of Fermi 2 total tritium releases in 2020.

### ***Carbon-14***

Starting in 2009, U.S. nuclear power plants are expected to report releases of carbon-14 (C-14, half-life of approximately 5730 years, decays to N-14 through  $\beta$ -decay). The releases reported are based on calculations using the thermal power rating of the unit and 2020 monthly capacity factors. These calculations conform to a method recommended by the Electric Power Research Institute (EPRI).

US-NRC Regulatory Guide 1.21, Revision 2 states, “The quantity of C-14 discharged can be estimated by sample measurements or by use of a normalized C-14 source term and scaling factors based on power generation.” Based on a public meeting held on January 20, 2011, US-NRC commission agreed to accept the method developed by the Electric Power Research Institute Technical Report “Estimation of Carbon-14 in Nuclear Power Plant Effluents, EPRI, Palo Alto, CA. 2010 1021106”.

In EPRI Report #1021106, for example,  $^{14}\text{C}$  release by a General Electrical BWR/4 rated at 3458 MWth was calculated to be 13.7 Ci/year, dominated by  $^{17}\text{O} (n, \alpha)^{14}\text{C}$  reaction. As a proxy value, EPRI suggested to use a BWR scale factor of 5.1 Ci per GWth-year thermal power production for C-14 release.

For Boiling Water Reactors, 80-95% of C-14 in airborne releases is in the chemical form of  $^{14}\text{CO}_2$ , 5-20% of C-14 released is in the form of C-14 hydrocarbons (International Atomic Energy Agency, July 2004, Technical Reports Series No. 421, Management of Waste Containing Tritium and Carbon-14). In this report, we followed USNRC Regulatory Guide 1.109 (1977), and assume that all C-14 is in the oxide form (CO or  $\text{CO}_2$ ).

The total 2020 C-14 release for Fermi 2 is estimated to be 10.9 curies, as listed in Table-4.

### ***Plant Effluent Monitoring***

Effluents are strictly monitored to ensure that radioactivity released to the environment is as low as reasonably achievable and does not exceed regulatory limits. Effluent control includes the operation of monitoring systems, in-plant and environmental sampling and analyses programs, quality assurance programs for effluent and environmental programs, and procedures covering all aspects of effluent and environmental monitoring.

The radioactive waste treatment systems at Fermi 2 are designed to collect, process, and/or delay the release of liquid and gaseous wastes that contain radioactivity. For example, the 2.0 and 2.2 minute holdup pipes delay the release of radioactive gases so that radioactive decay can occur prior to release. The off-gas system provides additional delay for such gases.

Radioactivity monitoring systems are used to verify that all releases are below regulatory limits. These instruments provide a continuous indication of radioactivity present at the release points. Each instrument is equipped with alarms and indicators in the control room. The alarm setpoints are low enough to ensure that applicable limits will not be exceeded. In some cases, these alarms restrict the release. For example, several alarms cause building ventilation systems to be shut down and/or gaseous releases to be diverted to the standby gas treatment system.

All liquid and gaseous radioactive effluents are evaluated to identify the specific concentrations of radionuclides being released. Sampling and analysis provide a more sensitive and precise method of determining effluent composition than monitoring instruments.

A meteorological tower is located on the Fermi 2 site. It is linked to computers that record the meteorological data. This data is used in calculating dispersion and deposition factors, which are essentially dilution factors between plant release points and points offsite. Coupled with the effluent release data, these factors are used to calculate dose to the public.

Beyond the plant, devices maintained in conjunction with the Radiological Environmental Monitoring Program constantly sample the air in the surrounding environment. Also, frequent samples of other environmental media, such as water and vegetation, are collected to verify that the station radiological effluent program is being appropriately implemented without adverse impact to the surrounding environment.

### ***Exposure Pathways to People***

Radiological exposure pathways define the methods by which people may become exposed to radioactive material. The major pathways of concern are those that could cause the highest calculated radiation dose. These projected pathways are determined from the type and amount of radioactive material released, the environmental transport mechanism, and the use of the environment. The environmental transport mechanism includes consideration of physical factors, such as the hydrological and meteorological characteristics of the area.

An important factor in evaluating the exposure pathways is the use of the environment. This is evaluated in the annual Land Use Census. Many factors are considered, such as the locations of homes, gardens, and milk or meat animals in the area.

The release of radioactive gaseous effluents involves pathways such as external whole body exposure, deposition of radioactive material on plants, deposition on soil, inhalation and ingestion by animals raised for human consumption, and inhalation by humans. The release of radioactive material in liquid effluents involves pathways such as drinking water and fish consumption.

Although radionuclides can reach humans by many different pathways, some result in greater dose than others. The most significant pathway is the exposure pathway that will provide the greatest dose to a population, or to a specific individual. Identification of the most significant pathway depends on the radionuclides involved, the age and diet of the individual, and the location of the

individual's residence. Doses delivered to the total body and to specific organs are calculated. The organ receiving the greatest dose is important in determining compliance with dose limits. The standard assumptions used in dose calculation result in conservative dose estimates.

### ***Dose Assessment***

Dose is energy deposited by radiation in an exposed individual. Whole body exposure to radiation involves the exposure of all organs. Most exposures due to external sources of radiation are of this type. Both non-radioactive and radioactive elements can enter the body through inhalation or ingestion. When they do, they are usually not distributed evenly. For example, iodine concentrates in the thyroid gland, cesium collects in muscle and liver tissue, and strontium collects in bone.

The total dose to organs from a given radionuclide depends on the amount of radioactive material present in the organ and the amount of time that the radionuclide remains in the organ. Some radionuclides remain for very short times due to their rapid radioactive decay and/or elimination rate from the body, while other radionuclides may remain in the body for longer periods of time. The form of the radionuclide (soluble vs. insoluble) and the method of uptake also influence residence times in the body.

The maximum dose to the general public in the area surrounding Fermi 2 is calculated for periods of gaseous release and for each liquid release. The dose due to radioactive material released in gaseous effluents is calculated using factors such as the amount of radioactive material released, the concentration beyond the site boundary, the locations of exposure pathways (for example cow milk, goat milk, vegetable gardens and residences), and usage factors (inhalation and food consumption). The dose due to radioactive material released in liquid effluents may be calculated using factors such as radionuclide concentrations, the total volume of liquid released, the total volume of dilution water, near field dilution, and usage factors (water and fish consumption). These calculations produce a conservative estimation of the dose.

For 2020, the maximum offsite dose was conservatively assumed to be received by the "critical receptor" -- a child at the closest residence to the plant, who was exposed by the inhalation, ground plane, and vegetation pathways. (As previously noted, there were no liquid radioactive effluent pathways to consider in 2020.) Although there may not be a child living at this residence in any given year, the use of this age group provides conservative dose estimates for comparison with regulatory limits. Similarly, the calculation of dose due to vegetation ingestion (from a garden) at this residence may not apply in any given year, but it also leads to conservative dose estimates. The use of dose pathways and age groups which may be hypothetical is consistent with federal regulatory guidance and with industry practices.

### ***Radioactive Effluent Monitoring Results***

This section summarizes the results of effluent monitoring and offsite dose calculation for the year 2020. Calculated offsite doses are compared with Nuclear Regulatory Commission limits, and these limits are summarized in Appendix A. Appendix A also contains a detailed discussion of the

methods used to determine quantities of radioactivity released in effluents, the types of solid radioactive waste shipped offsite, as well as tables of individual radionuclides released in effluents and shipped as solid radioactive waste.

**Liquid Releases.** There were no routine or abnormal releases of liquid radioactive effluents from Fermi 2 in 2020. There has not been a routine liquid radioactive discharge from Fermi 2 since 1994.

**Batch and Incidental Gaseous Releases.** Gaseous effluent releases include batch releases from primary containment, as well as other small releases from the Condensate Storage Tank, the Condensate Return Tank, and in 2020, from bladders which stored torus water during torus repairs. In all of these releases, tritium was the only radioisotope detected. In 2020 there were several containment (drywell/torus) purges in which tritium was released. In these purge events the entire volume of the containment (drywell or torus) is assumed to be released. Additionally, there were periodic ventings of the primary containment in 2020. In ventings, a much smaller volume is released than in purges. (Noble gases were not detected in containment samples preceding these batch releases in 2020.) The total estimated release from these purges, ventings, and incidental releases was less than 0.02 curies of tritium. As in previous years, the amount of radioactivity (tritium) released in containment purges and ventings was very small (less than 0.03%) compared to the amount in continuous releases. All containment batch releases are routed through the monitored reactor building continuous release point, or the standby gas treatment system monitored release point.

**Continuous Gaseous Releases.** Differences in the quarterly release quantities shown below are primarily due to variable plant conditions. For example, increases in I-131 releases could be due to depressurization events and decreases in I-131 releases may be associated with outage periods; increases in long lived particulate releases could be due to reactor water cleanup system valve leaks or to outage work activities. Reported noble gas levels vary as a function of fuel performance; in 2020 noble gas releases were low due to good fuel performance and to the fact that the plant was shut down due to a refueling outage for the entire second quarter, plus most of August.

The following tables show the radioactivity released in continuous gaseous releases in 2020.

**Table 1 - Fission and Activation Gases (Noble Gases) Summary**

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	2020 Total
Noble Gases Release (curies)	1.02E-02	Not Detected*	4.73E-2	Not Detected*	5.75E-02

\*Individual LLD's are listed in Appendix A

**Table 2 - Radioiodine I-131 Summary**

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	2020 Total
I-131 Release (curies)	1.89E-04	7.36E-07	1.29E-04	1.13E-04	4.32E-04

**Table 3 - Particulates with Half-Life Longer than 8 Days Summary**

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	2020 Total
Particulates with half-lives > 8 days (curies)	2.34E-04	2.18E-03	5.60E-04	3.45E-05	3.01E-03
Gross Alpha Radioactivity (curies)	<5.3E-15* μCi/cc	<5.3E-15* μCi/cc	<5.3E-15* μCi/cc	<5.3E-15* μCi/cc	<5.3E-15* μCi/cc

\*In the above table, the “less than” value in units of microcuries per cubic centimeter (μCi/cc) is used when no radioactivity was detected and represents the lower limit of detection (LLD) value for a single sample.

**Table 4 - Tritium (H-3) and Carbon-14 (C-14) Summary**

	Quarter 1	Quarter 2	Quarter 3	Quarter 4	2020 Total
Tritium Release (curies)	1.26E+01	1.10E+01	4.49E+01	2.33E+01	9.18E+01
C-14 Release (curies)	3.80E+00	Not calculated*	2.61E+00	4.45E+00	1.09E+01

\*Carbon-14 releases are calculated based on a function of power level times time. Since no power was produced in the second quarter of 2020, C-14 releases could not be calculated for this period.

The offsite dose impact of the above releases was evaluated by calculating organ doses to the assumed most highly exposed individual living near the plant (a child in residence 0.71-mile WNW) due to I-131, I-133, tritium, C-14 and particulates with half-lives greater than 8 days. The most significant pathways of exposure to this individual are assumed to be inhalation, vegetation ingestion, and direct radiation from material deposited on the ground. The results of this calculation, which employs conservative assumptions, are shown in the following table:

**Table 5 - Single Organ and Total Body Dose for 2020**

<b>Organ</b>	<b>2020 Gaseous Effluent Dose to Receptor with Highest Single Organ Dose</b>
<b>Bone</b>	4.14E-01mrem
<b>Liver</b>	1.10E-01mrem
<b>Thyroid</b>	1.16E-01mrem
<b>Kidney</b>	1.09E-01mrem
<b>Lung</b>	1.10E-01mrem
<b>GI-LLI</b>	1.10E-01mrem
<b>Total Body</b>	1.10E-01mrem

The highest single organ dose is 0.414 mrem to the bone. This corresponds to 2.8% of the federal limit of 15 mrem specified in 10 CFR 50, Appendix-I. (The Fermi 2 Offsite Dose Calculation Manual requires maximum receptor dose calculation for releases of I-131, I-133, H-3, and particulates with half-lives greater than 8 days; for these isotopes, not including C-14, the thyroid is the highest dose organ.)

In addition, gamma and beta air doses at the site boundary (0.57mile NW) due to noble gas releases were calculated. In 2020, gamma air dose was 1.15E-5 mrad (compared to the 10 mrad annual limit); beta air dose in 2020 was 4.51E-6 mrad (compared to the 20 mrad annual limit).

Title 40, Part 190 of the Code of Federal Regulations requires that dose to an individual in the unrestricted area from the uranium fuel cycle facility, including direct radiation dose, be limited to 25 mrem/year to the total body and 75 mrem/year to the thyroid. Based on Table 5 above, the offsite dose due to effluents is 0.44% and 0.15% of 40 CFR 190 limits for the total body and thyroid, respectively. Also, Fermi 1 was not monitored for effluents in 2020 since no work was performed in a Fermi 1 Radiologically Controlled Area that would require ventilation and make detectable effluent releases likely.

The next closest uranium fuel cycle facility, the Davis-Besse Nuclear Plant, located near Oak Harbor, Ohio, is similar to Fermi in that it releases low amounts of radioactive material, but it is too far from Fermi (25 miles direct distance) to contribute significantly to Fermi area doses. Therefore, Fermi 2 was in compliance with the fuel cycle limits of 40 CFR 190 in 2020.

Potential dose to members of the public at Fermi 2 due to all radioactive effluents, including noble gases, was also calculated. Fermi 2 considers persons touring the site (16 hours/year), and persons performing work onsite but not employed by Fermi 2, either directly or under contract (400 hours/year), to be exposed as members of the public. The average dose to a member of the public at Fermi 2 in 2020 was less than 0.02 mrem to the total body. This dose is a small fraction of the 100 mrem/year limit for individual members of the public due to licensed operation of the plant provided in 10 CFR 20.1301.

## Summary of Radioactive Waste Shipments

The radioactivity and volume of Fermi 2 solid waste shipped offsite in 2020 is summarized in the following table:

**Table 6 - Waste Shipped Offsite**

Type of Waste	Units	12 Month Period	Est. total activity error, %
Spent resins, sludges, etc.	m <sup>3</sup> curies	8.92E+01 2.43E+03	± 25
Dry compressible waste, contaminated equipment, etc.	m <sup>3</sup> curies	2.63E+03 3.55E+01	± 25
Irradiated components, control rods, etc.	m <sup>3</sup> curies	0.00E+00 0.00E+00	N/A
Other			
Filters	m <sup>3</sup> curies	4.16E-01 2.46E+01	± 25
Oil / Mixed Waste	m <sup>3</sup> curies	0.00E+00 0.00E+00	± 25

Radioactive solid waste shipments from Fermi 2 in 2020 (to either disposal or to intermediate processors) are summarized in the following table:

**Table 7 – Waste shipments**

Number of shipments	Mode of transportation	Destination
46	Highway	EnergySolutions, BCO, Oak Ridge, TN
24	Highway	EnergySolutions, CWF, Clive, UT
12	Highway	EnergySolutions, BWF, Clive, UT

## *Additional Required Information*

### *Appendices*

Appendix A, Effluent and Radioactive Waste Data, provides more detailed data on radiological effluents and radioactive waste shipments.

Appendix B contains a description of the Fermi 2 Integrated Groundwater Protection Program, 2020 sampling data for this program, and a discussion of sampling results.

Appendix C contains data on tritium concentrations in rainwater collected onsite and explains the significance of this data.



Appendix D contains meteorological joint frequency distributions of wind speed and wind direction by atmospheric stability class, for all of 2020. Fermi 2 meteorological data of 2020 was analyzed, the Joint Frequency Distribution Analysis Results were obtained, as shown in Appendix D. No significant Wind-Rose pattern change was observed. A total of 8783 hours (>99.9%) of valid meteorological data were recovered in 2020 (366 days), which satisfies the 90 percent data recovery requirement of Regulatory Guide 1.23.

***ODCM Revision***

None in 2020

***ODCM Monitors Out of Service***

During 2020, Fermi 2 Nuclear Production Operation Log recorded several entries of LCO conditions associated with issues of ODCM related radiation monitors; none of the monitors were out of service for more than 30 days.

***Outside Temporary Tanks***

In 2020 no outside temporary tank exceeded the 10 Ci content limit for nuclides other than tritium and dissolved or entrained noble gases.

***Major Changes to Radioactive Waste Systems***

There was no change made to the Fermi 2 Radioactive Waste Systems during 2020.

***Abnormal Radiological Releases***

There were no abnormal radiological releases in 2020.

***Errata/Corrections to Previous Annual Radioactive Effluent Release Report (ARERRs)***

None

***Independent Spent Fuel Storage Installation (ISFSI)***

As required by 10 CFR 72.44(d)(3), Fermi reports any detected effluent releases from the ISFSI. None were detected in over the 12-month monitoring period in 2020. Fermi has collected quarterly water samples from storm water Outfall 014 since fuel has been stored on the pad, with the exception of 3<sup>rd</sup> quarter 2019, and the 1<sup>st</sup> quarter of 2020. These outfall samples are relevant because water collected by the under-drain system at the periphery of the pad is routed through Outfall 014 to the overflow canal. No plant related radioactivity was detected in these samples in 2020. Since there was no detection of radioactive effluents or direct radiation from the ISFSI installation in 2020, it may be concluded that the limits specified in 10 CFR 72.104(a) for radiation dose to the public (25 mrem/year to the whole body and 75 mrem/year to the thyroid - the same as the 40 CFR 190 limits) have not been exceeded due to the existence of the ISFSI installation.

**END OF ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT BODY**

Appendix A  
Effluent and Radioactive Waste Data

## **Regulatory Limits for Radioactive Effluents**

The Nuclear Regulatory Commission (NRC) limits on liquid and gaseous effluents are incorporated into the Fermi 2 Offsite Dose Calculation Manual. These limits prescribe the maximum doses and dose rates due to radioactive effluents resulting from normal operation of Fermi 2. These limits are described in the following sections.

### **A. Gaseous Effluents**

I. Dose rate due to radioactivity released in gaseous effluents to areas at and beyond the site boundary shall be limited to the following:

a) Noble gases

Less than or equal to 500 mrem/year to the total body.  
Less than or equal to 3000 mrem/year to the skin.

b) Iodine-131, iodine-133, tritium, and for all radionuclides in particulate form with half-lives greater than 8 days

Less than or equal to 1500 mrem/year to any organ.

II. Air dose due to noble gases to areas at and beyond the site boundary shall be limited to the following:

a) Less than or equal to 5 mrad for gamma radiation  
Less than or equal to 10 mrad for beta radiation  
- During any calendar quarter

b) Less than or equal to 10 mrad for gamma radiation  
Less than or equal to 20 mrad for beta radiation  
- During any calendar year

III. Dose to a member of the public from iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released to areas at and beyond the site boundary shall be limited to the following:

a) Less than or equal to 7.5 mrem to any organ  
- During any calendar quarter

b) Less than or equal to 15 mrem to any organ  
- During any calendar year

**Note:** The calculated site boundary dose rates for Fermi 2 are based on identification of individual isotopes and on use of dose factors specific to each identified isotope or a highly conservative dose factor. Since individual isotopes are identified, average energy values are not used in these calculations, and therefore are not reported even though their use in these calculations is allowed by Regulatory Guide 1.21.

## **B. Liquid Effluents**

- I. The concentration of radioactive material released in liquid effluents to unrestricted areas shall be limited to ten times the concentrations specified in Title 10 of the Code of Federal Regulations (10 CFR) Part 20 (Standards for Protection Against Radiation), Appendix B, Table 2, Column 2 for radionuclides other than dissolved or entrained noble gases, as required by the Fermi 2 Offsite Dose Calculation Manual. For dissolved or entrained noble gases, the concentration shall be limited to 2E-4 (.0002) microcuries/ml total activity. This limit is based on the Xe-135 air submersion dose limit converted to an equivalent concentration in water as discussed in the International Commission on Radiological Protection (ICRP) Publication 2.
- II. The dose or dose commitment to a member of the public from radioactive materials in liquid effluents released to unrestricted areas shall be limited to the following:
  - a) Less than or equal to 1.5 mrem to the total body  
Less than or equal to 5 mrem to any organ  
- During any calendar quarter
  - b) Less than or equal to 3 mrem to the total body  
Less than or equal to 10 mrem to any organ  
- During any calendar year

As noted previously, Fermi 2 did not perform radioactive liquid releases in 2020.

## **Measurements and Approximations of Total Activity in Radioactive Effluents**

As required by NRC Regulatory Guide 1.21, this section describes the methods used to measure the total radioactivity in effluent releases and to estimate the overall errors associated with these measurements. The effluent monitoring systems are described in Chapter 11.4 of the Fermi 2 Updated Final Safety Analysis Report (UFSAR).

### **A. Gaseous Effluents**

#### ***I. Fission and Activation Gases (Noble Gases)***

Samples are obtained from each of the six plant radiation monitors which continuously monitor the five ventilation exhaust points. In addition, a post-offgas treatment "offgas vent pipe" sample is taken immediately upstream of the reactor building release point to assist in determining noble gas concentrations at the release point. The fission and activation gases are quantified by gamma spectroscopy analysis of periodic samples.

The summary values reported are the sums of all fission and activation gases quantified at all monitored release points.

#### ***II. Radioiodines***

Samples are obtained from each of the six plant radiation monitors which continuously monitor the five ventilation exhaust points. The radioiodines are entrained on charcoal and then quantified by gamma spectroscopy analysis. For each sample, the duration of sampling and continuous flow rate through the charcoal are used in determining the concentration of radioiodines. Then from the flow rate of the ventilation system, a rate of release can be determined.

The summary values reported are the sums of all radioiodines quantified at all continuously monitored release points.

### ***III. Particulates***

Samples are obtained from each of the six plant effluent radiation monitors which continuously monitor the five ventilation exhaust points. The particulates are collected on a filter and then quantified by gamma spectroscopy analysis.

For each sample, the duration of sampling and the continuous flow rate through the filter are used in determining the concentration of particulates. From the flow rate of the ventilation system, a rate of release can be determined.

Quarterly, the filters from each ventilation release point are composited and then radiochemically separated and analyzed for Strontium (Sr)-89/90, Iron (Fe)-55, and Nickel (Ni)-63.

The summary values reported are the sums of all particulates quantified at all monitored release points.

### ***IV. Tritium***

Samples are obtained from each of the six plant effluent radiation monitors which continuously monitor the five ventilation exhaust points. The sample is passed through a bottle containing water and the gaseous tritium is collected in this water. Portions of the collecting water are analyzed for tritium using liquid scintillation counting techniques. For each sample, the duration of sample and sample flow rate is used to determine the radioactivity concentration. Then from the flow rate of the ventilation system, a release rate can be determined.

In addition to tritium releases from the five ventilation exhaust points, gaseous tritium releases from the Condensate Storage Tank and Condensate Return Tank have been calculated. These releases are due to evaporation of tritiated water in these tanks which is released through tank vents. There were also similar releases from bladders which contained torus water during refueling outage torus repairs. Also there were periodic ventings and purges of primary containment. None of these non-ventilation system pathways were significant release points for tritium, contributing less than 0.03% of total tritium releases. These releases were calculated to be well below 0.02 curies in 2020; adding them to reported tritium releases from the ventilation release points does not change the reported release quantities at the level of precision reported.

The summary values reported are the sums of all tritium quantified at all monitored release points.

**V. Gross Alpha**

The gaseous particulate filters from the six plant effluent radiation monitors are stored for one week to allow for decay of naturally occurring alpha emitters. These filters are then analyzed for gross alpha radioactivity by gas proportional counting, and any such radioactivity found is assumed to be plant related. The quantity of alpha emitters released can then be determined from sample flow rate, sample duration, and stack flow rate.

The summary values reported would be the sums of all alpha emitters quantified at all monitored release points. However, in 2020 alpha activity was not detected, i.e. was less than the critical level activity, in these particulate filters.

**VI. Carbon-14**

Carbon-14 releases are calculated using a method published by the Electric Power Research Institute in December 2010. Plant rated thermal power and monthly capacity factors were used in the calculation of quarterly releases.

**B. Liquid Effluents**

The liquid radwaste processing system and the liquid effluent monitoring system are described in the Fermi 2 UFSAR. Fermi 2 did not perform any releases of radioactive liquid effluents in 2020.

**C. Statistical Measurement Uncertainties**

The estimated total measurement uncertainty in this section has been calculated and is summarized in the following table:

**Table A-1 – Statistical Measurement Uncertainties**

<b>Measurement Type</b>	<b>Sample Type</b>	<b>One Sigma Uncertainty</b>
Fission and Activation Gases	Gaseous	30%
Radioiodines	Gaseous	17%
Particulates	Gaseous	16%
Tritium	Gaseous	25%
Gross Alpha	Gaseous	16%



### Gaseous Releases by Individual Nuclide

Values in the following tables which are preceded by the “less than” symbol represent the lower limit of detection (LLD) in units of microcuries per cubic centimeter ( $\mu\text{Ci}/\text{cc}$ ) for individual samples and indicate that the nuclide in question was not detected in gaseous effluent samples in the indicated quarter of 2020. For quantities of gross alpha radioactivity, tritium, and carbon-14 in gaseous effluents, review provided tables. Less than (<) values are listed as LLDs in units of  $\mu\text{Ci}/\text{cc}$ , therefore do not impact the sum values. To obtain the corresponding release rates in unit of  $\mu\text{Ci}/\text{sec}$ , the effluent release activity listed above should be divided by  $3.15\text{E}+07$  (sec/year) or  $7.88\text{E}+06$  (sec/quarter).

**Table A-2 - Particulate Radionuclides (micro Curies ( $\mu\text{Ci}$ ) \*)**

<b>Nuclide</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
Mn-54	1.82E+01	1.64E+02	2.15E+01	<4.8E-14
Co-60	7.51E+01	5.04E+02	1.37E+02	1.89E+01
Zn-65	4.67E+00	<1.1E-13	<1.1E-13	<1.1E-13
Cr-51	1.23E+01	3.14E+01	<2.8E-13	<2.8E-13
Fe-55	1.24E+02	1.46E+03	4.01E+02	1.56E+01
Ba-139	<1.2E-11	<1.2E-11	7.88E+03	3.23E+03
Y-91m	<1.1E-11	<1.1E-11	7.07E+02	<1.1E-11
Sr-90	<1.1E-14	1.62E+00	<1.1E-14	<1.1E-14
Ni-63	<3.5E-15	2.19E+01	<3.5E-15	<3.5E-15
Cs-134	<5.7E-14	<5.7E-14	<5.7E-14	<5.7E-14
Cs-137	<4.0E-14	<4.0E-14	<4.0E-14	<4.0E-14
<b>Total</b>	<b>2.34E+02</b>	<b>2.18E+03</b>	<b>9.15E+03</b>	<b>3.26E+03</b>

\*Less than (<) values are listed as LLDs in units of  $\mu\text{Ci}/\text{cc}$ , therefore do not impact the sum values.

**Table A-3 - Noble Gases (micro Curies (μCi) \*)**

<b>Nuclide</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
Ar-41	<1.1E-07	<1.1E-07	4.73E+04	<1.1E-07
Kr-85m	<9.5E-09	<9.5E-09	<9.5E-09	<9.5E-09
Xe-135	1.02E+04	<9.5E-09	<9.5E-09	<9.5E-09
Xe-135m	<2.0E-06	<2.0E-06	<2.0E-06	<2.0E-06
Xe-138	<8.0E-06	<8.0E-06	<8.0E-06	<8.0E-06
Xe-133	<7.3E-08	<7.3E-08	<7.3E-08	<7.3E-08
Kr-87	<2.5E-07	<2.5E-07	<2.5E-07	<2.5E-07
<b>Total</b>	<b>1.02E+04</b>	-	<b>4.73E+04</b>	-

\* Less than (<) values are listed as LLDs in units of μCi/cc, therefore do not impact the sum values.

**Table A-4 - Radioiodines (micro Curies (μCi) \*)**

<b>Nuclide</b>	<b>Quarter 1</b>	<b>Quarter 2</b>	<b>Quarter 3</b>	<b>Quarter 4</b>
I-131	1.89E+02	7.36E-01	1.29E+02	1.13E+02
I-132	<1.5E-12	<1.5E-12	7.93E+02	<1.5E-12
I-133	9.09E+02	<1.6E-13	1.29E+03	5.76E+02
I-134	<8.8E-12	<8.8E-12	<8.8E-12	<8.8E-12
I-135	<2.6E-12	<2.6E-12	1.87E+03	<2.6E-12
<b>Total</b>	<b>1.10E+03</b>	<b>7.36E-01</b>	<b>4.08E+03</b>	<b>6.89E+02</b>

\* Less than (<) values are listed as LLDs in units of μCi/cc, therefore do not impact the sum values

### Shipments of Radwaste

Fermi 2 complies with the extensive federal regulations which govern radioactive waste shipments. Radioactive solid waste shipments from the Fermi 2 site consist of waste generated during water treatment, radioactive trash, irradiated components, etc. Shipment destinations are either a licensed burial site or intermediate processing facilities. Waste shipped to intermediate processing facilities is shipped directly from these facilities to a licensed burial site after processing. The following tables contain estimates of major nuclide composition, by class of waste, of Fermi 2 radioactive waste shipped offsite in 2020. The waste volumes shown in these tables are the volumes shipped, not the final volumes sent for burial after processing.

- a. Spent resins, sludges, etc.

Waste in this category in 2020 was Class A waste and consisted of spent resins and sludges. Spent resins were shipped in shielded transportation casks (11 Type B and 13 General Design

Bulk Packages), directly to the Clive, UT burial facility. Spent resins were dewatered prior to shipment for disposal. All quantities were determined by measurement.

**Table A-5 - Spent resins, sludges, etc., (Class A)**

Isotope	mCi	%
H-3	1.32E+02	0.01
C-14	8.03E+02	0.03
Cr-51	2.84E+02	0.01
Mn-54	7.56E+04	3.11
Fe-55	1.74E+06	71.81
Fe-59	1.18E+02	0.00
Co-57	6.59E+00	0.00
Co-58	3.29E+02	0.01
Co-60	5.62E+05	23.13
Ni-59	2.36E+01	0.00
Ni-63	9.95E+03	0.41
Zn-65	3.18E+04	1.31
Sr-89	3.23E+01	0.00
Sr-90	4.40E+01	0.00
Zr-95	2.22E+01	0.00
Nb-95	4.68E+01	0.00
Tc-99	2.88E+02	0.01
Ag-110m	1.80E+02	0.01
Sb-124	4.58E+00	0.00
Sb-125	1.76E+02	0.01
I-129	5.35E-04	0.00
I-131	1.26E+00	0.00
Cs-134	6.10E+02	0.03
Cs-137	2.47E+03	0.10
Cm-242	1.05E-03	0.00
Total Activity	2.43E+06	100
Volume Shipped m <sup>3</sup>	8.92E+01	

b. Dry compressible waste, contaminated equipment, etc.

Waste in this category in 2020 was Class A waste and shipped in strong tight containers (90 General Design Bulk Packages) of various sizes or within a shielded transportation cask (1 General Design Bulk Package) and was classified as Dry Active Waste (DAW). DAW waste was shipped to an intermediate processor for processing, e.g. compaction or incineration. All quantities were determined by measurement.

**Table A-6 - Dry Active Waste (Class A)**

Isotope	mCi	%
H-3	1.26E+02	0.36
C-14	2.61E-01	0.00
Cr-51	3.32E+02	0.94
Mn-54	1.75E+03	4.93
Fe-55	3.00E+04	84.53
Fe-59	2.58E+02	0.73
Co-57	6.15E-01	0.00
Co-58	7.40E+01	0.21
Co-60	2.69E+03	7.58
Ni-63	7.30E+01	0.21
Zn-65	1.39E+02	0.39
Zr-95	1.05E+01	0.03
Nb-95	2.20E+01	0.06
Tc-99	3.50E-03	0.00
Sb-124	7.86E+00	0.02
Sb-125	2.67E+00	0.01
I-129	1.64E-05	0.00
Cs-137	2.48E+00	0.01
Pu-241	8.25E-02	0.00
Total Activity	3.55E+04	100
Volume Shipped m <sup>3</sup>	2.63E+03	

c. Irradiated components, control rods, etc.

No waste for this category was sent off site during 2020.

d. Other – Filters/Oil/Mixed Waste, etc.

Waste in this category in 2020 was Class A waste and shipped in a strong tight container (1 General Design Bulk Package) and was classified as Filters; this waste was shipped to an intermediate processor. Filter waste was processed by compaction or incineration. All quantities were determined by measurement.

**Table A-7 - Other – Filters/Oil/Mixed Waste, etc. (Class A)**

Isotope	mCi	%
H-3	5.81E-01	0.00
C-14	3.76E+00	0.02
Mn-54	1.03E+03	4.17
Fe-55	1.89E+04	76.56
Co-58	1.88E+00	0.01
Co-60	4.54E+03	18.43
Ni-63	1.49E+02	0.60
Zn-65	5.21E+01	0.21
Tc-99	6.19E-03	0.00
I-129	1.52E-04	0.00
Total Activity	2.46E+04	100
Volume Shipped m <sup>3</sup>	4.16E-01	

## Appendix B

### Ground Water Protection Program Data and Analysis

## **EXECUTIVE SUMMARY**

Monitoring of groundwater wells at the Fermi site was conducted without incident in 2020. Analysis of periodic samples from these wells showed no positive tritium results in 2020. (There were no positive tritium results in 2019, and only three low level positive tritium results in the shallow aquifer in 2018).

Therefore, there is no indication of any leak from plant systems into the groundwater at Fermi 2.

## **PROGRAM OVERVIEW**

Quarterly sampling and gauging of the Fermi 2 Integrated Ground Water Protection Program (IGWPP) monitor wells continued uninterrupted in 2020.

Procedurally, each integrated groundwater protection program (IGWPP) specified monitor well is required to be sampled for tritium during each sample event. Monitor wells adjacent to plant systems where plant-related radioisotopes other than tritium are more likely to be present are also sampled for plant-related gamma-emitting radioisotopes during each sample event. Furthermore, once per year water from three monitor wells most likely to be contaminated by leaked or spilled material may also be analyzed for hard-to-detect (HTD) radionuclides (e.g., Fe-55, Sr-89, and Sr-90).

Samples analyzed for gamma-emitting radionuclides, as well as HTDs, are counted to required environmental lower limits of detection (LLD) for each given radioisotope of interest, with the exception of La-140, Ba-140, and I-131 (due to their short half-lives). For tritium there is no required limit of detection under the IGWPP, beyond what is prescribed for ground water samples taken as part of the site's Radiological Environmental Monitoring Program (REMP). The REMP Lower Limit of Detection (LLD) is set at 2,000 pCi/L which is 1/10<sup>th</sup> of the EPA's drinking water limit of 20,000 pCi/L. For all ground-water samples analyzed in 2020, Fermi 2's contract laboratory achieved MDCs lower than the requested tritium LLD of 500 pCi/L.

Sampling and gauging of the monitor wells installed at the Enrico Fermi Atomic Power Plant (Fermi 1) is part of the site Integrated Ground Water Protection Program. Most of the Fermi 1 monitor wells were installed to monitor ground water in the vicinity of the facility as part of decommissioning and license termination work. With the Fermi 1 decommissioning project placed back in "passive" SAFSTOR decommissioning mode, this ongoing ground water monitoring was incorporated into the existing Fermi 2 IGWPP. Fermi 1 monitor wells are designated in the attached tables by the prefix "EFT-". Fermi 1 construction utilized silty-clay fill adjacent to the structures to bring the site up to the final grade. All shallow wells are screened in this material and they typically do not produce much water. Fermi 1 monitor wells are sampled semi-annually because the rates of lateral flow through the silty-clay are quite low, the facility is static with no work activity which could result in release of radioactive material, the levels of contamination remaining at the site are low, and no liquid wastes are stored at the facility.

## **RESULTS**

### **Deep Wells (Table B-1)**

Tritium was not detected in any samples from the IGWPP deep monitor wells in 2020.

Plant-related gamma-emitting radioisotopes and hard-to-detect radioisotopes were not detected in any ground-water samples collected from deep monitor wells in 2020.

### **Shallow and Intermediate Wells (Table B-2)**

Most shallow monitor wells have consistently yielded results indicating that tritium is not present above the detection limit. In 2020, tritium was not detected in any samples from the IGWPP shallow and intermediate wells.

Plant-related gamma-emitting radioisotopes and hard-to-detect radioisotopes were not detected in any ground-water samples collected from shallow and intermediate monitor wells in 2020.

### **Other Analytical Results**

As noted, plant-related gamma-emitting radioisotopes and hard-to-detect radioisotopes were not detected in any ground-water samples collected from any monitor wells in 2020. However, the naturally occurring radioisotopes Bi-214, Pb-214, Tl-208, and K-40 were occasionally identified in ground water samples. Such radioisotopes are normally found in the environment and are geological in origin.

## **DISCUSSION**

The 2019 and 2020 results were unusual in that no positive tritium results were seen--in deep, shallow, or intermediate wells. By contrast, in 2018, three positive ground water results for tritium were detected in shallow wells, the highest of which was 540 pCi/liter. Furthermore, since the Integrated Ground Water Protection Program was initiated in the fall of 2007, plant-related gamma isotopes and hard-to-detect isotopes have never been identified in ground-water samples from any of the monitor wells. It may also be noted that ground water from many of the site's wells have never yielded a positive result for tritium or plant related radionuclides.

If the tritium found in ground water from shallow wells (in previous years) were attributable to a leaking plant system then one would expect the levels to steadily increase over time, especially during the winter when there is, normally, less recharge from surface water. Instead the results from shallow monitor wells have shown periodic low-level hits for tritium in ground water with no trend. This pattern is more consistent with what one would expect to see if the tritium were attributable to recapture (washout) in precipitation. Recapture of tritium emitted from nuclear power plant stacks in precipitation is well documented and these emissions are continuously monitored and reported annually by the utility as part of an approved effluents program. A tritium



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rain-water washout study performed at the Fermi site revealed that tritium is found in rain water collected at the site. Tritium activity in rain water samples, taken at the site over a period of two months as part of that study, ranged from approximately 400 pCi/L to 5,750 pCi/L in a rooftop sample near the turbine building vent (the tritium release point with the greatest quantity of tritium release).

Tritium activity was detected in 2020 above the minimum detectable activity (MDA) level in two precipitation samples in the fourth quarter of 2020, at concentrations of 647 pCi/liter and 684 pCi/liter. These positive samples were adjacent to each other on the east side of the plant, downwind of plant, and close to the largest tritium release point—the Turbine Building stack. These concentrations are consistent with the rainwater washout phenomenon, and with previous years’ results. This shows that the phenomenon of rainwater washout is still in effect at Fermi 2, but this year did not result in detectable tritium in the shallow groundwater. For more detail on tritium in precipitation samples taken at Fermi in 2020 see Appendix C of this report.

**Table B-1 - Deep Monitor Well Tritium Analysis Results for Year 2020 (Periodic Sample Events)**

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EF2-07-001D	Q1	NORMAL		Note 3			
EF2-07-001D	Q2	NORMAL	GEL	H-3	<	3.29E+02	pCi/L
EF2-07-001D	Q3	NORMAL	GEL	H-3	<	3.47E+02	pCi/L
EF2-07-001D	Q4	NORMAL	GEL	H-3	<	3.93E+02	pCi/L
EF2-07-003D	Q1	NORMAL	GEL	H-3	<	3.49E+02	pCi/L
EF2-07-003D	Q2	NORMAL	GEL	H-3	<	3.20E+02	pCi/L
EF2-07-003D	Q3	NORMAL	GEL	H-3	<	3.57E+02	pCi/L
EF2-07-003D	Q4	NORMAL	GEL	H-3	<	4.00E+02	pCi/L
EF2-07-004D	Q1	NORMAL	GEL	H-3	<	3.39E+02	pCi/L
EF2-07-004D	Q2	NORMAL	GEL	H-3	<	4.15E+02	pCi/L
EF2-07-004D	Q3	NORMAL	GEL	H-3	<	3.38E+02	pCi/L
EF2-07-004D	Q4	NORMAL	GEL	H-3	<	4.05E+02	pCi/L
EF2-07-006D	Q1	NORMAL		Note 2			
EF2-07-006D	Q2	NORMAL	GEL	H-3	<	3.15E+02	pCi/L
EF2-07-006D	Q3	NORMAL	GEL	H-3	<	3.27E+02	pCi/L
EF2-07-006D	Q4	NORMAL	GEL	H-3	<	3.97E+02	pCi/L
EF2-07-008D	Q1	NORMAL	GEL	H-3	<	3.42E+02	pCi/L
EF2-07-008D	Q2	NORMAL	GEL	H-3	<	3.15E+02	pCi/L
EF2-07-008D	Q3	NORMAL	GEL	H-3	<	3.35E+02	pCi/L
EF2-07-008D	Q4	NORMAL		Note 2			
EF2-07-009D	Q1	NORMAL	GEL	H-3	<	3.48E+02	pCi/L
EF2-07-009D	Q2	NORMAL	GEL	H-3	<	3.21E+02	pCi/L
EF2-07-009D	Q3	NORMAL	GEL	H-3	<	3.51E+02	pCi/L
EF2-07-009D	Q4	NORMAL	GEL	H-3	<	4.03E+02	pCi/L
EF2-07-015D	Q1	NORMAL	GEL	H-3	<	3.33E+02	pCi/L
EF2-07-015D	Q2	NORMAL	GEL	H-3	<	3.22E+02	pCi/L
EF2-07-015D	Q3	NORMAL	GEL	H-3	<	3.54E+02	pCi/L
EF2-07-015D	Q4	NORMAL	GEL	H-3	<	4.47E+02	pCi/L
EF2-07-020D	Q1	NORMAL	GEL	H-3	<	4.03E+02	pCi/L

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**Table B-1 - Deep Monitor Well Tritium Analysis Results for Year 2020 (Continued).**

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EF2-07-020D	Q2	NORMAL	GEL	H-3	<	3.95E+02	pCi/L
EF2-07-020D	Q3	NORMAL	GEL	H-3	<	4.22E+02	pCi/L
EF2-07-020D	Q4	NORMAL	GEL	H-3	<	3.98E+02	pCi/L
EF2-07-029D	Q1	NORMAL		Note 3			
EF2-07-029D	Q2	NORMAL		Note 3			
EF2-07-029D	Q3	NORMAL		Note 3			
EF2-07-029D	Q4	NORMAL	GEL	H-3	<	4.48E+02	pCi/L
EFT-01D	Q2	NORMAL	GEL	H-3	<	4.04E+02	pCi/L
EFT-01D	Q4	NORMAL	GEL	H-3	<	4.56E+02	pCi/L
EFT-02D	Q2	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EFT-02D	Q4	NORMAL	GEL	H-3	<	4.54E+02	pCi/L
EFT-04D	Q2	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EFT-04D	Q4	NORMAL	GEL	H-3	<	4.50E+02	pCi/L
EFT-05D	Q2	NORMAL	GEL	H-3	<	3.88E+02	pCi/L
EFT-05D	Q4	NORMAL	GEL	H-3	<	4.47E+02	pCi/L
EFT-06D	Q2	NORMAL	GEL	H-3	<	3.93E+02	pCi/L
EFT-06D	Q4	NORMAL	GEL	H-3	<	4.55E+02	pCi/L
EFT-11D	Q2	NORMAL	GEL	H-3	<	3.88E+02	pCi/L
EFT-11D	Q4	NORMAL	GEL	H-3	<	4.50E+02	pCi/L
EFT-12D	Q2	NORMAL	GEL	H-3	<	3.83E+02	pCi/L
EFT-12D	Q4	NORMAL	GEL	H-3	<	4.64E+02	pCi/L

**Table B-2 - Shallow and Intermediate Monitor Well Tritium Analysis Results for Year 2020  
(Periodic Sample Events)**

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EF2-07-002S	Q1	NORMAL		Note 1			
EF2-07-002S	Q2	NORMAL		Note 1			
EF2-07-002S	Q3	NORMAL	GEL	H-3	<	3.45E+02	pCi/L
EF2-07-002S	Q4	NORMAL		Note 1			
EF2-07-003S	Q1	NORMAL	GEL	H-3	<	3.43E+02	pCi/L
EF2-07-003S	Q2	NORMAL	GEL	H-3	<	3.20E+02	pCi/L
EF2-07-003S	Q3	NORMAL	GEL	H-3	<	3.47E+02	pCi/L
EF2-07-003S	Q4	NORMAL	GEL	H-3	<	4.06E+02	pCi/L
EF2-07-005S	Q1	NORMAL	GEL	H-3	<	3.66E+02	pCi/L
EF2-07-005S	Q2	NORMAL	GEL	H-3	<	3.25E+02	pCi/L
EF2-07-005S	Q3	NORMAL		Note 2			
EF2-07-005S	Q4	NORMAL	GEL	H-3	<	4.08E+02	pCi/L

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**Table B-2 - Shallow and Intermediate Monitor Well Tritium Analysis Results for Year 2020  
(Continued)**

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EF2-07-007S	Q1	NORMAL	GEL	H-3	<	3.48E+02	pCi/L
EF2-07-007S	Q2	NORMAL	GEL	H-3	<	3.22E+02	pCi/L
EF2-07-007S	Q3	NORMAL	GEL	H-3	<	3.46E+02	pCi/L
EF2-07-007S	Q4	NORMAL	GEL	H-3	<	4.08E+02	pCi/L
EF2-07-008S	Q1	NORMAL	GEL	H-3	<	3.38E+02	pCi/L
EF2-07-008S	Q2	NORMAL	GEL	H-3	<	3.17E+02	pCi/L
EF2-07-008S	Q3	NORMAL		Note 2			
EF2-07-008S	Q4	NORMAL	GEL	H-3	<	4.10E+02	pCi/L
EF2-07-012S	Q1	NORMAL	GEL	H-3	<	3.53E+02	pCi/L
EF2-07-012S	Q2	NORMAL	GEL	H-3	<	3.28E+02	pCi/L
EF2-07-012S	Q3	NORMAL		Note 2			
EF2-07-012S	Q4	NORMAL	GEL	H-3	<	4.04E+02	pCi/L
EF2-07-013S	Q1	NORMAL	GEL	H-3	<	3.60E+02	pCi/L
EF2-07-013S	Q2	NORMAL	GEL	H-3	<	3.33E+02	pCi/L
EF2-07-013S	Q3	NORMAL	GEL	H-3	<	3.50E+02	pCi/L
EF2-07-013S	Q4	NORMAL	GEL	H-3	<	4.45E+02	pCi/L
EF2-07-014S	Q1	NORMAL	GEL	H-3	<	3.53E+02	pCi/L
EF2-07-014S	Q2	NORMAL	GEL	H-3	<	3.18E+02	pCi/L
EF2-07-014S	Q3	NORMAL		Note 2			
EF2-07-014S	Q4	NORMAL	GEL	H-3	<	4.51E+02	pCi/L
EF2-07-015S	Q1	NORMAL	GEL	H-3	<	3.49E+02	pCi/L
EF2-07-015S	Q2	NORMAL	GEL	H-3	<	3.26E+02	pCi/L
EF2-07-015S	Q3	NORMAL		Note 2			
EF2-07-015S	Q4	NORMAL	GEL	H-3	<	4.35E+02	pCi/L
EF2-07-016S	Q1	NORMAL	GEL	H-3	<	3.41E+02	pCi/L
EF2-07-016S	Q2	NORMAL	GEL	H-3	<	3.16E+02	pCi/L
EF2-07-016S	Q3	NORMAL	GEL	H-3	<	3.57E+02	pCi/L
EF2-07-016S	Q4	NORMAL	GEL	H-3	<	4.43E+02	pCi/L
EF2-07-017S	Q1	NORMAL	GEL	H-3	<	3.56E+02	pCi/L
EF2-07-017S	Q2	NORMAL	GEL	H-3	<	3.25E+02	pCi/L
EF2-07-017S	Q3	NORMAL	GEL	H-3	<	4.22E+02	pCi/L
EF2-07-017S	Q4	NORMAL	GEL	H-3	<	4.54E+02	pCi/L
EF2-07-018S	Q1	NORMAL		Note 4			
EF2-07-018S	Q2	NORMAL		Note 4			
EF2-07-018S	Q3	NORMAL		Note 2			
EF2-07-018S	Q4	NORMAL	GEL	H-3	<	4.46E+02	pCi/L
EF2-07-019S	Q1	NORMAL	GEL	H-3	<	4.16E+02	pCi/L
EF2-07-019S	Q2	NORMAL	GEL	H-3	<	3.92E+02	pCi/L
EF2-07-019S	Q3	NORMAL		Note 2			
EF2-07-019S	Q4	NORMAL	GEL	H-3	<	3.88E+02	pCi/L
EF2-07-020S	Q1	NORMAL	GEL	H-3	<	4.17E+02	pCi/L
EF2-07-020S	Q2	NORMAL	GEL	H-3	<	3.93E+02	pCi/L
EF2-07-020S	Q3	NORMAL	GEL	H-3	<	4.23E+02	pCi/L
EF2-07-020S	Q4	NORMAL	GEL	H-3	<	4.00E+02	pCi/L

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**Table B-2 - Shallow and Intermediate Monitor Well Tritium Analysis Results for 2020**  
(Continued)

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EF2-07-021S	Q1	NORMAL	GEL	H-3	<	4.19E+02	pCi/L
EF2-07-021S	Q2	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EF2-07-021S	Q3	NORMAL	GEL	H-3	<	4.17E+02	pCi/L
EF2-07-021S	Q4	NORMAL	GEL	H-3	<	4.16E+02	pCi/L
EF2-07-022S	Q1	NORMAL		Note 3			
EF2-07-022S	Q2	NORMAL		Note 3			
EF2-07-022S	Q3	NORMAL		Note 3			
EF2-07-022S	Q4	NORMAL		Note 3			
EF2-07-023S	Q1	NORMAL	GEL	H-3	<	4.27E+02	pCi/L
EF2-07-023S	Q2	NORMAL	GEL	H-3	<	3.97E+02	pCi/L
EF2-07-023S	Q3	NORMAL		Note 2			
EF2-07-023S	Q4	NORMAL	GEL	H-3	<	4.16E+02	pCi/L
EF2-07-024S	Q1	NORMAL	GEL	H-3	<	4.08E+02	pCi/L
EF2-07-024S	Q2	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EF2-07-024S	Q3	NORMAL		Note 2			
EF2-07-024S	Q4	NORMAL	GEL	H-3	<	3.70E+02	pCi/L
EF2-07-025S	Q1	NORMAL	GEL	H-3	<	4.38E+02	pCi/L
EF2-07-025S	Q2	NORMAL	GEL	H-3	<	3.86E+02	pCi/L
EF2-07-025S	Q3	NORMAL		Note 2			
EF2-07-025S	Q4	NORMAL	GEL	H-3	<	4.02E+02	pCi/L
EF2-07-026S	Q1	NORMAL	GEL	H-3	<	3.94E+02	pCi/L
EF2-07-026S	Q2	NORMAL	GEL	H-3	<	3.94E+02	pCi/L
EF2-07-026S	Q3	NORMAL		Note 2			
EF2-07-026S	Q4	NORMAL	GEL	H-3	<	4.13E+02	pCi/L
EF2-07-027S	Q1	NORMAL		Note 2			
EF2-07-027S	Q2	NORMAL		Note 2			
EF2-07-027S	Q3	NORMAL		Note 2			
EF2-07-027S	Q4	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EF2-07-028S	Q1	NORMAL	GEL	H-3	<	4.04E+02	pCi/L
EF2-07-028S	Q2	NORMAL	GEL	H-3	<	3.96E+02	pCi/L
EF2-07-028S	Q3	NORMAL	GEL	H-3	<	4.17E+02	pCi/L
EF2-07-028S	Q4	NORMAL	GEL	H-3	<	4.55E+02	pCi/L
EF2-07-029S	Q1	NORMAL		Note 3			
EF2-07-029S	Q2	NORMAL		Note 3			
EF2-07-029S	Q3	NORMAL		Note 3			
EF2-07-029S	Q4	NORMAL	GEL	H-3	<	4.48E+02	pCi/L
EF2-07-031S	Q1	NORMAL	GEL	H-3	<	4.08E+02	pCi/L
EF2-07-031S	Q2	NORMAL	GEL	H-3	<	3.93E+02	pCi/L
EF2-07-031S	Q3	NORMAL	GEL	H-3	<	4.10E+02	pCi/L
EF2-07-031S	Q4	NORMAL		Note 2			
MW-09	Q1	NORMAL		Note 2			
MW-09	Q2	NORMAL		Note 2			
MW-09	Q3	NORMAL		Note 2			
MW-09	Q4	NORMAL	GEL	H-3	<	4.47E+02	pCi/L

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**Table B-2 - Shallow and Intermediate Monitor Well Tritium Analysis Results for 2020**  
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Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
MW-10	Q1	NORMAL	GEL	H-3	<	4.01E+02	pCi/L
MW-10	Q2	NORMAL	GEL	H-3	<	3.88E+02	pCi/L
MW-10	Q3	NORMAL		Note 2			
MW-10	Q4	NORMAL		Note 2			
MW-11	Q1	NORMAL	GEL	H-3	<	4.03E+02	pCi/L
MW-11	Q2	NORMAL		Note 1			
MW-11	Q3	NORMAL		Note 1			
MW-11	Q4	NORMAL		Note 1			
MW-18	Q1	NORMAL		Note 2			
MW-18	Q2	NORMAL		Note 2			
MW-18	Q3	NORMAL		Note 2			
MW-18	Q4	NORMAL		Note 2			
MW-21	Q1	NORMAL	GEL	H-3	<	4.02E+02	pCi/L
MW-21	Q2	NORMAL	GEL	H-3	<	4.24E+02	pCi/L
MW-21	Q3	NORMAL		Note 2			
MW-21	Q4	NORMAL	GEL	H-3	<	4.44E+02	pCi/L
EFT-01S	Q2	NORMAL	GEL	H-3	<	3.95E+02	pCi/L
EFT-01S	Q4	NORMAL	GEL	H-3	<	4.48E+02	pCi/L
EFT-02S	Q2	NORMAL	GEL	H-3	<	3.99E+02	pCi/L
EFT-02S	Q4	NORMAL	GEL	H-3	<	4.50E+02	pCi/L
EFT-04S	Q2	NORMAL	GEL	H-3	<	3.88E+02	pCi/L
EFT-04S	Q4	NORMAL	GEL	H-3	<	4.34E+02	pCi/L
EFT-05S	Q2	NORMAL	GEL	H-3	<	3.90E+02	pCi/L
EFT-05S	Q4	NORMAL	GEL	H-3	<	4.39E+02	pCi/L
EFT-06S	Q2	NORMAL	GEL	H-3	<	3.67E+02	pCi/L
EFT-06S	Q4	NORMAL	GEL	H-3	<	4.55E+02	pCi/L
EFT-07S	Q2	NORMAL	GEL	H-3	<	3.80E+02	pCi/L
EFT-07S	Q4	NORMAL	GEL	H-3	<	4.58E+02	pCi/L
EFT-08S	Q2	NORMAL	GEL	H-3	<	3.79E+02	pCi/L
EFT-08S	Q4	NORMAL	GEL	H-3	<	4.55E+02	pCi/L
EFT-08SR	Q2	NORMAL	GEL	H-3	<	3.89E+02	pCi/L
EFT-08SR	Q4	NORMAL	GEL	H-3	<	4.41E+02	pCi/L
EFT-09S	Q2	NORMAL	GEL	H-3		3.90E+02	pCi/L
EFT-09S	Q4	NORMAL	GEL	H-3	<	4.58E+02	pCi/L
EFT-10S	Q2	NORMAL	GEL	H-3	<	3.91E+02	pCi/L
EFT-10S	Q4	NORMAL	GEL	H-3	<	4.52E+02	pCi/L
P-392S	Q1	NORMAL	GEL	H-3	<	3.27E+02	pCi/L
P-392S	Q2	NORMAL	GEL	H-3	<	3.26E+02	pCi/L
P-392S	Q3	NORMAL	GEL	H-3	<	3.39E+02	pCi/L
P-392S	Q4	NORMAL	GEL	H-3	<	3.94E+02	pCi/L

**Table B-2** - Shallow and Intermediate Monitor Well Tritium Analysis Results for 2020  
(Continued)

Monitor Well	Quarter	QA Type	Lab ID	Parameter	Prefix	Value	Units
EFT-01I	Q2	NORMAL	GEL	H-3	<	3.98E+02	pCi/L
EFT-01I	Q4	NORMAL	GEL	H-3	<	4.33E+02	pCi/L
EFT-11I	Q2	NORMAL	GEL	H-3	<	3.81E+02	pCi/L
EFT-11I	Q4	NORMAL	GEL	H-3	<	4.55E+02	pCi/L
EFT-12I	Q2	NORMAL	GEL	H-3	<	3.93E+02	pCi/L
EFT-12I	Q4	NORMAL	GEL	H-3	<	4.52E+02	pCi/L
EFT-13I	Q2	NORMAL		Note 2			
EFT-13I	Q4	NORMAL	GEL	H-3	<	4.46E+02	pCi/L

Note 1: Monitor well inaccessible – for example in construction area.

Note 2: Monitor well could not be sampled – for example covered by snow, ice, water, gravel, or dried out.

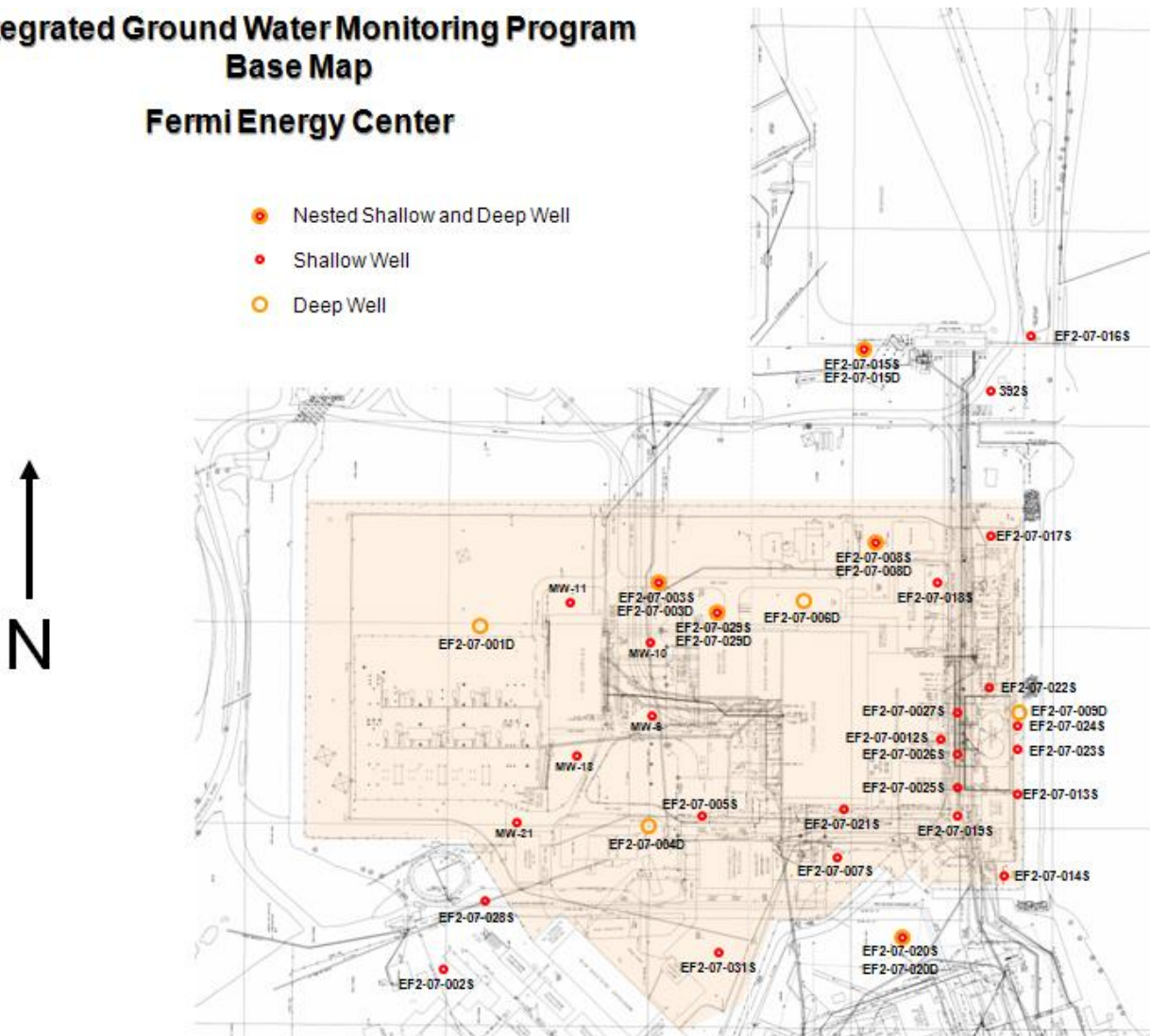
Note 3: Monitor well could not be sampled – under obstruction during construction periods and alternate well in immediate area sampled.

Note 4: Monitor well could not be sampled – in a restricted area and alternate well in immediate area sampled.

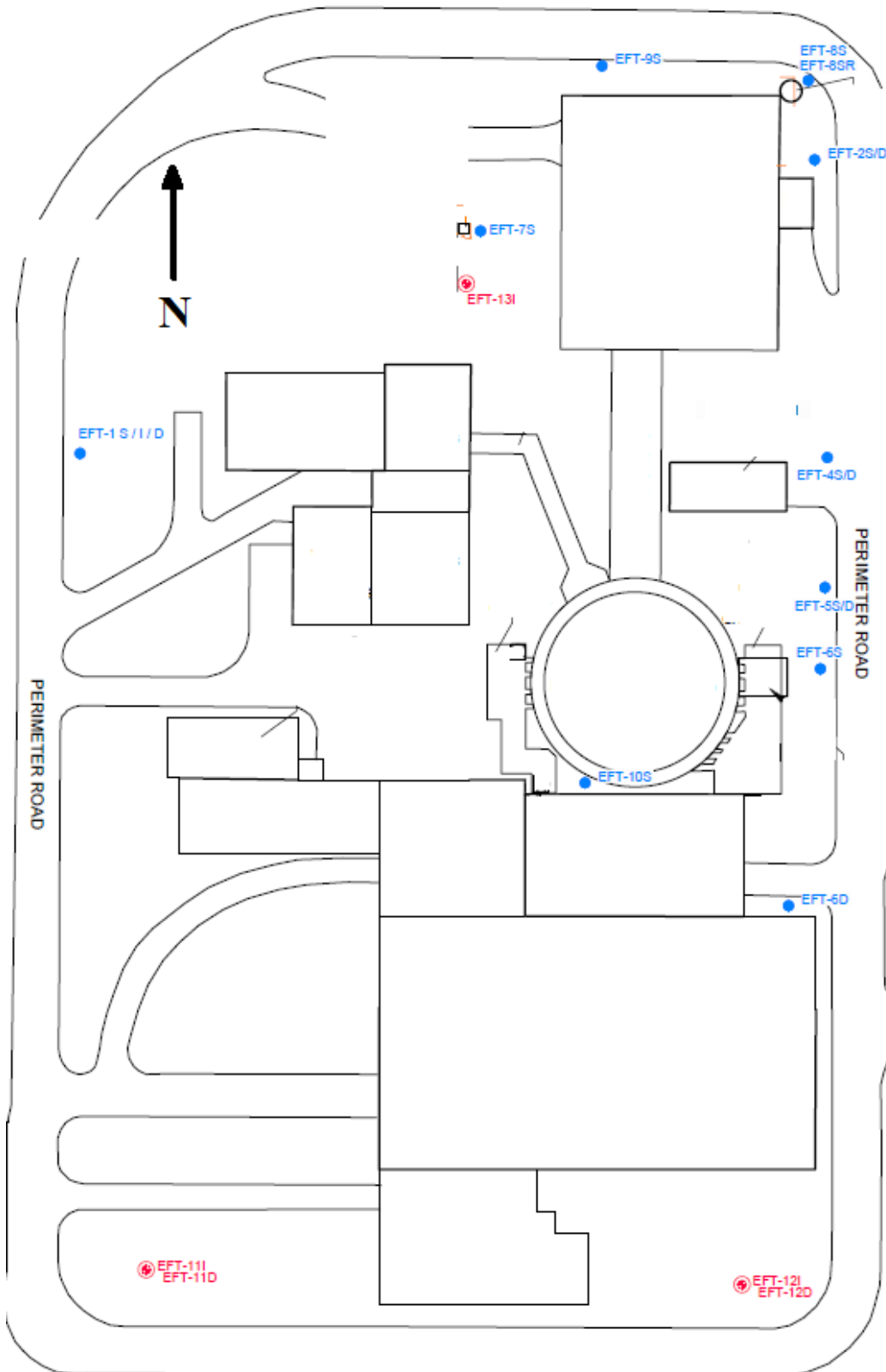
## Maps

Map 1 - Map of Current Monitor Well Locations (EF2 and Owner Controlled Area)

### Integrated Ground Water Monitoring Program Base Map Fermi Energy Center



Map 2 - Map of Current Monitor Well Locations (Fermi 1)





## Appendix C

### Rainwater Data and Analysis

Fermi 2 has documented the phenomenon of rainwater washout, also known as recapture, of gaseous effluents, in which tritium concentrations above background levels are routinely detected in rainwater samples collected at the site. These positive samples are most often observed in sectors which are downwind from the plant during the rain event. Table C-1 below shows that tritium was detected in 2 of 42 rainwater and storm water samples analyzed in 2020. These positive samples were obtained in adjacent locations and were downwind of the plant. The Nuclear Regulatory Commission has also recognized this phenomenon of recaptured gaseous effluents in NRC Regulatory Issue Summary 2008-03.

Fermi 2 continues to monitor this phenomenon through the collection of rainwater samples and storm water outfall samples at least once per quarter (however in the first and third quarters of 2020, insufficient sample volume was available for analysis). These samples are normally analyzed for tritium to a Lower Limit of Detection (LLD) of 500 pCi/L or less. The table and map in this appendix show tritium results and collection locations for 2020 rainwater samples. The following general points may be made about recent years' data:

- 1) Higher rainwater tritium levels were detected most frequently and in sectors which are downwind from the plant vents, especially east and southeast from the plant. This is to be expected based on the prevailing wind direction and the location of the turbine building vent, which is the site's largest tritium release point, the reactor building vent, the second largest, and the condensate storage tank and condensate return tank vents which have the lowest elevation of the site's tritium release points. It is also consistent with the occasional detection of tritium in shallow groundwater wells in previous years, as mentioned in Appendix B.
- 2) The amount and location of rainwater washout can vary considerably between rain events. For example, in 2020, tritium was detected in 2 samples in a fourth quarter rain event, at concentrations of 647 and 684 pCi/liter, but in no samples in other 2020 rain events. (First and third quarter samples were not analyzed due to insufficient samples volumes.)
- 3) Detection of tritium in rainwater samples is more frequent and at slightly higher levels than in shallow groundwater wells: in 2018 the average detected tritium level in positive rainwater and outfall samples was 541 pCi/L versus 447 pCi/L for positive shallow groundwater samples. This is consistent with the dilution of rainwater tritium prior to its detection in groundwater wells. In 2020, the average detected tritium level in rainwater was 666 pCi/L, but no tritium was detected in groundwater wells in 2020.
- 4) Tritium levels in rainwater near the CST can be partially explained by periodic venting of tritiated water vapor from the CST and CRT (minor release points for tritium).
- 5) All rainwater and storm-water tritium concentrations were less than one twentieth of the EPA drinking water limit (20,000 pCi/L). Thus, all tritium levels commonly detected in Fermi rainwater would be safe for drinking.

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Table C-1 presents 2020 rainwater and storm water tritium analyses. The designation "<" indicates that tritium in the sample was less than the minimum detectable activity (MDA) for that sample. This level is similar to the minimum detectable concentration (MDC) level reported by General Engineering Laboratory (GEL) for groundwater samples (see Appendix B). These MDA and MDC values are in the same range: approximately 300-500 pCi/L. Rainwater samples for quarter 2 were analyzed by Fermi 2 Chemistry personnel using a Liquid Scintillation Counter and samples from quarter 3 and 4 were analyzed by GEL. Both labs are requested to count these samples to an MDA of 500 pCi/L or less and all MDA levels reported were less than 500 pCi/L with one exception which was due to insufficient sample quantity. The MDA for each sample is presented in the table. The attached map shows the sample locations for the results reported in Table C-1.

**Table C-1 - Precipitation and Storm Water Tritium Analysis Results for Year 2020**

Sample Location	Quarter	Sample Date	Lab	Result (pCi/L or <MDA)	MDA (pCi/L)
H3-PR-01	Q1	*	*	*	*
H3-PR-04	Q1	*	*	*	*
H3-PR-05	Q1	*	*	*	*
H3-PR-06	Q1	*	*	*	*
H3-PR-07	Q1	*	*	*	*
H3-PR-08	Q1	*	*	*	*
H3-PR-14	Q1	*	*	*	*
H3-PR-23	Q1	*	*	*	*
H3-PR-24	Q1	*	*	*	*
H3-PR-29	Q1	*	*	*	*
H3-PR-30	Q1	*	*	*	*
OUTFALL 002	Q1	*	*	*	*
OUTFALL 014	Q1	*	*	*	*

Sample Location	Quarter	Sample Date	Lab	Result (pCi/L or <MDA)	MDA (pCi/L)
H3-PR-04	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-05	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-06	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-07	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-14	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-15	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-17	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-23	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-29	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
H3-PR-30	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
OUTFALL 002	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02
OUTFALL 014	Q2	30-May-20	Fermi 2 Chem	<	4.82E+02

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**Table C-1 - Precipitation and Storm Water Tritium Analysis Results for Year 2020 (Continued)**

Sample Location	Quarter	Sample Date	Lab	Result (pCi/L or <MDA)	MDA (pCi/L)
H3-PR-01	Q3	*	*	*	*
H3-PR-04	Q3	*	*	*	*
H3-PR-05	Q3	*	*	*	*
H3-PR-06	Q3	*	*	*	*
H3-PR-07	Q3	*	*	*	*
H3-PR-08	Q3	*	*	*	*
H3-PR-14	Q3	*	*	*	*
H3-PR-23	Q3	*	*	*	*
H3-PR-24	Q3	*	*	*	*
H3-PR-29	Q3	*	*	*	*
H3-PR-30	Q3	*	*	*	*
OUTFALL 002	Q3	30-Sep-20	GEL	<	4.79E+02
OUTFALL 014	Q3	30-Sep-20	GEL	<	4.51E+02

Sample Location	Quarter	Sample Date	Lab	Result (pCi/L or <MDA)	MDA (pCi/L)
H3-PR-01	Q4	5-Oct-20	GEL	6.84E+02	3.64E+02
H3-PR-04	Q4	5-Oct-20	GEL	<	3.60E+02
H3-PR-05	Q4	5-Oct-20	GEL	<	3.64E+02
H3-PR-06	Q4	5-Oct-20	GEL	<	3.46E+02
H3-PR-07	Q4	5-Oct-20	GEL	<	3.44E+02
H3-PR-08	Q4	5-Oct-20	GEL	<	4.42E+02
H3-PR-14	Q4	5-Oct-20	GEL	<	3.73E+02
H3-PR-15	Q4	5-Oct-20	GEL	<	3.63E+02
H3-PR-23	Q4	5-Oct-20	GEL	<	3.70E+02
H3-PR-24	Q4	5-Oct-20	GEL	<	3.62E+02
H3-PR-29	Q4	5-Oct-20	GEL	<	6.85E+02
H3-PR-30	Q4	5-Oct-20	GEL	6.47E+02	3.55E+02
OUTFALL 002	Q4	5-Oct-20	GEL	<	3.67E+02
OUTFALL 014	Q4	5-Oct-20	GEL	<	3.51E+02

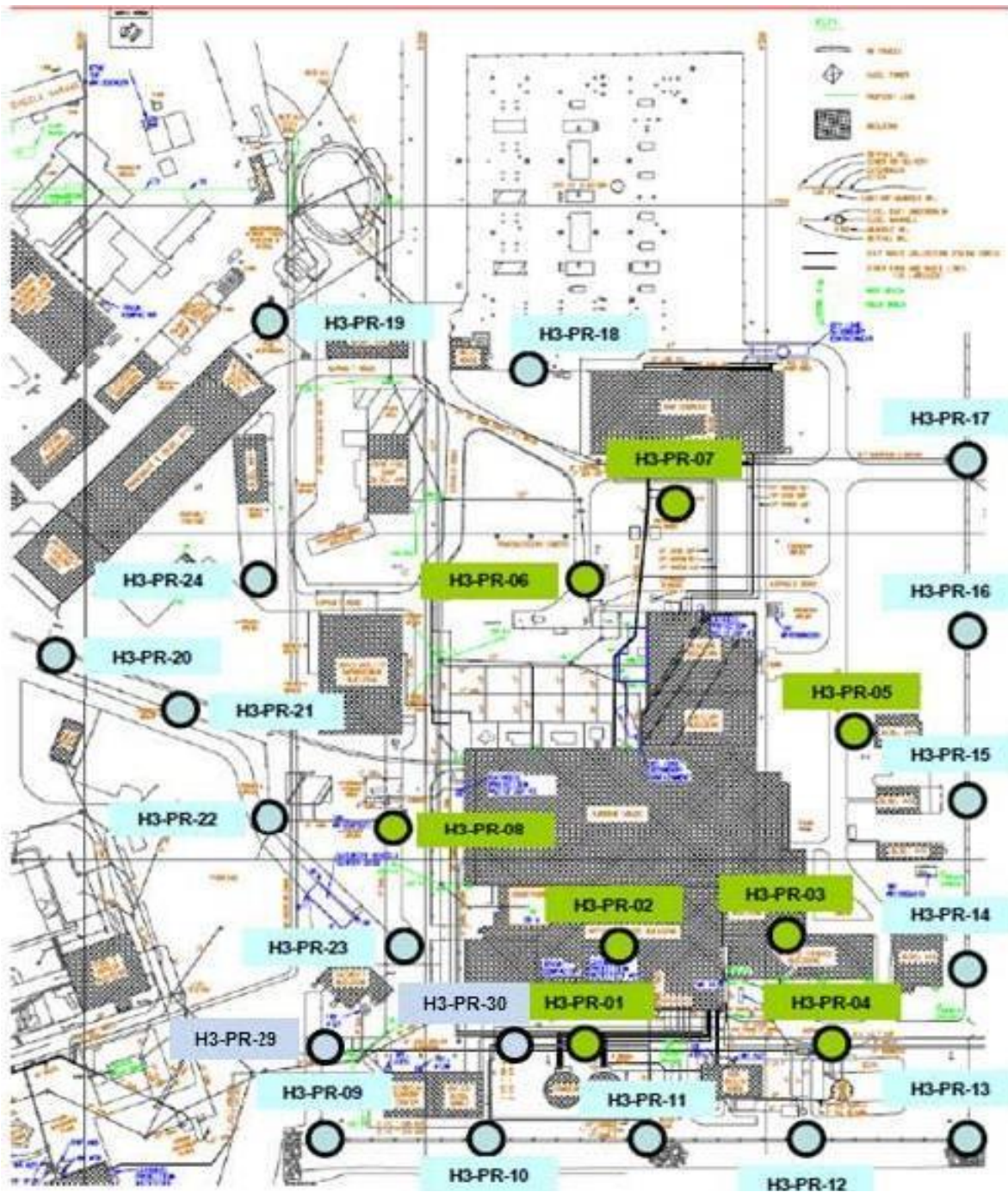
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Appendix C – Rainwater Data and Analysis*

**Table C-1 - Precipitation and Storm Water Tritium Analysis Results for Year 2020 (Continued)**

<b>Sample Location</b>	<b>Quarter</b>	<b>Sample Date</b>	<b>Lab</b>	<b>Result (pCi/L or &lt;MDA)</b>	<b>MDA (pCi/L)</b>
H3-PR-01	Q4	13-Oct-20	GEL	<	4.52E+02
H3-PR-04	Q4	13-Oct-20	GEL	<	4.52E+02
H3-PR-05	Q4	13-Oct-20	GEL	<	4.48E+02
H3-PR-06	Q4	13-Oct-20	GEL	<	4.37E+02
H3-PR-07	Q4	13-Oct-20	GEL	<	4.40E+02
H3-PR-08	Q4	13-Oct-20	GEL	<	4.48E+02
H3-PR-14	Q4	13-Oct-20	GEL	<	4.41E+02
H3-PR-15	Q4	13-Oct-20	GEL	<	4.63E+02
H3-PR-23	Q4	13-Oct-20	GEL	<	4.45E+02
H3-PR-24	Q4	13-Oct-20	GEL	<	4.44E+02
H3-PR-29	Q4	13-Oct-20	GEL	<	4.54E+02
H3-PR-30	Q4	13-Oct-20	GEL	<	4.54E+02
OUTFALL 002	Q4	13-Oct-20	GEL	<	4.50E+02
OUTFALL 014	Q4	13-Oct-20	GEL	<	4.28E+02

\*Due to inability to obtain sufficient rainwater sample sizes, and COVID-19 restrictions, rainwater data for the first and third quarters are not available. However, two rain events were sampled in the fourth quarter.

Map 3 Map of Precipitation Collection Locations (EF2 and Owner Controlled Area)



Appendix D  
2020 Meteorological Joint  
Frequency Distributions

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Appendix D – 2020 Meteorological Joint  
Frequency Distributions*

Fermi 2 Nuclear Station

Site Identifier: 20

Data Period Examined: 1/1/2020 -12/31/2020

Output of Table, wind-speed in m/s

Stability Class Based On: Delta T Between 60.0 and 10.0 Meters

Wind Measured At: 10.0 Meters

Wind Threshold At: 0.50 MPH

Joint Frequency Distribution of Wind Speed and Direction in Hours at 10.0 Meters

Table D-1: Joint Frequency Distribution - Class A

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	1
0.23 - 0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.35 - 1.12	0	4	5	1	1	1	3	1	4	0	0	0	3	1	2	1	27
1.13 - 2.01	6	9	9	10	17	21	22	6	16	9	12	9	11	13	9	12	191
2.02 - 2.91	18	28	37	30	26	73	74	48	45	25	31	17	22	20	21	18	533
2.92 - 3.80	30	16	19	27	29	65	75	55	25	32	30	24	25	21	29	22	524
3.81 - 5.14	27	19	8	18	36	40	40	28	20	34	29	19	25	42	33	12	430
5.15 - 6.48	11	18	1	4	34	15	2	6	8	11	12	11	15	32	18	5	203
6.49 - 8.27	2	7	0	1	9	10	0	1	2	5	3	1	10	28	8	1	88
> 8.27	0	0	0	0	0	0	0	0	0	0	1	1	2	5	1	0	10
Total	94	101	79	91	152	225	216	145	120	116	118	82	113	162	121	71	2007



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Table D-2: Joint Frequency Distribution - Class B

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	0
0.23 - 0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0.35 - 1.12	1	0	0	0	0	1	0	0	0	1	0	1	0	2	1	1	8
1.13 - 2.01	9	5	0	1	1	3	3	2	1	1	5	4	2	4	6	0	47
2.02 - 2.91	8	16	4	1	4	5	7	3	6	9	4	7	10	8	8	5	105
2.92 - 3.80	4	6	8	5	5	2	4	4	4	11	6	3	11	9	5	7	94
3.81 - 5.14	3	1	3	6	13	5	0	2	6	11	8	4	9	11	8	4	94
5.15 - 6.48	6	1	1	2	8	2	1	0	1	2	4	1	6	4	3	6	48
6.49 - 8.27	0	1	0	0	3	0	1	0	0	1	4	2	2	3	1	2	20
> 8.27	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	5
Total	31	30	16	15	35	18	16	11	18	36	32	23	41	42	32	25	421

Table D-3: Joint Frequency Distribution - Class C

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	0
0.23 - 0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
0.35 - 1.12	0	0	2	0	0	1	0	2	1	0	2	1	4	1	0	0	14
1.13 - 2.01	4	1	1	3	1	1	2	3	1	1	1	7	0	5	8	1	40
2.02 - 2.91	2	5	5	2	1	2	2	2	6	10	4	8	4	10	11	6	80
2.92 - 3.80	1	4	1	1	1	2	3	0	1	10	4	3	5	7	9	9	61
3.81 - 5.14	2	2	2	3	6	0	3	2	3	7	10	5	12	5	3	3	68
5.15 - 6.48	1	0	2	2	3	1	2	0	1	3	3	6	4	5	3	2	38
6.49 - 8.27	0	0	0	0	5	0	0	1	1	1	2	2	1	1	0	1	15
> 8.27	1	0	0	0	2	1	0	0	0	0	1	0	1	0	2	2	10
Total	11	12	13	11	19	8	12	10	14	32	27	32	31	35	36	24	327

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Frequency Distributions*

Table D-4: Joint Frequency Distribution - Class D

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	3
0.23 - 0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
0.35 - 1.12	13	6	6	1	5	3	4	2	4	5	10	8	15	12	10	4	108
1.13 - 2.01	22	17	29	10	13	10	9	12	16	21	33	44	47	48	46	32	409
2.02 - 2.91	68	27	57	18	25	23	21	31	25	44	61	67	76	51	59	39	692
2.92 - 3.80	46	31	46	36	32	26	19	22	39	53	70	52	45	42	40	44	643
3.81 - 5.14	42	28	61	41	40	23	26	26	31	74	75	50	46	50	29	27	669
5.15 - 6.48	25	18	13	31	20	6	18	16	19	51	41	25	40	27	21	10	381
6.49 - 8.27	6	4	0	14	16	6	10	8	6	13	14	7	14	11	3	10	142
> 8.27	3	0	0	0	3	2	3	1	0	3	5	3	2	6	1	0	32
Total	225	131	212	151	154	99	110	118	140	264	309	256	285	248	209	166	3080

Table D-5: Joint Frequency Distribution - Class E

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	2
0.23 - 0.34	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
0.35 - 1.12	9	2	5	5	5	2	8	5	10	15	13	17	22	15	17	9	159
1.13 - 2.01	22	16	20	6	12	22	13	24	24	43	47	66	69	75	47	36	542
2.02 - 2.91	24	17	14	18	16	33	22	22	44	65	46	51	52	47	36	40	547
2.92 - 3.80	10	9	8	13	13	15	26	23	27	63	27	8	16	18	15	8	299
3.81 - 5.14	4	4	5	13	11	14	10	16	21	49	25	4	11	14	9	3	213
5.15 - 6.48	2	3	0	3	1	4	3	3	7	18	8	1	1	4	4	2	64
6.49 - 8.27	0	0	0	0	5	1	3	5	6	13	4	0	0	1	0	0	38
> 8.27	0	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0	4
Total	71	51	52	59	64	91	85	98	140	267	170	147	172	174	128	98	1869

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Frequency Distributions*

Table D-6: Joint Frequency Distribution - Class F

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	3
0.23 - 0.34	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	3
0.35 - 1.12	10	3	2	4	4	4	7	6	11	16	16	16	13	16	12	7	147
1.13 - 2.01	14	13	3	3	2	8	4	10	16	15	25	32	45	55	33	12	290
2.02 - 2.91	11	6	1	1	2	10	4	8	17	24	12	10	5	14	8	11	144
2.92 - 3.80	0	1	2	2	6	2	3	8	11	20	3	0	0	1	2	1	62
3.81 - 5.14	0	1	1	0	1	4	6	3	2	9	3	0	0	0	1	0	31
5.15 - 6.48	0	1	0	0	0	0	2	6	0	10	1	0	0	0	1	0	21
6.49 - 8.27	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
> 8.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	35	25	9	12	16	28	26	41	57	94	60	58	63	86	57	32	702

Table D-7: Joint Frequency Distribution - Class G

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	2
0.23 - 0.34	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	3
0.35 - 1.12	4	2	0	0	4	4	3	5	3	7	4	13	9	28	16	12	114
1.13 - 2.01	8	3	1	1	0	4	2	7	4	8	9	16	19	33	24	19	158
2.02 - 2.91	4	1	0	0	4	11	7	5	8	5	3	2	4	4	2	5	65
2.92 - 3.80	2	0	0	0	1	5	5	1	3	1	0	1	0	0	0	0	19
3.81 - 5.14	0	0	0	0	1	2	3	1	3	1	0	0	0	0	0	0	11
5.15 - 6.48	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	5
6.49 - 8.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
> 8.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	18	6	1	1	10	26	22	22	22	22	17	32	32	65	42	37	377

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Table D-8: Joint Frequency Distribution - All Classes

Wind Speed (m/s)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	Total
< 0.23 Calm																	11
0.23 - 0.34	0	0	0	2	1	0	0	0	1	0	1	0	0	2	0	2	9
0.35 - 1.12	37	17	20	11	19	16	25	21	33	44	45	56	66	75	58	34	577
1.13 - 2.01	85	64	63	34	46	69	55	64	78	98	132	178	193	233	173	112	1677
2.02 - 2.91	135	100	118	70	78	157	137	119	151	182	161	162	173	154	145	124	2166
2.92 - 3.80	93	67	84	84	87	117	135	113	110	190	140	91	102	98	100	91	1702
3.81 - 5.14	78	55	80	81	108	88	88	78	86	185	150	82	103	122	83	49	1516
5.15 - 6.48	45	41	17	42	66	28	30	34	36	95	69	44	66	72	50	25	760
6.49 - 8.27	8	12	0	16	38	17	14	15	15	33	27	12	27	44	12	14	304
> 8.27	4	0	0	0	7	3	3	1	1	4	8	5	7	12	4	2	61
Total	485	356	382	340	450	495	487	445	511	831	733	630	737	812	625	453	8783

Table D-9: Percent of Occurrence of Stability Class

A	B	C	D	E	F	G
22.85	4.79	3.72	35.07	21.28	7.99	4.29

Table D-10: Distribution of Wind Direction vs Stability Class

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	94	101	79	91	152	225	216	145	120	116	118	82	113	162	121	71	1
B	31	30	16	15	35	18	16	11	18	36	32	23	41	42	32	25	0
C	11	12	13	11	19	8	12	10	14	32	27	32	31	35	36	24	0
D	225	131	212	151	154	99	110	118	140	264	309	256	285	248	209	166	3
E	71	51	52	59	64	91	85	98	140	267	170	147	172	174	128	98	2
F	35	25	9	12	16	28	26	41	57	94	60	58	63	86	57	32	3
G	18	6	1	1	10	26	22	22	22	22	17	32	32	65	42	37	2
TOTAL	485	356	382	340	450	495	487	445	511	831	733	630	737	812	625	453	11

**FERMI 2 POWER PLANT**  
**DTE Electric Company**  
**OPERATING LICENSE NO. NPF - 43**

**2020**

**Annual Radiological Environmental Operating Report**

**for the period of**  
**January 1, 2020 through December 31, 2020**

Prepared by:

Fermi 2  
Radiological Engineering

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**Appendix E**

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## *Executive Summary*

This Annual Radiological Environmental Operating Report is a detailed report on the Radiological Environmental Monitoring Program (REMP) conducted at DTE Electric Company's Fermi 2 nuclear power plant from January 1 through December 31, 2020.

Samples collected as part of the REMP program were analyzed by GEL Laboratories, LLC. Radioactivity measurements for these samples are reported in terms of sample concentration, which is compared with the laboratory's minimum detectable concentration (MDC) level for each analysis. If the measured concentration exceeds the MDC, radioactivity is considered to have been detected in the sample. The unit of radioactivity usually used in this report is the picocurie (pCi); a picocurie is one-one trillionth of a Curie (Ci). The unit of direct radiation dose used in this report is milliroentgen (mR); a milliroentgen is one-one thousandth of a Roentgen (R).

The REMP is divided into four major parts: direct radiation monitoring, atmospheric monitoring, terrestrial monitoring, and aquatic monitoring. The results of 2020 data showed that environmental radioactivity levels have not increased from background radioactivity levels detected prior to the operation of Fermi 2.

Direct radiation measurements were taken at 79 onsite and offsite locations using thermoluminescent dosimeters (TLD). In 2020, readings of 41 TLDs located beyond the site boundary and less than 8 miles from the plant were not significantly different from those of 12 control TLDs located more than 9 miles from the plant. The readings of these offsite TLDs, which are considered to be due only to background radiation, is equivalent to the radiation levels measured prior to the operation of Fermi 2. Readings of 26 onsite TLDs, which are affected by direct radiation from the plant or from the spent fuel casks, were frequently above background levels, as expected.

Atmospheric monitoring results for 2020 showed only naturally occurring radioactivity and were consistent with levels measured prior to the operation of Fermi 2. No radioactivity attributable to activities at Fermi 2 was detected in any atmospheric samples during 2020.

Terrestrial and aquatic monitoring results for 2020 samples of milk, leafy garden vegetables, offsite ground water, drinking water, surface water, aquatic sediments, and fish showed mostly naturally occurring radioactivity. However, in three sediment samples, Cs-137, which is primarily attributable to atmospheric nuclear weapons testing, was detected. Also, in one milk sample at the control milk location, Sr-89 and Sr-90 were reported at a level less than the required detection level; however this result was not confirmed by a simultaneous QC sample and is considered a laboratory anomaly rather than a true positive result. The radioactivity levels detected were generally consistent with levels measured prior to the operation of Fermi 2. No radioactivity attributable to activities at Fermi 2 was detected in any terrestrial or aquatic samples during 2020.



In summary, REMP sampling did not identify any radioactivity above MDC levels attributable to the operation of Fermi 2.

## ***Radiological Environmental Monitoring Program Results***

### ***Direct Radiation Monitoring***

Radiation is a normal component of the environment resulting primarily from natural sources, such as cosmic radiation and terrestrial radionuclides, and, to a lesser extent, from man made sources such as fallout from past nuclear weapons testing. The earth is constantly bombarded by cosmic radiation in the form of high energy gamma rays and particle radiation. The earth's crust also contains natural radioactive material, such as uranium, thorium, and potassium-40, which contributes to the background radiation. Direct radiation monitoring primarily measures ionizing radiation from these cosmic and terrestrial sources.

### ***Thermoluminescent Dosimeters***

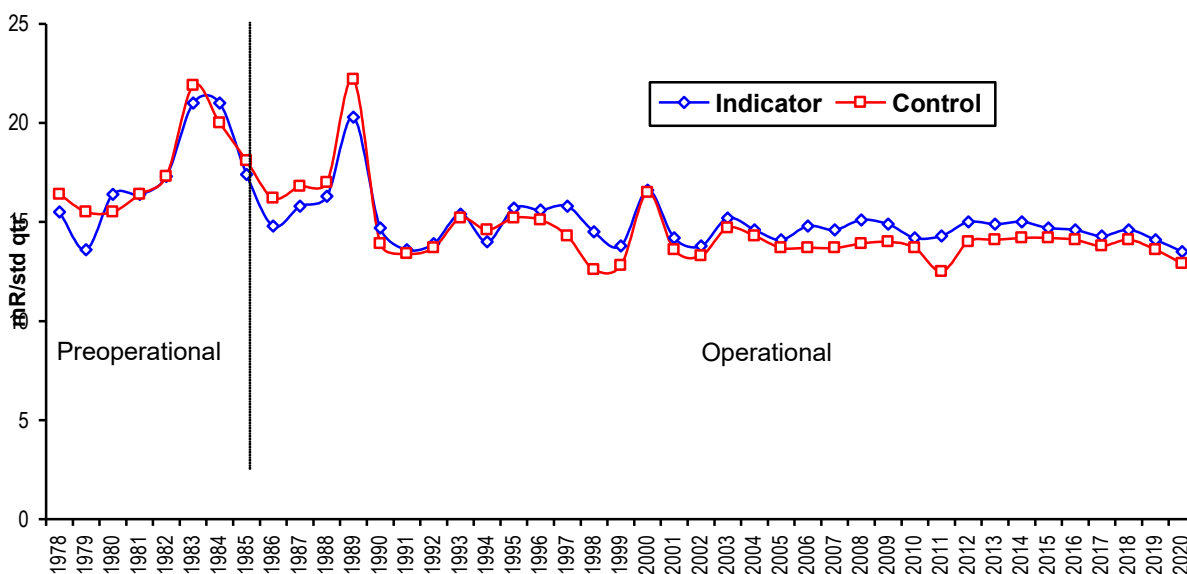
Fermi 2 uses thermoluminescent dosimeters (TLDs) to measure direct gamma radiation in the environment adjacent to Fermi 2. The TLDs are thoroughly tested to comply with NRC Regulatory Guide 4.13 and American National Standards Institute's (ANSI) publication N545-1975. Compliance with these standards assures accurate measurements under varying environmental conditions.

Fermi 2 has 79 TLD locations within a fifteen-mile radius of the plant. These 79 TLD locations may be divided into 3 categories: 1) 26 TLDs which are located onsite and are affected by "sky shine" radiation from the plant and/or by radiation from the facility's Independent Spent Fuel Storage Installation, and therefore are not representative of off-site dose, 2) 41 "indicator" TLDs which are located offsite or at the site boundary but less than 8 miles from the plant, and 3) 12 "control" TLDs which are located more than 9 miles from the plant. Readings of the indicator TLDs are compared with readings from the control TLDs to determine whether there is any measurable offsite direct radiation from the plant which can be distinguished from the background radiation which all of these TLDs receive while in the field. These environmental TLDs are exchanged and processed on a quarterly basis. TLD data are reported in terms of milliroentgen per standard quarter (mR/std qtr), with a standard quarter being 91 days.

In 2020, the average exposure for TLDs at all off-site indicator locations was 13.5 mR/std qtr and for all control locations was 12.9 mR/std qtr. This difference is not significant, given that the one sigma uncertainty of these values is usually greater than 1 mR. These exposures are consistent with preoperational and past operational measurements, as shown in Figure 1.

Individual TLD locations show unique long term patterns of exposure which tend to be consistent over a multi-year period. For example, there are six indicator TLDs which

have consistently higher readings than the average of indicator TLDs referenced above (13.5 mR/quarter). These six TLDs (T16, T26, T49, T57, T68, and T69) show average five year (2016-2020) readings ranging from 16.2 to 17.9 mR/quarter and are located at distances from 0.6 miles to 4.9 miles from the plant. (T49, at 1.1 miles WSW of the plant, was the highest of these six in each of these years.) However, these consistently higher readings are not attributed to direct radiation from the plant, due to considerations including the variable distances of the higher reading TLDs, lower readings of other TLDs at comparable distances, and the absence of lower readings during outage periods such as the second quarter of 2020. Instead, these higher reading locations are attributed to offsite environmental factors, which could include soil types, nearby rocks or structures, shady versus sunlit locations, etc.



**Figure 1: Fermi 2 Annual Average TLD Gamma Exposure.** The differences between indicator and control are not significant.

### ***Atmospheric Monitoring***

A potential exposure pathway to people is inhalation of airborne radioactive materials. Fermi 2 continuously samples the ambient air surrounding Fermi 2 for radioactivity attributable to the operation of the plant. Atmospheric monitoring began in 1979 during the preoperational program. At each sampling location, a mechanical air sampler is used to draw a continuous volume of air through two filters designed to collect particulates and radioiodines. Air samples are collected weekly and analyzed for gross beta radiation as well as gamma radiation attributable to iodine-131. The particulate filters for each sampling location are combined on a quarterly basis to form a “composite sample” and are analyzed for gamma-emitting radionuclides. There are five indicator sampling locations 0.6 to 1.4 miles from the plant. The control location is 14 miles west of the plant in an upwind sector that is considered to be unaffected by the operation of the plant.

### ***Air Sampling***

On October 16, 1980, the People’s Republic of China conducted an atmospheric nuclear weapon test. The fallout from this test was detected in Fermi 2 preoperational environmental air samples in 1981 (see Figure 2). The average gross beta for 1981 was 2.40E-1 pCi/cubic meter for control samples which was a factor of ten times greater than background gross beta. Gamma spectroscopic analyses of the particulate filters indicated cesium-137, cerium-141, cerium-144, ruthenium-103, ruthenium-106, zirconium-95, niobium-95, manganese-54, and antimony-125 in the atmosphere as a result of this test.

In 1986, as shown in Figure 2, there was a slight increase in gross beta activity and a 2.70E-1 pCi/cubic meter “spike” in the iodine-131 activity. These elevated levels in 1986 are attributed to the nuclear accident at Chernobyl on April 26, 1986. For all other years, the iodine-131 activity was below the lower limit of detection (LLD) of 7.0E-2 pCi/cubic meter.

On March 11, 2011, following the Tohoku earthquake and tsunami the Fukushima Daiichi Nuclear Power Plant in Japan, experienced a series of equipment failures, fuel-melt, and releases of radioactivity to the environment. Within weeks of the accident, US nuclear power plant REMP programs and other monitoring stations detected the radioactivity from Japan mainly in the form of airborne iodine-131.

During the week of April 5, 2011, all five of Fermi's air monitoring stations detected radioactivity greater than the MDC at an average airborne gross beta of 7.12E-2 pCi/cubic meter and 8.12E-2 pCi/cubic meter for iodine-131 due to the accident at Fukushima Daiichi Nuclear Power Plant.

During the 2020 monitoring period, 312 particulate air filters and 312 charcoal cartridges were collected and analyzed for gross beta activity and iodine-131 respectively. The average gross beta for indicator samples was 3.52E-2 pCi/cubic meter and 3.75E-2 pCi/cubic meter for control samples. None of the charcoal filters collected showed detectable levels of iodine-131. The following table contains the annual average gross beta results of all six current sample locations for 2020.

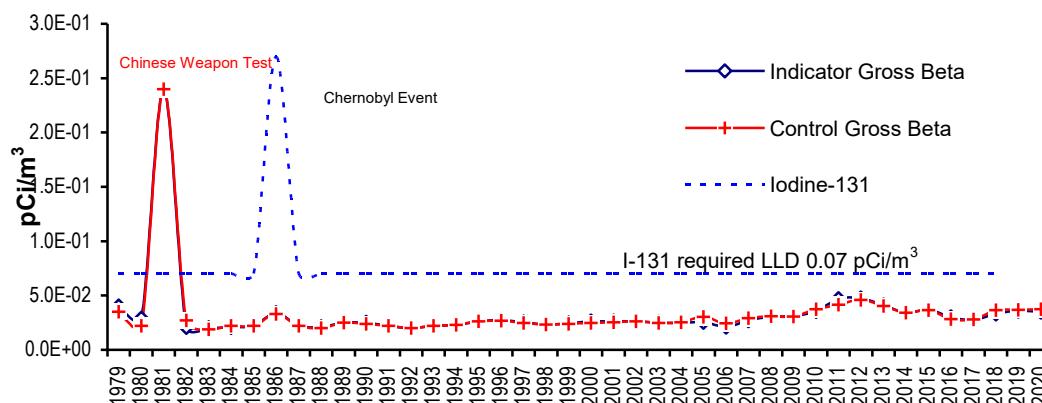
**Table 1: 2020 Average Gross Beta Concentrations in Air Particulates (pCi/m3)**

Station	Description (sector/distance)	Annual Average (Std.Dev., N)
API-1 (I)	Estral Beach (NE/1.4 mi.)	2.83E-2 (8.78E-3, N=52)
API-2 (I)	Site Boundary (NNW/0.6 mi.)	3.32E-2 (8.41E-3, N=52)
API-3 (I)	Site Boundary (NW/0.6 mi.)	3.27E-2 (8.06E-3, N=52)
API-4 (C)	North Custer Rd. (W/14 mi.)	3.75E-2 (9.26E-3, N=52)
API-5 (I)	Site Boundary (S/1.2 mi.)	4.99E-2 (2.57E-2, N=52)
API-6 (I)	Site Boundary (WNW/0.6 mi.)	3.19E-2 (1.11E-2, N=52)

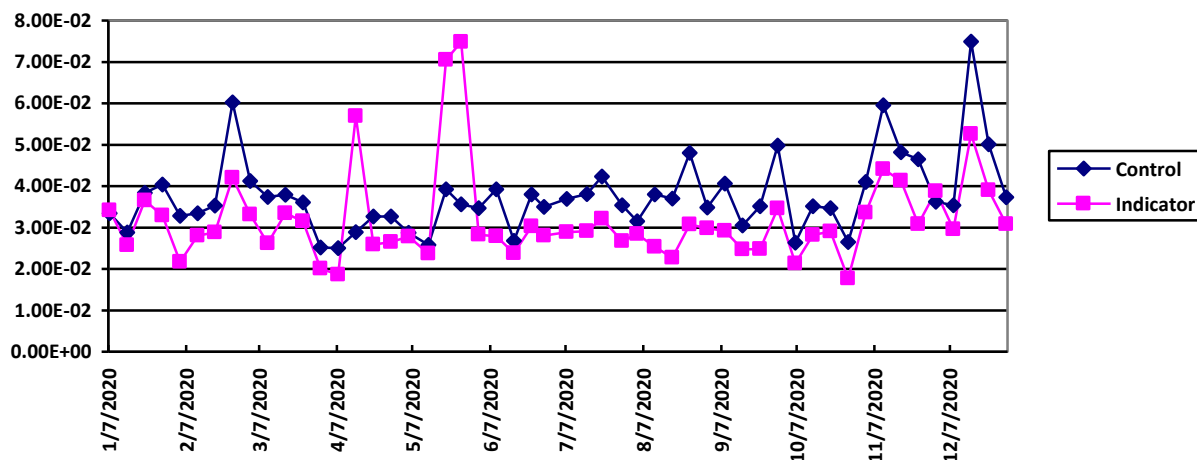
(I) = Indicator Station (C) = Control Station

Twenty-four (24) quarterly particulate filter composites were prepared and analyzed for gamma emitting radionuclides. Naturally occurring beryllium-7 and potassium-40 were detected in both indicator and control samples.

In conclusion, the atmospheric monitoring data are consistent with preoperational and prior operational data and show no adverse long-term trends in the environment attributable to operation of Fermi 2 as illustrated in Figures 2 and 3.



**Figure 2: Historical Gross Beta and Iodine-131 Activity in Air Samples.** The similarity between indicator and control gross beta results demonstrates that the operation of Fermi 2 has had no adverse impact with respect to these radionuclides. For I-131, the lower limit of detection (LLD) of 0.07 pCi/cubic meter is shown, except for the Chinese weapon test event in which I-131 was detected.



**Figure 3: Fermi 2 Air Particulate Gross Beta for 2020.** This figure shows the concentration of beta emitting radionuclides in airborne particulate samples at the control location (API-4, 14 miles west of the plant) and at the closest indicator location (API-6, 0.6 miles WNW of the plant). It does not show consistently increased radioactivity at the indicator location; in fact control concentrations are generally higher. However it

does show slight seasonal variation similar to that observed in previous years, namely greater activity in fall and winter months.

### ***Terrestrial Monitoring***

Radionuclides released to the atmosphere may deposit on soil and vegetation, and therefore, may eventually be incorporated into the human food chain. To assess the impact of Fermi 2 operations to humans from the ingestion pathway, samples of milk, green leafy vegetables, and ground water are collected and analyzed for radioactivity. The following sections discuss the type and frequency of terrestrial sampling, analyses performed, as well as a comparison of 2020 data to previous operational and preoperational data.

### ***Milk Sampling***

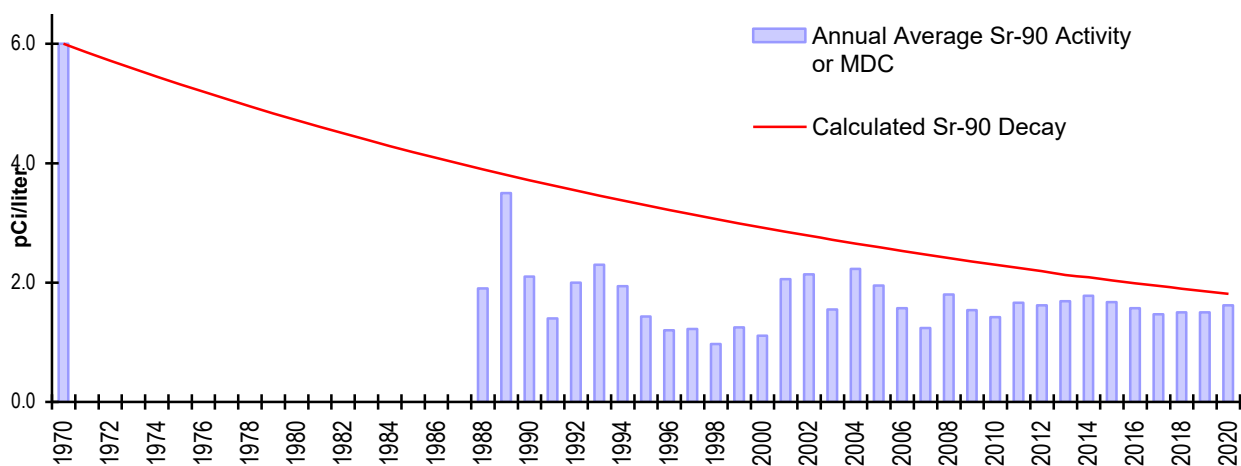
A major pathway in the human food chain is the consumption of milk from grazing animals (dairy cows or goats) due to biological concentration and the short time between source and human consumption in this pathway. Milk was collected in 2015 from one indicator location and one control location semimonthly when animals are in pasture, and monthly when the animals are on stored feed. However, in the fall of 2016, the indicator milk sample location ceased operation, and thereafter only the control milk sample is being collected. The milk is analyzed for iodine-131, other gamma emitting radionuclides, and strontium-89/90.

Milk sampling began in 1979 during the preoperational program. During this time period, milk samples were analyzed for iodine-131 and other gamma emitting radionuclides. Cesium-137 and naturally occurring potassium-40 were the only radionuclides detected in milk samples during the preoperational program. The cesium-137 activity averaged  $3.60\text{E}+0$  pCi/liter and was due to past atmospheric nuclear weapons testing. In 1986, after the nuclear accident at Chernobyl, iodine-131 and cesium-137 were detected in both indicator and control milk samples. The average activity was  $3.70\text{E}+0$  pCi/liter for iodine-131 and  $6.60\text{E}+0$  pCi/liter for cesium-137.

The analysis for strontium-89/90 began in 1988, and strontium-90 was occasionally detected in both indicator and control milk samples because of past atmospheric nuclear weapons testing. In 1970, the concentration of strontium-90 in Monroe County milk was  $6.00\text{E}+0$  pCi/liter according to the Michigan Department of Health's "Milk Surveillance," Radiation Data and Reports, Vol. 11-15, 1970-1974. Figure 4 shows the calculated radiological decay curve for the 1970 concentration of strontium-90 and the average concentrations, or MDC values if strontium-90 was not detected, since 1988. This graph illustrates that the inventory of strontium-90 in local milk samples has not exceeded the projected decay from 1970 levels. This supports the conclusion that the inventory of strontium-90 in the Fermi 2 environment is due to sources such as fallout from past atmospheric nuclear weapons testing and not the operation of Fermi 2.

During 2020, thirty-six (36) milk samples were collected and analyzed for iodine-131, gamma emitting radionuclides, and strontium-89/90. No iodine-131 or strontium-89/90 was detected greater than the MDC in any of the samples, except for a low level (less than the required detection level) report of Sr-89 and Sr-90 in the July 23 sample. Since this report was not confirmed by a simultaneous QC sample, it is considered a laboratory anomaly which does not indicate a positive detection of Sr-89/90 in milk. Since there were no confirmed detections of strontium-90 in any milk samples, the average MDC of 1.5 pCi/liter is shown for strontium-90 in milk in 2020 in Figure 4.

Naturally occurring potassium-40 was detected in these milk samples (average  $1.44E+3$  pCi/L, Std. Dev.  $4.19E+1$ , N=36).



**Figure 4: Historical Strontium-90 Activity in Local Milk Samples.** The concentration of strontium-90 in local milk samples and the MDC levels are below the calculated decay curve based on 1970 levels. The data shown are the average of positive values; if strontium was not detected at the Minimum Detectable Concentration (MDC) in any samples taken during the monitoring period, the average of the MDC values is shown.

### ***Ground-Water Sampling***

In areas not served by municipal water systems, water supplies for domestic use are generally obtained from private wells. The network of private wells presently in use forms the source of water for domestic and livestock purposes in farms and homes west and north of the site. With the construction of new water plants and distribution systems, the water use trend in the area is from ground water (local wells) to surface water (municipal water supply).

Ground water is collected on a quarterly basis from four wells surrounding Fermi 2. (This sampling is distinct from the onsite groundwater sampling performed under the

integrated ground water protection program--IGWPP.) The ground water is analyzed for gamma-emitting radionuclides and tritium. Sampling location GW-4, which is located approximately 0.6 miles west northwest, is designated as the control location because it is up-gradient and is least likely to be affected by the operation of the plant. The other three sampling locations are down-gradient from Fermi 2 and designated as indicator locations.

Ground-water sampling began in 1987, during the operational period of the REMP program. From 1987 to 1996, naturally occurring potassium-40, cesium-137, and tritium were detected in both indicator and control samples. The average concentration was 7.71E+0 pCi/liter for cesium-137 and 1.50E+2 pCi/liter for tritium. The presence of cesium-137 and tritium in those ground-water samples was due to fallout from past atmospheric nuclear weapons testing leaching into the soil and becoming incorporated into the ground water. From 1997 on, naturally occurring radioactivity was detected in ground-water samples.

In 2020, twenty (20) ground-water samples were collected and analyzed for gamma emitting radionuclides and tritium. Only naturally occurring thorium-228 was detected at concentrations greater than the MDC; this isotope was detected in both indicator and control samples.

### ***Vegetation Sampling***

Fermi 2 collects vegetation samples from three indicator locations, and at one control location that is at a distance and direction which is considered to be unaffected by plant operations. Samples are analyzed for gamma-emitting radionuclides. According to Appendix A, samples are to be collected monthly from each location, when available. Although only six sample were collected in 2020, Fermi 2 plans to increase the sampling frequency in 2021, in accordance with Appendix A.

Vegetable sampling started in 1982. During the preoperational period from 1982 to 1985, only naturally occurring potassium-40 was detected in both indicator and control vegetable samples. During the operational period from 1985 to 1990 and 1994 to 1995, only naturally occurring potassium-40 was detected in both indicator and control vegetable samples. However, in 1991, 1992, and 1993, cesium-137 was detected in one indicator sample each year and had an average concentration of 1.2E+1 pCi/kilogram.

Cesium-137 may become incorporated into plants by either uptake from the soil or direct deposition on foliar surfaces. Since cesium-137 is normally not detected in gaseous effluent samples from Fermi 2, and there have been no recent atmospheric weapons testing or nuclear accidents, the incorporation of cesium-137 by direct deposition is highly unlikely. The most probable source of cesium-137 in vegetable samples is the uptake of previously deposited cesium-137, which has leached into the soil. This cesium activity is attributed to fallout from past atmospheric weapons testing and to the nuclear accident at Chernobyl.

During 2020, six (6) vegetation samples were collected and analyzed for gamma emitting radionuclides. No iodine-131 was detected greater than the MDC in vegetation samples during 2020. The only gamma emitting radionuclides detected were naturally occurring beryllium-7 and potassium-40, which were found in both indicator and control samples. Starting in 2021, an effort is being made to collect more vegetation samples: Collection will be monthly at all locations, when available.

To summarize, terrestrial monitoring results for 2020 of milk, ground water, and vegetation samples, showed confirmed detection of naturally occurring radioactivity only. The radioactivity levels detected were consistent with levels measured prior to the operation of Fermi 2 and no radioactivity attributable to activities at Fermi 2 was detected greater than the MDC in any terrestrial sample. In conclusion, the terrestrial monitoring data show no adverse trends attributable to emissions from Fermi 2 in the terrestrial environment.

### ***Aquatic Monitoring***

Fermi 2 is located at the west end of Lake Erie. This Great Lake is used as a source for drinking water, as well as for recreational activities such as fishing, swimming, sunbathing, and boating. Because of these uses, Lake Erie and its tributaries are routinely monitored for radioactivity.

The aquatic monitoring portion of the REMP consists of sampling raw municipal drinking water, surface water, lake sediments, and fish for the presence of radioactivity. The following sections discuss the type and frequency of aquatic sampling, analyses performed, as well as a comparison of 2020 data to previous operational and preoperational data.

### ***Drinking-Water Sampling***

Fermi 2 monitors drinking water at one control location and one indicator location using automatic samplers. The automatic samplers collect drinking water at time intervals that are very short (hourly) relative to the sample collection period (monthly) in order to assure that a representative sample is obtained. Indicator water samples are obtained at the Monroe water intake located approximately 1.1 miles south of the plant. Detroit municipal water is used for the control samples and is obtained at the Great Lakes Water Authority water intake in Allen Park located approximately 18.6 miles north of the plant. Drinking water samples are collected on a monthly basis and analyzed for gross beta, strontium-89/90, and gamma-emitting radionuclides. The monthly samples for each location are combined on a quarterly basis and analyzed for tritium activity.

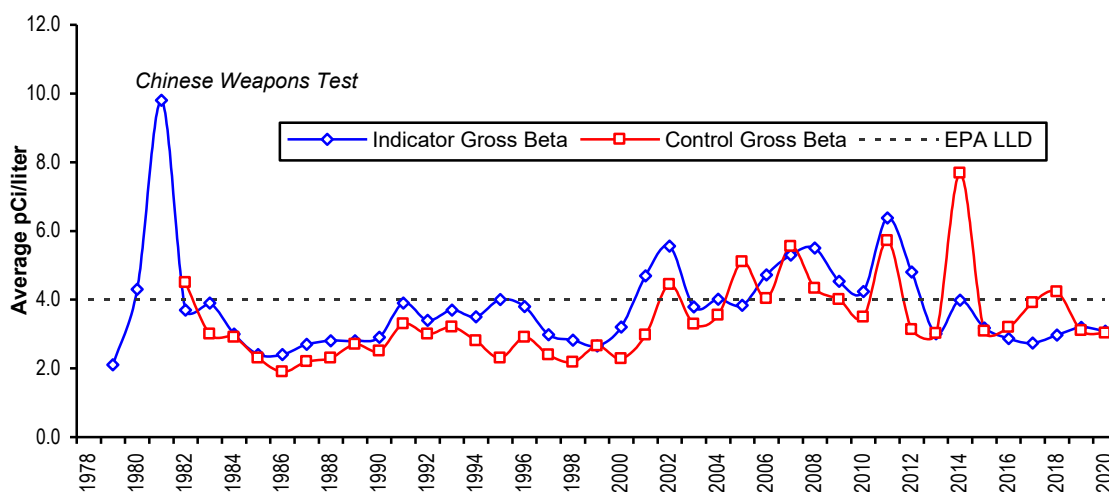
In late 1980, as shown in Figure 5, an atmospheric nuclear weapon test was conducted by the People's Republic of China. As a result of this test, the average gross beta for 1981 was 9.80E+0 pCi/liter for water samples. Figure 5 also shows that, except for the Chinese weapons testing, the historic drinking water sample data are below or slightly above the lower limit of detection (4.00E+0 pCi/liter) required by US Environmental



Protection Agency (USEPA) National Interim Primary Drinking Water regulations. Even during the Chinese weapons testing, the drinking water samples did not exceed the USEPA maximum allowable criteria of  $5.00E+1$  pCi/liter gross beta. In 1980 and 1983, cesium-137 was detected in drinking water samples at levels ranging from  $5.40E+0$  pCi/liter to  $1.90E+1$  pCi/liter. Tritium was also detected during the preoperational program and had an average of  $3.25E+2$  pCi/liter. The presence of cesium-137 and detectable levels of tritium in these water samples is due to fallout from past atmospheric nuclear weapons testing and naturally occurring tritium.

The analysis of drinking water for strontium-89 and strontium-90 began in 1988 and strontium-90 has been detected in both indicator and control samples. Tritium was also detected in both indicator and control drinking water samples at times during this earlier time period. The presence of strontium-90 and detectable levels of tritium in these water samples is due to fallout from past atmospheric nuclear weapons testing and naturally occurring tritium. In recent years these nuclides have not been detected in drinking water samples.

In 2020, thirty-six (36) drinking water samples were collected and analyzed for gross beta, gamma emitting radionuclides, strontium-89/90, and tritium. Strontium-89 and strontium-90 activity were not detected greater than the MDC in drinking water samples from indicator or control locations during 2020. Twelve (12) quarterly composite drinking water samples were prepared and analyzed for tritium. No tritium activity was detected greater than the MDC in drinking water samples from indicator or control locations during 2020. The only radionuclides detected in these samples were naturally occurring potassium-40, in one indicator sample and one control sample, and naturally occurring thallium-228, in one indicator sample. Figure 5 shows historical indicator versus control location gross beta activity, or MDC values if gross beta was not detected, as was the case in 2020. There is no indication of a trend toward greater activity in indicator samples than in control samples.



**Figure 5: Historical Gross Beta Activity in Drinking Water Samples.**

Since 1982, the annual concentrations of beta emitting radionuclides in drinking water samples collected from indicator locations have been similar to those from control locations. Figure 5 shows that Fermi 2 has had no measurable radiological impact on local drinking water. This graph shows the average of positive values, or if activity was less than MDC in all samples taken during the monitoring period, the average of the MDC values is reported.

### ***Surface-Water Sampling***

Fermi 2 monitors surface water at two locations using automatic samplers. As with drinking water, the automatic samplers collect surface water at time intervals that are very short (hourly) relative to the sample collection period (monthly) in order to assure that a representative sample is obtained. Indicator surface water samples are obtained at the Fermi 2 General Service Water building, located approximately 0.2 miles south southeast from Fermi 2. The control surface water samples are obtained from DTE Energy Trenton Channel Power Plant's cooling water intake on the Detroit River, which is approximately 11.7 miles north northeast of Fermi 2. Surface water samples are collected on a monthly basis and analyzed for strontium-89/90 and gamma emitting radionuclides. The monthly samples for each location are combined on a quarterly basis to form a quarterly composite sample and are analyzed for tritium.

Surface water sampling began in 1979, and the samples were analyzed for gamma emitting radionuclides and tritium. During this preoperational program, no gamma emitting radionuclides, except for naturally occurring potassium-40, were detected. Tritium was detected in both indicator and control samples during this time period and had an average concentration of  $3.15\text{E}+2$  pCi/liter. This tritium activity represents the background concentration due to naturally occurring tritium and tritium produced during past atmospheric nuclear weapons testing.

From 1985 to 2000, as part of the operational program, surface-water samples were analyzed for gamma emitting radionuclides and tritium. The analysis for strontium-89/90 did not begin until 1988, and strontium-90 was detected in both indicator and control samples. In 1990, two indicator samples showed detectable activity for cesium-137 at an average concentration of  $1.20\text{E}+1$  pCi/liter. The presence of cesium-137 and strontium-90 in these water samples is due to fallout from past atmospheric nuclear weapons testing. Tritium was detected in both indicator and control surface water samples during this time period at a concentration of  $2.31\text{E}+2$  pCi/liter. This tritium activity is consistent with background levels measured during the preoperational program.

In 2020, thirty-six (36) surface water samples were collected and analyzed for gamma emitting radionuclides and strontium-89/90. From these samples, twelve (12) quarterly composite samples (eight samples for indicator locations and four samples for the control location) were prepared and analyzed for tritium. During 2020, no plant related gamma emitting radioisotopes were detected above their respective MDC in any surface-water samples. However, in three indicator samples, naturally occurring potassium-40 was detected at an average concentration of  $3.10\text{E}+1$  pCi/L. Strontium-89 and strontium-90 activity were not detected greater than the MDC in surface water samples from indicator

or control locations during 2020. Tritium was not detected greater than the MDC in surface water samples from indicator or control locations during 2020.

### ***Sediment Sampling***

Sediments often act as a sink (temporary or permanent) for radionuclides, but they may also become a source, as when they are resuspended during periods of increased turbulence or are dredged and deposited elsewhere. Sediment, in the vicinity of the liquid discharge point, represents the most likely site for accumulation of radionuclides in the aquatic environment, and with long-lived radionuclides, a gradual increase in radioactivity concentration would be expected over time if discharges occur (no radioactive liquid discharges have occurred at Fermi 2 since the mid-1990s) Sediment, therefore, can provide a long-term indication of change that may appear in other sample media (i.e., water or fish samples).

Sediments from five locations are collected from the Lake Erie shoreline and bottom on a semiannual basis (Spring and Fall) and are analyzed for gamma emitting radionuclides and strontium-89/90. Of these five sample locations, one is a control and four are indicator locations. The control sample is collected near the DTE Energy Trenton Channel Power Plant's cooling water intake. The indicator samples are collected at:

- Estral Beach,
- Offshore of the Fermi 2 liquid discharge,
- Pointe Aux Peaux (shoreline), and
- Indian Trails Community Beach.

During the preoperational monitoring program only, samples from indicator locations were analyzed for gamma emitting radionuclides as there was no control location required. Naturally occurring radionuclides were commonly identified in sediment samples from this period; the only manmade radioisotope detected was cesium-137. For this time period, the average cesium-137 concentration was 3.27E+2 pCi/kilogram. The presence of cesium-137 in these sediment samples is due to fallout from past atmospheric nuclear weapons testing.

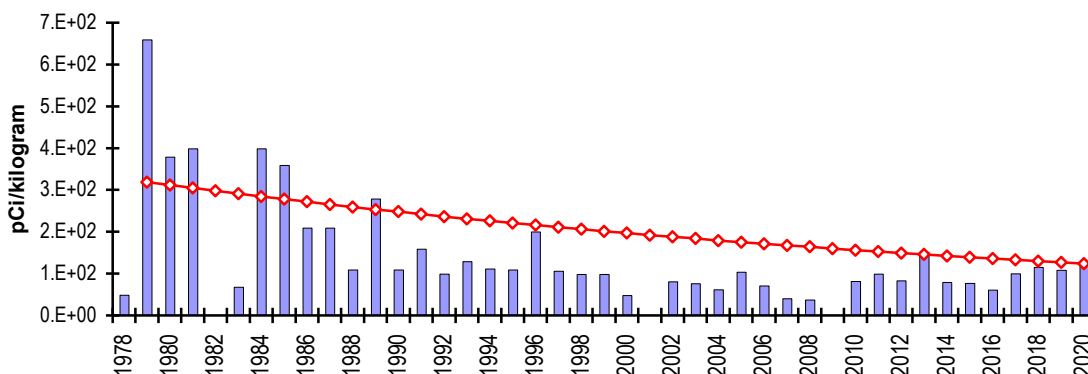
From 1985 to 2020, cesium-137 (average activity 1.24E+2 pCi/kilogram) and naturally occurring radionuclides were detected in sediment samples. The analysis for strontium-89/90 began in 1988, and strontium-90 has periodically been detected at both indicator and control samples (average activity 2.25E+2 pCi/kilogram). Because both of these radioisotopes' long half-life, approximately 30 years, the persistence of cesium-137 and sporadic occurrence of strontium-90 in sediment samples has been attributed to fallout from past atmospheric nuclear weapons testing.

In 1990 and 1991, the spring samples taken at the Fermi 2 liquid discharge line (location S-2) showed activity for plant related radionuclides (manganese-54, cobalt-58, cobalt-60, and zinc-65) and was determined to be a result of liquid effluent from Fermi 2. The sample results were well below any regulatory reporting limits and were consistent with

the activity released from the plant in liquid effluents as per the approved effluent program. The dose impact was negligible due to these effluents.

In 2020, ten (10) sediment samples were collected and analyzed for gamma emitting radionuclides and strontium-89/90. Cesium-137 was detected in two indicator location samples (average  $9.16E+1$  pCi/kg) and one control location sample ( $1.96E+2$  pCi/kg). The presence of cesium-137 in sediment samples is due to fallout from past atmospheric nuclear weapons testing. Naturally occurring radionuclides actinium-228, bismuth-214, lead-212, lead-214, potassium-40, radium-226, thallium-208, thorium-228, and thorium-230 were also detected in both indicator and control sediment samples during this sampling period. The highest concentrations of these naturally occurring radionuclides have consistently been detected offshore of the Fermi 2 liquid discharge point; this may be related to the fact that this is also the circulating water pond decant point. However, the detection of Cs-137 occurred in a sample from an indicator location which was not the Fermi 2 liquid discharge point, and in a control sample, as noted. No plant-related radionuclides were identified in any sediment samples taken in 2020.

Figure 6 shows the historical concentration of cesium-137 in sediment samples from 1978 to 2020. Using the average pre-operational cesium-137 activity in sediments ( $3.27E+2$  pCi/kilogram, Std Dev  $2.11E+2$ ) as a starting point, the estimated decayed cesium-137 activity is calculated using the half-life of cesium-137 (30.08 years) and a starting year of 1978. This trend of decreasing activity of cesium-137 is also seen in the sediment samples taken since 1985, although sediment sample cesium-137 activity seems to have leveled off in recent years, perhaps due to additional inputs such as the Chernobyl and Fukushima accidents.



**Figure 6: Historical Cesium-137 Activity in Sediment Samples.** As the calculated trend line shows, the concentration of cesium-137 in Lake Erie sediments has not exceeded predicted levels based on decay of cesium-137 from preoperational levels.

### ***Fish Sampling***

Samples of fish are collected from Lake Erie at three locations on a semiannual basis. There are two control locations and one indicator location. The two control locations are offshore of Celeron Island and in Brest Bay. The indicator location is approximately 1200 feet offshore of the Fermi 2 liquid effluent discharge. Edible portions of the fish are analyzed for gamma emitting radionuclides and strontium-89/90.

During the preoperational program, fish samples were analyzed for gamma emitting radionuclides. Only cesium-137 and naturally occurring potassium-40 were detected during this time period. The average concentration of cesium-137 for indicator samples was  $3.53\text{E}+1$  pCi/kilogram and  $4.20\text{E}+1$  pCi/kilogram for control samples. The presence of cesium-137 in these fish samples is due to fallout from past atmospheric nuclear weapons testing.

From 1985 to 2020, naturally occurring potassium-40 and sometimes cesium-137 were detected in fish samples. The average cesium-137 concentration for indicator samples was  $2.87\text{E}+1$  pCi/kilogram and  $3.31\text{E}+1$  pCi/kilogram for control samples. The analysis for strontium-89/90 began in 1990, and strontium-90 was sometimes detected. The average strontium-90 concentrations for indicator samples was  $3.84\text{E}+1$  pCi/kilogram and  $3.15\text{E}+1$  pCi/kilogram for control samples. The presence of cesium-137 and strontium-90 in these fish samples is due to fallout from past atmospheric nuclear weapons testing.

In 2020, 23 fish samples were collected and analyzed for gamma emitting radionuclides and strontium-89/90. Naturally occurring potassium-40 was detected in all indicator and all control fish samples in 2020. The average indicator concentration of potassium-40 was  $3.34\text{E}+3$  pCi/kg, and the average control concentration was  $3.02\text{E}+3$  pCi/kg. No other radionuclides were detected in fish samples in 2020.

To summarize, aquatic monitoring results for 2020 of water, sediment, and fish showed only naturally occurring radioactivity and radioactivity associated with fallout from past atmospheric nuclear weapons testing and were consistent with levels measured prior to the operation of Fermi 2. In conclusion, no radioactivity attributable to activities at Fermi 2 was detected greater than the MDC in any aquatic sample during 2020 and no adverse long-term trends are seen in the aquatic monitoring data.

## ***Land-Use Census***

The Land-Use Census is conducted in accordance with the Fermi 2 Offsite Dose Calculation Manual (ODCM), control 3.12.2, and satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR Part 50. This census identifies changes in the use of unrestricted areas to permit modifications to monitoring programs for evaluating doses to individuals from principal pathways of exposure. The pathways of concern are listed below:

- **Inhalation Pathway** - Internal exposure as a result of breathing radionuclides carried in the air.
- **Ground Exposure Pathway** - External exposure from radionuclides deposited on the ground.
- **Plume Exposure Pathway** - External exposure directly from a plume or cloud of radioactive material.
- **Vegetation Pathway** - Internal exposure as a result of eating vegetables which have absorbed deposited radioactive material, or which have absorbed radionuclides through the soil.
- **Milk Pathway** - Internal exposure as a result of drinking milk which may contain radioactive material as a result of dairy animals grazing on a pasture contaminated by radionuclides.
- **Meat Pathway** - Internal exposure as a result of consuming meat which may contain radioactive material as a result of animals grazing on a pasture contaminated by radionuclides.

The Land-Use Census is conducted during the growing season and is used to identify, within a radius of 5 miles, the location of the nearest residences, milk animals, meat animals, and gardens (greater than 50 square meters and containing broad leaf vegetation) in each of 16 meteorological sectors surrounding Fermi 2. Gardens greater than 50 square meters are the minimum size required to produce the quantity (26 kg/year) of leafy vegetables assumed in NRC Regulatory Guide 1.109 for consumption by a child. To determine this minimum garden size, the following assumptions were made: (1) 20% of the garden is used for growing broad leaf vegetation (i.e., lettuce and cabbage); and (2) a vegetation yield of 2 kg/square meter.

**2020 Land-Use Census Results**

The Land Use Census (LUC) is conducted in accordance with ODCM control 3.12.2 and satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR Part 50. This census identifies changes in the use of unrestricted areas to permit modifications to monitoring programs for evaluating doses to individuals from principal pathways of exposure. The annual Land-Use Census is conducted during the growing season and is used to identify, within a radius of 5 miles, the location of the closest residences, milk animals, meat animals, and gardens in each of the 11 land-based meteorological sectors surrounding Fermi 2.

The 2020 Land-Use Census was performed during the months of August and September. The 2020 census data were obtained with the use of Global Positioning System (GPS) equipment and new locations confirmed using location data obtained from a commercial online search engine. These data were compared to the 2019 data to determine any significant changes in the use of the land. The results of the census are tabulated in Table 2 of this report.

The changes from previous LUC results appear minimal with respect to potential maximum receptors; therefore, there is no reason to change the ODCM description of the maximum exposed individual. It remains conservative with respect to all potential offsite dose pathways, no matter how unlikely they may be.

The location of the hypothetical, conservative, “maximum exposed individual” remains the same and is described as follows:

Pathway	Sector	Azimuth (degrees)	Distance (miles)	Age Group	Maximum Organ
Ingestion (vegetation)	WNW	302.2	0.71	Child	Thyroid/ Bone*

\* For the 10 CFR 50 Appendix I required calculation of dose due to I-131, I-133, H-3, and particulates with half-lives greater than 8 days, the thyroid is the maximum organ. However, if C-14 is added to this dose calculation, bone becomes the maximum organ.

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**Table 2: 2020 Land-Use Census**

<b>Sector</b>	<b>Address</b>	<b>Type</b>	<b>Sub-Type</b>	<b>Approx. miles</b>	<b>2020 Status</b>	<b>2019 Status</b>	<b>2018 Status</b>
WSW	2180 Fairview	Garden		4.48	Active	New	
WSW	3324 Ferndale	Garden		3.26	Active	New	
WSW	3470 Fernwood Dr	Garden		2.94	New		
WSW	1212 Fix Rd	Undefined	Chickens	5.28	Inactive	New	
WSW	1339 Fix Rd	Garden		5.11	New		
WSW	3049 Mentel Rd	Garden		4.28	Active	Inactive	Active
WSW	3219 Mentel Rd	Garden		4.26	Active	Inactive	Inactive
WSW	3134 N Dixie Hwy	Garden		3.56	Active	Active	Active
WSW	2831 Nadeau Rd	Garden		3.39	Active	New	
WSW	3398 Parkwood	Garden		3.26	Active	Active	Active
WSW	3427 Parkwood	Garden		3.23	Active	New	
WSW	4981 Pte Aux Peaux	Residence		1.39	Inactive	Active	Active
WSW	3253 Seminole	Garden		3.00	Inactive	Active	New
WSW	3091 Tenth St	Garden		1.74	New		
WSW	5384 Williams	Garden		2.64	Active	Active	Active
WSW	5190 Williams Rd	Undefined	Chickens	2.61	Active	New	
WSW	2833 Woodland Blvd	Garden		3.42	Active	Inactive	Inactive
WSW	3032 Woodland Blvd	Garden		3.44	New		
WNW	1950 Buhl Rd	Undefined	Chickens/ Ducks	4.68	New		
WNW	2106 Buhl Rd	Garden		4.58	Active	New	
WNW	6200 Langton	Residence		0.71	Active	Active	Active
WNW	5922 Leroux Rd	Garden		1.54	NEW		
WNW	6425 N Dixie Hwy	Meat	Cattle	1.64	Active	Active	Active
WNW	6175 N Dixie Hwy	Undefined	Chickens	1.70	Active	New	
WNW	6623 Newport South	Undefined	Chickens	3.38	Inactive	Active	Active
WNW	6685 Newport South		Garden/ chickens	3.28	Active	Active	Active
WNW	6800 Newport South	Undefined	Chickens	3.24	Inactive	Active	Active
WNW	7288Newport South	Undefined	Chickens/ Goats /garden	3.44	Active	Active	Active
WNW	7478 Newport South	Undefined	Chickens	3.53	Active	Active	Active
WNW	2785 Post Rd	Milk	Goats	3.56	Inactive	Inactive	Active
WNW	2785 Post Rd	Garden		3.56	Inactive	Active	Active
WNW	2785 Post Rd	Undefined	Ducks	3.56	Inactive	Active	Active
WNW	2785 Post Rd	Undefined	Chickens	3.56	Inactive	Active	Active
WNW	4167 Post Rd	Milk/Meat	Goats	2.38	Inactive	Inactive	Active
WNW	4167 Post Rd	Undefined	Chickens	2.38	Inactive	Inactive	Active
WNW	7855 War Rd	Undefined	Chickens/ ducks	4.86	Active	New	
WNW	7265 War Rd	Garden		4.84	Inactive	New	
W	6170 Leroux	Undefined	Chickens	1.25	Active	Active	Active
W	6170 Leroux	Undefined	Ducks	1.25	Active	Active	Active



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Sector	Address	Type	Sub-Type	Approx. miles	2020 Status	2019 Status	2018 Status
W	6170 Leroux	Undefined	Goats	1.25	Active	Active	New
W	5960 Mentel	Garden		4.14	Active	Active	Active
W	2500 Mentel Rd	Garden		4.49	New		
W	2417 Nadeau Rd	Undefined	Chickens	3.27	Active	Active	New
W	2823 Nadeau Rd	Garden		3.42	New		
W	5810 Stoney Creek	Undefined	Chickens	3.44	Inactive	Active	New
W	6028 Stoney Creek	Garden		3.82	Active	Active	Active
W	5684 Toll Rd	Garden		1.59	Inactive	Inactive	Active
W	5701 Toll Rd	Milk	Goats	1.56	Active	Active	Inactive
W	5701 Toll Rd	Undefined	Chickens	1.56	Active	Active	Active
W	6001 Toll Rd	Residence		1.18	Active	Active	Active
W	6334 Williams	Garden		2.70	Inactive	Active	Active
SW	3073 First St	Garden		4.39	Active	Active	Active
SW	5194 Pte Aux Peaux	Residence		1.25	Active	Active	Active
SW	2861 Second	Garden		4.61	New		
SW	2864 Second St	Garden		4.61	New		
SSW	4340 Fifth	Garden		1.50	Active	Active	Active
SSW	5813 Parkview St	Garden		1.54	Active	Inactive	Inactive
SSW	5820 Pte Aux Peaux	Residence		1.11	Inactive	Active	Active
SSE	4834 Long	Residence		1.04	Active	Active	Active
S	4573 Dixon Dr	Garden		1.27	New		
S	4405 Ives	Garden		1.39	Active	Active	Active
S	3880 Lakeshore	Undefined	Ducks	1.77	Inactive	Active	Active
S	6339 Sterling	Garden		1.23	Inactive	Inactive	Active
NW	3535 Evergreen	Garden		3.82	Active	Active	Active
NW	3608 Evergreen	Garden		3.90	Active	Active	Active
NW	3771 Labo Rd	Undefined	Chickens	4.79	New		
NW	6511 Leroux	Residence		1.06	Active	Active	Active
NW	8911 N Dixie Hwy	Garden		3.03	New		
NW	2374 Newport Rd	Undefined	Chickens	4.93	Inactive	Inactive	Active
NW	3922 Newport Rd	Undefined	Chickens	3.84	New		
NW	4800 South St	Garden		2.20	Active	Active	Active
NW	10025 Swan Creek	Undefined	Chickens	4.94	Active	Inactive	Inactive
NW	7795 Swan Creek	Garden		2.38	Active	Active	Active
NW	8006 Swan Creek	Garden		2.54	Inactive	Inactive	Active
NW	9834 Swan Creek	Undefined	Chickens	4.74	Inactive	Inactive	New
NNW	4783 Anteau	Undefined	Chickens, ducks	2.98	Active	Inactive	Inactive
NNW	4856 Anteau	Undefined	Chickens, ducks	2.93	Active	Active	Active
NNW	4865 Anteau	Undefined	Chickens, cattle	2.91	Active	Active	Active
<b>NNW</b>	10709 Armstrong	Undefined	Chickens	4.92	New		
NNW	4880 Labo	Milk	Cattle	4.31	Active	Active	Active
NNW	5144 Labo	Undefined	Ducks	4.32	Inactive	New	
NNW	7024 Miller	Garden		1.35	Active	Inactive	Inactive
NNW	8210 N Dixie Hwy	Garden		2.54	Active	Active	Active

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Sector	Address	Type	Sub-Type	Approx. miles	2020 Status	2019 Status	2018 Status
NNW	8400 N Dixie Hwy	Garden		2.56	Active	Active	Active
NNW	3981 Newport	Undefined	Chickens	3.82	Active	Active	Active
NNW	5701 Post Rd	Residence		1.03	Active	Active	Active
NNW	5645 Swanview Rd	Undefined	Chickens	1.51	New		
NNE	6460 Brancheau	Residence		1.08	Active	Active	Active
NNE	7093 Lakeview Blvd	Garden		1.85	Active	Active	Active
NNE	7208 Lakeview Blvd	Garden		1.91	Active	Active	Active
NNE	7415 Lakeview Blvd	Undefined	Chickens	1.94	New		
NE	6760 Lakeshore	Residence		1.11	Active	Active	Active
NE	7340 Lakeview Ave.	Garden		1.94	Active	Active	Inactive
N	6288 Brancheau	Residence		1.11	Active	Active	Active
N	8180 Chinavare	Undefined	Chickens/ goats	2.35	Active	Active	Active
N	8577 Chinavere	Garden		2.72	Active	Active	Active
N	9293 Chinavare	Garden		3.44	Active	Active	Active
N	9399 Chinavere	Garden		3.49	Active	Active	Active
N	9521 Chinavare	Undefined	Chickens	3.61	Inactive	Inactive	Active
N	9715 Chinavare	Undefined	Chickens	3.81	Active	Active	New
N	10119 Haggerman	Garden		4.38	Active	Inactive	Inactive
N	10404 Haggerman	Garden		4.61	Active	Active	Active
N	10462 Haggerman	Garden		4.68	Active	Active	Active
N	10095 Haggerman	Meat	Cattle/ garden	4.30	Active	New	
N	5907 Labo	Garden		4.14	Inactive	Inactive	Active
N	6725 Labo	Garden		4.41	Active	Inactive	Inactive
N	5889 Lily Patch	Undefined	Chickens	1.43	Inactive	Active	Active
N	6024 Lily Patch	Undefined	Chickens	1.23	Inactive	Active	Active
N	6075 Lily Patch	Undefined	Chickens	1.17	Inactive	Active	Active
N	6075 Masserant	Garden		2.13	Active	Active	Active
N	6596 Masserant	Undefined	Chickens	2.16	Active	New	
N	10229 N Dixie Hwy	Meat	Cattle	4.34	Inactive	Inactive	New
N	10674 N Dixie Hwy	Undefined	Chickens	4.79	Active	Active	Active
N	8463 N Dixie Hwy	Undefined	Chickens	2.59	Active	Active	Active
N	8106 Strong Rd	Garden		2.24	Active	Active	Active
N	6069 Trombley	Undefined	Goats/ chickens	1.67	Active	Active	Active
N	6344 Trombley	Garden		1.84	Active	Inactive	Active
N	10370 Turner Lane	Garden		4.52	Active	Active	Active
N	8570 U S Turnpike	Garden		2.74	Active	Active	Active
N	8593 U S Turnpike	Garden		2.70	Active	Active	Active
N	8889 U S Turnpike	Meat	Cattle	3.03	Active	Active	Active

**Errata from 2019 Report -- None**

**END OF ANNUAL ENVIRONMENTAL OPERATING REPORT BODY**

# Appendix A

## Sampling Locations

**Table A-1: Direct Radiation Sample Locations**

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
T1	NE/38°	1.3 mi.	Estral Beach, Pole on Lakeshore 23 Poles S of Lakeview. (Special Area)	Q	I
T2	NNE/22°	1.2 mi.	Pole at termination of Brancheau St. (Special Area)	Q	I
T3	N/9°	1.1 mi.	Pole, NW corner of Swan Boat Club fence. (Special Area)	Q	I
T4	NNW/337°	0.6 mi.	Site boundary and Toll Rd. on Site fence by API #2.	Q	I
T5	NW/313°	0.6 mi.	Site boundary and Toll Rd. on Site fence by API #3.	Q	I
T6	WNW/294°	0.6 mi.	Site boundary fence at south end of N. Bullit Rd.	Q	I
T7	W/270°	14.0 mi.	Pole, at Michigan Gas substation on N. Custer Rd., 0.66 miles west of Doty Rd.	Q	C
T8	NW/305°	1.9 mi.	Pole on Post Rd. near NE corner of Dixie Hwy. and Post Rd.	Q	I
T9	NNW/334°	1.5 mi.	Pole, NW corner of Trombley and Swan View Rd.	Q	I
T10	N/6°	2.1 mi.	Pole, S side of Massarant - 2 poles W of Chinavare.	Q	I
T11	NNE/23°	6.2 mi.	Pole, NE corner of Milliman and Jefferson.	Q	I

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

*Table A-1: Direct Radiation Sample Locations (continued)*

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
T12	NNE/29°	6.3 mi.	Pointe Mouille Game Area Field Office, Pole near tree, N area of parking lot.	Q	I
T13	N/356°	4.1 mi.	Labo and Dixie Hwy. Pole on SW corner with light.	Q	I
T14	NNW/337°	4.4 mi.	Labo and Brandon, Pole on SE corner near RR.	Q	I
T15	NW/315°	3.9 mi.	Pole, behind building at the corner of Swan Creek and Mill St.	Q	I
T16	WNW/283°	4.9 mi.	Pole, SE corner of War and Post Rd. (2 <sup>nd</sup> pole past War Rd.)	Q	I
T17	W/271°	4.9 mi.	Pole, NE corner of Nadeau and LaPrad near mobile home park.	Q	I
T18	WSW/247°	4.8 mi.	Pole, NE corner of Mentel and Hurd Rd.	Q	I
T19	SW/236°	5.2 mi.	Fermi siren pole on Waterworks Rd. NE corner of intersection - Sterling State Park Rd. Entrance Drive/Waterworks	Q	I
T20	WSW/257°	2.7 mi.	Pole, S side of Williams Rd, 9 poles W of Dixie Hwy. (Special Area)	Q	I
T21	WSW/239°	2.7 mi.	Pole, N side of Pearl at Parkview (last pole at end of road N side) Woodland Beach (Special Area)	Q	I
T22	S/172°	1.2 mi.	Pole, N side of Pointe Aux Peaux 2 poles W of Long - Site Boundary.	Q	I

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

*Table A-1: Direct Radiation Sample Locations (continued)*

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
T23	SSW/195°	1.1 mi.	Pole, S side of Pointe Aux Peaux 1 pole E of St. Clair next to Vent Pipe - Site Boundary.	Q	I
T24	SW/225°	1.2 mi.	Fermi Gate along Pointe Aux Peaux Rd. on fence wire W of gate - Site Boundary.	Q	I
T25	WSW/252°	1.5 mi.	Pole, Toll Rd. - 11 poles S of Fermi Drive.	Q	I
T26	WSW/259°	1.1 mi.	Pole, Toll Rd. - 5 poles S of Fermi Drive.	Q	I
T27	SW/225°	6.8 mi.	Pole, NE corner of McMillan and East Front St. (Special Area)	Q	I
T28	SW/229°	10.7 mi.	Pole, Mortar Creek—1 <sup>st</sup> pole south of Hull Rd. E side	Q	C
T29	WSW/237°	10.3 mi.	Pole, NE corner of S Dixie and Albain.	Q	C
T30	WSW/247°	7.8 mi.	Elm St. pole on north side near parking lot next to St. Mary's church (Special Area)	Q	I
T31	WSW/255°	9.6 mi.	1st pole W of entrance drive Milton "Pat" Munson Recreational Reserve on North Custer Rd.	Q	C
T32	WNW/295°	10.3 mi.	Pole, corner of Stony Creek and Finzel Rd.	Q	C
T33	NW/317°	9.2 mi.	Pole, W side of Grafton Rd. 1 pole N of Ash and Grafton intersection.	Q	C

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

*Table A-1: Direct Radiation Sample Locations (continued)*

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
T34	NNW/338°	9.8 mi.	Pole, SW corner of Port Creek and Will-Carleton Rd. (1 <sup>st</sup> pole on Port Creek)	Q	C
T35	N/359°	6.9 mi.	Pole, S Side of S Huron River Dr. across from Race St. (Special Area)	Q	I
T36	N/358°	9.1 mi.	Pole, NE corner of Gibraltar and Cahill Rd.	Q	C
T37	NNE/21°	9.8 mi.	Pole, on Gibraltar Rd. next to Humberg Marina.	Q	C
T38	WNW/294°	1.7 mi.	Residence - 6594 N. Dixie Hwy.	Q	I
T39	S/176°	0.3 mi.	SE corner of Protected Area Fence (PAF).	Q	O
T40	S/170°	0.3 mi.	Midway along OBA - PAF.	Q	O
T41	SSE/161°	0.2 mi.	Midway between OBA and Shield Wall—PAF (north end of OBA)	Q	O
T42	SSE/149°	0.2 mi.	Midway along Shield Wall on PAF.	Q	O
T43	SE/131°	0.1 mi.	Midway between Shield Wall and Aux Boilers on PAF.	Q	O
T44	ESE/109°	0.1 mi.	Opposite OSSF door on PAF.	Q	O
T45	E/86°	0.1 mi.	NE Corner of PAF.	Q	O
T46	ENE/67°	0.2 mi.	NE side of barge slip on fence.	Q	O

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*



*Table A-1: Direct Radiation Sample Locations (continued)*

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
T47	S/185°	0.1 mi.	South of Turbine Bldg. rollup door on PAF (fence adjacent to SE corner AIB)	Q	O
T48	SW/235°	0.2 mi.	30 ft. from corner of AAP on PAF.	Q	O
T49	WSW/251°	1.1 mi.	Corner of Site Boundary fence north of NOC along Critical Path Rd. (at turn)	Q	I
T50	W/270°	0.9 mi.	Site Boundary fence near main gate by the south Bullet Street sign.	Q	I
T51	N/3°	0.4 mi.	Site Boundary fence north of north Cooling Tower.	Q	O
T52	NNE/20°	0.4 mi.	Site Boundary fence at the corner of Arson and Tower.	Q	O
T53	NE/55°	0.2 mi.	Site Boundary fence east of South Cooling Tower.	Q	O
T54	S/189°	0.3 mi.	Pole across from Fermi 2 Visitors Center.	Q	O
T55	WSW/251°	3.3 mi.	Pole, north side of Nadeau Rd. across from Sodt Elementary School Marquee (entrance to fire station)	Q	I
T56	WSW/255°	4.9 mi.	Pole, entrance to Jefferson Middle School on Stony Creek Rd. (NE side of road)	Q	I
T57	W/260°	2.7 mi.	Pole, north side of Williams Rd. across from Jefferson High School entrance (by long residential driveway)	Q	I

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

*Table A-1: Direct Radiation Sample Locations (continued)*

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
T58	WSW/249°	4.9 mi.	Pole, on Hurd Rd., halfway between Mentel Rd. and Yax Rd.	Q	I
T59	NW/325°	2.6 mi.	Pole north of St. Charles Church entrance on Dixie Hwy.	Q	I
T60	NNW/341°	2.5 mi.	1 <sup>st</sup> pole north of North Elementary School entrance on Dixie Hwy.	Q	I
T61	W/268°	10.1 mi.	Pole, SW corner of Stewart and Raisinville Rd.	Q	C
T62	SW/232°	9.7 mi.	Pole, SE corner of Albain and Hull Rd.	Q	C
T63	WSW/245°	9.6 mi.	Pole, NE corner of Dunbar and Telegraph Rd.	Q	C
T64	WNW/286°	0.2 mi.	West of switchgear yard midway along PAF.	Q	O
T65	NW/322°	0.1 mi.	PAF North East corner of ISFSI pad	Q	O
T66	NE/50°	0.1 mi.	Behind Bldg. 42 on PAF.	Q	O
T67	NNW/338°	0.2 mi.	Site Boundary fence West of South Cooling Tower.	Q	O
T68	WNW/303°	0.6 mi	Langton Rd. seven poles East of Leroux Rd.	Q	I
T69	NW/306°	0.8 mi	Langton Rd. four poles East of Leroux Rd.	Q	I
T70	NNW/333°	1.1 mi	Leroux Rd. and Post Rd. pole at W corner of turn.	Q	I
T71	WNW/300°	1.1 mi	Leroux Rd. six poles North of Fermi Dr.	Q	I

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

*Table A-1: Direct Radiation Sample Locations (continued)*

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
ISFSI-1	WNW/302.3°	0.175 mi.	Center of west ISFSI fence.	Q	O
ISFSI-2	NW/310.2°	0.186 mi.	NW corner ISFSI fence.	Q	O
ISFSI-3	NW/313.2°	0.166 mi.	Center of north ISFSI fence.	Q	O
ISFSI-4	NW/315.6°	0.149 mi.	NE corner ISFSI fence.	Q	O
ISFSI-5	NW/305.4°	0.140 mi	Center of east ISFSI fence.	Q	O
ISFSI-6	WNW/294.1°	0.136 mi	SE corner ISFSI fence.	Q	O
ISFSI-7	WNW/293.0°	0.157 mi	Center of south ISFSI fence.	Q	O
ISFSI-8	WNW/293°	0.177 mi	SW corner ISFSI fence.	Q	O

*I = Indicator*

*C = Control*

*O = On-site*

*Q = Quarterly*

Table A-2: *Air Particulate and Air Iodine Sample Locations:*

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
API-1	NE/39°	1.4 mi.	Estral Beach Pole on Lakeshore, 18 Poles S of Lakeview (Nearest Community with highest X/Q).	W	I
API-2	NNW/337°	0.6 mi.	Site Boundary and Toll Road, on Site Fence by T-4.	W	I
API-3	NW/313°	0.6 mi.	Site Boundary and Toll Road, on Site Fence by T-5.	W	I
API-4	W/270°	14.0 mi.	Pole, at Michigan Gas substation on N. Custer Rd., 0.66 miles west of Doty Rd.	W	C
API-5	S/188°	1.2 mi.	Pole, N corner of Pointe Aux Peaux and Dewey Rd.	W	I
API-6	WNW/295°	0.6 mi.	Pole, Site Boundary and Toll Rd., by T-6	W	I

*I = Indicator*

*C = Control*

*W = Weekly*

Table A-3: *Milk Sample Locations*

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
M-8	WNW/289°	9.9 mi.	Calder Dairy - 9334 Finzel Rd.	M-SM	C

\*

*I = Indicator*

*C = Control*

*M = Monthly*

*SM = Semimonthly*

Note: An indicator milk location was discontinued in 2016 due to shutdown of the milking operation. A replacement indicator location has not yet been found.

**A-4: Vegetation Sample Locations**

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
FP-9	W/261°	10.9 mi.	4074 North Custer Road (across the street)	M	C
FP-HD1	NE/39°	1.4 mi.	Near highest D/Q offsite location in Sector C (near API-2)	M	I
FP-HD2	NW/315°	0.6 mi.	Near highest D/Q offsite location in Sector Q (near API-3)	M	I
FP-HD3	WNW/292°	0.6 mi.	Near highest D/Q offsite location in Sector P (near API-6)	M	I

*I = Indicator*

*C = Control*

*M = Monthly (when available)*

**Table A-5: Drinking-Water Sample Locations**

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
DW-1	S/174°	1.1 mi.	Monroe Water Station N Side of Pointe Aux Peaux 1/2 Block W of Long Rd.	M	I
DW-2	N/8°	18.5 mi.	Great Lakes Water Authority, 14700 Moran Rd, Allen Park.	M	C

*I = Indicator*

*C = Control*

*M = Monthly*

**Table A-6: Surface-Water Sample Locations**

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
SW-2	NNE/20°	11.7 mi.	DTE Energy Trenton Channel Power Plant Intake Structure (Screenhouse #1).	M	C
SW-3	SSE/160°	0.2 mi.	DTE Energy Fermi 2 General Service Water Intake Structure.	M	I

*I = Indicator*

*C = Control*

*M = Monthly*

**Table A-7: Ground-Water Sample Locations**

Station Number	Meteorological Sector/Azimuth (Degrees)	Distance from Reactor (Approx.)	Description	Collection Frequency	Type
GW-1	S/175°	0.4 mi.	Approx. 100 ft W of Lake Erie, EF-1 Parking lot near gas fired peakers.	Q	I
GW-2	SSW/208°	1.0 mi.	4 ft S of Pointe Aux Peaux (PAP) Rd. Fence 427 ft W of where PAP crosses over Stony Point's Western Dike.	Q	I
GW-3	SW/226°	1.0 mi.	143 ft W of PAP Rd. Gate, 62 ft N of PAP Rd. Fence.	Q	I
GW-4	WNW/299°	0.6 mi.	42 ft S of Langton Rd, 8 ft E of Toll Rd. Fence.	Q	C

*I = Indicator*

*C = Control*

*Q = Quarterly*

**Table A-8: Sediment Sample Locations**

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
S-1	SSE/165°	0.9 mi.	Pointe Aux Peaux, Shoreline to 500 ft offshore sighting directly to Land Base Water Tower.	SA	I
S-2	E/81°	0.2 mi.	Fermi 2 Discharge, approx. 200 ft offshore.	SA	I
S-3	NE/39°	1.1 mi.	Estral Beach, approx. 200 ft offshore, off North shoreline where Swan Creek and Lake Erie meet.	SA	I
S-4	WSW/241°	3.0 mi.	Indian Trails Community Beach.	SA	I
S-5	NNE/20°	11.7 mi.	DTE Trenton Channel Power Plant intake area.	SA	C

*I = Indicator*

*C = Control*

*SA = Semiannually*

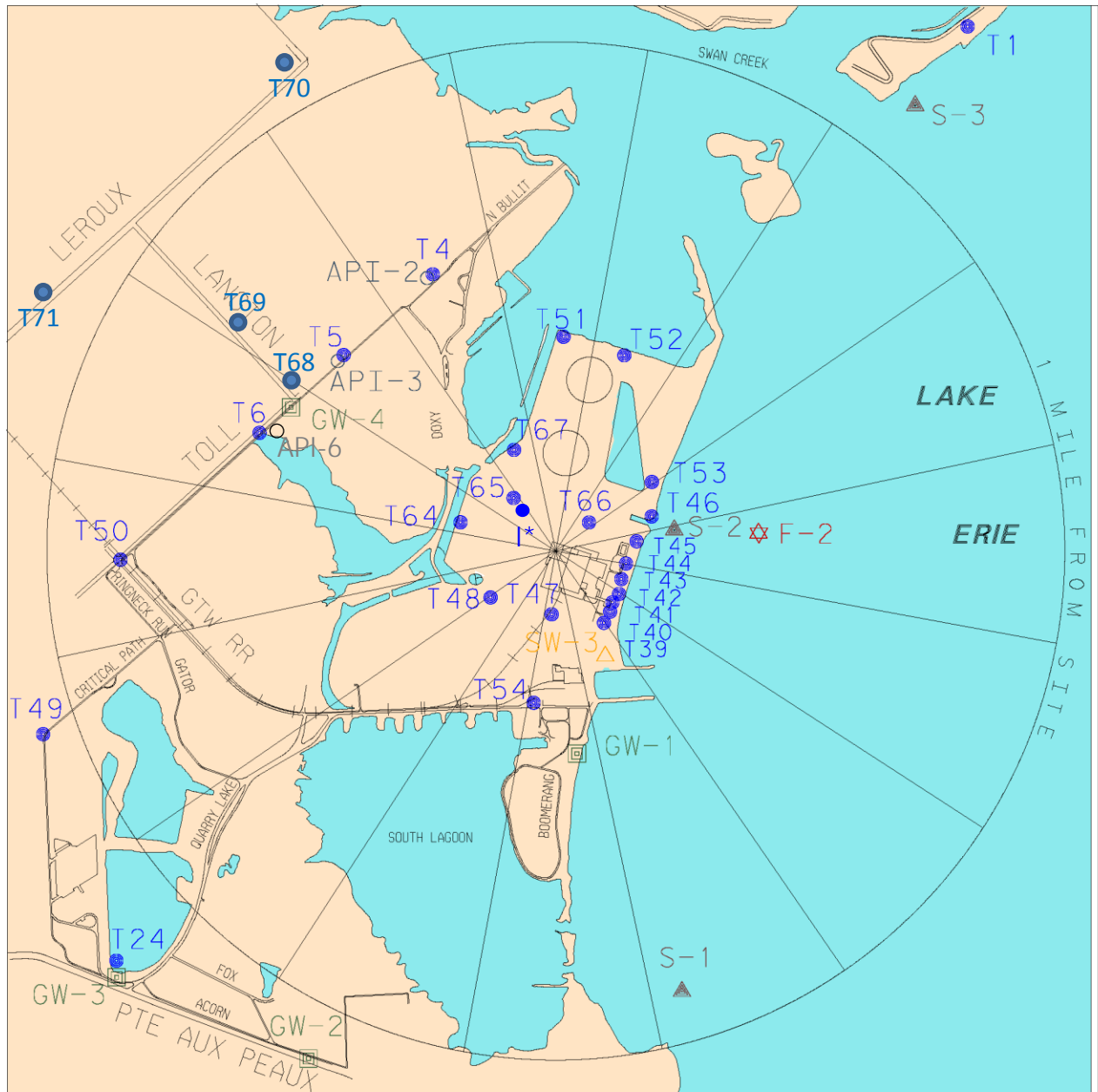
**Table A-9: Fish Sample Locations**

<b>Station Number</b>	<b>Meteorological Sector/Azimuth (Degrees)</b>	<b>Distance from Reactor (Approx.)</b>	<b>Description</b>	<b>Collection Frequency</b>	<b>Type</b>
F-1	NNE/31°	9.5 mi.	Near Celeron Island.	SA	C
F-2	E/86°	0.4 mi.	Fermi 2 Discharge (approx. 1200 ft offshore).	SA	I
F-3	SW/227°	3.5 mi.	Brest Bay.	SA	C

*I = Indicator*

*C = Control*

*SA = Semiannually*



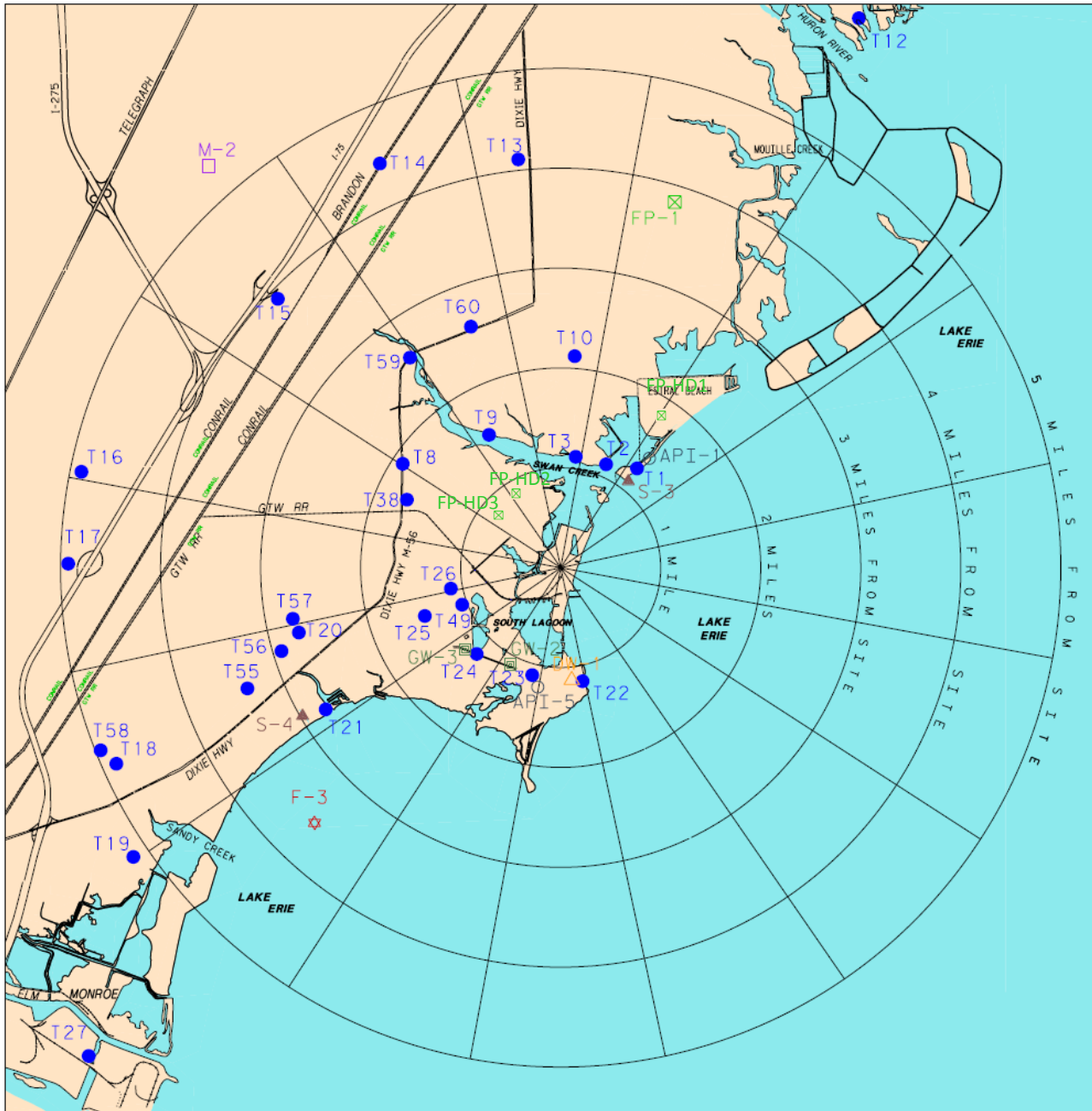
MAP - 1  
 SAMPLING LOCATIONS  
 BY STATION NUMBER  
 WITHIN 1 MILE

LEGEND

- T- DIRECT RADIATION / I\* - ISFSI #'s 1-8
- API- AIR PARTICULATES/AIR IODINE
- ▲ S- SEDIMENTS
- △ DW/SW- DRINKING WATER/SURFACE WATER
- GW- GROUND WATER
- M- MILK
- ⊠ FP- FOOD PRODUCTS
- ☆ F- FISH





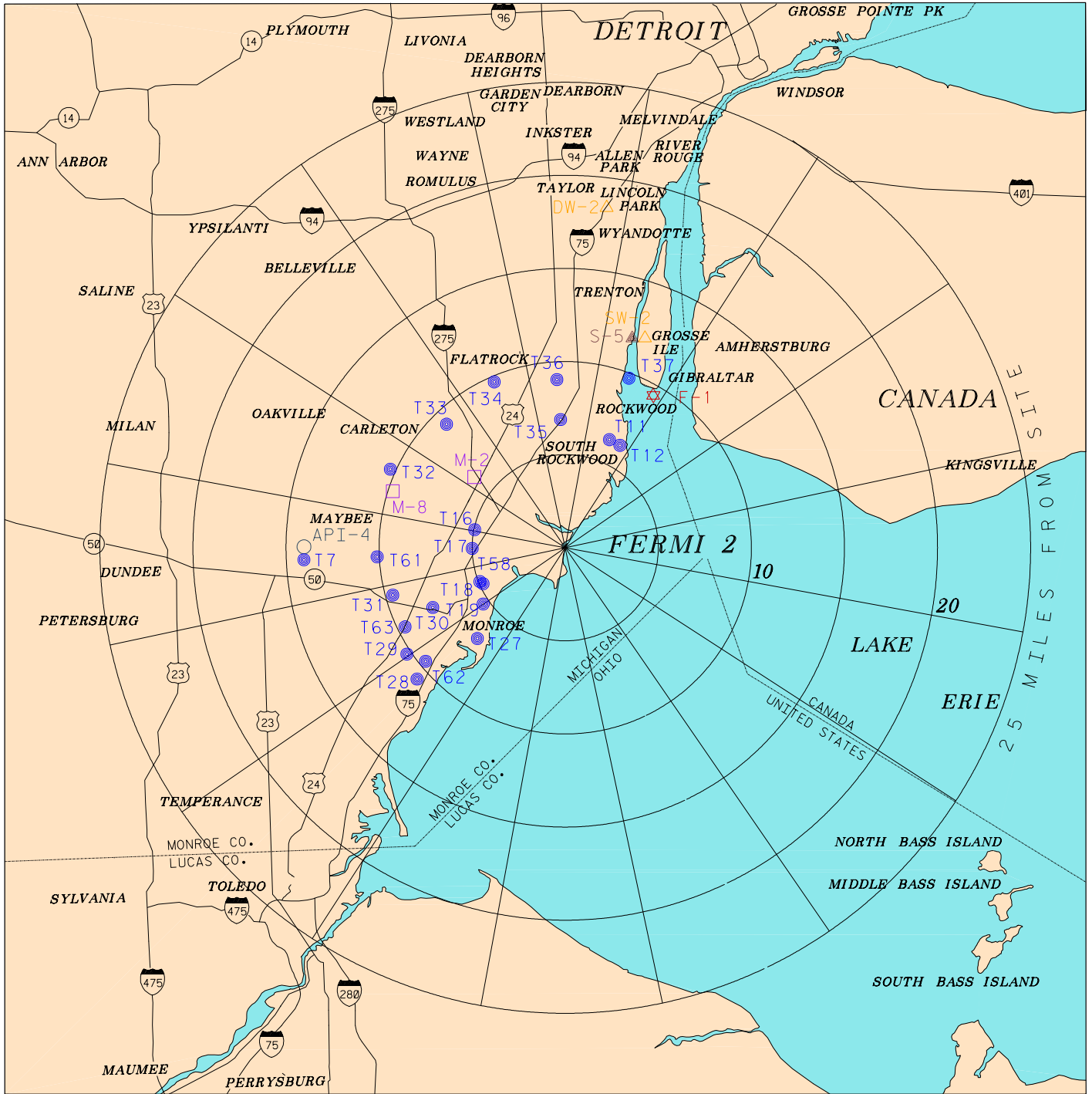


MAP - 2  
 SAMPLING LOCATIONS  
 BY STATION NUMBER  
 (1 TO 5 MILES)

LEGEND

- T- DIRECT RADIATION
- API- AIR PARTICULATES/AIR IODINE
- ▲ S- SEDIMENTS
- △ DW/SW- DRINKING WATER/SURFACE WATER
- ◻ GW- GROUND WATER
- ◻ M- MILK
- ⊠ FP- FOOD PRODUCTS
- ☆ F- FISH





MAP - 3  
 SAMPLING LOCATIONS  
 BY STATION NUMBER  
 (GREATER THAN 5 MILES)

LEGEND

- T- DIRECT RADIATION
- API- AIR PARTICULATES OR AIR IODINE
- ▲ S- SEDIMENTS
- ▲ DW/SW- DRINKING WATER/SURFACE WATER
- GW- GROUND WATER
- M- MILK
- FP- FOOD PRODUCTS
- F- FISH



# Appendix B

## Environmental Data Summary

**Table B-1** Radiological Environmental Monitoring Program Summary

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Location of Facility: 30 miles southeast of Detroit, Michigan (Frenchtown Township)

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)
				Location (e)	Mean and Range (d)		
Direct Radiation <i>mR/std qtr (a)</i>	Gamma (TLD) 211	1.0	13.5 (164/164) 9.1 to 17.9	T-49 (Indicator)	16.7 (4/4) 16.1 to 17.1	12.9 (47/48) 10.3 to 16.2	None
Airborne Particulates <i>ρCi/cu. m.</i>	Gross Beta 312	1.00E-2	3.52E-2 (260/260) 1.77E-2 to 1.40E-1	API-5 (Indicator)	4.99E-2 (52/52) 1.98E-2 to 1.40E-1	3.75E-2 (52/52) 2.50E-2 to 7.49E-2	None
	Gamma Spec. 24 Be-7	N/A	7.38E-2 (20/20) 4.35E-2 to 1.93E-1	API-5 (Indicator)	1.24E-1 (4/4) 5.68E-2 to 1.93E-1	8.36E-2 (4/4) 5.81E-2 to 1.18E-1	None
	K-40	N/A	1.10E-2 (9/20) 7.70E-3 to 1.79E-2	API-2 (Indicator)	1.51E-2 (2/4) 1.23E-2 to 1.79E-2	1.20E-2 (4/4) 9.90E-3 to 1.68E-2	None
	Mn-54	N/A	≤MDC			<MDC	None
	Co-58	N/A	≤MDC			<MDC	None
	Fe-59	N/A	≤MDC			<MDC	None
	Co-60	N/A	≤MDC			<MDC	None
	Zn-65	N/A	≤MDC			<MDC	None
	Zr-95	N/A	≤MDC			<MDC	None
	Nb-95	N/A	≤MDC			<MDC	None
	Ru-103	N/A	≤MDC			<MDC	None
	Ru-106	N/A	≤MDC			<MDC	None
	Cs-134	5.00E-2	≤MDC			<MDC	None
	Cs-137	6.00E-2	≤MDC			<MDC	None
	Ba-140	N/A	≤MDC			<MDC	None
	La-140	N/A	≤MDC			<MDC	None
	Ce-141	N/A	≤MDC			<MDC	None
	Ce-144	N/A	≤MDC			<MDC	None
Airborne Iodine <i>ρCi/cu. m.</i>	I-131 312	7.00E-2	≤MDC			<MDC	None

**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)	
				Location (e)	Mean and Range (d)			
Milk <i>ρCi/l</i>	I-131 36	1.00E+0	No indicator Location in 2020			≤MDC	None	
	Sr-89 36	N/A		M-8 (Control)	3.64E+0 (1/36)	3.64E+0 (1/36)	None	
	Sr-90 36	N/A		M-8 (Control)	1.68E+0 (1/36)	1.68E+0 (1/36)	None	
	Gamma Spec. 36							
	Be-7	N/A				≤MDC	None	
	K-40	N/A			M-8 (Control)	1.44E+3 (36/36) 1.35E+3 to 1.57E+3	1.44E+3 (36/36) 1.35E+3 to 1.57E+3	None
	Mn-54	N/A				≤MDC	None	
	Co-58	N/A				≤MDC	None	
	Fe-59	N/A				≤MDC	None	
	Co-60	N/A				≤MDC	None	
	Zn-65	N/A				≤MDC	None	
	Zr-95	N/A				≤MDC	None	
	Nb-95	N/A				≤MDC	None	
	Ru-103	N/A				≤MDC	None	
	Ru-106	N/A				≤MDC	None	
	Cs-134	1.50E+1				≤MDC	None	
	Cs-137	1.80E+1				≤MDC	None	
	Ba-140	1.50E+1				≤MDC	None	
	La-140	1.50E+1				≤MDC	None	
	Ce-141	N/A				≤MDC	None	
Ce-144	N/A			≤MDC	None			
Vegetation <i>ρCi/kg wet</i>	I-131 6	6.00E+1	≤MDC			≤MDC	None	
	Gamma Spec. 6							
	Be-7	N/A	2.72E+3 (4/4) 6.22E+2 to 3.93E+3	FP-HD1 (Indicator)	3.92E+3 (2/2) 3.91E+3 to 3.93E+3	2.28E+3 (2/2) 1.74E+3 to 2.82E+3	None	
	K-40	N/A	4.15E+3 (4/4) 2.61E+3 to 7.03E+3	FP-HD1 (Indicator)	5.15E+3 (2/2) 3.28E+3 to 7.03E+3	4.66E+3 (2/2) 4.20E+3 to 5.12E+3	None	
	Th-228	N/A	≤MDC			≤MDC	None	

**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)
				Location (e)	Mean and Range(d)		
Vegetation (cont.) <i>ρCi/kg wet</i>	Mn-54	N/A	≤MDC			≤MDC	None
	Co-58	N/A	≤MDC			≤MDC	None
	Fe-59	N/A	≤MDC			≤MDC	None
	Co-60	N/A	≤MDC			≤MDC	None
	Zn-65	N/A	≤MDC			≤MDC	None
	Zr-95	N/A	≤MDC			≤MDC	None
	Nb-95	N/A	≤MDC			≤MDC	None
	Ru-103	N/A	≤MDC			≤MDC	None
	Ru-106	N/A	≤MDC			≤MDC	None
	Cs-134	6.00E+1	≤MDC			≤MDC	None
	Cs-137	8.00E+1	≤MDC			≤MDC	None
	Ba-140	N/A	≤MDC			≤MDC	None
	La-140	N/A	≤MDC			≤MDC	None
	Ce-141	N/A	≤MDC			≤MDC	None
	Ce-144	N/A	≤MDC			≤MDC	None
	Ac-228	N/A	≤MDC			≤MDC	None
	Th-228	N/A	≤MDC			≤MDC	None
Drinking Water <i>ρCi/l</i>	Gross Beta 36	4.00E+0	≤MDC			≤MDC	None
	Sr-89 36	N/A	≤MDC			≤MDC	None
	Sr-90 36	N/A	≤MDC			≤MDC	None
	Gamma Spec. 36						
	Be-7	N/A	≤MDC			≤MDC	None
	K-40	N/A	4.76E+1 (1/24)	DW-1 (Indicator)	4.76E+1 (1/24)	3.18E+1 (1/12)	None
	Cr-51	N/A	≤MDC			≤MDC	None
	Mn-54	1.50E+1	≤MDC			≤MDC	None
	Co-58	1.50E+1	≤MDC			≤MDC	None
	Fe-59	3.00E+1	≤MDC			≤MDC	None
	Co-60	1.50E+1	≤MDC			≤MDC	None
	Zn-65	3.00E+1	≤MDC			≤MDC	None

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**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)	
				Location (e)	Mean and Range (d)			
Drinking Water <i>ρCi/l</i>	Zr-95	1.50E+1	≤MDC			≤MDC	None	
	Nb-95	1.50E+1	≤MDC			≤MDC	None	
	Ru-103	N/A	≤MDC			≤MDC	None	
	Ru-106	N/A	≤MDC			≤MDC	None	
	Cs-134	1.50E+1	≤MDC			≤MDC	None	
	Cs-137	1.80E+1	≤MDC			≤MDC	None	
	Ba-140	1.50E+1	≤MDC			≤MDC	None	
	La-140	1.50E+1	≤MDC			≤MDC	None	
	Ce-141	N/A	≤MDC			≤MDC	None	
	Ce-144	N/A	≤MDC			≤MDC	None	
	Th-228	N/A	4.86 (1/24)		DW-1 (Indicator)	4.86 (1/24)	≤MDC	None
H-3	12	2.00E+3	≤MDC			≤MDC	None	
Surface Water <i>ρCi/l</i>	Sr-89	36	N/A	≤MDC		≤MDC	None	
	Sr-90	36	N/A	≤MDC		≤MDC	None	
	Gamma Spec.	36						
	Be-7		N/A	≤MDC		≤MDC	None	
	K-40		N/A	3.10E+1 (3/24) 2.56E+1 to 3.65E+1	SW-3 (Indicator)	3.10E+1 (3/24) 2.56E+1 to 3.65E+1	≤MDC	None
	Cr-51		N/A	≤MDC		≤MDC	None	
	Mn-54		1.50E+1	≤MDC		≤MDC	None	
	Co-58		1.50E+1	≤MDC		≤MDC	None	
	Fe-59		3.00E+1	≤MDC		≤MDC	None	
	Co-60		1.50E+1	≤MDC		≤MDC	None	
	Zn-65		3.00E+1	≤MDC		≤MDC	None	
	Zr-95		1.50E+1	≤MDC		≤MDC	None	
	Nb-95		1.50E+1	≤MDC		≤MDC	None	
	Ru-103		N/A	≤MDC		≤MDC	None	
	Ru-106		N/A	≤MDC		≤MDC	None	
	Cs-134		1.50E+1	≤MDC		≤MDC	None	
	Cs-137		1.80E+1	≤MDC		≤MDC	None	
	Ba-140		1.50E+1	≤MDC		≤MDC	None	
	La-140		1.50E+1	≤MDC		≤MDC	None	
Ce-141		N/A	≤MDC		≤MDC	None		

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**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)
				Location (e)	Mean and Range (d)		
Surface Water (cont.) $\rho Ci/l$	Ce-144 Th-228 H-3           12	N/A N/A 2.00E+3	$\leq$ MDC $\leq$ MDC $\leq$ MDC			$\leq$ MDC $\leq$ MDC $\leq$ MDC	None None None
Groundwater $\rho Ci/l$	Gamma Spec. 20 Be-7 K-40 Cr-51 Mn-54 Co-58 Fe-59 Co-60 Zn-65 Zr-95 Nb-95 Ru-103 Ru-106 Cs-134 Cs-137 Ba-140 La-140 Ce-141 Ce-144 Ac-228 Th-228	N/A N/A N/A 1.50E+1 1.50E+1 3.00E+1 1.50E+1 3.00E+1 1.50E+1 1.50E+1 N/A N/A 1.50E+1 1.80E+1 1.50E+1 1.50E+1 N/A N/A N/A N/A	$\leq$ MDC 6.48E+0 (3/12) 3.53E+0 to 1.04E+1	GW-1 (Indicator)	1.04E+1 (1/4)	$\leq$ MDC 6.23E+0 (2/8) 3.57E+0 to 8.89E+0	None None
	H-3           16	2.00E+3	$\leq$ MDC			$\leq$ MDC	None
Sediment $\rho Ci/kg$ dry	Sr-89       10 Sr-90 Gamma Spec. 10 Be-7 K-40	N/A N/A N/A N/A	$\leq$ MDC $\leq$ MDC $\leq$ MDC 1.28E+4 (8/8) 8.32E+3 to 1.89E+4	S-2 (Indicator)	1.84E+4 (2/2) 1.78E+4 to 1.89E+4	$\leq$ MDC $\leq$ MDC $\leq$ MDC 1.63E+4 (2/2) 1.50E+4 to 1.75E+4	None None None None



**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)
				Location (e)	Mean and Range (d)		
Sediment (cont.) <i>ρCi/kg dry</i>	Thallium-208	N/A	1.40E+2 (8/8) 3.08E+1 to 2.46E+2	S-2 (Indicator)	2.39E+2 (2/2) 2.32E+2 to 2.46E+2	2.11E+2 (2/2) 1.39E+2 to 2.82E+2	None
	Lead-212	N/A	4.99E+2 (7/8) 2.26E+2 to 9.59E+2	S-2 (Indicator)	8.88E+2 (2/2) 8.16E+2 to 9.59E+2	6.46E+2 (2/2) 6.15E+2 to 6.76E+2	None
	Bismuth-214	N/A	4.87E+2 (7/8) 1.65E+2 to 8.83E+2	S-2 (Indicator)	7.91E+2 (2/2) 6.98E+2 to 8.83E+2	4.92E+2 (1/2)	None
	Lead-214	N/A	6.48E+2 (6/8) 2.45E+2 to 1.12E+3	S-2 (Indicator)	1.00E+3 (2/2) 8.87E+2 to 1.12E+3	6.23E+2 (1/2) 6.16E+2 to 6.30E+2	None
	Radium-226	N/A	4.87E+2 (7/8) 1.65E+2 to 8.83E+2	S-2 (Indicator)	7.91E+2 (2/2) 6.98E+2 to 8.83E+2	4.92E+2 (1/2)	None
	Actinium-228	N/A	7.76E+2 (4/8) 6.51E+2 to 9.62E+2	S-2 (Indicator)	8.98E+2 (2/2) 8.34E+2 to 9.62E+2	5.87E+2 (1/2)	None
	Thorium-228	N/A	4.99E+2 (7/8) 2.26E+2 to 9.59E+2	S-2 (Indicator)	8.88E+2 (2/2) 8.16E+2 to 9.59E+2	6.46E+2 (2/2) 6.15E+2 to 6.76E+2	None
	Thorium-230	N/A	4.87E+2 (7/8) 1.65E+2 to 8.83E+2	S-2 (Indicator)	7.91E+2 (2/2) 6.98E+2 to 8.83E+2	4.92E+2 (1/2)	None
	Mn-54	N/A	≤MDC			≤MDC	None
	Co-58	N/A	≤MDC			≤MDC	None
	Fe-59	N/A	≤MDC			≤MDC	None
	Co-60	N/A	≤MDC			≤MDC	None
	Zn-65	N/A	≤MDC			≤MDC	None
	Zr-95	N/A	≤MDC			≤MDC	None
	Nb-95	N/A	≤MDC			≤MDC	None
	Ru-103	N/A	≤MDC			≤MDC	None
	Ru-106	N/A	≤MDC			≤MDC	None
	Cs-134	1.50E+2	≤MDC			≤MDC	None
	Cs-137	1.80E+2	9.16E+1 (2/8) 7.31E1 to 1.10E2	S-5 (Control)	1.96E+2 (1/2)	1.96E2 (1/2)	None
	Ba-140	N/A	≤MDC			≤MDC	None
La-140	N/A	≤MDC			≤MDC	None	
Ce-141	N/A	≤MDC			≤MDC	None	
Ce-144	N/A	≤MDC			≤MDC	None	

**Table B-1** Radiological Environmental Monitoring Program Summary (cont.)

Name of Facility: Enrico Fermi Unit 2

Docket No.: 50-341

Reporting Period: January – December 2020

Sample Type (Units)	Type and Number of Analysis	LLD (b)	Indicator Locations Mean and Range (d)	Location with Highest Annual Mean		Control Locations Mean and Range (d)	Number of Non-routine Results (f)	
				Location (e)	Mean and Range (d)			
Fish <i>pCi/kg wet</i>	Sr-89 23	N/A	≤MDC	F-2 (Indicator)	3.34E+3 (7/7) 2.01E+3 to 5.77E+3	≤MDC	None	
	Sr-90 23	N/A	≤MDC			≤MDC	None	
	Gamma Spec. 23							
	Be-7	N/A	≤MDC				≤MDC	None
	K-40	N/A	3.34E+3 (7/7) 2.01E+3 to 5.77E+3				3.02E+3 (16/16) 1.70E+3 to 4.20E+3	None
	Mn-54	1.30E+2	≤MDC				≤MDC	None
	Co-58	1.30E+2	≤MDC				≤MDC	None
	Fe-59	2.60E+2	≤MDC				≤MDC	None
	Co-60	1.30E+2	≤MDC				≤MDC	None
	Zn-65	2.60E+2	≤MDC				≤MDC	None
	Zr-95	N/A	≤MDC				≤MDC	None
	Nb-95	N/A	≤MDC				≤MDC	None
	Ru-103	N/A	≤MDC				≤MDC	None
	Ru-106	N/A	≤MDC				≤MDC	None
	Cs-134	1.30E+2	≤MDC				≤MDC	None
	Cs-137	1.50E+2	≤MDC				≤MDC	None
	Ba-140	N/A	≤MDC				≤MDC	None
	La-140	N/A	≤MDC				≤MDC	None
	Ce-141	N/A	≤MDC				≤MDC	None
	Ce-144	N/A	≤MDC				≤MDC	None
Th-228	N/A	≤MDC		≤MDC	None			

- (a) Direct Radiation mean, range, and total analyses values are for off-site TLDs. Onsite TLDs are not included in this table.
- (b) LLD = Fermi 2 ODCM LLD: nominal lower limit of detection based on 4.66 sigma error for background sample.
- (c) ≤MDC = Less than or equal to the lab's minimum detectable activity which is less than the LLD.
- (d) Mean and range based upon detectable measurements only, defined as cases of the result exceeding the MDC (see Appendix C for sample analysis results). Fraction of detectable measurements at specified locations is indicated in parentheses.
- (e) Locations are specified by Fermi 2 ODCM and are described in Appendix A - Sampling Locations.
- (f) Non-routine results are those which are reportable according to Fermi 2 ODCM control 3.12.1.

## Appendix C

### Environmental Data Tables

#### **Laboratory Qualifiers**

- U: Target isotope was analyzed for but not detected above the MDC and LLD.
- UI: Uncertain identification for gamma spectroscopy.  
The indicated nuclide is considered not to be detected with this qualifier.
- M: Reported result is less than the LLD and greater than the MDC.  
Radioactivity is considered to be detected in a sample with this qualifier.
- DL: MDC > LLD
- No qualifier: Radioactivity is detected in the sample, above the MDC.

## API-1

## A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(500472007) - A.C. Iodine	7-Jan-20	Iodine-131	1.42E-03	5.85E-03	2.03E-02	7.00E-02	5.86E-03	pCi/m3	U
API-1(501152007) - A.C. Iodine	14-Jan-20	Iodine-131	-2.30E-03	3.11E-03	9.75E-03	7.00E-02	3.16E-03	pCi/m3	U
API-1(501849007) - A.C. Iodine	21-Jan-20	Iodine-131	-3.44E-03	2.26E-03	6.58E-03	7.00E-02	2.40E-03	pCi/m3	U
API-1(502476007) - A.C. Iodine	28-Jan-20	Iodine-131	-2.98E-04	1.77E-03	5.92E-03	7.00E-02	1.77E-03	pCi/m3	U
API-1(503325007) - A.C. Iodine	4-Feb-20	Iodine-131	-2.58E-03	2.46E-03	7.26E-03	7.00E-02	2.53E-03	pCi/m3	U
API-1(504027007) - A.C. Iodine	11-Feb-20	Iodine-131	-6.84E-05	3.41E-03	9.97E-03	7.00E-02	3.41E-03	pCi/m3	U
API-1(504675007) - A.C. Iodine	18-Feb-20	Iodine-131	-1.60E-03	2.28E-03	7.26E-03	7.00E-02	2.32E-03	pCi/m3	U
API-1(505312007) - A.C. Iodine	25-Feb-20	Iodine-131	-2.48E-03	4.43E-03	1.38E-02	7.00E-02	4.47E-03	pCi/m3	U
API-1(505963007) - A.C. Iodine	3-Mar-20	Iodine-131	3.84E-03	4.84E-03	1.74E-02	7.00E-02	4.92E-03	pCi/m3	U
API-1(506595007) - A.C. Iodine	10-Mar-20	Iodine-131	3.76E-03	3.75E-03	1.44E-02	7.00E-02	3.85E-03	pCi/m3	U
API-1(507213007) - A.C. Iodine	17-Mar-20	Iodine-131	1.89E-03	5.72E-03	2.01E-02	7.00E-02	5.74E-03	pCi/m3	U
API-1(507791007) - A.C. Iodine	24-Mar-20	Iodine-131	-1.85E-04	4.49E-03	1.47E-02	7.00E-02	4.49E-03	pCi/m3	U
API-1(508669007) - A.C. Iodine	31-Mar-20	Iodine-131	3.44E-03	2.39E-03	8.91E-03	7.00E-02	2.52E-03	pCi/m3	U
API-1(509001007) - A.C. Iodine	7-Apr-20	Iodine-131	1.26E-03	3.25E-03	1.13E-02	7.00E-02	3.26E-03	pCi/m3	U
API-1(509503007) - A.C. Iodine	14-Apr-20	Iodine-131	1.19E-02	8.74E-03	1.19E-02	7.00E-02	8.76E-03	pCi/m3	UI
API-1(509976007) - A.C. Iodine	21-Apr-20	Iodine-131	-6.62E-04	4.41E-03	1.46E-02	7.00E-02	4.42E-03	pCi/m3	U
API-1(510318007) - A.C. Iodine	28-Apr-20	Iodine-131	1.99E-03	3.92E-03	1.39E-02	7.00E-02	3.94E-03	pCi/m3	U
API-1(510728007) - A.C. Iodine	5-May-20	Iodine-131	5.37E-03	4.36E-03	1.66E-02	7.00E-02	4.54E-03	pCi/m3	U
API-1(511882007) - A.C. Iodine	13-May-20	Iodine-131	-3.93E-03	4.49E-03	1.37E-02	7.00E-02	4.58E-03	pCi/m3	U
API-1(511857007) - A.C. Iodine	20-May-20	Iodine-131	-3.83E-03	3.94E-03	9.39E-03	7.00E-02	4.04E-03	pCi/m3	U
API-1(512286007) - A.C. Iodine	26-May-20	Iodine-131	9.14E-05	3.64E-03	1.19E-02	7.00E-02	3.64E-03	pCi/m3	U
API-1(512737007) - A.C. Iodine	2-Jun-20	Iodine-131	5.78E-03	6.15E-03	2.21E-02	7.00E-02	6.30E-03	pCi/m3	U
API-1(513176007) - A.C. Iodine	9-Jun-20	Iodine-131	3.33E-03	1.92E-03	7.69E-03	7.00E-02	2.08E-03	pCi/m3	U
API-1(513961007) - A.C. Iodine	16-Jun-20	Iodine-131	-7.51E-03	3.94E-03	8.48E-03	7.00E-02	4.32E-03	pCi/m3	U
API-1(514377007) - A.C. Iodine	23-Jun-20	Iodine-131	5.03E-03	3.83E-03	1.40E-02	7.00E-02	4.01E-03	pCi/m3	U
API-1(514802007) - A.C. Iodine	28-Jun-20	Iodine-131	9.57E-04	4.19E-03	1.43E-02	7.00E-02	4.19E-03	pCi/m3	U
API-1(515270007) - A.C. Iodine	7-Jul-20	Iodine-131	1.47E-05	3.35E-03	1.10E-02	7.00E-02	3.35E-03	pCi/m3	U
API-1(516045007) - A.C. Iodine	15-Jul-20	Iodine-131	-5.55E-03	6.86E-03	1.99E-02	7.00E-02	6.98E-03	pCi/m3	U
API-1(516530007) - A.C. Iodine	21-Jul-20	Iodine-131	2.40E-03	5.71E-03	2.04E-02	7.00E-02	5.74E-03	pCi/m3	U
API-1(517198007) - A.C. Iodine	29-Jul-20	Iodine-131	6.61E-04	7.83E-03	2.71E-02	7.00E-02	7.83E-03	pCi/m3	U
API-1(517698007) - A.C. Iodine	4-Aug-20	Iodine-131	8.00E-03	4.95E-03	1.82E-02	7.00E-02	5.29E-03	pCi/m3	U
API-1(518171007) - A.C. Iodine	11-Aug-20	Iodine-131	-2.17E-03	2.85E-03	8.85E-03	7.00E-02	2.90E-03	pCi/m3	U
API-1(519104007) - A.C. Iodine	18-Aug-20	Iodine-131	1.71E-03	2.94E-03	1.03E-02	7.00E-02	2.97E-03	pCi/m3	U
API-1(519829007) - A.C. Iodine	25-Aug-20	Iodine-131	-8.15E-03	4.53E-03	1.27E-02	7.00E-02	4.92E-03	pCi/m3	U
API-1(520260007) - A.C. Iodine	1-Sep-20	Iodine-131	-4.18E-03	3.50E-03	1.05E-02	7.00E-02	3.64E-03	pCi/m3	U
API-1(520976007) - A.C. Iodine	8-Sep-20	Iodine-131	1.04E-03	4.06E-03	1.35E-02	7.00E-02	4.07E-03	pCi/m3	U

## API-1

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(521492007) - A.C. Iodine	15-Sep-20	Iodine-131	-3.23E-03	2.75E-03	8.23E-03	7.00E-02	2.85E-03	pCi/m3	U
API-1(522112007) - A.C. Iodine	22-Sep-20	Iodine-131	2.59E-03	3.23E-03	1.12E-02	7.00E-02	3.29E-03	pCi/m3	U
API-1(522851007) - A.C. Iodine	29-Sep-20	Iodine-131	-9.76E-04	2.88E-03	8.94E-03	7.00E-02	2.89E-03	pCi/m3	U
API-1(523556007) - A.C. Iodine	6-Oct-20	Iodine-131	9.74E-04	3.80E-03	1.29E-02	7.00E-02	3.80E-03	pCi/m3	U
API-1(524214007) - A.C. Iodine	13-Oct-20	Iodine-131	3.90E-03	2.57E-03	9.99E-03	7.00E-02	2.72E-03	pCi/m3	U
API-1(524977007) - A.C. Iodine	20-Oct-20	Iodine-131	-3.67E-04	3.24E-03	1.09E-02	7.00E-02	3.24E-03	pCi/m3	U
API-1(525681007) - A.C. Iodine	27-Oct-20	Iodine-131	1.38E-03	2.49E-03	8.94E-03	7.00E-02	2.51E-03	pCi/m3	U
API-1(526368007) - A.C. Iodine	3-Nov-20	Iodine-131	-7.09E-04	3.59E-03	1.00E-02	7.00E-02	3.59E-03	pCi/m3	U
API-1(527137007) - A.C. Iodine	10-Nov-20	Iodine-131	6.57E-04	3.57E-03	1.14E-02	7.00E-02	3.57E-03	pCi/m3	U
API-1(527819007) - A.C. Iodine	17-Nov-20	Iodine-131	-2.29E-03	3.96E-03	1.30E-02	7.00E-02	4.00E-03	pCi/m3	U
API-1(528737007) - A.C. Iodine	24-Nov-20	Iodine-131	2.30E-03	5.12E-03	1.83E-02	7.00E-02	5.15E-03	pCi/m3	U
API-1(528995007) - A.C. Iodine	1-Dec-20	Iodine-131	-7.59E-03	4.92E-03	1.31E-02	7.00E-02	5.23E-03	pCi/m3	U
API-1(529575007) - A.C. Iodine	8-Dec-20	Iodine-131	-1.07E-03	3.23E-03	9.42E-03	7.00E-02	3.24E-03	pCi/m3	U
API-1(530340007) - A.C. Iodine	15-Dec-20	Iodine-131	4.22E-03	4.96E-03	1.82E-02	7.00E-02	5.06E-03	pCi/m3	U
API-1(530830007) - A.C. Iodine	22-Dec-20	Iodine-131	7.35E-04	2.48E-03	8.64E-03	7.00E-02	2.48E-03	pCi/m3	U
API-1(531069007) - A.C. Iodine	29-Dec-20	Iodine-131	2.82E-03	2.34E-03	8.87E-03	7.00E-02	2.44E-03	pCi/m3	U

## API-1

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Actinium-228	-1.13E-03	8.16E-04	2.23E-03		8.58E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Actinium-228	-9.87E-04	6.82E-04	2.00E-03		7.20E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Actinium-228	-1.29E-04	1.43E-03	4.61E-03		1.43E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Antimony-124	6.59E-04	4.56E-04	1.93E-03		4.81E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Antimony-124	-2.08E-04	6.57E-04	2.05E-03		6.59E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Antimony-124	-3.38E-04	6.75E-04	1.93E-03		6.80E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Antimony-125	-4.13E-04	4.49E-04	1.14E-03		4.59E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Antimony-125	-1.20E-04	3.90E-04	1.27E-03		3.91E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Antimony-125	1.23E-04	5.06E-04	1.75E-03		5.07E-04	pCi/m3	U
API-1(500472001) - A.P. Gross Beta	7-Jan-20	BETA	3.89E-02	2.79E-03	3.36E-03	1.00E-02	2.79E-03	pCi/m3	
API-1(501152001) - A.P. Gross Beta	14-Jan-20	BETA	2.58E-02	2.56E-03	4.05E-03	1.00E-02	2.56E-03	pCi/m3	
API-1(501849001) - A.P. Gross Beta	21-Jan-20	BETA	3.13E-02	2.78E-03	4.10E-03	1.00E-02	2.78E-03	pCi/m3	
API-1(502476001) - A.P. Gross Beta	28-Jan-20	BETA	2.43E-02	2.25E-03	3.15E-03	1.00E-02	2.25E-03	pCi/m3	
API-1(503325001) - A.P. Gross Beta	4-Feb-20	BETA	2.07E-02	2.05E-03	3.03E-03	1.00E-02	2.05E-03	pCi/m3	
API-1(504027001) - A.P. Gross Beta	11-Feb-20	BETA	2.04E-02	2.07E-03	3.30E-03	1.00E-02	2.07E-03	pCi/m3	
API-1(504675001) - A.P. Gross Beta	18-Feb-20	BETA	2.25E-02	2.20E-03	3.33E-03	1.00E-02	2.20E-03	pCi/m3	

API-1

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(505312001) - A.P. Gross Beta	25-Feb-20	BETA	3.79E-02	2.74E-03	3.45E-03	1.00E-02	2.74E-03	pCi/m3	
API-1(505963001) - A.P. Gross Beta	3-Mar-20	BETA	2.97E-02	2.60E-03	4.27E-03	1.00E-02	2.60E-03	pCi/m3	
API-1(506595001) - A.P. Gross Beta	10-Mar-20	BETA	1.92E-02	2.24E-03	4.28E-03	1.00E-02	2.24E-03	pCi/m3	
API-1(507213001) - A.P. Gross Beta	17-Mar-20	BETA	2.81E-02	2.33E-03	3.09E-03	1.00E-02	2.33E-03	pCi/m3	
API-1(507791001) - A.P. Gross Beta	24-Mar-20	BETA	2.68E-02	2.58E-03	3.93E-03	1.00E-02	2.58E-03	pCi/m3	
API-1(508669001) - A.P. Gross Beta	31-Mar-20	BETA	1.97E-02	2.15E-03	3.69E-03	1.00E-02	2.15E-03	pCi/m3	
API-1(509001001) - A.P. Gross Beta	7-Apr-20	BETA	1.80E-02	2.05E-03	3.52E-03	1.00E-02	2.05E-03	pCi/m3	
API-1(509503001) - A.P. Gross Beta	14-Apr-20	BETA	3.60E-02	2.94E-03	3.85E-03	1.00E-02	2.94E-03	pCi/m3	
API-1(509976001) - A.P. Gross Beta	21-Apr-20	BETA	2.69E-02	2.29E-03	3.24E-03	1.00E-02	2.29E-03	pCi/m3	
API-1(510318001) - A.P. Gross Beta	28-Apr-20	BETA	2.86E-02	2.69E-03	3.89E-03	1.00E-02	2.69E-03	pCi/m3	
API-1(510728001) - A.P. Gross Beta	5-May-20	BETA	2.49E-02	2.46E-03	3.68E-03	1.00E-02	2.47E-03	pCi/m3	
API-1(511882001) - A.P. Gross Beta	13-May-20	BETA	1.97E-02	1.89E-03	2.78E-03	1.00E-02	1.89E-03	pCi/m3	
API-1(511857001) - A.P. Gross Beta	20-May-20	BETA	2.56E-02	2.33E-03	3.29E-03	1.00E-02	2.33E-03	pCi/m3	
API-1(512286001) - A.P. Gross Beta	26-May-20	BETA	2.49E-02	2.47E-03	3.77E-03	1.00E-02	2.47E-03	pCi/m3	
API-1(512737001) - A.P. Gross Beta	2-Jun-20	BETA	2.22E-02	2.27E-03	3.90E-03	1.00E-02	2.27E-03	pCi/m3	
API-1(513176001) - A.P. Gross Beta	9-Jun-20	BETA	2.34E-02	2.24E-03	3.41E-03	1.00E-02	2.25E-03	pCi/m3	
API-1(513961001) - A.P. Gross Beta	16-Jun-20	BETA	2.18E-02	2.19E-03	3.43E-03	1.00E-02	2.19E-03	pCi/m3	
API-1(514377001) - A.P. Gross Beta	23-Jun-20	BETA	2.71E-02	2.37E-03	3.31E-03	1.00E-02	2.37E-03	pCi/m3	
API-1(514802001) - A.P. Gross Beta	28-Jun-20	BETA	2.57E-02	2.78E-03	4.40E-03	1.00E-02	2.78E-03	pCi/m3	
API-1(515270001) - A.P. Gross Beta	7-Jul-20	BETA	2.38E-02	1.91E-03	2.51E-03	1.00E-02	1.91E-03	pCi/m3	
API-1(516045001) - A.P. Gross Beta	15-Jul-20	BETA	2.60E-02	2.18E-03	2.93E-03	1.00E-02	2.18E-03	pCi/m3	
API-1(516530001) - A.P. Gross Beta	21-Jul-20	BETA	2.80E-02	2.65E-03	4.02E-03	1.00E-02	2.65E-03	pCi/m3	
API-1(517198001) - A.P. Gross Beta	29-Jul-20	BETA	2.30E-02	2.13E-03	3.45E-03	1.00E-02	2.13E-03	pCi/m3	
API-1(517698001) - A.P. Gross Beta	4-Aug-20	BETA	2.17E-02	2.38E-03	3.90E-03	1.00E-02	2.38E-03	pCi/m3	
API-1(518171001) - A.P. Gross Beta	11-Aug-20	BETA	2.20E-02	2.17E-03	3.29E-03	1.00E-02	2.17E-03	pCi/m3	
API-1(519104001) - A.P. Gross Beta	18-Aug-20	BETA	1.90E-02	2.05E-03	3.41E-03	1.00E-02	2.05E-03	pCi/m3	
API-1(519829001) - A.P. Gross Beta	25-Aug-20	BETA	3.56E-02	2.66E-03	3.60E-03	1.00E-02	2.66E-03	pCi/m3	
API-1(520260001) - A.P. Gross Beta	1-Sep-20	BETA	2.36E-02	2.29E-03	3.39E-03	1.00E-02	2.29E-03	pCi/m3	
API-1(520976001) - A.P. Gross Beta	8-Sep-20	BETA	2.35E-02	2.33E-03	3.79E-03	1.00E-02	2.33E-03	pCi/m3	
API-1(521492001) - A.P. Gross Beta	15-Sep-20	BETA	1.94E-02	2.06E-03	3.32E-03	1.00E-02	2.06E-03	pCi/m3	
API-1(522112001) - A.P. Gross Beta	22-Sep-20	BETA	2.42E-02	2.33E-03	3.45E-03	1.00E-02	2.33E-03	pCi/m3	
API-1(522851001) - A.P. Gross Beta	29-Sep-20	BETA	3.82E-02	2.73E-03	3.42E-03	1.00E-02	2.74E-03	pCi/m3	
API-1(523556001) - A.P. Gross Beta	6-Oct-20	BETA	1.97E-02	2.09E-03	3.24E-03	1.00E-02	2.09E-03	pCi/m3	
API-1(524214001) - A.P. Gross Beta	13-Oct-20	BETA	3.00E-02	2.48E-03	3.42E-03	1.00E-02	2.49E-03	pCi/m3	
API-1(524977001) - A.P. Gross Beta	20-Oct-20	BETA	2.38E-02	2.26E-03	3.39E-03	1.00E-02	2.27E-03	pCi/m3	
API-1(525681001) - A.P. Gross Beta	27-Oct-20	BETA	2.50E-02	2.32E-03	3.58E-03	1.00E-02	2.32E-03	pCi/m3	

API-1

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(526368001) - A.P. Gross Beta	3-Nov-20	BETA	3.98E-02	2.79E-03	3.20E-03	1.00E-02	2.79E-03	pCi/m3	
API-1(527137001) - A.P. Gross Beta	10-Nov-20	BETA	4.27E-02	2.89E-03	3.59E-03	1.00E-02	2.89E-03	pCi/m3	
API-1(527819001) - A.P. Gross Beta	17-Nov-20	BETA	4.86E-02	3.08E-03	3.59E-03	1.00E-02	3.08E-03	pCi/m3	
API-1(528737001) - A.P. Gross Beta	24-Nov-20	BETA	3.36E-02	2.60E-03	3.40E-03	1.00E-02	2.60E-03	pCi/m3	
API-1(528995001) - A.P. Gross Beta	1-Dec-20	BETA	4.24E-02	2.90E-03	3.59E-03	1.00E-02	2.90E-03	pCi/m3	
API-1(529575001) - A.P. Gross Beta	8-Dec-20	BETA	3.61E-02	2.66E-03	3.20E-03	1.00E-02	2.67E-03	pCi/m3	
API-1(530340001) - A.P. Gross Beta	15-Dec-20	BETA	6.36E-02	3.51E-03	3.35E-03	1.00E-02	3.52E-03	pCi/m3	
API-1(530830001) - A.P. Gross Beta	22-Dec-20	BETA	3.66E-02	2.70E-03	3.30E-03	1.00E-02	2.70E-03	pCi/m3	
API-1(531069001) - A.P. Gross Beta	29-Dec-20	BETA	3.28E-02	2.50E-03	3.07E-03	1.00E-02	2.50E-03	pCi/m3	
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Barium-140	1.46E-04	3.53E-03	1.19E-02		3.53E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Barium-140	3.54E-03	3.96E-03	1.42E-02		4.05E-03	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Barium-140	-7.58E-04	4.19E-03	1.38E-02		4.20E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Beryllium-7	5.43E-02	5.22E-03	5.43E-03		5.99E-03	pCi/m3	
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Beryllium-7	5.20E-02	5.70E-03	6.23E-03		6.23E-03	pCi/m3	
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Beryllium-7	4.62E-02	5.57E-03	7.22E-03		5.98E-03	pCi/m3	
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cerium-141	5.38E-04	4.80E-04	9.77E-04		4.81E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cerium-141	1.42E-04	3.18E-04	1.08E-03		3.20E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cerium-141	-1.19E-03	4.65E-04	1.30E-03		5.44E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cerium-144	7.09E-04	6.48E-04	2.16E-03		6.68E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cerium-144	1.83E-04	6.49E-04	2.05E-03		6.50E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cerium-144	-5.05E-04	9.88E-04	3.21E-03		9.95E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cesium-134	-1.92E-05	1.51E-04	4.81E-04	5.00E-02	1.51E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cesium-134	-1.80E-04	1.77E-04	5.38E-04	5.00E-02	1.82E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cesium-134	-4.63E-04	3.25E-04	9.00E-04	5.00E-02	3.43E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cesium-137	6.49E-06	1.61E-04	5.33E-04	6.00E-02	1.61E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cesium-137	1.67E-04	1.30E-04	4.52E-04	6.00E-02	1.36E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cesium-137	-2.90E-04	2.94E-04	7.55E-04	6.00E-02	3.02E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Chromium-51	2.60E-03	2.39E-03	8.33E-03		2.47E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Chromium-51	-1.12E-03	2.58E-03	8.59E-03		2.59E-03	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Chromium-51	-1.39E-03	3.25E-03	9.83E-03		3.26E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cobalt-57	2.38E-05	9.05E-05	2.88E-04		9.06E-05	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cobalt-57	6.13E-05	7.12E-05	2.51E-04		7.26E-05	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cobalt-57	5.73E-05	1.06E-04	3.65E-04		1.07E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Cobalt-58	-1.54E-04	2.42E-04	7.35E-04		2.45E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Cobalt-58	7.88E-04	2.66E-04	8.90E-04		2.69E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Cobalt-58	-4.16E-04	2.98E-04	7.86E-04		3.14E-04	pCi/m3	U

## API-1

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Iodine-131	-7.00E-04	2.77E-03	8.75E-03		2.78E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Iodine-131	6.55E-03	4.97E-03	1.82E-02		5.20E-03	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Iodine-131	-2.80E-03	2.58E-03	7.78E-03		2.66E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Iron-59	2.24E-04	5.08E-04	1.78E-03		5.10E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Iron-59	7.96E-05	6.58E-04	2.18E-03		6.58E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Iron-59	7.00E-04	6.50E-04	2.48E-03		6.71E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	7.67E-04	1.55E-03	5.39E-03		1.56E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	-2.90E-03	2.18E-03	5.65E-03		2.28E-03	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	-5.95E-04	1.82E-03	5.67E-03		1.83E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Manganese-54	1.44E-04	1.92E-04	6.64E-04		1.95E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Manganese-54	-1.35E-04	2.05E-04	6.51E-04		2.07E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Manganese-54	-2.47E-04	2.80E-04	8.16E-04		2.86E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Niobium-95	3.46E-04	2.36E-04	8.69E-04		2.50E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Niobium-95	3.12E-04	2.19E-04	8.35E-04		2.30E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Niobium-95	-1.73E-04	4.15E-04	1.14E-03		4.17E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Potassium-40	3.77E-03	4.15E-03	4.96E-03		4.15E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Potassium-40	7.25E-03	5.25E-03	7.25E-03		5.27E-03	pCi/m3	UI
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Potassium-40	1.04E-02	5.44E-03	1.07E-02		5.46E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	5.41E-04	1.46E-04	6.79E-04		1.94E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	1.81E-04	2.54E-04	8.88E-04		2.58E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	3.47E-04	3.35E-04	1.21E-03		3.45E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	2.70E-04	1.34E-03	4.51E-03		1.34E-03	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	-1.43E-04	1.34E-03	4.28E-03		1.34E-03	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	1.20E-03	2.13E-03	7.39E-03		2.15E-03	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Selenium-75	-6.24E-05	1.80E-04	5.83E-04		1.81E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Selenium-75	-3.72E-05	2.02E-04	6.28E-04		2.02E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Selenium-75	4.82E-04	2.75E-04	9.75E-04		2.98E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Silver-108m	2.06E-04	1.72E-04	3.91E-04		1.78E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Silver-108m	-1.57E-04	1.09E-04	3.19E-04		1.15E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Silver-108m	-1.64E-04	1.96E-04	6.28E-04		2.00E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Silver-110m	2.83E-04	2.12E-04	7.94E-04		2.22E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Silver-110m	-1.00E-04	2.15E-04	6.79E-04		2.17E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Silver-110m	-3.89E-04	4.02E-04	1.14E-03		4.13E-04	pCi/m3	U
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Zinc-65	-5.56E-06	3.83E-04	1.27E-03		3.83E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Zinc-65	-1.53E-04	3.85E-04	1.19E-03		3.86E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Zinc-65	1.77E-04	5.87E-04	2.05E-03		5.88E-04	pCi/m3	U



## API-1

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(517029001) - A.P. Gross Beta	28-Jun-20	Zirconium-95	-2.64E-04	3.13E-04	9.02E-04		3.20E-04	pCi/m3	U
API-1(526477001) - A.P. Gross Beta	29-Sep-20	Zirconium-95	1.24E-04	3.93E-04	1.37E-03		3.94E-04	pCi/m3	U
API-1(533263001) - A.P. Gross Beta	29-Dec-20	Zirconium-95	-1.34E-03	7.14E-04	1.91E-03		7.82E-04	pCi/m3	U

## API-1

## A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	5.53E-04	1.19E-03	2.77E-03		1.20E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	9.46E-05	4.63E-04	1.56E-03		4.63E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	1.12E-05	3.78E-04	1.27E-03		3.78E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	3.15E-03	3.41E-03	1.18E-02		3.49E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	4.64E-02	4.02E-03	6.20E-03		4.63E-03	pCi/m3	
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	1.04E-04	3.88E-04	1.32E-03		3.88E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	7.52E-05	8.18E-04	2.78E-03		8.18E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	-9.62E-05	2.00E-04	6.07E-04	5.00E-02	2.01E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	-5.83E-06	1.66E-04	5.36E-04	6.00E-02	1.66E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	3.38E-03	2.96E-03	9.88E-03		3.06E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	1.26E-04	1.12E-04	3.94E-04		1.16E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	2.16E-04	2.39E-04	7.49E-04		2.44E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	8.96E-04	2.81E-03	9.66E-03		2.82E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	-7.51E-04	5.82E-04	1.72E-03		6.08E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	-4.63E-04	1.33E-03	4.24E-03		1.33E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	-7.83E-05	1.94E-04	5.87E-04		1.95E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	1.02E-05	2.30E-04	7.79E-04		2.30E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	7.70E-03	3.53E-03	6.08E-03		3.56E-03	pCi/m3	
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	-1.85E-04	2.79E-04	8.96E-04		2.82E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	1.79E-03	1.59E-03	5.46E-03		1.64E-03	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	-1.32E-05	2.42E-04	7.82E-04		2.42E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-1.76E-04	1.36E-04	4.30E-04		1.42E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	-1.10E-04	2.57E-04	8.35E-04		2.58E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	-7.92E-04	4.31E-04	1.22E-03		4.69E-04	pCi/m3	U
API-1(510543001) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	-5.06E-04	4.15E-04	1.31E-03		4.32E-04	pCi/m3	U

## API-2

## A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(500472008) - A.C. Iodine	7-Jan-20	Iodine-131	1.10E-03	3.94E-03	1.42E-02	7.00E-02	3.94E-03	pCi/m3	U
API-2(501152008) - A.C. Iodine	14-Jan-20	Iodine-131	1.72E-03	2.69E-03	9.39E-03	7.00E-02	2.72E-03	pCi/m3	U
API-2(501849008) - A.C. Iodine	21-Jan-20	Iodine-131	1.04E-03	3.18E-03	1.08E-02	7.00E-02	3.19E-03	pCi/m3	U
API-2(502476008) - A.C. Iodine	28-Jan-20	Iodine-131	-8.89E-04	2.55E-03	8.39E-03	7.00E-02	2.56E-03	pCi/m3	U
API-2(503325008) - A.C. Iodine	4-Feb-20	Iodine-131	-5.71E-04	2.48E-03	8.24E-03	7.00E-02	2.48E-03	pCi/m3	U
API-2(504027008) - A.C. Iodine	11-Feb-20	Iodine-131	3.53E-03	2.99E-03	1.10E-02	7.00E-02	3.10E-03	pCi/m3	U
API-2(504675008) - A.C. Iodine	18-Feb-20	Iodine-131	2.89E-03	2.48E-03	9.29E-03	7.00E-02	2.57E-03	pCi/m3	U
API-2(505312008) - A.C. Iodine	25-Feb-20	Iodine-131	1.18E-02	5.88E-03	2.38E-02	7.00E-02	6.50E-03	pCi/m3	U
API-2(505963008) - A.C. Iodine	3-Mar-20	Iodine-131	-5.21E-03	3.39E-03	8.14E-03	7.00E-02	3.60E-03	pCi/m3	U
API-2(506595008) - A.C. Iodine	10-Mar-20	Iodine-131	-7.11E-03	3.97E-03	8.93E-03	7.00E-02	4.31E-03	pCi/m3	U
API-2(507213008) - A.C. Iodine	17-Mar-20	Iodine-131	9.91E-04	4.41E-03	1.51E-02	7.00E-02	4.42E-03	pCi/m3	U
API-2(507791008) - A.C. Iodine	24-Mar-20	Iodine-131	-4.02E-03	5.19E-03	1.60E-02	7.00E-02	5.28E-03	pCi/m3	U
API-2(508669008) - A.C. Iodine	31-Mar-20	Iodine-131	-9.54E-05	2.62E-03	8.40E-03	7.00E-02	2.62E-03	pCi/m3	U
API-2(509001008) - A.C. Iodine	7-Apr-20	Iodine-131	-4.20E-03	2.22E-03	5.65E-03	7.00E-02	2.43E-03	pCi/m3	U
API-2(509503008) - A.C. Iodine	14-Apr-20	Iodine-131	6.30E-03	3.59E-03	1.40E-02	7.00E-02	3.88E-03	pCi/m3	U
API-2(509976008) - A.C. Iodine	21-Apr-20	Iodine-131	-4.76E-03	3.98E-03	1.08E-02	7.00E-02	4.14E-03	pCi/m3	U
API-2(510318008) - A.C. Iodine	28-Apr-20	Iodine-131	1.79E-03	3.92E-03	1.41E-02	7.00E-02	3.94E-03	pCi/m3	U
API-2(510728008) - A.C. Iodine	5-May-20	Iodine-131	2.89E-03	2.71E-03	1.06E-02	7.00E-02	2.80E-03	pCi/m3	U
API-2(511882008) - A.C. Iodine	13-May-20	Iodine-131	-3.74E-03	4.67E-03	1.44E-02	7.00E-02	4.75E-03	pCi/m3	U
API-2(511857008) - A.C. Iodine	20-May-20	Iodine-131	-2.99E-03	5.77E-03	1.79E-02	7.00E-02	5.81E-03	pCi/m3	U
API-2(512286008) - A.C. Iodine	26-May-20	Iodine-131	-5.84E-03	4.02E-03	1.16E-02	7.00E-02	4.24E-03	pCi/m3	U
API-2(512737008) - A.C. Iodine	2-Jun-20	Iodine-131	2.95E-03	4.10E-03	1.55E-02	7.00E-02	4.16E-03	pCi/m3	U
API-2(513176008) - A.C. Iodine	9-Jun-20	Iodine-131	-7.89E-04	2.54E-03	8.16E-03	7.00E-02	2.54E-03	pCi/m3	U
API-2(513961008) - A.C. Iodine	16-Jun-20	Iodine-131	4.49E-03	3.60E-03	1.43E-02	7.00E-02	3.76E-03	pCi/m3	U
API-2(514377008) - A.C. Iodine	23-Jun-20	Iodine-131	2.05E-03	5.80E-03	2.08E-02	7.00E-02	5.82E-03	pCi/m3	U
API-2(514802008) - A.C. Iodine	28-Jun-20	Iodine-131	1.69E-03	6.27E-03	2.18E-02	7.00E-02	6.28E-03	pCi/m3	U
API-2(515270008) - A.C. Iodine	7-Jul-20	Iodine-131	-4.87E-03	3.58E-03	1.08E-02	7.00E-02	3.76E-03	pCi/m3	U
API-2(516045008) - A.C. Iodine	15-Jul-20	Iodine-131	-7.11E-03	5.91E-03	1.57E-02	7.00E-02	6.14E-03	pCi/m3	U
API-2(516530008) - A.C. Iodine	21-Jul-20	Iodine-131	5.00E-03	4.74E-03	1.71E-02	7.00E-02	4.88E-03	pCi/m3	U
API-2(517198008) - A.C. Iodine	29-Jul-20	Iodine-131	1.27E-02	5.04E-03	2.08E-02	7.00E-02	5.85E-03	pCi/m3	U
API-2(517698008) - A.C. Iodine	4-Aug-20	Iodine-131	8.15E-04	4.24E-03	1.41E-02	7.00E-02	4.24E-03	pCi/m3	U
API-2(518171008) - A.C. Iodine	11-Aug-20	Iodine-131	-1.22E-03	2.69E-03	8.64E-03	7.00E-02	2.70E-03	pCi/m3	U
API-2(519104008) - A.C. Iodine	18-Aug-20	Iodine-131	1.27E-03	3.36E-03	1.18E-02	7.00E-02	3.38E-03	pCi/m3	U
API-2(519829008) - A.C. Iodine	25-Aug-20	Iodine-131	-5.63E-03	3.68E-03	1.06E-02	7.00E-02	3.91E-03	pCi/m3	U
API-2(520260008) - A.C. Iodine	1-Sep-20	Iodine-131	-1.35E-04	3.14E-03	1.05E-02	7.00E-02	3.14E-03	pCi/m3	U
API-2(520976008) - A.C. Iodine	8-Sep-20	Iodine-131	-2.72E-03	3.93E-03	1.19E-02	7.00E-02	3.98E-03	pCi/m3	U

## API-2

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(521492008) - A.C. Iodine	15-Sep-20	Iodine-131	1.21E-03	4.22E-03	1.49E-02	7.00E-02	4.23E-03	pCi/m3	U
API-2(522112008) - A.C. Iodine	22-Sep-20	Iodine-131	3.95E-03	3.37E-03	1.26E-02	7.00E-02	3.49E-03	pCi/m3	U
API-2(522851008) - A.C. Iodine	29-Sep-20	Iodine-131	3.06E-04	2.86E-03	9.71E-03	7.00E-02	2.86E-03	pCi/m3	U
API-2(523556008) - A.C. Iodine	6-Oct-20	Iodine-131	6.52E-03	4.01E-03	1.54E-02	7.00E-02	4.29E-03	pCi/m3	U
API-2(524214008) - A.C. Iodine	13-Oct-20	Iodine-131	2.14E-03	2.85E-03	1.03E-02	7.00E-02	2.90E-03	pCi/m3	U
API-2(524977008) - A.C. Iodine	20-Oct-20	Iodine-131	2.27E-03	3.15E-03	1.13E-02	7.00E-02	3.19E-03	pCi/m3	U
API-2(525681008) - A.C. Iodine	27-Oct-20	Iodine-131	-5.82E-03	4.65E-03	1.39E-02	7.00E-02	4.84E-03	pCi/m3	U
API-2(526368008) - A.C. Iodine	3-Nov-20	Iodine-131	-5.02E-04	4.33E-03	1.45E-02	7.00E-02	4.34E-03	pCi/m3	U
API-2(527137008) - A.C. Iodine	10-Nov-20	Iodine-131	-1.61E-03	2.81E-03	8.90E-03	7.00E-02	2.83E-03	pCi/m3	U
API-2(527819008) - A.C. Iodine	17-Nov-20	Iodine-131	-1.09E-03	3.73E-03	1.23E-02	7.00E-02	3.74E-03	pCi/m3	U
API-2(528737008) - A.C. Iodine	24-Nov-20	Iodine-131	-4.81E-03	3.99E-03	9.93E-03	7.00E-02	4.15E-03	pCi/m3	U
API-2(528995008) - A.C. Iodine	1-Dec-20	Iodine-131	8.01E-03	5.66E-03	2.27E-02	7.00E-02	5.96E-03	pCi/m3	U
API-2(529575008) - A.C. Iodine	8-Dec-20	Iodine-131	-4.07E-03	4.00E-03	1.19E-02	7.00E-02	4.11E-03	pCi/m3	U
API-2(530340008) - A.C. Iodine	15-Dec-20	Iodine-131	-3.66E-03	4.31E-03	1.19E-02	7.00E-02	4.39E-03	pCi/m3	U
API-2(530830008) - A.C. Iodine	22-Dec-20	Iodine-131	1.64E-04	2.73E-03	9.29E-03	7.00E-02	2.73E-03	pCi/m3	U
API-2(531069008) - A.C. Iodine	29-Dec-20	Iodine-131	-7.62E-03	3.94E-03	7.28E-03	7.00E-02	4.33E-03	pCi/m3	U

## API-2

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Actinium-228	7.90E-04	7.03E-04	2.60E-03		7.28E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Actinium-228	-1.48E-03	1.13E-03	3.17E-03		1.18E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Actinium-228	-1.73E-03	7.96E-04	2.27E-03		8.95E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Antimony-124	-6.55E-05	5.32E-04	1.76E-03		5.32E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Antimony-124	7.38E-04	8.53E-04	3.23E-03		8.70E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Antimony-124	1.16E-03	5.42E-04	2.36E-03		6.06E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Antimony-125	-2.18E-04	3.74E-04	1.20E-03		3.78E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Antimony-125	-9.48E-05	5.84E-04	1.76E-03		5.85E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Antimony-125	-2.20E-04	3.36E-04	1.08E-03		3.40E-04	pCi/m3	U
API-2(500472002) - A.P. Gross Beta	7-Jan-20	BETA	3.31E-02	2.41E-03	3.08E-03	1.00E-02	2.41E-03	pCi/m3	
API-2(501152002) - A.P. Gross Beta	14-Jan-20	BETA	3.18E-02	2.53E-03	3.35E-03	1.00E-02	2.54E-03	pCi/m3	
API-2(501849002) - A.P. Gross Beta	21-Jan-20	BETA	4.35E-02	2.92E-03	3.38E-03	1.00E-02	2.92E-03	pCi/m3	
API-2(502476002) - A.P. Gross Beta	28-Jan-20	BETA	3.40E-02	2.51E-03	3.01E-03	1.00E-02	2.51E-03	pCi/m3	
API-2(503325002) - A.P. Gross Beta	4-Feb-20	BETA	2.50E-02	2.29E-03	3.28E-03	1.00E-02	2.29E-03	pCi/m3	
API-2(504027002) - A.P. Gross Beta	11-Feb-20	BETA	2.78E-02	2.38E-03	3.26E-03	1.00E-02	2.39E-03	pCi/m3	
API-2(504675002) - A.P. Gross Beta	18-Feb-20	BETA	3.14E-02	2.46E-03	3.28E-03	1.00E-02	2.46E-03	pCi/m3	

## API-2

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(505312002) - A.P. Gross Beta	25-Feb-20	BETA	4.07E-02	2.73E-03	3.15E-03	1.00E-02	2.74E-03	pCi/m3	
API-2(505963002) - A.P. Gross Beta	3-Mar-20	BETA	3.18E-02	2.45E-03	3.05E-03	1.00E-02	2.46E-03	pCi/m3	
API-2(506595002) - A.P. Gross Beta	10-Mar-20	BETA	2.92E-02	2.37E-03	3.07E-03	1.00E-02	2.37E-03	pCi/m3	
API-2(507213002) - A.P. Gross Beta	17-Mar-20	BETA	2.78E-02	2.40E-03	3.36E-03	1.00E-02	2.40E-03	pCi/m3	
API-2(507791002) - A.P. Gross Beta	24-Mar-20	BETA	2.97E-02	2.48E-03	3.45E-03	1.00E-02	2.48E-03	pCi/m3	
API-2(508669002) - A.P. Gross Beta	31-Mar-20	BETA	1.91E-02	2.01E-03	3.22E-03	1.00E-02	2.01E-03	pCi/m3	
API-2(509001002) - A.P. Gross Beta	7-Apr-20	BETA	2.05E-02	2.05E-03	3.20E-03	1.00E-02	2.05E-03	pCi/m3	
API-2(509503002) - A.P. Gross Beta	14-Apr-20	BETA	3.42E-02	2.64E-03	3.45E-03	1.00E-02	2.64E-03	pCi/m3	
API-2(509976002) - A.P. Gross Beta	21-Apr-20	BETA	3.37E-02	2.58E-03	3.23E-03	1.00E-02	2.58E-03	pCi/m3	
API-2(510318002) - A.P. Gross Beta	28-Apr-20	BETA	3.79E-02	2.77E-03	3.67E-03	1.00E-02	2.78E-03	pCi/m3	
API-2(510728002) - A.P. Gross Beta	5-May-20	BETA	2.60E-02	2.45E-03	4.11E-03	1.00E-02	2.45E-03	pCi/m3	
API-2(511882002) - A.P. Gross Beta	13-May-20	BETA	2.61E-02	2.15E-03	2.80E-03	1.00E-02	2.16E-03	pCi/m3	
API-2(511857002) - A.P. Gross Beta	20-May-20	BETA	3.38E-02	2.59E-03	3.29E-03	1.00E-02	2.59E-03	pCi/m3	
API-2(512286002) - A.P. Gross Beta	26-May-20	BETA	3.16E-02	2.79E-03	3.96E-03	1.00E-02	2.79E-03	pCi/m3	
API-2(512737002) - A.P. Gross Beta	2-Jun-20	BETA	3.07E-02	2.54E-03	3.44E-03	1.00E-02	2.54E-03	pCi/m3	
API-2(513176002) - A.P. Gross Beta	9-Jun-20	BETA	3.00E-02	2.44E-03	3.29E-03	1.00E-02	2.44E-03	pCi/m3	
API-2(513961002) - A.P. Gross Beta	16-Jun-20	BETA	2.91E-02	2.47E-03	3.37E-03	1.00E-02	2.47E-03	pCi/m3	
API-2(514377002) - A.P. Gross Beta	23-Jun-20	BETA	3.40E-02	2.55E-03	3.13E-03	1.00E-02	2.55E-03	pCi/m3	
API-2(514802002) - A.P. Gross Beta	28-Jun-20	BETA	2.80E-02	3.05E-03	5.33E-03	1.00E-02	3.05E-03	pCi/m3	
API-2(515270002) - A.P. Gross Beta	7-Jul-20	BETA	3.35E-02	2.27E-03	2.82E-03	1.00E-02	2.28E-03	pCi/m3	
API-2(516045002) - A.P. Gross Beta	15-Jul-20	BETA	3.03E-02	2.29E-03	2.92E-03	1.00E-02	2.29E-03	pCi/m3	
API-2(516530002) - A.P. Gross Beta	21-Jul-20	BETA	3.98E-02	3.08E-03	3.86E-03	1.00E-02	3.09E-03	pCi/m3	
API-2(517198002) - A.P. Gross Beta	29-Jul-20	BETA	2.62E-02	2.19E-03	2.94E-03	1.00E-02	2.19E-03	pCi/m3	
API-2(517698002) - A.P. Gross Beta	4-Aug-20	BETA	2.75E-02	2.53E-03	3.58E-03	1.00E-02	2.53E-03	pCi/m3	
API-2(518171002) - A.P. Gross Beta	11-Aug-20	BETA	2.80E-02	2.56E-03	4.27E-03	1.00E-02	2.56E-03	pCi/m3	
API-2(519104002) - A.P. Gross Beta	18-Aug-20	BETA	2.97E-02	2.54E-03	3.89E-03	1.00E-02	2.55E-03	pCi/m3	
API-2(519829002) - A.P. Gross Beta	25-Aug-20	BETA	4.09E-02	2.85E-03	3.42E-03	1.00E-02	2.85E-03	pCi/m3	
API-2(520260002) - A.P. Gross Beta	1-Sep-20	BETA	3.22E-02	2.55E-03	3.35E-03	1.00E-02	2.56E-03	pCi/m3	
API-2(520976002) - A.P. Gross Beta	8-Sep-20	BETA	3.70E-02	2.75E-03	3.40E-03	1.00E-02	2.75E-03	pCi/m3	
API-2(521492002) - A.P. Gross Beta	15-Sep-20	BETA	2.93E-02	2.39E-03	3.11E-03	1.00E-02	2.39E-03	pCi/m3	
API-2(522112002) - A.P. Gross Beta	22-Sep-20	BETA	2.70E-02	2.38E-03	3.40E-03	1.00E-02	2.38E-03	pCi/m3	
API-2(522851002) - A.P. Gross Beta	29-Sep-20	BETA	5.88E-02	3.34E-03	3.38E-03	1.00E-02	3.35E-03	pCi/m3	
API-2(523556002) - A.P. Gross Beta	6-Oct-20	BETA	1.87E-02	1.99E-03	3.09E-03	1.00E-02	1.99E-03	pCi/m3	
API-2(524214002) - A.P. Gross Beta	13-Oct-20	BETA	3.69E-02	2.69E-03	3.20E-03	1.00E-02	2.69E-03	pCi/m3	
API-2(524977002) - A.P. Gross Beta	20-Oct-20	BETA	3.39E-02	2.57E-03	3.11E-03	1.00E-02	2.57E-03	pCi/m3	
API-2(525681002) - A.P. Gross Beta	27-Oct-20	BETA	2.69E-02	2.36E-03	3.32E-03	1.00E-02	2.36E-03	pCi/m3	

API-2

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(526368002) - A.P. Gross Beta	3-Nov-20	BETA	4.14E-02	2.80E-03	2.96E-03	1.00E-02	2.80E-03	pCi/m3	
API-2(527137002) - A.P. Gross Beta	10-Nov-20	BETA	5.61E-02	3.28E-03	3.41E-03	1.00E-02	3.29E-03	pCi/m3	
API-2(527819002) - A.P. Gross Beta	17-Nov-20	BETA	4.32E-02	3.01E-03	3.62E-03	1.00E-02	3.02E-03	pCi/m3	
API-2(528737002) - A.P. Gross Beta	24-Nov-20	BETA	3.18E-02	2.49E-03	3.19E-03	1.00E-02	2.49E-03	pCi/m3	
API-2(528995002) - A.P. Gross Beta	1-Dec-20	BETA	3.97E-02	2.83E-03	3.46E-03	1.00E-02	2.83E-03	pCi/m3	
API-2(529575002) - A.P. Gross Beta	8-Dec-20	BETA	2.65E-02	2.29E-03	3.12E-03	1.00E-02	2.30E-03	pCi/m3	
API-2(530340002) - A.P. Gross Beta	15-Dec-20	BETA	5.80E-02	3.29E-03	3.24E-03	1.00E-02	3.29E-03	pCi/m3	
API-2(530830002) - A.P. Gross Beta	22-Dec-20	BETA	4.32E-02	2.89E-03	3.41E-03	1.00E-02	2.89E-03	pCi/m3	
API-2(531069002) - A.P. Gross Beta	29-Dec-20	BETA	2.88E-02	2.43E-03	3.27E-03	1.00E-02	2.43E-03	pCi/m3	
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Barium-140	2.49E-04	4.46E-03	1.35E-02		4.46E-03	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Barium-140	-7.07E-03	8.76E-03	2.75E-02		8.91E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Barium-140	1.15E-03	2.46E-03	8.53E-03		2.47E-03	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Beryllium-7	7.94E-02	5.68E-03	5.19E-03		6.95E-03	pCi/m3	
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Beryllium-7	8.31E-02	7.62E-03	9.15E-03		8.56E-03	pCi/m3	
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Beryllium-7	5.08E-02	4.96E-03	5.91E-03		5.50E-03	pCi/m3	
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cerium-141	-3.72E-04	3.57E-04	1.09E-03		3.67E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cerium-141	2.29E-04	5.25E-04	1.77E-03		5.28E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cerium-141	6.12E-04	5.06E-04	9.58E-04		5.07E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cerium-144	-7.75E-05	7.71E-04	2.33E-03		7.71E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cerium-144	-9.88E-04	1.01E-03	3.20E-03		1.04E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cerium-144	-4.81E-04	7.02E-04	2.20E-03		7.11E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cesium-134	1.95E-04	1.43E-04	5.38E-04	5.00E-02	1.51E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cesium-134	2.20E-04	2.51E-04	8.96E-04	5.00E-02	2.57E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cesium-134	-1.44E-04	1.56E-04	4.46E-04	5.00E-02	1.60E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cesium-137	2.61E-04	1.32E-04	5.16E-04	6.00E-02	1.45E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cesium-137	-3.09E-06	2.61E-04	8.58E-04	6.00E-02	2.61E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cesium-137	-6.41E-05	1.53E-04	4.82E-04	6.00E-02	1.53E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Chromium-51	-6.51E-04	2.39E-03	8.00E-03		2.39E-03	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Chromium-51	8.80E-04	4.50E-03	1.43E-02		4.51E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Chromium-51	1.73E-03	2.24E-03	7.38E-03		2.28E-03	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cobalt-57	1.19E-04	8.69E-05	3.05E-04		9.12E-05	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cobalt-57	1.84E-04	1.18E-04	4.20E-04		1.25E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cobalt-57	-9.96E-05	9.13E-05	2.81E-04		9.43E-05	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Cobalt-58	-4.10E-04	2.79E-04	6.00E-04		2.95E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Cobalt-58	1.35E-04	3.92E-04	1.31E-03		3.93E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Cobalt-58	-3.52E-06	2.51E-04	7.96E-04		2.51E-04	pCi/m3	U

API-2

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Iodine-131	-3.48E-03	3.21E-03	1.01E-02		3.31E-03	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Iodine-131	5.70E-03	7.20E-03	2.60E-02		7.32E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Iodine-131	-2.56E-03	1.67E-03	5.14E-03		1.78E-03	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Iron-59	-1.45E-03	6.43E-04	1.56E-03		7.30E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Iron-59	4.46E-04	8.32E-04	2.99E-03		8.39E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Iron-59	1.13E-03	5.05E-04	2.05E-03		5.72E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	-3.34E-03	1.53E-03	2.29E-03		1.72E-03	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	-6.50E-03	3.69E-03	8.59E-03		3.99E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	6.41E-05	1.04E-03	3.48E-03		1.04E-03	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Manganese-54	-1.89E-04	1.53E-04	4.50E-04		1.59E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Manganese-54	1.72E-04	3.30E-04	1.02E-03		3.32E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Manganese-54	-1.23E-04	1.82E-04	5.47E-04		1.84E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Niobium-95	-1.38E-04	2.12E-04	6.22E-04		2.15E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Niobium-95	4.40E-04	3.80E-04	1.37E-03		3.94E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Niobium-95	3.86E-04	2.11E-04	8.05E-04		2.30E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Potassium-40	1.79E-02	4.12E-03	5.23E-03		4.22E-03	pCi/m3	
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Potassium-40	5.21E-03	4.40E-03	5.21E-03		4.43E-03	pCi/m3	UI
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Potassium-40	1.23E-02	4.00E-03	4.95E-03		4.05E-03	pCi/m3	
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	-7.09E-04	2.44E-04	5.87E-04		2.96E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	3.56E-04	4.05E-04	1.35E-03		4.14E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	-5.29E-05	2.17E-04	7.15E-04		2.17E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	3.88E-03	1.67E-03	6.34E-03		1.91E-03	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	1.18E-03	1.82E-03	6.41E-03		1.84E-03	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	8.15E-04	1.27E-03	4.45E-03		1.28E-03	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Selenium-75	2.28E-04	2.12E-04	7.04E-04		2.18E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Selenium-75	2.32E-04	2.68E-04	9.05E-04		2.73E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Selenium-75	9.04E-05	2.13E-04	6.88E-04		2.14E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Silver-108m	3.01E-05	1.08E-04	3.69E-04		1.09E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Silver-108m	-7.91E-05	2.24E-04	6.53E-04		2.25E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Silver-108m	3.33E-05	1.24E-04	4.28E-04		1.24E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Silver-110m	-2.97E-04	2.32E-04	6.74E-04		2.42E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Silver-110m	-3.17E-04	4.20E-04	1.05E-03		4.27E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Silver-110m	-9.91E-05	2.60E-04	8.03E-04		2.61E-04	pCi/m3	U
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Zinc-65	9.45E-05	3.68E-04	1.26E-03		3.69E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Zinc-65	6.38E-04	6.50E-04	2.41E-03		6.67E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Zinc-65	4.86E-04	4.31E-04	1.55E-03		4.46E-04	pCi/m3	U

## API-2

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(517029002) - A.P. Gross Beta	28-Jun-20	Zirconium-95	-6.99E-05	3.82E-04	1.19E-03		3.82E-04	pCi/m3	U
API-2(526477002) - A.P. Gross Beta	29-Sep-20	Zirconium-95	-8.10E-04	6.69E-04	1.89E-03		6.96E-04	pCi/m3	U
API-2(533263002) - A.P. Gross Beta	29-Dec-20	Zirconium-95	-5.13E-04	3.37E-04	8.90E-04		3.58E-04	pCi/m3	U

## API-2

## A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	1.79E-03	1.35E-03	2.79E-03		1.41E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	-2.54E-04	5.80E-04	1.82E-03		5.83E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	-3.17E-04	4.47E-04	1.45E-03		4.53E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	-3.57E-03	3.89E-03	1.22E-02		3.98E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	6.69E-02	5.54E-03	6.51E-03		6.45E-03	pCi/m3	
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	-4.93E-04	3.94E-04	1.27E-03		4.10E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	-1.36E-03	8.05E-04	2.57E-03		8.65E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	-7.17E-05	2.06E-04	6.33E-04	5.00E-02	2.07E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	1.07E-04	1.72E-04	5.77E-04	6.00E-02	1.74E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	2.70E-03	2.92E-03	9.70E-03		2.99E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	-1.19E-04	1.09E-04	3.58E-04		1.12E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	-4.06E-04	2.13E-04	6.31E-04		2.34E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	3.11E-03	3.23E-03	1.14E-02		3.31E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	-4.16E-04	5.58E-04	1.72E-03		5.66E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	1.68E-03	1.55E-03	5.55E-03		1.60E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	-1.09E-04	2.01E-04	6.07E-04		2.03E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	2.51E-04	2.29E-04	7.35E-04		2.37E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	4.83E-03	3.47E-03	4.83E-03		3.54E-03	pCi/m3	UI
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	6.76E-04	2.68E-04	9.89E-04		3.12E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	1.93E-03	3.15E-03	4.96E-03		3.15E-03	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	-2.39E-04	2.40E-04	7.45E-04		2.46E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-6.59E-06	1.35E-04	4.50E-04		1.35E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	-2.17E-04	2.51E-04	7.92E-04		2.57E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	8.70E-05	4.33E-04	1.25E-03		4.33E-04	pCi/m3	U
API-2(510543002) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	3.03E-04	3.57E-04	1.27E-03		3.64E-04	pCi/m3	U

## API-3

## A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(500472009) - A.C. Iodine	7-Jan-20	Iodine-131	-1.10E-03	4.59E-03	1.51E-02	7.00E-02	4.60E-03	pCi/m3	U
API-3(501152009) - A.C. Iodine	14-Jan-20	Iodine-131	1.38E-03	2.99E-03	1.05E-02	7.00E-02	3.00E-03	pCi/m3	U
API-3(501849009) - A.C. Iodine	21-Jan-20	Iodine-131	3.70E-03	2.48E-03	9.40E-03	7.00E-02	2.62E-03	pCi/m3	U
API-3(502476009) - A.C. Iodine	28-Jan-20	Iodine-131	2.97E-03	2.91E-03	1.05E-02	7.00E-02	2.99E-03	pCi/m3	U
API-3(503325009) - A.C. Iodine	4-Feb-20	Iodine-131	7.14E-03	5.16E-03	8.55E-03	7.00E-02	5.17E-03	pCi/m3	U
API-3(504027009) - A.C. Iodine	11-Feb-20	Iodine-131	4.30E-04	2.46E-03	7.82E-03	7.00E-02	2.46E-03	pCi/m3	U
API-3(504675009) - A.C. Iodine	18-Feb-20	Iodine-131	3.73E-03	3.44E-03	1.27E-02	7.00E-02	3.55E-03	pCi/m3	U
API-3(505312009) - A.C. Iodine	25-Feb-20	Iodine-131	-1.67E-03	4.40E-03	1.29E-02	7.00E-02	4.42E-03	pCi/m3	U
API-3(505963009) - A.C. Iodine	3-Mar-20	Iodine-131	-6.09E-04	5.02E-03	1.69E-02	7.00E-02	5.03E-03	pCi/m3	U
API-3(506595009) - A.C. Iodine	10-Mar-20	Iodine-131	-3.68E-03	4.03E-03	1.21E-02	7.00E-02	4.13E-03	pCi/m3	U
API-3(507213009) - A.C. Iodine	17-Mar-20	Iodine-131	1.55E-03	4.15E-03	1.44E-02	7.00E-02	4.16E-03	pCi/m3	U
API-3(507791009) - A.C. Iodine	24-Mar-20	Iodine-131	-5.80E-03	3.29E-03	8.16E-03	7.00E-02	3.56E-03	pCi/m3	U
API-3(508669009) - A.C. Iodine	31-Mar-20	Iodine-131	-9.63E-04	2.54E-03	7.23E-03	7.00E-02	2.55E-03	pCi/m3	U
API-3(509001009) - A.C. Iodine	7-Apr-20	Iodine-131	2.74E-03	2.68E-03	9.87E-03	7.00E-02	2.75E-03	pCi/m3	U
API-3(509503009) - A.C. Iodine	14-Apr-20	Iodine-131	2.24E-03	3.18E-03	1.15E-02	7.00E-02	3.22E-03	pCi/m3	U
API-3(509976009) - A.C. Iodine	21-Apr-20	Iodine-131	-1.45E-02	5.25E-03	1.33E-02	7.00E-02	6.24E-03	pCi/m3	U
API-3(510318009) - A.C. Iodine	28-Apr-20	Iodine-131	-2.77E-03	4.17E-03	1.28E-02	7.00E-02	4.22E-03	pCi/m3	U
API-3(510728009) - A.C. Iodine	5-May-20	Iodine-131	-7.15E-04	3.76E-03	1.17E-02	7.00E-02	3.76E-03	pCi/m3	U
API-3(511882009) - A.C. Iodine	13-May-20	Iodine-131	1.49E-03	5.68E-03	1.96E-02	7.00E-02	5.69E-03	pCi/m3	U
API-3(511857009) - A.C. Iodine	20-May-20	Iodine-131	-3.96E-03	3.12E-03	7.71E-03	7.00E-02	3.25E-03	pCi/m3	U
API-3(512286009) - A.C. Iodine	26-May-20	Iodine-131	-3.11E-03	3.54E-03	1.09E-02	7.00E-02	3.62E-03	pCi/m3	U
API-3(512737009) - A.C. Iodine	2-Jun-20	Iodine-131	-1.01E-03	3.98E-03	1.29E-02	7.00E-02	3.99E-03	pCi/m3	U
API-3(513176009) - A.C. Iodine	9-Jun-20	Iodine-131	5.80E-04	2.37E-03	8.24E-03	7.00E-02	2.38E-03	pCi/m3	U
API-3(513961009) - A.C. Iodine	16-Jun-20	Iodine-131	-1.71E-03	3.62E-03	1.14E-02	7.00E-02	3.64E-03	pCi/m3	U
API-3(514377009) - A.C. Iodine	23-Jun-20	Iodine-131	-3.73E-04	3.83E-03	1.28E-02	7.00E-02	3.83E-03	pCi/m3	U
API-3(514802009) - A.C. Iodine	28-Jun-20	Iodine-131	4.64E-03	8.70E-03	2.71E-02	7.00E-02	8.77E-03	pCi/m3	U
API-3(515270009) - A.C. Iodine	7-Jul-20	Iodine-131	-2.67E-03	3.84E-03	1.17E-02	7.00E-02	3.89E-03	pCi/m3	U
API-3(516045009) - A.C. Iodine	15-Jul-20	Iodine-131	1.45E-02	5.85E-03	2.50E-02	7.00E-02	6.77E-03	pCi/m3	U
API-3(516530009) - A.C. Iodine	21-Jul-20	Iodine-131	-5.23E-03	3.44E-03	9.66E-03	7.00E-02	3.66E-03	pCi/m3	U
API-3(517198009) - A.C. Iodine	29-Jul-20	Iodine-131	5.93E-04	5.51E-03	1.62E-02	7.00E-02	5.51E-03	pCi/m3	U
API-3(517698009) - A.C. Iodine	4-Aug-20	Iodine-131	-8.10E-03	3.90E-03	7.17E-03	7.00E-02	4.34E-03	pCi/m3	U
API-3(518171009) - A.C. Iodine	11-Aug-20	Iodine-131	3.56E-03	2.73E-03	9.79E-03	7.00E-02	2.85E-03	pCi/m3	U
API-3(519104009) - A.C. Iodine	18-Aug-20	Iodine-131	1.05E-02	7.35E-03	1.05E-02	7.00E-02	7.37E-03	pCi/m3	UI
API-3(519829009) - A.C. Iodine	25-Aug-20	Iodine-131	1.76E-03	3.41E-03	1.22E-02	7.00E-02	3.44E-03	pCi/m3	U
API-3(520260009) - A.C. Iodine	1-Sep-20	Iodine-131	-1.36E-03	3.22E-03	1.03E-02	7.00E-02	3.23E-03	pCi/m3	U
API-3(520976009) - A.C. Iodine	8-Sep-20	Iodine-131	-1.56E-03	3.55E-03	1.15E-02	7.00E-02	3.57E-03	pCi/m3	U



## API-3

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(521492009) - A.C. Iodine	15-Sep-20	Iodine-131	1.06E-03	2.64E-03	8.83E-03	7.00E-02	2.65E-03	pCi/m3	U
API-3(522112009) - A.C. Iodine	22-Sep-20	Iodine-131	-5.27E-03	4.48E-03	1.29E-02	7.00E-02	4.65E-03	pCi/m3	U
API-3(522851009) - A.C. Iodine	29-Sep-20	Iodine-131	3.89E-03	2.75E-03	1.04E-02	7.00E-02	2.89E-03	pCi/m3	U
API-3(523556009) - A.C. Iodine	6-Oct-20	Iodine-131	-5.36E-03	3.39E-03	8.62E-03	7.00E-02	3.61E-03	pCi/m3	U
API-3(524214009) - A.C. Iodine	13-Oct-20	Iodine-131	-1.41E-04	2.46E-03	8.30E-03	7.00E-02	2.46E-03	pCi/m3	U
API-3(524977009) - A.C. Iodine	20-Oct-20	Iodine-131	8.99E-03	8.39E-03	8.99E-03	7.00E-02	8.42E-03	pCi/m3	UI
API-3(525681009) - A.C. Iodine	27-Oct-20	Iodine-131	-1.53E-03	3.47E-03	1.11E-02	7.00E-02	3.49E-03	pCi/m3	U
API-3(526368009) - A.C. Iodine	3-Nov-20	Iodine-131	-1.92E-03	3.27E-03	1.04E-02	7.00E-02	3.31E-03	pCi/m3	U
API-3(527137009) - A.C. Iodine	10-Nov-20	Iodine-131	-2.55E-03	3.17E-03	8.52E-03	7.00E-02	3.22E-03	pCi/m3	U
API-3(527819009) - A.C. Iodine	17-Nov-20	Iodine-131	4.46E-03	3.46E-03	1.25E-02	7.00E-02	3.61E-03	pCi/m3	U
API-3(528737009) - A.C. Iodine	24-Nov-20	Iodine-131	3.61E-03	2.98E-03	1.12E-02	7.00E-02	3.09E-03	pCi/m3	U
API-3(528995009) - A.C. Iodine	1-Dec-20	Iodine-131	-1.58E-03	4.15E-03	1.29E-02	7.00E-02	4.17E-03	pCi/m3	U
API-3(529575009) - A.C. Iodine	8-Dec-20	Iodine-131	8.39E-04	2.94E-03	1.02E-02	7.00E-02	2.95E-03	pCi/m3	U
API-3(530340009) - A.C. Iodine	15-Dec-20	Iodine-131	6.39E-05	2.47E-03	8.36E-03	7.00E-02	2.47E-03	pCi/m3	U
API-3(530830009) - A.C. Iodine	22-Dec-20	Iodine-131	-2.44E-04	3.33E-03	1.07E-02	7.00E-02	3.33E-03	pCi/m3	U
API-3(531069009) - A.C. Iodine	29-Dec-20	Iodine-131	-2.46E-03	4.82E-03	1.51E-02	7.00E-02	4.86E-03	pCi/m3	U

## API-3

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Actinium-228	2.79E-03	9.95E-04	2.79E-03		1.25E-03	pCi/m3	UI
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Actinium-228	6.86E-04	8.13E-04	2.82E-03		8.29E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Actinium-228	1.71E-03	6.99E-04	2.71E-03		8.07E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Antimony-124	6.59E-04	5.71E-04	2.08E-03		5.92E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Antimony-124	3.87E-04	5.57E-04	2.04E-03		5.64E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Antimony-124	2.50E-04	5.09E-04	1.81E-03		5.12E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Antimony-125	6.64E-04	3.68E-04	1.30E-03		4.00E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Antimony-125	-1.08E-04	3.78E-04	1.18E-03		3.79E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Antimony-125	5.64E-04	3.56E-04	1.26E-03		3.79E-04	pCi/m3	U
API-3(500472003) - A.P. Gross Beta	7-Jan-20	BETA	3.90E-02	2.49E-03	2.75E-03	1.00E-02	2.50E-03	pCi/m3	
API-3(501152003) - A.P. Gross Beta	14-Jan-20	BETA	2.59E-02	2.25E-03	3.09E-03	1.00E-02	2.25E-03	pCi/m3	
API-3(501849003) - A.P. Gross Beta	21-Jan-20	BETA	4.02E-02	2.72E-03	3.11E-03	1.00E-02	2.72E-03	pCi/m3	
API-3(502476003) - A.P. Gross Beta	28-Jan-20	BETA	3.06E-02	2.48E-03	3.26E-03	1.00E-02	2.48E-03	pCi/m3	
API-3(503325003) - A.P. Gross Beta	4-Feb-20	BETA	3.57E-02	2.90E-03	3.85E-03	1.00E-02	2.91E-03	pCi/m3	
API-3(504027003) - A.P. Gross Beta	11-Feb-20	BETA	3.58E-02	2.91E-03	3.92E-03	1.00E-02	2.91E-03	pCi/m3	
API-3(504675003) - A.P. Gross Beta	18-Feb-20	BETA	2.91E-02	2.42E-03	3.25E-03	1.00E-02	2.42E-03	pCi/m3	

## API-3

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(505312003) - A.P. Gross Beta	25-Feb-20	BETA	5.29E-02	3.14E-03	3.28E-03	1.00E-02	3.15E-03	pCi/m3	
API-3(505963003) - A.P. Gross Beta	3-Mar-20	BETA	3.65E-02	2.67E-03	3.27E-03	1.00E-02	2.68E-03	pCi/m3	
API-3(506595003) - A.P. Gross Beta	10-Mar-20	BETA	2.95E-02	2.45E-03	3.30E-03	1.00E-02	2.45E-03	pCi/m3	
API-3(507213003) - A.P. Gross Beta	17-Mar-20	BETA	3.89E-02	2.99E-03	3.68E-03	1.00E-02	2.99E-03	pCi/m3	
API-3(507791003) - A.P. Gross Beta	24-Mar-20	BETA	3.62E-02	2.58E-03	3.05E-03	1.00E-02	2.59E-03	pCi/m3	
API-3(508669003) - A.P. Gross Beta	31-Mar-20	BETA	2.60E-02	2.31E-03	3.27E-03	1.00E-02	2.31E-03	pCi/m3	
API-3(509001003) - A.P. Gross Beta	7-Apr-20	BETA	1.98E-02	2.09E-03	3.36E-03	1.00E-02	2.09E-03	pCi/m3	
API-3(509503003) - A.P. Gross Beta	14-Apr-20	BETA	2.86E-02	2.39E-03	3.34E-03	1.00E-02	2.39E-03	pCi/m3	
API-3(509976003) - A.P. Gross Beta	21-Apr-20	BETA	4.35E-02	3.13E-03	3.73E-03	1.00E-02	3.14E-03	pCi/m3	
API-3(510318003) - A.P. Gross Beta	28-Apr-20	BETA	3.27E-02	2.48E-03	3.02E-03	1.00E-02	2.48E-03	pCi/m3	
API-3(510728003) - A.P. Gross Beta	5-May-20	BETA	2.34E-02	2.18E-03	3.27E-03	1.00E-02	2.19E-03	pCi/m3	
API-3(511882003) - A.P. Gross Beta	13-May-20	BETA	2.46E-02	2.12E-03	2.86E-03	1.00E-02	2.12E-03	pCi/m3	
API-3(511857003) - A.P. Gross Beta	20-May-20	BETA	2.88E-02	2.38E-03	3.17E-03	1.00E-02	2.38E-03	pCi/m3	
API-3(512286003) - A.P. Gross Beta	26-May-20	BETA	2.99E-02	2.75E-03	3.95E-03	1.00E-02	2.75E-03	pCi/m3	
API-3(512737003) - A.P. Gross Beta	2-Jun-20	BETA	2.60E-02	2.33E-03	3.39E-03	1.00E-02	2.34E-03	pCi/m3	
API-3(513176003) - A.P. Gross Beta	9-Jun-20	BETA	3.15E-02	2.60E-03	3.89E-03	1.00E-02	2.60E-03	pCi/m3	
API-3(513961003) - A.P. Gross Beta	16-Jun-20	BETA	2.10E-02	2.15E-03	3.36E-03	1.00E-02	2.15E-03	pCi/m3	
API-3(514377003) - A.P. Gross Beta	23-Jun-20	BETA	2.91E-02	2.50E-03	3.74E-03	1.00E-02	2.50E-03	pCi/m3	
API-3(514802003) - A.P. Gross Beta	28-Jun-20	BETA	3.02E-02	3.09E-03	4.87E-03	1.00E-02	3.09E-03	pCi/m3	
API-3(515270003) - A.P. Gross Beta	7-Jul-20	BETA	2.81E-02	2.11E-03	2.61E-03	1.00E-02	2.11E-03	pCi/m3	
API-3(516045003) - A.P. Gross Beta	15-Jul-20	BETA	2.91E-02	2.21E-03	2.80E-03	1.00E-02	2.21E-03	pCi/m3	
API-3(516530003) - A.P. Gross Beta	21-Jul-20	BETA	3.77E-02	2.96E-03	3.83E-03	1.00E-02	2.97E-03	pCi/m3	
API-3(517198003) - A.P. Gross Beta	29-Jul-20	BETA	2.53E-02	2.13E-03	2.93E-03	1.00E-02	2.13E-03	pCi/m3	
API-3(517698003) - A.P. Gross Beta	4-Aug-20	BETA	2.64E-02	2.67E-03	4.56E-03	1.00E-02	2.67E-03	pCi/m3	
API-3(518171003) - A.P. Gross Beta	11-Aug-20	BETA	2.59E-02	2.39E-03	3.51E-03	1.00E-02	2.39E-03	pCi/m3	
API-3(519104003) - A.P. Gross Beta	18-Aug-20	BETA	3.48E-02	2.70E-03	3.56E-03	1.00E-02	2.70E-03	pCi/m3	
API-3(519829003) - A.P. Gross Beta	25-Aug-20	BETA	4.10E-02	2.80E-03	3.27E-03	1.00E-02	2.81E-03	pCi/m3	
API-3(520260003) - A.P. Gross Beta	1-Sep-20	BETA	2.99E-02	2.43E-03	3.17E-03	1.00E-02	2.43E-03	pCi/m3	
API-3(520976003) - A.P. Gross Beta	8-Sep-20	BETA	3.98E-02	2.80E-03	3.39E-03	1.00E-02	2.80E-03	pCi/m3	
API-3(521492003) - A.P. Gross Beta	15-Sep-20	BETA	2.34E-02	2.30E-03	3.72E-03	1.00E-02	2.30E-03	pCi/m3	
API-3(522112003) - A.P. Gross Beta	22-Sep-20	BETA	3.05E-02	2.43E-03	3.13E-03	1.00E-02	2.43E-03	pCi/m3	
API-3(522851003) - A.P. Gross Beta	29-Sep-20	BETA	5.23E-02	3.12E-03	3.17E-03	1.00E-02	3.12E-03	pCi/m3	
API-3(523556003) - A.P. Gross Beta	6-Oct-20	BETA	2.34E-02	2.26E-03	3.50E-03	1.00E-02	2.26E-03	pCi/m3	
API-3(524214003) - A.P. Gross Beta	13-Oct-20	BETA	2.75E-02	2.36E-03	3.30E-03	1.00E-02	2.36E-03	pCi/m3	
API-3(524977003) - A.P. Gross Beta	20-Oct-20	BETA	3.19E-02	2.58E-03	3.50E-03	1.00E-02	2.59E-03	pCi/m3	
API-3(525681003) - A.P. Gross Beta	27-Oct-20	BETA	2.36E-02	2.18E-03	3.06E-03	1.00E-02	2.18E-03	pCi/m3	

API-3

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(526368003) - A.P. Gross Beta	3-Nov-20	BETA	3.54E-02	2.74E-03	3.75E-03	1.00E-02	2.75E-03	pCi/m3	
API-3(527137003) - A.P. Gross Beta	10-Nov-20	BETA	5.02E-02	3.06E-03	3.15E-03	1.00E-02	3.07E-03	pCi/m3	
API-3(527819003) - A.P. Gross Beta	17-Nov-20	BETA	3.45E-02	2.70E-03	3.55E-03	1.00E-02	2.70E-03	pCi/m3	
API-3(528737003) - A.P. Gross Beta	24-Nov-20	BETA	3.30E-02	2.61E-03	3.59E-03	1.00E-02	2.61E-03	pCi/m3	
API-3(528995003) - A.P. Gross Beta	1-Dec-20	BETA	3.45E-02	2.63E-03	3.40E-03	1.00E-02	2.63E-03	pCi/m3	
API-3(529575003) - A.P. Gross Beta	8-Dec-20	BETA	2.50E-02	2.30E-03	3.29E-03	1.00E-02	2.30E-03	pCi/m3	
API-3(530340003) - A.P. Gross Beta	15-Dec-20	BETA	5.34E-02	3.11E-03	3.14E-03	1.00E-02	3.12E-03	pCi/m3	
API-3(530830003) - A.P. Gross Beta	22-Dec-20	BETA	4.36E-02	2.84E-03	3.09E-03	1.00E-02	2.85E-03	pCi/m3	
API-3(531069003) - A.P. Gross Beta	29-Dec-20	BETA	3.42E-02	2.64E-03	3.34E-03	1.00E-02	2.64E-03	pCi/m3	
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Barium-140	-1.92E-03	3.11E-03	1.01E-02		3.14E-03	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Barium-140	-3.56E-03	4.38E-03	1.38E-02		4.46E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Barium-140	3.67E-04	2.13E-03	6.87E-03		2.13E-03	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Beryllium-7	8.20E-02	5.67E-03	5.80E-03		6.99E-03	pCi/m3	
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Beryllium-7	7.12E-02	5.82E-03	6.24E-03		6.74E-03	pCi/m3	
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Beryllium-7	5.28E-02	3.94E-03	4.81E-03		4.63E-03	pCi/m3	
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cerium-141	8.78E-05	3.70E-04	1.17E-03		3.71E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cerium-141	-6.87E-04	3.54E-04	1.09E-03		3.89E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cerium-141	7.43E-05	2.59E-04	8.87E-04		2.59E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cerium-144	-6.18E-04	7.57E-04	2.28E-03		7.70E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cerium-144	-3.13E-04	7.25E-04	2.43E-03		7.29E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cerium-144	-1.40E-04	5.83E-04	1.96E-03		5.84E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cesium-134	3.14E-04	1.69E-04	6.20E-04	5.00E-02	1.84E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cesium-134	-1.67E-04	1.66E-04	4.90E-04	5.00E-02	1.71E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cesium-134	-2.23E-04	2.13E-04	4.91E-04	5.00E-02	2.19E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cesium-137	-2.66E-05	1.51E-04	4.97E-04	6.00E-02	1.52E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cesium-137	4.27E-05	1.69E-04	5.48E-04	6.00E-02	1.69E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cesium-137	1.79E-05	1.61E-04	5.46E-04	6.00E-02	1.61E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Chromium-51	-9.40E-04	2.50E-03	8.03E-03		2.51E-03	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Chromium-51	2.01E-03	2.83E-03	9.65E-03		2.87E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Chromium-51	-8.70E-05	1.90E-03	6.19E-03		1.90E-03	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cobalt-57	7.33E-05	9.20E-05	3.03E-04		9.36E-05	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cobalt-57	-1.22E-05	8.81E-05	3.00E-04		8.81E-05	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cobalt-57	-2.34E-05	7.50E-05	2.53E-04		7.52E-05	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Cobalt-58	-2.18E-04	2.19E-04	6.64E-04		2.25E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Cobalt-58	6.56E-05	1.89E-04	6.48E-04		1.90E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Cobalt-58	-4.18E-04	1.86E-04	4.99E-04		2.11E-04	pCi/m3	U

API-3

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Iodine-131	-1.09E-03	3.24E-03	1.03E-02		3.25E-03	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Iodine-131	9.29E-03	5.18E-03	1.87E-02		5.62E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Iodine-131	7.87E-04	1.57E-03	5.25E-03		1.58E-03	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Iron-59	-4.01E-04	4.48E-04	1.38E-03		4.58E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Iron-59	2.78E-04	5.36E-04	1.85E-03		5.40E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Iron-59	6.42E-04	4.33E-04	1.63E-03		4.59E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	-2.66E-03	1.39E-03	3.39E-03		1.53E-03	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	-1.74E-03	2.30E-03	6.82E-03		2.34E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	-1.41E-03	8.58E-04	2.15E-03		9.20E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Manganese-54	-3.69E-04	1.60E-04	4.26E-04		1.83E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Manganese-54	3.64E-04	2.19E-04	3.64E-04		2.21E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Manganese-54	-2.40E-04	1.64E-04	4.78E-04		1.73E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Niobium-95	7.08E-06	1.81E-04	5.96E-04		1.81E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Niobium-95	6.61E-05	2.59E-04	7.77E-04		2.60E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Niobium-95	2.25E-05	1.96E-04	6.62E-04		1.97E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Potassium-40	7.79E-03	2.97E-03	4.90E-03		3.00E-03	pCi/m3	
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Potassium-40	6.11E-03	4.53E-03	6.96E-03		4.54E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Potassium-40	1.13E-02	4.16E-03	5.06E-03		4.20E-03	pCi/m3	
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	4.53E-05	2.15E-04	7.40E-04		2.15E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	-1.34E-04	2.92E-04	8.91E-04		2.94E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	2.16E-04	2.08E-04	7.14E-04		2.14E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	1.45E-03	1.22E-03	4.37E-03		1.27E-03	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	8.04E-04	1.39E-03	4.86E-03		1.40E-03	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	4.71E-04	1.18E-03	4.11E-03		1.19E-03	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Selenium-75	1.06E-04	2.02E-04	6.86E-04		2.03E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Selenium-75	-5.27E-05	1.97E-04	6.40E-04		1.97E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Selenium-75	1.27E-07	1.89E-04	5.91E-04		1.89E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Silver-108m	9.99E-05	1.13E-04	3.82E-04		1.16E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Silver-108m	4.02E-06	1.33E-04	4.27E-04		1.33E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Silver-108m	1.53E-04	1.03E-04	3.67E-04		1.09E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Silver-110m	-1.28E-04	2.03E-04	5.22E-04		2.06E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Silver-110m	-2.71E-04	2.41E-04	6.91E-04		2.49E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Silver-110m	-4.54E-05	1.66E-04	5.11E-04		1.66E-04	pCi/m3	U
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Zinc-65	-2.97E-04	3.89E-04	1.23E-03		3.95E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Zinc-65	1.15E-04	3.17E-04	1.07E-03		3.18E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Zinc-65	5.88E-05	3.39E-04	1.12E-03		3.39E-04	pCi/m3	U

API-3

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(517029003) - A.P. Gross Beta	28-Jun-20	Zirconium-95	-2.03E-04	3.11E-04	9.62E-04		3.14E-04	pCi/m3	U
API-3(526477003) - A.P. Gross Beta	29-Sep-20	Zirconium-95	5.65E-04	3.94E-04	1.47E-03		4.16E-04	pCi/m3	U
API-3(533263003) - A.P. Gross Beta	29-Dec-20	Zirconium-95	-5.53E-05	2.92E-04	9.59E-04		2.93E-04	pCi/m3	U

API-3

A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	1.20E-03	9.45E-04	2.55E-03		9.87E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	-4.08E-04	4.92E-04	1.43E-03		5.02E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	4.37E-04	3.35E-04	1.22E-03		3.51E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	-1.37E-03	2.89E-03	9.31E-03		2.91E-03	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	6.88E-02	4.71E-03	4.84E-03		5.76E-03	pCi/m3	
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	-5.72E-05	3.28E-04	9.30E-04		3.28E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	4.31E-04	7.11E-04	2.35E-03		7.18E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	3.16E-04	1.62E-04	6.16E-04	5.00E-02	1.78E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	-3.44E-07	1.30E-04	4.29E-04	6.00E-02	1.30E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	3.23E-03	2.20E-03	8.07E-03		2.33E-03	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	3.76E-05	8.48E-05	2.79E-04		8.53E-05	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	-1.45E-04	1.73E-04	5.13E-04		1.76E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	1.12E-03	2.34E-03	8.17E-03		2.35E-03	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	-1.93E-04	4.51E-04	1.36E-03		4.53E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	-1.68E-04	1.56E-03	4.03E-03		1.56E-03	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	1.09E-04	1.47E-04	5.11E-04		1.49E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	1.67E-04	1.63E-04	5.87E-04		1.67E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	8.27E-03	3.49E-03	4.07E-03		3.52E-03	pCi/m3	
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	-4.91E-05	2.27E-04	7.51E-04		2.27E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	2.29E-03	1.27E-03	4.74E-03		1.38E-03	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	8.17E-05	1.87E-04	5.99E-04		1.88E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-6.98E-05	9.57E-05	3.06E-04		9.71E-05	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	8.80E-05	1.68E-04	5.80E-04		1.69E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	3.02E-04	3.37E-04	1.19E-03		3.44E-04	pCi/m3	U
API-3(510543003) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	3.19E-04	3.16E-04	1.10E-03		3.24E-04	pCi/m3	U

API-4

A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(500472010) - A.C. Iodine	7-Jan-20	Iodine-131	3.14E-03	7.54E-03	2.74E-02	7.00E-02	7.57E-03	pCi/m3	U
API-4(501152010) - A.C. Iodine	14-Jan-20	Iodine-131	1.06E-03	2.02E-03	7.24E-03	7.00E-02	2.04E-03	pCi/m3	U
API-4(501849010) - A.C. Iodine	21-Jan-20	Iodine-131	1.12E-03	2.94E-03	1.01E-02	7.00E-02	2.95E-03	pCi/m3	U
API-4(502476010) - A.C. Iodine	28-Jan-20	Iodine-131	1.85E-03	2.23E-03	8.13E-03	7.00E-02	2.27E-03	pCi/m3	U
API-4(503325010) - A.C. Iodine	4-Feb-20	Iodine-131	2.98E-03	4.29E-03	1.50E-02	7.00E-02	4.35E-03	pCi/m3	U
API-4(504027010) - A.C. Iodine	11-Feb-20	Iodine-131	-3.35E-03	2.96E-03	8.47E-03	7.00E-02	3.06E-03	pCi/m3	U
API-4(504675010) - A.C. Iodine	18-Feb-20	Iodine-131	2.10E-03	3.19E-03	1.11E-02	7.00E-02	3.22E-03	pCi/m3	U
API-4(505312010) - A.C. Iodine	25-Feb-20	Iodine-131	3.44E-03	4.00E-03	1.49E-02	7.00E-02	4.08E-03	pCi/m3	U
API-4(505963010) - A.C. Iodine	3-Mar-20	Iodine-131	-3.76E-03	2.76E-03	8.01E-03	7.00E-02	2.89E-03	pCi/m3	U
API-4(506595010) - A.C. Iodine	10-Mar-20	Iodine-131	5.98E-03	3.90E-03	1.55E-02	7.00E-02	4.14E-03	pCi/m3	U
API-4(507213010) - A.C. Iodine	17-Mar-20	Iodine-131	8.36E-04	5.37E-03	1.85E-02	7.00E-02	5.38E-03	pCi/m3	U
API-4(507791010) - A.C. Iodine	24-Mar-20	Iodine-131	2.51E-03	3.97E-03	1.44E-02	7.00E-02	4.01E-03	pCi/m3	U
API-4(508669010) - A.C. Iodine	31-Mar-20	Iodine-131	4.26E-03	2.96E-03	1.11E-02	7.00E-02	3.13E-03	pCi/m3	U
API-4(509001010) - A.C. Iodine	7-Apr-20	Iodine-131	4.46E-04	2.72E-03	8.91E-03	7.00E-02	2.72E-03	pCi/m3	U
API-4(509503010) - A.C. Iodine	14-Apr-20	Iodine-131	4.48E-03	2.79E-03	1.08E-02	7.00E-02	2.98E-03	pCi/m3	U
API-4(509976010) - A.C. Iodine	21-Apr-20	Iodine-131	1.60E-03	4.71E-03	1.67E-02	7.00E-02	4.73E-03	pCi/m3	U
API-4(510318010) - A.C. Iodine	28-Apr-20	Iodine-131	-4.19E-03	4.49E-03	1.25E-02	7.00E-02	4.60E-03	pCi/m3	U
API-4(510728010) - A.C. Iodine	5-May-20	Iodine-131	1.19E-03	3.82E-03	1.35E-02	7.00E-02	3.83E-03	pCi/m3	U
API-4(511882010) - A.C. Iodine	13-May-20	Iodine-131	-4.52E-03	6.66E-03	1.89E-02	7.00E-02	6.75E-03	pCi/m3	U
API-4(511857010) - A.C. Iodine	20-May-20	Iodine-131	-5.06E-03	4.74E-03	1.40E-02	7.00E-02	4.89E-03	pCi/m3	U
API-4(512286010) - A.C. Iodine	26-May-20	Iodine-131	3.66E-03	4.16E-03	1.47E-02	7.00E-02	4.25E-03	pCi/m3	U
API-4(512737010) - A.C. Iodine	2-Jun-20	Iodine-131	7.44E-04	4.25E-03	1.47E-02	7.00E-02	4.25E-03	pCi/m3	U
API-4(513176010) - A.C. Iodine	9-Jun-20	Iodine-131	-4.51E-03	2.43E-03	6.65E-03	7.00E-02	2.65E-03	pCi/m3	U
API-4(513961010) - A.C. Iodine	16-Jun-20	Iodine-131	4.54E-03	5.41E-03	1.95E-02	7.00E-02	5.52E-03	pCi/m3	U
API-4(514377010) - A.C. Iodine	23-Jun-20	Iodine-131	-1.11E-03	3.76E-03	1.17E-02	7.00E-02	3.76E-03	pCi/m3	U
API-4(514802010) - A.C. Iodine	28-Jun-20	Iodine-131	-2.38E-04	6.29E-03	2.11E-02	7.00E-02	6.29E-03	pCi/m3	U
API-4(515270010) - A.C. Iodine	7-Jul-20	Iodine-131	7.86E-03	4.00E-03	1.05E-02	7.00E-02	4.02E-03	pCi/m3	U
API-4(516045010) - A.C. Iodine	15-Jul-20	Iodine-131	1.03E-02	5.67E-03	2.27E-02	7.00E-02	6.15E-03	pCi/m3	U
API-4(516530010) - A.C. Iodine	21-Jul-20	Iodine-131	3.09E-04	3.50E-03	1.20E-02	7.00E-02	3.50E-03	pCi/m3	U
API-4(517198010) - A.C. Iodine	29-Jul-20	Iodine-131	1.21E-02	6.01E-03	1.43E-02	7.00E-02	6.04E-03	pCi/m3	U
API-4(517698010) - A.C. Iodine	4-Aug-20	Iodine-131	5.28E-04	2.82E-03	9.80E-03	7.00E-02	2.82E-03	pCi/m3	U
API-4(518171010) - A.C. Iodine	11-Aug-20	Iodine-131	7.11E-03	3.76E-03	1.12E-02	7.00E-02	3.77E-03	pCi/m3	U
API-4(519104010) - A.C. Iodine	18-Aug-20	Iodine-131	1.51E-04	3.57E-03	1.22E-02	7.00E-02	3.57E-03	pCi/m3	U
API-4(519829010) - A.C. Iodine	25-Aug-20	Iodine-131	-3.46E-03	3.10E-03	8.78E-03	7.00E-02	3.21E-03	pCi/m3	U
API-4(520260010) - A.C. Iodine	1-Sep-20	Iodine-131	5.31E-03	3.33E-03	1.24E-02	7.00E-02	3.55E-03	pCi/m3	U
API-4(520976010) - A.C. Iodine	8-Sep-20	Iodine-131	6.53E-04	2.77E-03	9.60E-03	7.00E-02	2.77E-03	pCi/m3	U

## API-4

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(521492010) - A.C. Iodine	15-Sep-20	Iodine-131	1.86E-03	2.69E-03	9.70E-03	7.00E-02	2.72E-03	pCi/m3	U
API-4(522112010) - A.C. Iodine	22-Sep-20	Iodine-131	-1.58E-03	3.48E-03	1.13E-02	7.00E-02	3.50E-03	pCi/m3	U
API-4(522851010) - A.C. Iodine	29-Sep-20	Iodine-131	1.74E-03	3.02E-03	9.58E-03	7.00E-02	3.05E-03	pCi/m3	U
API-4(523556010) - A.C. Iodine	6-Oct-20	Iodine-131	1.35E-03	3.26E-03	1.15E-02	7.00E-02	3.28E-03	pCi/m3	U
API-4(524214010) - A.C. Iodine	13-Oct-20	Iodine-131	-1.29E-03	4.16E-03	1.38E-02	7.00E-02	4.17E-03	pCi/m3	U
API-4(524977010) - A.C. Iodine	20-Oct-20	Iodine-131	5.65E-04	3.34E-03	1.10E-02	7.00E-02	3.35E-03	pCi/m3	U
API-4(525681010) - A.C. Iodine	27-Oct-20	Iodine-131	4.99E-03	3.65E-03	1.36E-02	7.00E-02	3.83E-03	pCi/m3	U
API-4(526368010) - A.C. Iodine	3-Nov-20	Iodine-131	1.96E-04	3.19E-03	1.04E-02	7.00E-02	3.19E-03	pCi/m3	U
API-4(527137010) - A.C. Iodine	10-Nov-20	Iodine-131	3.12E-03	3.03E-03	1.08E-02	7.00E-02	3.12E-03	pCi/m3	U
API-4(527819010) - A.C. Iodine	17-Nov-20	Iodine-131	9.12E-03	4.06E-03	9.12E-03	7.00E-02	4.13E-03	pCi/m3	UI
API-4(528737010) - A.C. Iodine	24-Nov-20	Iodine-131	5.08E-03	4.02E-03	1.32E-02	7.00E-02	4.19E-03	pCi/m3	U
API-4(528995010) - A.C. Iodine	1-Dec-20	Iodine-131	1.66E-03	3.90E-03	1.36E-02	7.00E-02	3.92E-03	pCi/m3	U
API-4(529575010) - A.C. Iodine	8-Dec-20	Iodine-131	2.98E-03	2.82E-03	1.04E-02	7.00E-02	2.90E-03	pCi/m3	U
API-4(530340010) - A.C. Iodine	15-Dec-20	Iodine-131	-1.07E-03	3.66E-03	1.01E-02	7.00E-02	3.67E-03	pCi/m3	U
API-4(530830010) - A.C. Iodine	22-Dec-20	Iodine-131	-5.00E-04	2.29E-03	6.94E-03	7.00E-02	2.30E-03	pCi/m3	U
API-4(531069010) - A.C. Iodine	29-Dec-20	Iodine-131	2.81E-03	5.22E-03	1.77E-02	7.00E-02	5.26E-03	pCi/m3	U

## API-4

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Actinium-228	1.25E-03	8.69E-04	2.34E-03		9.18E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Actinium-228	-1.95E-04	6.67E-04	2.16E-03		6.68E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Actinium-228	7.29E-04	6.95E-04	2.08E-03		7.16E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Antimony-124	-5.34E-04	4.44E-04	1.05E-03		4.61E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Antimony-124	4.09E-04	6.17E-04	2.26E-03		6.25E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Antimony-124	-3.04E-04	4.51E-04	1.31E-03		4.57E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Antimony-125	9.44E-05	2.74E-04	9.28E-04		2.75E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Antimony-125	8.78E-05	3.44E-04	1.19E-03		3.45E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Antimony-125	-1.45E-04	2.85E-04	9.39E-04		2.87E-04	pCi/m3	U
API-4(500472004) - A.P. Gross Beta	7-Jan-20	BETA	3.34E-02	2.35E-03	2.78E-03	1.00E-02	2.35E-03	pCi/m3	
API-4(501152004) - A.P. Gross Beta	14-Jan-20	BETA	2.88E-02	2.43E-03	3.40E-03	1.00E-02	2.43E-03	pCi/m3	
API-4(501849004) - A.P. Gross Beta	21-Jan-20	BETA	3.84E-02	2.76E-03	3.44E-03	1.00E-02	2.76E-03	pCi/m3	
API-4(502476004) - A.P. Gross Beta	28-Jan-20	BETA	4.04E-02	3.05E-03	3.81E-03	1.00E-02	3.05E-03	pCi/m3	
API-4(503325004) - A.P. Gross Beta	4-Feb-20	BETA	3.28E-02	2.55E-03	3.16E-03	1.00E-02	2.56E-03	pCi/m3	
API-4(504027004) - A.P. Gross Beta	11-Feb-20	BETA	3.34E-02	2.60E-03	3.37E-03	1.00E-02	2.60E-03	pCi/m3	

API-4

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(504675004) - A.P. Gross Beta	18-Feb-20	BETA	3.53E-02	2.89E-03	3.91E-03	1.00E-02	2.89E-03	pCi/m3	
API-4(505312004) - A.P. Gross Beta	25-Feb-20	BETA	6.02E-02	3.65E-03	4.03E-03	1.00E-02	3.66E-03	pCi/m3	
API-4(505963004) - A.P. Gross Beta	3-Mar-20	BETA	4.12E-02	3.09E-03	3.84E-03	1.00E-02	3.09E-03	pCi/m3	
API-4(506595004) - A.P. Gross Beta	10-Mar-20	BETA	3.74E-02	2.96E-03	3.82E-03	1.00E-02	2.96E-03	pCi/m3	
API-4(507213004) - A.P. Gross Beta	17-Mar-20	BETA	3.79E-02	2.73E-03	3.25E-03	1.00E-02	2.73E-03	pCi/m3	
API-4(507791004) - A.P. Gross Beta	24-Mar-20	BETA	3.61E-02	2.68E-03	3.33E-03	1.00E-02	2.68E-03	pCi/m3	
API-4(508669004) - A.P. Gross Beta	31-Mar-20	BETA	2.52E-02	2.49E-03	3.73E-03	1.00E-02	2.50E-03	pCi/m3	
API-4(509001004) - A.P. Gross Beta	7-Apr-20	BETA	2.50E-02	2.51E-03	3.88E-03	1.00E-02	2.51E-03	pCi/m3	
API-4(509503004) - A.P. Gross Beta	14-Apr-20	BETA	2.89E-02	2.39E-03	3.18E-03	1.00E-02	2.40E-03	pCi/m3	
API-4(509976004) - A.P. Gross Beta	21-Apr-20	BETA	3.27E-02	2.58E-03	3.42E-03	1.00E-02	2.58E-03	pCi/m3	
API-4(510318004) - A.P. Gross Beta	28-Apr-20	BETA	3.27E-02	2.57E-03	3.32E-03	1.00E-02	2.57E-03	pCi/m3	
API-4(510728004) - A.P. Gross Beta	5-May-20	BETA	2.87E-02	2.41E-03	3.30E-03	1.00E-02	2.41E-03	pCi/m3	
API-4(511882004) - A.P. Gross Beta	13-May-20	BETA	2.58E-02	2.15E-03	2.88E-03	1.00E-02	2.15E-03	pCi/m3	
API-4(511857004) - A.P. Gross Beta	20-May-20	BETA	3.92E-02	2.76E-03	3.20E-03	1.00E-02	2.76E-03	pCi/m3	
API-4(512286004) - A.P. Gross Beta	26-May-20	BETA	3.56E-02	2.89E-03	3.81E-03	1.00E-02	2.89E-03	pCi/m3	
API-4(512737004) - A.P. Gross Beta	2-Jun-20	BETA	3.47E-02	2.58E-03	3.29E-03	1.00E-02	2.59E-03	pCi/m3	
API-4(513176004) - A.P. Gross Beta	9-Jun-20	BETA	3.92E-02	2.82E-03	3.45E-03	1.00E-02	2.82E-03	pCi/m3	
API-4(513961004) - A.P. Gross Beta	16-Jun-20	BETA	2.68E-02	2.31E-03	3.18E-03	1.00E-02	2.31E-03	pCi/m3	
API-4(514377004) - A.P. Gross Beta	23-Jun-20	BETA	3.80E-02	2.78E-03	3.38E-03	1.00E-02	2.79E-03	pCi/m3	
API-4(514802004) - A.P. Gross Beta	28-Jun-20	BETA	3.50E-02	3.17E-03	4.44E-03	1.00E-02	3.17E-03	pCi/m3	
API-4(515270004) - A.P. Gross Beta	7-Jul-20	BETA	3.69E-02	2.34E-03	2.62E-03	1.00E-02	2.35E-03	pCi/m3	
API-4(516045004) - A.P. Gross Beta	15-Jul-20	BETA	3.81E-02	2.57E-03	3.16E-03	1.00E-02	2.57E-03	pCi/m3	
API-4(516530004) - A.P. Gross Beta	21-Jul-20	BETA	4.23E-02	3.05E-03	3.59E-03	1.00E-02	3.05E-03	pCi/m3	
API-4(517198004) - A.P. Gross Beta	29-Jul-20	BETA	3.54E-02	2.40E-03	2.71E-03	1.00E-02	2.40E-03	pCi/m3	
API-4(517698004) - A.P. Gross Beta	4-Aug-20	BETA	3.15E-02	2.79E-03	3.91E-03	1.00E-02	2.79E-03	pCi/m3	
API-4(518171004) - A.P. Gross Beta	11-Aug-20	BETA	3.80E-02	2.76E-03	3.42E-03	1.00E-02	2.77E-03	pCi/m3	
API-4(519104004) - A.P. Gross Beta	18-Aug-20	BETA	3.70E-02	2.71E-03	3.42E-03	1.00E-02	2.72E-03	pCi/m3	
API-4(519829004) - A.P. Gross Beta	25-Aug-20	BETA	4.80E-02	2.92E-03	3.07E-03	1.00E-02	2.93E-03	pCi/m3	
API-4(520260004) - A.P. Gross Beta	1-Sep-20	BETA	3.48E-02	2.71E-03	3.78E-03	1.00E-02	2.71E-03	pCi/m3	
API-4(520976004) - A.P. Gross Beta	8-Sep-20	BETA	4.06E-02	2.77E-03	3.16E-03	1.00E-02	2.77E-03	pCi/m3	
API-4(521492004) - A.P. Gross Beta	15-Sep-20	BETA	3.05E-02	2.50E-03	3.33E-03	1.00E-02	2.50E-03	pCi/m3	
API-4(522112004) - A.P. Gross Beta	22-Sep-20	BETA	3.51E-02	2.72E-03	3.78E-03	1.00E-02	2.73E-03	pCi/m3	
API-4(522851004) - A.P. Gross Beta	29-Sep-20	BETA	4.98E-02	2.98E-03	3.02E-03	1.00E-02	2.98E-03	pCi/m3	
API-4(523556004) - A.P. Gross Beta	6-Oct-20	BETA	2.63E-02	2.39E-03	3.43E-03	1.00E-02	2.39E-03	pCi/m3	
API-4(524214004) - A.P. Gross Beta	13-Oct-20	BETA	3.51E-02	2.57E-03	3.01E-03	1.00E-02	2.57E-03	pCi/m3	
API-4(524977004) - A.P. Gross Beta	20-Oct-20	BETA	3.47E-02	2.67E-03	3.33E-03	1.00E-02	2.68E-03	pCi/m3	



## API-4

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(525681004) - A.P. Gross Beta	27-Oct-20	BETA	2.65E-02	2.25E-03	2.85E-03	1.00E-02	2.25E-03	pCi/m3	
API-4(526368004) - A.P. Gross Beta	3-Nov-20	BETA	4.10E-02	2.88E-03	3.45E-03	1.00E-02	2.88E-03	pCi/m3	
API-4(527137004) - A.P. Gross Beta	10-Nov-20	BETA	5.95E-02	3.22E-03	2.85E-03	1.00E-02	3.23E-03	pCi/m3	
API-4(527819004) - A.P. Gross Beta	17-Nov-20	BETA	4.82E-02	2.98E-03	3.19E-03	1.00E-02	2.98E-03	pCi/m3	
API-4(528737004) - A.P. Gross Beta	24-Nov-20	BETA	4.65E-02	3.03E-03	3.46E-03	1.00E-02	3.03E-03	pCi/m3	
API-4(528995004) - A.P. Gross Beta	1-Dec-20	BETA	3.62E-02	2.62E-03	3.20E-03	1.00E-02	2.63E-03	pCi/m3	
API-4(529575004) - A.P. Gross Beta	8-Dec-20	BETA	3.54E-02	2.68E-03	3.30E-03	1.00E-02	2.68E-03	pCi/m3	
API-4(530340004) - A.P. Gross Beta	15-Dec-20	BETA	7.49E-02	3.74E-03	3.41E-03	1.00E-02	3.75E-03	pCi/m3	
API-4(530830004) - A.P. Gross Beta	22-Dec-20	BETA	5.01E-02	3.07E-03	3.25E-03	1.00E-02	3.07E-03	pCi/m3	
API-4(531069004) - A.P. Gross Beta	29-Dec-20	BETA	3.73E-02	2.71E-03	3.41E-03	1.00E-02	2.72E-03	pCi/m3	
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Barium-140	-2.59E-03	3.10E-03	9.34E-03		3.16E-03	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Barium-140	3.42E-03	4.77E-03	1.69E-02		4.84E-03	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Barium-140	-2.40E-03	1.95E-03	5.86E-03		2.03E-03	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Beryllium-7	9.26E-02	5.33E-03	5.76E-03		7.03E-03	pCi/m3	
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Beryllium-7	1.18E-01	7.50E-03	7.36E-03		9.43E-03	pCi/m3	
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Beryllium-7	5.81E-02	5.39E-03	4.59E-03		6.09E-03	pCi/m3	
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cerium-141	-3.67E-04	3.11E-04	9.03E-04		3.22E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cerium-141	8.57E-04	6.10E-04	1.24E-03		6.14E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cerium-141	-4.01E-04	2.69E-04	7.39E-04		2.85E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cerium-144	8.24E-04	5.89E-04	1.99E-03		6.20E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cerium-144	8.02E-04	6.46E-04	2.27E-03		6.74E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cerium-144	7.68E-04	6.83E-04	1.79E-03		6.84E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cesium-134	1.53E-05	1.40E-04	4.49E-04	5.00E-02	1.40E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cesium-134	-3.46E-04	1.97E-04	5.14E-04	5.00E-02	2.13E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cesium-134	1.67E-04	2.45E-04	4.88E-04	5.00E-02	2.48E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cesium-137	-5.43E-05	1.34E-04	4.12E-04	6.00E-02	1.34E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cesium-137	-1.20E-04	1.53E-04	4.66E-04	6.00E-02	1.56E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cesium-137	-6.30E-06	1.24E-04	4.09E-04	6.00E-02	1.24E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Chromium-51	-2.57E-03	2.22E-03	6.90E-03		2.30E-03	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Chromium-51	6.34E-05	2.79E-03	8.73E-03		2.79E-03	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Chromium-51	8.98E-05	1.81E-03	5.73E-03		1.81E-03	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cobalt-57	6.92E-05	7.62E-05	2.51E-04		7.78E-05	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cobalt-57	-6.14E-05	7.20E-05	2.25E-04		7.35E-05	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cobalt-57	-2.03E-05	6.48E-05	1.94E-04		6.50E-05	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Cobalt-58	9.64E-05	1.79E-04	6.00E-04		1.80E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Cobalt-58	-1.00E-04	2.56E-04	7.98E-04		2.57E-04	pCi/m3	U

API-4

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Cobalt-58	7.91E-05	1.70E-04	5.84E-04		1.71E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Iodine-131	1.50E-03	2.67E-03	9.17E-03		2.69E-03	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Iodine-131	4.12E-03	4.59E-03	1.67E-02		4.69E-03	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Iodine-131	1.95E-03	1.32E-03	4.64E-03		1.40E-03	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Iron-59	-2.79E-05	4.57E-04	1.52E-03		4.57E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Iron-59	6.13E-04	5.03E-04	1.90E-03		5.24E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Iron-59	2.37E-04	3.92E-04	1.36E-03		3.96E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	-3.42E-03	1.34E-03	2.13E-03		1.56E-03	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	-1.90E-03	2.33E-03	6.79E-03		2.37E-03	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	1.20E-04	6.83E-04	2.35E-03		6.84E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Manganese-54	9.93E-05	1.38E-04	4.97E-04		1.40E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Manganese-54	-3.03E-04	1.76E-04	4.54E-04		1.91E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Manganese-54	2.39E-04	1.40E-04	2.39E-04		1.42E-04	pCi/m3	UI
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Niobium-95	-3.53E-04	2.21E-04	6.01E-04		2.36E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Niobium-95	1.36E-04	1.99E-04	7.02E-04		2.02E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Niobium-95	-1.97E-04	1.56E-04	4.34E-04		1.62E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Potassium-40	9.90E-03	2.59E-03	3.53E-03		2.64E-03	pCi/m3	
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Potassium-40	1.68E-02	4.28E-03	6.33E-03		4.37E-03	pCi/m3	
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Potassium-40	1.01E-02	3.32E-03	4.14E-03		3.36E-03	pCi/m3	
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	4.04E-05	1.78E-04	5.92E-04		1.78E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	-2.57E-04	2.88E-04	9.05E-04		2.94E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	-1.69E-05	1.54E-04	5.15E-04		1.54E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	8.98E-04	1.18E-03	4.06E-03		1.20E-03	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	9.05E-04	1.63E-03	5.62E-03		1.64E-03	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	-3.60E-04	9.63E-04	3.09E-03		9.67E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Selenium-75	-4.57E-05	1.61E-04	5.33E-04		1.61E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Selenium-75	1.35E-04	2.28E-04	7.47E-04		2.30E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Selenium-75	-1.81E-04	1.52E-04	4.40E-04		1.58E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Silver-108m	3.81E-05	8.21E-05	2.81E-04		8.26E-05	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Silver-108m	-4.62E-06	1.03E-04	3.49E-04		1.03E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Silver-108m	4.67E-06	8.71E-05	2.99E-04		8.71E-05	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Silver-110m	-8.79E-05	2.05E-04	6.66E-04		2.06E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Silver-110m	-1.28E-04	2.52E-04	7.65E-04		2.54E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Silver-110m	2.27E-05	1.59E-04	5.29E-04		1.60E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Zinc-65	-2.88E-04	2.51E-04	6.87E-04		2.60E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Zinc-65	1.77E-04	4.13E-04	1.46E-03		4.15E-04	pCi/m3	U

## API-4

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Zinc-65	1.03E-04	2.36E-04	8.14E-04		2.37E-04	pCi/m3	U
API-4(517029004) - A.P. Gross Beta	28-Jun-20	Zirconium-95	-1.33E-05	3.38E-04	1.02E-03		3.38E-04	pCi/m3	U
API-4(526477004) - A.P. Gross Beta	29-Sep-20	Zirconium-95	5.05E-04	3.69E-04	1.39E-03		3.88E-04	pCi/m3	U
API-4(533263004) - A.P. Gross Beta	29-Dec-20	Zirconium-95	-2.39E-04	3.45E-04	1.01E-03		3.49E-04	pCi/m3	U

## API-4

## A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	5.54E-04	5.78E-04	1.93E-03		5.92E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	-1.55E-04	3.34E-04	9.81E-04		3.36E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	-2.52E-05	2.75E-04	9.23E-04		2.75E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	2.46E-03	2.69E-03	9.58E-03		2.75E-03	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	6.54E-02	4.67E-03	4.52E-03		5.59E-03	pCi/m3	
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	-4.26E-04	2.92E-04	8.28E-04		3.08E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	-1.52E-04	4.97E-04	1.58E-03		4.99E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	-1.96E-04	1.49E-04	4.15E-04	5.00E-02	1.56E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	3.50E-05	1.21E-04	3.69E-04	6.00E-02	1.21E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	1.41E-03	1.87E-03	6.68E-03		1.90E-03	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	1.12E-05	6.88E-05	2.26E-04		6.89E-05	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	-1.57E-04	1.65E-04	4.77E-04		1.69E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	1.07E-03	1.88E-03	6.64E-03		1.89E-03	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	1.11E-04	5.37E-04	1.74E-03		5.37E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	-5.42E-04	9.24E-04	2.74E-03		9.33E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	1.24E-04	1.13E-04	4.12E-04		1.16E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	1.74E-04	1.40E-04	5.21E-04		1.46E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	1.11E-02	2.62E-03	5.16E-03		2.67E-03	pCi/m3	
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	8.65E-05	1.74E-04	6.07E-04		1.76E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	8.12E-04	1.26E-03	4.37E-03		1.28E-03	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	-8.91E-06	1.63E-04	5.08E-04		1.63E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-2.09E-06	9.02E-05	3.04E-04		9.02E-05	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	-2.67E-04	2.15E-04	6.02E-04		2.24E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	-2.87E-04	2.92E-04	7.82E-04		3.00E-04	pCi/m3	U
API-4(510543004) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	2.09E-04	2.70E-04	9.57E-04		2.75E-04	pCi/m3	U

API-5

A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(500472011) - A.C. Iodine	7-Jan-20	Iodine-131	-4.16E-03	4.11E-03	9.44E-03	7.00E-02	4.22E-03	pCi/m3	U
API-5(501152011) - A.C. Iodine	14-Jan-20	Iodine-131	2.46E-03	2.35E-03	8.81E-03	7.00E-02	2.41E-03	pCi/m3	U
API-5(501849011) - A.C. Iodine	21-Jan-20	Iodine-131	-2.21E-04	2.87E-03	9.17E-03	7.00E-02	2.87E-03	pCi/m3	U
API-5(502476011) - A.C. Iodine	28-Jan-20	Iodine-131	-5.79E-06	2.40E-03	8.10E-03	7.00E-02	2.40E-03	pCi/m3	U
API-5(503325011) - A.C. Iodine	4-Feb-20	Iodine-131	2.79E-04	3.03E-03	1.03E-02	7.00E-02	3.03E-03	pCi/m3	U
API-5(504027011) - A.C. Iodine	11-Feb-20	Iodine-131	4.94E-05	2.71E-03	9.31E-03	7.00E-02	2.71E-03	pCi/m3	U
API-5(504675011) - A.C. Iodine	18-Feb-20	Iodine-131	9.26E-04	3.52E-03	1.22E-02	7.00E-02	3.53E-03	pCi/m3	U
API-5(505312011) - A.C. Iodine	25-Feb-20	Iodine-131	3.78E-03	4.71E-03	1.75E-02	7.00E-02	4.79E-03	pCi/m3	U
API-5(505963011) - A.C. Iodine	3-Mar-20	Iodine-131	-5.77E-03	2.50E-03	6.54E-03	7.00E-02	2.84E-03	pCi/m3	U
API-5(506595011) - A.C. Iodine	10-Mar-20	Iodine-131	-3.45E-03	3.69E-03	9.10E-03	7.00E-02	3.78E-03	pCi/m3	U
API-5(507213011) - A.C. Iodine	17-Mar-20	Iodine-131	-1.91E-03	3.85E-03	1.23E-02	7.00E-02	3.88E-03	pCi/m3	U
API-5(507791011) - A.C. Iodine	24-Mar-20	Iodine-131	-5.61E-03	4.02E-03	9.73E-03	7.00E-02	4.23E-03	pCi/m3	U
API-5(508669011) - A.C. Iodine	31-Mar-20	Iodine-131	-2.20E-04	2.36E-03	7.90E-03	7.00E-02	2.36E-03	pCi/m3	U
API-5(509001011) - A.C. Iodine	7-Apr-20	Iodine-131	-2.48E-04	2.46E-03	8.01E-03	7.00E-02	2.46E-03	pCi/m3	U
API-5(509503011) - A.C. Iodine	14-Apr-20	Iodine-131	-2.42E-04	2.97E-03	1.01E-02	7.00E-02	2.97E-03	pCi/m3	U
API-5(509976011) - A.C. Iodine	21-Apr-20	Iodine-131	1.00E-03	2.98E-03	9.66E-03	7.00E-02	2.99E-03	pCi/m3	U
API-5(510318011) - A.C. Iodine	28-Apr-20	Iodine-131	6.37E-03	3.68E-03	1.51E-02	7.00E-02	3.97E-03	pCi/m3	U
API-5(510728011) - A.C. Iodine	5-May-20	Iodine-131	8.48E-03	5.32E-03	1.31E-02	7.00E-02	5.33E-03	pCi/m3	U
API-5(511882011) - A.C. Iodine	13-May-20	Iodine-131	-5.83E-04	4.28E-03	1.44E-02	7.00E-02	4.28E-03	pCi/m3	U
API-5(511857011) - A.C. Iodine	20-May-20	Iodine-131	-1.22E-03	5.25E-03	1.73E-02	7.00E-02	5.26E-03	pCi/m3	U
API-5(512286011) - A.C. Iodine	26-May-20	Iodine-131	8.44E-04	3.06E-03	1.06E-02	7.00E-02	3.06E-03	pCi/m3	U
API-5(512737011) - A.C. Iodine	2-Jun-20	Iodine-131	-3.53E-03	4.62E-03	1.39E-02	7.00E-02	4.69E-03	pCi/m3	U
API-5(513176011) - A.C. Iodine	9-Jun-20	Iodine-131	-1.22E-03	2.41E-03	7.57E-03	7.00E-02	2.42E-03	pCi/m3	U
API-5(513961011) - A.C. Iodine	16-Jun-20	Iodine-131	1.14E-03	3.00E-03	1.07E-02	7.00E-02	3.01E-03	pCi/m3	U
API-5(514377011) - A.C. Iodine	23-Jun-20	Iodine-131	-3.77E-03	2.90E-03	7.54E-03	7.00E-02	3.03E-03	pCi/m3	U
API-5(514802011) - A.C. Iodine	28-Jun-20	Iodine-131	-4.85E-03	5.34E-03	1.62E-02	7.00E-02	5.46E-03	pCi/m3	U
API-5(515270011) - A.C. Iodine	7-Jul-20	Iodine-131	-3.48E-03	4.06E-03	1.26E-02	7.00E-02	4.14E-03	pCi/m3	U
API-5(516045011) - A.C. Iodine	15-Jul-20	Iodine-131	8.43E-03	6.17E-03	2.32E-02	7.00E-02	6.48E-03	pCi/m3	U
API-5(516530011) - A.C. Iodine	21-Jul-20	Iodine-131	-4.28E-03	3.58E-03	7.85E-03	7.00E-02	3.72E-03	pCi/m3	U
API-5(517198011) - A.C. Iodine	29-Jul-20	Iodine-131	6.13E-04	5.60E-03	1.91E-02	7.00E-02	5.60E-03	pCi/m3	U
API-5(517698011) - A.C. Iodine	4-Aug-20	Iodine-131	7.53E-03	5.92E-03	2.27E-02	7.00E-02	6.18E-03	pCi/m3	U
API-5(518171011) - A.C. Iodine	11-Aug-20	Iodine-131	2.10E-03	2.64E-03	9.43E-03	7.00E-02	2.69E-03	pCi/m3	U
API-5(519104011) - A.C. Iodine	18-Aug-20	Iodine-131	-2.35E-03	2.85E-03	9.02E-03	7.00E-02	2.91E-03	pCi/m3	U
API-5(519829011) - A.C. Iodine	25-Aug-20	Iodine-131	3.02E-04	3.37E-03	1.10E-02	7.00E-02	3.37E-03	pCi/m3	U
API-5(520260011) - A.C. Iodine	1-Sep-20	Iodine-131	-2.78E-03	3.52E-03	1.10E-02	7.00E-02	3.58E-03	pCi/m3	U
API-5(520976011) - A.C. Iodine	8-Sep-20	Iodine-131	-1.99E-03	3.23E-03	1.02E-02	7.00E-02	3.26E-03	pCi/m3	U

## API-5

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(521492011) - A.C. Iodine	15-Sep-20	Iodine-131	-1.88E-03	3.42E-03	1.10E-02	7.00E-02	3.45E-03	pCi/m3	U
API-5(522112011) - A.C. Iodine	22-Sep-20	Iodine-131	5.13E-03	3.26E-03	1.23E-02	7.00E-02	3.48E-03	pCi/m3	U
API-5(522851011) - A.C. Iodine	29-Sep-20	Iodine-131	-6.42E-04	2.87E-03	8.44E-03	7.00E-02	2.87E-03	pCi/m3	U
API-5(523556011) - A.C. Iodine	6-Oct-20	Iodine-131	-5.65E-03	3.80E-03	1.09E-02	7.00E-02	4.02E-03	pCi/m3	U
API-5(524214011) - A.C. Iodine	13-Oct-20	Iodine-131	-1.82E-03	3.20E-03	1.01E-02	7.00E-02	3.23E-03	pCi/m3	U
API-5(524977011) - A.C. Iodine	20-Oct-20	Iodine-131	8.21E-04	3.28E-03	1.13E-02	7.00E-02	3.28E-03	pCi/m3	U
API-5(525681011) - A.C. Iodine	27-Oct-20	Iodine-131	-2.05E-03	3.23E-03	1.02E-02	7.00E-02	3.26E-03	pCi/m3	U
API-5(526368011) - A.C. Iodine	3-Nov-20	Iodine-131	-1.08E-04	3.28E-03	1.10E-02	7.00E-02	3.28E-03	pCi/m3	U
API-5(527137011) - A.C. Iodine	10-Nov-20	Iodine-131	-2.76E-03	2.38E-03	7.06E-03	7.00E-02	2.47E-03	pCi/m3	U
API-5(527819011) - A.C. Iodine	17-Nov-20	Iodine-131	1.50E-04	4.88E-03	1.68E-02	7.00E-02	4.88E-03	pCi/m3	U
API-5(528737011) - A.C. Iodine	24-Nov-20	Iodine-131	-9.66E-04	3.03E-03	9.87E-03	7.00E-02	3.04E-03	pCi/m3	U
API-5(528995011) - A.C. Iodine	1-Dec-20	Iodine-131	-6.44E-03	3.54E-03	9.40E-03	7.00E-02	3.85E-03	pCi/m3	U
API-5(529575011) - A.C. Iodine	8-Dec-20	Iodine-131	-2.19E-04	1.89E-03	6.35E-03	7.00E-02	1.89E-03	pCi/m3	U
API-5(530340011) - A.C. Iodine	15-Dec-20	Iodine-131	4.27E-04	2.91E-03	9.24E-03	7.00E-02	2.92E-03	pCi/m3	U
API-5(530830011) - A.C. Iodine	22-Dec-20	Iodine-131	2.03E-03	3.03E-03	1.06E-02	7.00E-02	3.06E-03	pCi/m3	U
API-5(531069011) - A.C. Iodine	29-Dec-20	Iodine-131	3.58E-03	4.73E-03	1.73E-02	7.00E-02	4.81E-03	pCi/m3	U

## API-5

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Actinium-228	-5.34E-04	8.60E-04	2.75E-03		8.70E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Actinium-228	-2.64E-04	7.66E-04	2.25E-03		7.69E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Actinium-228	6.40E-04	5.99E-04	2.18E-03		6.18E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Antimony-124	-1.14E-04	5.49E-04	1.76E-03		5.50E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Antimony-124	4.00E-04	6.26E-04	2.30E-03		6.33E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Antimony-124	-4.49E-04	4.05E-04	9.99E-04		4.18E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Antimony-125	-3.20E-04	4.21E-04	1.36E-03		4.27E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Antimony-125	-1.24E-04	4.28E-04	1.33E-03		4.29E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Antimony-125	-4.40E-05	2.91E-04	9.48E-04		2.91E-04	pCi/m3	U
API-5(500472005) - A.P. Gross Beta	7-Jan-20	BETA	4.68E-02	3.02E-03	3.34E-03	1.00E-02	3.02E-03	pCi/m3	
API-5(501152005) - A.P. Gross Beta	14-Jan-20	BETA	3.17E-02	2.79E-03	4.06E-03	1.00E-02	2.79E-03	pCi/m3	
API-5(501849005) - A.P. Gross Beta	21-Jan-20	BETA	4.91E-02	3.35E-03	4.09E-03	1.00E-02	3.36E-03	pCi/m3	
API-5(502476005) - A.P. Gross Beta	28-Jan-20	BETA	4.19E-02	2.84E-03	3.15E-03	1.00E-02	2.84E-03	pCi/m3	
API-5(503325005) - A.P. Gross Beta	4-Feb-20	BETA	2.51E-02	2.22E-03	3.04E-03	1.00E-02	2.22E-03	pCi/m3	
API-5(504027005) - A.P. Gross Beta	11-Feb-20	BETA	2.63E-02	2.29E-03	3.30E-03	1.00E-02	2.29E-03	pCi/m3	
API-5(504675005) - A.P. Gross Beta	18-Feb-20	BETA	3.06E-02	2.49E-03	3.33E-03	1.00E-02	2.49E-03	pCi/m3	

API-5

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(505312005) - A.P. Gross Beta	25-Feb-20	BETA	4.30E-02	2.90E-03	3.47E-03	1.00E-02	2.91E-03	pCi/m3	
API-5(505963005) - A.P. Gross Beta	3-Mar-20	BETA	3.79E-02	2.85E-03	4.26E-03	1.00E-02	2.85E-03	pCi/m3	
API-5(506595005) - A.P. Gross Beta	10-Mar-20	BETA	2.32E-02	2.39E-03	4.30E-03	1.00E-02	2.39E-03	pCi/m3	
API-5(507213005) - A.P. Gross Beta	17-Mar-20	BETA	3.13E-02	2.43E-03	3.09E-03	1.00E-02	2.43E-03	pCi/m3	
API-5(507791005) - A.P. Gross Beta	24-Mar-20	BETA	4.06E-02	3.07E-03	3.96E-03	1.00E-02	3.07E-03	pCi/m3	
API-5(508669005) - A.P. Gross Beta	31-Mar-20	BETA	2.97E-02	2.50E-03	3.70E-03	1.00E-02	2.51E-03	pCi/m3	
API-5(509001005) - A.P. Gross Beta	7-Apr-20	BETA	1.98E-02	2.12E-03	3.52E-03	1.00E-02	2.12E-03	pCi/m3	
API-5(509503005) - A.P. Gross Beta	14-Apr-20	BETA	4.26E-02	3.12E-03	3.77E-03	1.00E-02	3.13E-03	pCi/m3	
API-5(509976005) - A.P. Gross Beta	21-Apr-20	BETA	3.18E-02	2.48E-03	3.31E-03	1.00E-02	2.48E-03	pCi/m3	
API-5(510318005) - A.P. Gross Beta	28-Apr-20	BETA	4.17E-02	3.10E-03	3.77E-03	1.00E-02	3.10E-03	pCi/m3	
API-5(510728005) - A.P. Gross Beta	5-May-20	BETA	2.89E-02	2.64E-03	3.74E-03	1.00E-02	2.64E-03	pCi/m3	
API-5(511882005) - A.P. Gross Beta	13-May-20	BETA	3.33E-02	2.34E-03	2.77E-03	1.00E-02	2.34E-03	pCi/m3	
API-5(511857005) - A.P. Gross Beta	20-May-20	BETA	4.60E-02	3.00E-03	3.29E-03	1.00E-02	3.01E-03	pCi/m3	
API-5(512286005) - A.P. Gross Beta	26-May-20	BETA	4.98E-02	3.29E-03	3.78E-03	1.00E-02	3.30E-03	pCi/m3	
API-5(512737005) - A.P. Gross Beta	2-Jun-20	BETA	4.97E-02	3.14E-03	3.89E-03	1.00E-02	3.14E-03	pCi/m3	
API-5(513176005) - A.P. Gross Beta	9-Jun-20	BETA	7.34E-02	3.66E-03	3.39E-03	1.00E-02	3.67E-03	pCi/m3	
API-5(513961005) - A.P. Gross Beta	16-Jun-20	BETA	5.64E-02	3.26E-03	3.42E-03	1.00E-02	3.27E-03	pCi/m3	
API-5(514377005) - A.P. Gross Beta	23-Jun-20	BETA	7.47E-02	3.68E-03	3.30E-03	1.00E-02	3.69E-03	pCi/m3	
API-5(514802005) - A.P. Gross Beta	28-Jun-20	BETA	7.30E-02	4.31E-03	4.44E-03	1.00E-02	4.31E-03	pCi/m3	
API-5(515270005) - A.P. Gross Beta	7-Jul-20	BETA	7.08E-02	3.10E-03	2.50E-03	1.00E-02	3.11E-03	pCi/m3	
API-5(516045005) - A.P. Gross Beta	15-Jul-20	BETA	7.34E-02	3.45E-03	2.92E-03	1.00E-02	3.46E-03	pCi/m3	
API-5(516530005) - A.P. Gross Beta	21-Jul-20	BETA	8.66E-02	4.32E-03	4.04E-03	1.00E-02	4.33E-03	pCi/m3	
API-5(517198005) - A.P. Gross Beta	29-Jul-20	BETA	7.20E-02	3.43E-03	3.44E-03	1.00E-02	3.44E-03	pCi/m3	
API-5(517698005) - A.P. Gross Beta	4-Aug-20	BETA	5.41E-02	3.46E-03	3.89E-03	1.00E-02	3.46E-03	pCi/m3	
API-5(518171005) - A.P. Gross Beta	11-Aug-20	BETA	7.69E-02	3.71E-03	3.24E-03	1.00E-02	3.72E-03	pCi/m3	
API-5(519104005) - A.P. Gross Beta	18-Aug-20	BETA	9.81E-02	4.15E-03	3.41E-03	1.00E-02	4.16E-03	pCi/m3	
API-5(519829005) - A.P. Gross Beta	25-Aug-20	BETA	1.40E-01	4.95E-03	3.65E-03	1.00E-02	4.98E-03	pCi/m3	
API-5(520260005) - A.P. Gross Beta	1-Sep-20	BETA	1.08E-01	4.48E-03	3.38E-03	1.00E-02	4.49E-03	pCi/m3	
API-5(520976005) - A.P. Gross Beta	8-Sep-20	BETA	1.18E-01	4.63E-03	3.74E-03	1.00E-02	4.65E-03	pCi/m3	
API-5(521492005) - A.P. Gross Beta	15-Sep-20	BETA	2.40E-02	2.26E-03	3.37E-03	1.00E-02	2.26E-03	pCi/m3	
API-5(522112005) - A.P. Gross Beta	22-Sep-20	BETA	3.11E-02	2.54E-03	3.39E-03	1.00E-02	2.54E-03	pCi/m3	
API-5(522851005) - A.P. Gross Beta	29-Sep-20	BETA	5.69E-02	3.28E-03	3.48E-03	1.00E-02	3.29E-03	pCi/m3	
API-5(523556005) - A.P. Gross Beta	6-Oct-20	BETA	2.48E-02	2.26E-03	3.18E-03	1.00E-02	2.27E-03	pCi/m3	
API-5(524214005) - A.P. Gross Beta	13-Oct-20	BETA	4.05E-02	2.79E-03	3.36E-03	1.00E-02	2.80E-03	pCi/m3	
API-5(524977005) - A.P. Gross Beta	20-Oct-20	BETA	3.29E-02	2.61E-03	3.44E-03	1.00E-02	2.61E-03	pCi/m3	
API-5(525681005) - A.P. Gross Beta	27-Oct-20	BETA	2.52E-02	2.35E-03	3.64E-03	1.00E-02	2.35E-03	pCi/m3	

API-5

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(526368005) - A.P. Gross Beta	3-Nov-20	BETA	4.16E-02	2.82E-03	3.15E-03	1.00E-02	2.82E-03	pCi/m3	
API-5(527137005) - A.P. Gross Beta	10-Nov-20	BETA	5.49E-02	3.25E-03	3.64E-03	1.00E-02	3.25E-03	pCi/m3	
API-5(527819005) - A.P. Gross Beta	17-Nov-20	BETA	4.06E-02	2.85E-03	3.60E-03	1.00E-02	2.85E-03	pCi/m3	
API-5(528737005) - A.P. Gross Beta	24-Nov-20	BETA	3.32E-02	2.58E-03	3.40E-03	1.00E-02	2.59E-03	pCi/m3	
API-5(528995005) - A.P. Gross Beta	1-Dec-20	BETA	4.03E-02	2.84E-03	3.59E-03	1.00E-02	2.84E-03	pCi/m3	
API-5(529575005) - A.P. Gross Beta	8-Dec-20	BETA	2.80E-02	2.38E-03	3.19E-03	1.00E-02	2.38E-03	pCi/m3	
API-5(530340005) - A.P. Gross Beta	15-Dec-20	BETA	6.61E-02	3.54E-03	3.30E-03	1.00E-02	3.55E-03	pCi/m3	
API-5(530830005) - A.P. Gross Beta	22-Dec-20	BETA	4.77E-02	3.05E-03	3.36E-03	1.00E-02	3.06E-03	pCi/m3	
API-5(531069005) - A.P. Gross Beta	29-Dec-20	BETA	3.19E-02	2.47E-03	3.07E-03	1.00E-02	2.47E-03	pCi/m3	
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Barium-140	3.41E-03	4.29E-03	1.47E-02		4.36E-03	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Barium-140	-2.68E-03	3.96E-03	1.24E-02		4.01E-03	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Barium-140	-7.77E-05	1.81E-03	5.87E-03		1.81E-03	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Beryllium-7	1.93E-01	8.27E-03	7.86E-03		1.26E-02	pCi/m3	
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Beryllium-7	1.88E-01	8.32E-03	6.51E-03		1.31E-02	pCi/m3	
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Beryllium-7	5.83E-02	5.04E-03	4.26E-03		5.81E-03	pCi/m3	
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cerium-141	2.82E-04	4.38E-04	1.51E-03		4.43E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cerium-141	-2.76E-04	3.87E-04	1.23E-03		3.93E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cerium-141	1.82E-05	3.23E-04	7.63E-04		3.23E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cerium-144	1.39E-03	9.00E-04	3.19E-03		9.57E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cerium-144	4.17E-04	6.73E-04	2.17E-03		6.80E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cerium-144	-1.00E-04	5.21E-04	1.61E-03		5.22E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cesium-134	6.92E-05	1.80E-04	6.18E-04	5.00E-02	1.81E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cesium-134	2.95E-05	1.90E-04	6.26E-04	5.00E-02	1.90E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cesium-134	8.71E-05	1.56E-04	5.24E-04	5.00E-02	1.58E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cesium-137	-4.02E-04	1.87E-04	5.28E-04	6.00E-02	2.10E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cesium-137	3.67E-05	1.51E-04	5.11E-04	6.00E-02	1.52E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cesium-137	-3.71E-05	1.07E-04	3.28E-04	6.00E-02	1.07E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Chromium-51	-6.52E-03	3.94E-03	1.02E-02		4.23E-03	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Chromium-51	3.00E-03	3.08E-03	1.06E-02		3.16E-03	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Chromium-51	5.64E-03	2.34E-03	5.64E-03		2.36E-03	pCi/m3	UI
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cobalt-57	-1.75E-05	1.21E-04	4.10E-04		1.21E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cobalt-57	4.86E-05	8.39E-05	2.72E-04		8.47E-05	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cobalt-57	-1.12E-05	7.12E-05	2.21E-04		7.12E-05	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Cobalt-58	1.35E-04	2.23E-04	7.76E-04		2.26E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Cobalt-58	-9.07E-05	2.02E-04	6.18E-04		2.03E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Cobalt-58	-3.39E-04	1.69E-04	3.97E-04		1.87E-04	pCi/m3	U

API-5

A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Iodine-131	4.65E-03	3.75E-03	1.33E-02		3.90E-03	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Iodine-131	-1.22E-04	4.37E-03	1.40E-02		4.37E-03	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Iodine-131	-1.08E-03	1.18E-03	3.65E-03		1.21E-03	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Iron-59	-8.32E-05	4.93E-04	1.59E-03		4.93E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Iron-59	-1.11E-03	5.57E-04	1.35E-03		6.16E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Iron-59	-2.83E-04	4.09E-04	1.26E-03		4.14E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	-2.98E-03	1.59E-03	4.28E-03		1.74E-03	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	1.66E-03	1.38E-03	5.62E-03		1.44E-03	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	-4.60E-04	7.43E-04	2.14E-03		7.51E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Manganese-54	-5.32E-05	1.90E-04	6.28E-04		1.91E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Manganese-54	-1.05E-04	1.91E-04	5.84E-04		1.92E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Manganese-54	-3.76E-05	1.19E-04	3.90E-04		1.19E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Niobium-95	2.43E-04	2.17E-04	7.79E-04		2.25E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Niobium-95	1.49E-06	2.51E-04	8.18E-04		2.51E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Niobium-95	3.49E-04	2.62E-04	3.49E-04		2.64E-04	pCi/m3	UI
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Potassium-40	9.94E-03	3.77E-03	6.28E-03		3.81E-03	pCi/m3	
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Potassium-40	4.74E-03	3.70E-03	4.74E-03		3.71E-03	pCi/m3	UI
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Potassium-40	4.32E-03	3.46E-03	4.32E-03		3.48E-03	pCi/m3	UI
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	3.93E-04	2.91E-04	1.02E-03		3.05E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	-1.21E-04	2.63E-04	8.59E-04		2.65E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	-8.57E-05	1.63E-04	5.06E-04		1.64E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	-6.28E-04	1.63E-03	5.19E-03		1.64E-03	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	-4.54E-04	1.17E-03	3.73E-03		1.18E-03	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	-1.82E-03	1.21E-03	3.34E-03		1.28E-03	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Selenium-75	-1.86E-04	2.51E-04	7.91E-04		2.55E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Selenium-75	7.31E-06	1.84E-04	6.10E-04		1.84E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Selenium-75	-1.24E-04	1.57E-04	5.06E-04		1.59E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Silver-108m	2.15E-04	1.58E-04	5.03E-04		1.66E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Silver-108m	-2.54E-05	1.15E-04	3.58E-04		1.15E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Silver-108m	-1.06E-04	9.73E-05	2.93E-04		1.00E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Silver-110m	1.40E-04	2.64E-04	9.07E-04		2.66E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Silver-110m	-1.55E-05	2.26E-04	7.20E-04		2.26E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Silver-110m	2.02E-04	1.92E-04	7.09E-04		1.97E-04	pCi/m3	U
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Zinc-65	2.57E-05	3.86E-04	1.10E-03		3.86E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Zinc-65	-9.65E-04	4.53E-04	1.16E-03		5.06E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Zinc-65	2.02E-04	3.04E-04	1.09E-03		3.08E-04	pCi/m3	U



## API-5

## A.P. Gross Beta - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(517029005) - A.P. Gross Beta	28-Jun-20	Zirconium-95	1.02E-03	3.86E-04	1.49E-03		4.56E-04	pCi/m3	U
API-5(526477005) - A.P. Gross Beta	29-Sep-20	Zirconium-95	6.30E-04	3.69E-04	1.34E-03		3.99E-04	pCi/m3	U
API-5(533263005) - A.P. Gross Beta	29-Dec-20	Zirconium-95	5.43E-04	2.93E-04	1.11E-03		3.20E-04	pCi/m3	U

## API-5

## A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	-1.04E-03	6.31E-04	1.67E-03		6.77E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	-1.16E-03	3.87E-04	6.77E-04		4.73E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	-3.92E-04	2.88E-04	7.50E-04		3.02E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	4.98E-03	2.29E-03	8.47E-03		2.57E-03	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	5.68E-02	3.83E-03	3.77E-03		4.58E-03	pCi/m3	
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	-1.49E-03	3.20E-04	7.30E-04		4.72E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	-1.01E-03	4.56E-04	1.32E-03		5.13E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	-9.95E-05	1.15E-04	3.44E-04	5.00E-02	1.18E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	-5.03E-05	1.06E-04	3.34E-04	6.00E-02	1.06E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	8.49E-04	1.57E-03	5.48E-03		1.59E-03	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	-7.14E-05	6.07E-05	1.87E-04		6.30E-05	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	-1.69E-05	1.25E-04	3.97E-04		1.25E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	2.27E-03	1.88E-03	6.67E-03		1.95E-03	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	-3.53E-05	3.10E-04	1.04E-03		3.10E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	1.20E-03	7.92E-04	3.06E-03		8.41E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	-2.87E-06	1.26E-04	4.02E-04		1.26E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	1.98E-04	2.51E-04	5.48E-04		2.52E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	1.01E-02	3.24E-03	3.86E-03		3.29E-03	pCi/m3	
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	2.53E-05	1.63E-04	5.46E-04		1.63E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	-5.19E-06	8.95E-04	2.93E-03		8.95E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	1.28E-04	1.20E-04	4.31E-04		1.24E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-7.34E-05	7.60E-05	2.41E-04		7.79E-05	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	3.15E-05	1.49E-04	4.84E-04		1.49E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	2.52E-04	2.08E-04	7.78E-04		2.16E-04	pCi/m3	U
API-5(510543005) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	-2.33E-04	3.15E-04	8.45E-04		3.20E-04	pCi/m3	U

API-6

A.C. Iodine

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(500472012) - A.C. Iodine	7-Jan-20	Iodine-131	-5.53E-03	4.34E-03	1.11E-02	7.00E-02	4.52E-03	pCi/m3	U
API-6(501152012) - A.C. Iodine	14-Jan-20	Iodine-131	3.69E-03	2.74E-03	1.03E-02	7.00E-02	2.88E-03	pCi/m3	U
API-6(501849012) - A.C. Iodine	21-Jan-20	Iodine-131	8.68E-04	2.54E-03	8.86E-03	7.00E-02	2.55E-03	pCi/m3	U
API-6(502476012) - A.C. Iodine	28-Jan-20	Iodine-131	-2.93E-04	3.04E-03	9.92E-03	7.00E-02	3.04E-03	pCi/m3	U
API-6(503325012) - A.C. Iodine	4-Feb-20	Iodine-131	-2.75E-04	3.07E-03	9.48E-03	7.00E-02	3.07E-03	pCi/m3	U
API-6(504027012) - A.C. Iodine	11-Feb-20	Iodine-131	8.07E-03	3.38E-03	8.07E-03	7.00E-02	3.42E-03	pCi/m3	UI
API-6(504675012) - A.C. Iodine	18-Feb-20	Iodine-131	-6.04E-03	4.36E-03	1.03E-02	7.00E-02	4.58E-03	pCi/m3	U
API-6(505312012) - A.C. Iodine	25-Feb-20	Iodine-131	-9.63E-04	3.32E-03	1.06E-02	7.00E-02	3.33E-03	pCi/m3	U
API-6(505963012) - A.C. Iodine	3-Mar-20	Iodine-131	1.62E-04	2.96E-03	9.60E-03	7.00E-02	2.97E-03	pCi/m3	U
API-6(506595012) - A.C. Iodine	10-Mar-20	Iodine-131	1.93E-03	3.44E-03	1.23E-02	7.00E-02	3.47E-03	pCi/m3	U
API-6(507213012) - A.C. Iodine	17-Mar-20	Iodine-131	1.62E-03	3.65E-03	1.32E-02	7.00E-02	3.67E-03	pCi/m3	U
API-6(507791012) - A.C. Iodine	24-Mar-20	Iodine-131	-2.23E-03	3.87E-03	1.06E-02	7.00E-02	3.91E-03	pCi/m3	U
API-6(508669012) - A.C. Iodine	31-Mar-20	Iodine-131	2.24E-03	2.62E-03	9.21E-03	7.00E-02	2.68E-03	pCi/m3	U
API-6(509001012) - A.C. Iodine	7-Apr-20	Iodine-131	7.12E-03	3.06E-03	1.19E-02	7.00E-02	3.48E-03	pCi/m3	U
API-6(509503012) - A.C. Iodine	14-Apr-20	Iodine-131	-2.25E-03	3.16E-03	9.88E-03	7.00E-02	3.21E-03	pCi/m3	U
API-6(509976012) - A.C. Iodine	21-Apr-20	Iodine-131	-3.64E-03	4.07E-03	1.18E-02	7.00E-02	4.16E-03	pCi/m3	U
API-6(510318012) - A.C. Iodine	28-Apr-20	Iodine-131	2.99E-03	4.70E-03	1.64E-02	7.00E-02	4.75E-03	pCi/m3	U
API-6(510728012) - A.C. Iodine	5-May-20	Iodine-131	-4.42E-04	4.65E-03	1.51E-02	7.00E-02	4.65E-03	pCi/m3	U
API-6(511882012) - A.C. Iodine	13-May-20	Iodine-131	9.28E-03	5.52E-03	2.10E-02	7.00E-02	5.94E-03	pCi/m3	U
API-6(511857012) - A.C. Iodine	20-May-20	Iodine-131	-9.32E-03	1.73E-02	5.73E-02	7.00E-02	1.75E-02	pCi/m3	U
API-6(512286012) - A.C. Iodine	26-May-20	Iodine-131	-1.07E-03	1.54E-02	5.23E-02	7.00E-02	1.54E-02	pCi/m3	U
API-6(512737012) - A.C. Iodine	2-Jun-20	Iodine-131	1.24E-03	3.15E-03	1.12E-02	7.00E-02	3.17E-03	pCi/m3	U
API-6(513176012) - A.C. Iodine	9-Jun-20	Iodine-131	4.17E-03	3.16E-03	1.15E-02	7.00E-02	3.31E-03	pCi/m3	U
API-6(513961012) - A.C. Iodine	16-Jun-20	Iodine-131	2.25E-04	4.67E-03	1.52E-02	7.00E-02	4.67E-03	pCi/m3	U
API-6(514377012) - A.C. Iodine	23-Jun-20	Iodine-131	-7.30E-03	3.03E-03	6.94E-03	7.00E-02	3.48E-03	pCi/m3	U
API-6(514802012) - A.C. Iodine	28-Jun-20	Iodine-131	5.71E-03	6.42E-03	2.38E-02	7.00E-02	6.56E-03	pCi/m3	U
API-6(515270012) - A.C. Iodine	7-Jul-20	Iodine-131	-6.11E-03	3.26E-03	7.28E-03	7.00E-02	3.57E-03	pCi/m3	U
API-6(516045012) - A.C. Iodine	15-Jul-20	Iodine-131	-3.42E-03	1.07E-02	3.55E-02	7.00E-02	1.07E-02	pCi/m3	U
API-6(516530012) - A.C. Iodine	21-Jul-20	Iodine-131	1.72E-03	4.05E-03	1.42E-02	7.00E-02	4.07E-03	pCi/m3	U
API-6(517198012) - A.C. Iodine	29-Jul-20	Iodine-131	-1.22E-03	6.10E-03	1.95E-02	7.00E-02	6.11E-03	pCi/m3	U
API-6(517698012) - A.C. Iodine	4-Aug-20	Iodine-131	1.79E-03	5.09E-03	1.72E-02	7.00E-02	5.10E-03	pCi/m3	U
API-6(518171012) - A.C. Iodine	11-Aug-20	Iodine-131	4.87E-04	3.62E-03	1.24E-02	7.00E-02	3.62E-03	pCi/m3	U
API-6(519104012) - A.C. Iodine	18-Aug-20	Iodine-131	-3.90E-03	2.69E-03	7.90E-03	7.00E-02	2.84E-03	pCi/m3	U
API-6(519829012) - A.C. Iodine	25-Aug-20	Iodine-131	-1.56E-03	3.74E-03	1.07E-02	7.00E-02	3.76E-03	pCi/m3	U
API-6(520260012) - A.C. Iodine	1-Sep-20	Iodine-131	1.22E-03	2.36E-03	8.47E-03	7.00E-02	2.38E-03	pCi/m3	U
API-6(520976012) - A.C. Iodine	8-Sep-20	Iodine-131	-2.72E-03	3.47E-03	1.09E-02	7.00E-02	3.52E-03	pCi/m3	U

## API-6

## A.C. Iodine - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(521492012) - A.C. Iodine	15-Sep-20	Iodine-131	9.14E-04	2.84E-03	9.55E-03	7.00E-02	2.85E-03	pCi/m3	U
API-6(522112012) - A.C. Iodine	22-Sep-20	Iodine-131	-1.72E-03	4.68E-03	1.35E-02	7.00E-02	4.70E-03	pCi/m3	U
API-6(522851012) - A.C. Iodine	29-Sep-20	Iodine-131	-4.70E-03	2.31E-03	5.95E-03	7.00E-02	2.56E-03	pCi/m3	U
API-6(523556012) - A.C. Iodine	6-Oct-20	Iodine-131	-1.70E-03	5.40E-03	1.80E-02	7.00E-02	5.42E-03	pCi/m3	U
API-6(524214012) - A.C. Iodine	13-Oct-20	Iodine-131	-5.55E-03	5.19E-03	1.41E-02	7.00E-02	5.35E-03	pCi/m3	U
API-6(524977012) - A.C. Iodine	20-Oct-20	Iodine-131	3.81E-03	2.79E-03	9.49E-03	7.00E-02	2.93E-03	pCi/m3	U
API-6(525681012) - A.C. Iodine	27-Oct-20	Iodine-131	4.13E-03	3.75E-03	1.33E-02	7.00E-02	3.88E-03	pCi/m3	U
API-6(526368012) - A.C. Iodine	3-Nov-20	Iodine-131	-1.16E-03	3.37E-03	1.09E-02	7.00E-02	3.38E-03	pCi/m3	U
API-6(527137012) - A.C. Iodine	10-Nov-20	Iodine-131	5.54E-04	2.57E-03	8.92E-03	7.00E-02	2.58E-03	pCi/m3	U
API-6(527819012) - A.C. Iodine	17-Nov-20	Iodine-131	2.05E-03	2.80E-03	1.01E-02	7.00E-02	2.84E-03	pCi/m3	U
API-6(528737012) - A.C. Iodine	24-Nov-20	Iodine-131	1.03E-04	3.76E-03	1.08E-02	7.00E-02	3.76E-03	pCi/m3	U
API-6(528995012) - A.C. Iodine	1-Dec-20	Iodine-131	-2.41E-03	4.06E-03	1.12E-02	7.00E-02	4.10E-03	pCi/m3	U
API-6(529575012) - A.C. Iodine	8-Dec-20	Iodine-131	2.52E-03	4.98E-03	1.78E-02	7.00E-02	5.02E-03	pCi/m3	U
API-6(530340012) - A.C. Iodine	15-Dec-20	Iodine-131	2.38E-05	2.56E-03	8.64E-03	7.00E-02	2.56E-03	pCi/m3	U
API-6(530830012) - A.C. Iodine	22-Dec-20	Iodine-131	-6.73E-04	2.81E-03	9.19E-03	7.00E-02	2.81E-03	pCi/m3	U
API-6(531069012) - A.C. Iodine	29-Dec-20	Iodine-131	-3.97E-03	5.69E-03	1.68E-02	7.00E-02	5.77E-03	pCi/m3	U

## API-6

## A.P. Gross Beta

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Actinium-228	1.15E-03	8.42E-04	1.91E-03		8.44E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Actinium-228	-8.64E-04	8.47E-04	2.58E-03		8.72E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Actinium-228	2.90E-03	1.12E-03	2.90E-03		1.33E-03	pCi/m3	UI
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Antimony-124	-4.49E-04	5.78E-04	1.59E-03		5.87E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Antimony-124	1.41E-03	6.56E-04	2.54E-03		7.35E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Antimony-124	2.75E-04	5.39E-04	1.91E-03		5.42E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Antimony-125	-6.20E-04	4.14E-04	1.22E-03		4.39E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Antimony-125	-1.37E-04	4.11E-04	1.35E-03		4.12E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Antimony-125	-8.05E-05	3.94E-04	1.24E-03		3.95E-04	pCi/m3	U
API-6(500472006) - A.P. Gross Beta	7-Jan-20	BETA	3.41E-02	2.44E-03	3.08E-03	1.00E-02	2.45E-03	pCi/m3	
API-6(501152006) - A.P. Gross Beta	14-Jan-20	BETA	2.57E-02	2.32E-03	3.35E-03	1.00E-02	2.33E-03	pCi/m3	
API-6(501849006) - A.P. Gross Beta	21-Jan-20	BETA	3.65E-02	2.70E-03	3.38E-03	1.00E-02	2.70E-03	pCi/m3	
API-6(502476006) - A.P. Gross Beta	28-Jan-20	BETA	3.29E-02	2.48E-03	3.02E-03	1.00E-02	2.48E-03	pCi/m3	
API-6(503325006) - A.P. Gross Beta	4-Feb-20	BETA	2.17E-02	2.17E-03	3.28E-03	1.00E-02	2.17E-03	pCi/m3	
API-6(504027006) - A.P. Gross Beta	11-Feb-20	BETA	2.80E-02	2.39E-03	3.26E-03	1.00E-02	2.39E-03	pCi/m3	
API-6(504675006) - A.P. Gross Beta	18-Feb-20	BETA	2.88E-02	2.38E-03	3.29E-03	1.00E-02	2.38E-03	pCi/m3	

API-6

A.P. Gross Beta -Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(505312006) - A.P. Gross Beta	25-Feb-20	BETA	4.20E-02	2.77E-03	3.15E-03	1.00E-02	2.77E-03	pCi/m3	
API-6(505963006) - A.P. Gross Beta	3-Mar-20	BETA	3.31E-02	2.50E-03	3.05E-03	1.00E-02	2.50E-03	pCi/m3	
API-6(506595006) - A.P. Gross Beta	10-Mar-20	BETA	2.62E-02	2.27E-03	3.07E-03	1.00E-02	2.27E-03	pCi/m3	
API-6(507213006) - A.P. Gross Beta	17-Mar-20	BETA	3.34E-02	2.58E-03	3.36E-03	1.00E-02	2.58E-03	pCi/m3	
API-6(507791006) - A.P. Gross Beta	24-Mar-20	BETA	3.15E-02	2.54E-03	3.44E-03	1.00E-02	2.54E-03	pCi/m3	
API-6(508669006) - A.P. Gross Beta	31-Mar-20	BETA	2.01E-02	2.05E-03	3.22E-03	1.00E-02	2.05E-03	pCi/m3	
API-6(509001006) - A.P. Gross Beta	7-Apr-20	BETA	1.86E-02	1.98E-03	3.20E-03	1.00E-02	1.98E-03	pCi/m3	
API-6(509503006) - A.P. Gross Beta	14-Apr-20	BETA	5.69E-02	3.30E-03	3.45E-03	1.00E-02	3.30E-03	pCi/m3	
API-6(509976006) - A.P. Gross Beta	21-Apr-20	BETA	2.59E-02	2.31E-03	3.23E-03	1.00E-02	2.31E-03	pCi/m3	
API-6(510318006) - A.P. Gross Beta	28-Apr-20	BETA	2.65E-02	2.40E-03	3.67E-03	1.00E-02	2.40E-03	pCi/m3	
API-6(510728006) - A.P. Gross Beta	5-May-20	BETA	2.78E-02	2.51E-03	4.11E-03	1.00E-02	2.51E-03	pCi/m3	
API-6(511882006) - A.P. Gross Beta	13-May-20	BETA	2.37E-02	2.07E-03	2.81E-03	1.00E-02	2.07E-03	pCi/m3	
API-6(511857006) - A.P. Gross Beta	20-May-20	BETA	7.05E-02	9.81E-03	1.81E-02	1.00E-02	9.81E-03	pCi/m3	DL
API-6(512286006) - A.P. Gross Beta	26-May-20	BETA	7.48E-02	1.05E-02	1.96E-02	1.00E-02	1.05E-02	pCi/m3	DL
API-6(512737006) - A.P. Gross Beta	2-Jun-20	BETA	2.83E-02	2.46E-03	3.46E-03	1.00E-02	2.46E-03	pCi/m3	
API-6(513176006) - A.P. Gross Beta	9-Jun-20	BETA	2.79E-02	2.36E-03	3.29E-03	1.00E-02	2.36E-03	pCi/m3	
API-6(513961006) - A.P. Gross Beta	16-Jun-20	BETA	2.38E-02	2.28E-03	3.38E-03	1.00E-02	2.29E-03	pCi/m3	
API-6(514377006) - A.P. Gross Beta	23-Jun-20	BETA	3.03E-02	2.43E-03	3.13E-03	1.00E-02	2.43E-03	pCi/m3	
API-6(514802006) - A.P. Gross Beta	28-Jun-20	BETA	2.80E-02	3.05E-03	5.33E-03	1.00E-02	3.05E-03	pCi/m3	
API-6(515270006) - A.P. Gross Beta	7-Jul-20	BETA	2.89E-02	2.14E-03	2.82E-03	1.00E-02	2.14E-03	pCi/m3	
API-6(516045006) - A.P. Gross Beta	15-Jul-20	BETA	2.91E-02	2.25E-03	2.92E-03	1.00E-02	2.25E-03	pCi/m3	
API-6(516530006) - A.P. Gross Beta	21-Jul-20	BETA	3.21E-02	2.82E-03	3.86E-03	1.00E-02	2.82E-03	pCi/m3	
API-6(517198006) - A.P. Gross Beta	29-Jul-20	BETA	2.67E-02	2.21E-03	2.94E-03	1.00E-02	2.21E-03	pCi/m3	
API-6(517698006) - A.P. Gross Beta	4-Aug-20	BETA	2.84E-02	2.57E-03	3.58E-03	1.00E-02	2.57E-03	pCi/m3	
API-6(518171006) - A.P. Gross Beta	11-Aug-20	BETA	2.53E-02	2.46E-03	4.26E-03	1.00E-02	2.46E-03	pCi/m3	
API-6(519104006) - A.P. Gross Beta	18-Aug-20	BETA	2.27E-02	2.30E-03	3.89E-03	1.00E-02	2.30E-03	pCi/m3	
API-6(519829006) - A.P. Gross Beta	25-Aug-20	BETA	3.07E-02	2.52E-03	3.42E-03	1.00E-02	2.52E-03	pCi/m3	
API-6(520260006) - A.P. Gross Beta	1-Sep-20	BETA	2.98E-02	2.47E-03	3.35E-03	1.00E-02	2.47E-03	pCi/m3	
API-6(520976006) - A.P. Gross Beta	8-Sep-20	BETA	2.92E-02	2.49E-03	3.39E-03	1.00E-02	2.49E-03	pCi/m3	
API-6(521492006) - A.P. Gross Beta	15-Sep-20	BETA	2.47E-02	2.23E-03	3.11E-03	1.00E-02	2.23E-03	pCi/m3	
API-6(522112006) - A.P. Gross Beta	22-Sep-20	BETA	2.48E-02	2.30E-03	3.40E-03	1.00E-02	2.30E-03	pCi/m3	
API-6(522851006) - A.P. Gross Beta	29-Sep-20	BETA	3.46E-02	2.66E-03	3.38E-03	1.00E-02	2.66E-03	pCi/m3	
API-6(523556006) - A.P. Gross Beta	6-Oct-20	BETA	2.13E-02	2.09E-03	3.08E-03	1.00E-02	2.09E-03	pCi/m3	
API-6(524214006) - A.P. Gross Beta	13-Oct-20	BETA	2.82E-02	2.40E-03	3.21E-03	1.00E-02	2.40E-03	pCi/m3	
API-6(524977006) - A.P. Gross Beta	20-Oct-20	BETA	2.90E-02	2.40E-03	3.10E-03	1.00E-02	2.40E-03	pCi/m3	
API-6(525681006) - A.P. Gross Beta	27-Oct-20	BETA	1.77E-02	2.00E-03	3.32E-03	1.00E-02	2.00E-03	pCi/m3	

## API-6

## A.P. Gross Beta -Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(526368006) - A.P. Gross Beta	3-Nov-20	BETA	3.36E-02	2.55E-03	2.96E-03	1.00E-02	2.55E-03	pCi/m3	
API-6(527137006) - A.P. Gross Beta	10-Nov-20	BETA	4.41E-02	2.95E-03	3.41E-03	1.00E-02	2.96E-03	pCi/m3	
API-6(527819006) - A.P. Gross Beta	17-Nov-20	BETA	4.13E-02	2.95E-03	3.62E-03	1.00E-02	2.96E-03	pCi/m3	
API-6(528737006) - A.P. Gross Beta	24-Nov-20	BETA	3.08E-02	2.45E-03	3.19E-03	1.00E-02	2.45E-03	pCi/m3	
API-6(528995006) - A.P. Gross Beta	1-Dec-20	BETA	3.88E-02	2.80E-03	3.45E-03	1.00E-02	2.80E-03	pCi/m3	
API-6(529575006) - A.P. Gross Beta	8-Dec-20	BETA	2.96E-02	2.41E-03	3.12E-03	1.00E-02	2.41E-03	pCi/m3	
API-6(530340006) - A.P. Gross Beta	15-Dec-20	BETA	5.26E-02	3.14E-03	3.23E-03	1.00E-02	3.14E-03	pCi/m3	
API-6(530830006) - A.P. Gross Beta	22-Dec-20	BETA	3.98E-02	2.80E-03	3.42E-03	1.00E-02	2.80E-03	pCi/m3	
API-6(531069006) - A.P. Gross Beta	29-Dec-20	BETA	3.08E-02	2.49E-03	3.28E-03	1.00E-02	2.49E-03	pCi/m3	
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Barium-140	-2.05E-04	3.61E-03	1.05E-02		3.61E-03	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Barium-140	2.12E-04	5.08E-03	1.67E-02		5.08E-03	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Barium-140	1.64E-03	2.15E-03	7.73E-03		2.18E-03	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Beryllium-7	7.80E-02	6.92E-03	7.25E-03		7.75E-03	pCi/m3	
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Beryllium-7	5.24E-02	4.81E-03	7.12E-03		5.44E-03	pCi/m3	
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Beryllium-7	4.35E-02	4.57E-03	6.38E-03		5.01E-03	pCi/m3	
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cerium-141	3.46E-04	6.87E-04	9.93E-04		6.87E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cerium-141	6.60E-05	4.71E-04	1.44E-03		4.71E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cerium-141	4.15E-04	4.42E-04	8.97E-04		4.43E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cerium-144	-8.47E-04	7.09E-04	2.20E-03		7.36E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cerium-144	-8.33E-04	8.41E-04	2.76E-03		8.64E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cerium-144	-2.54E-04	5.99E-04	2.00E-03		6.02E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cesium-134	-9.66E-06	2.37E-04	8.00E-04	5.00E-02	2.37E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cesium-134	4.05E-04	2.12E-04	7.15E-04	5.00E-02	2.33E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cesium-134	8.67E-05	1.73E-04	5.99E-04	5.00E-02	1.75E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cesium-137	-8.60E-05	1.67E-04	5.03E-04	6.00E-02	1.68E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cesium-137	-6.05E-05	1.65E-04	5.16E-04	6.00E-02	1.65E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cesium-137	1.08E-04	1.53E-04	5.41E-04	6.00E-02	1.55E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Chromium-51	-5.97E-03	2.80E-03	8.30E-03		3.13E-03	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Chromium-51	-2.32E-03	3.54E-03	1.03E-02		3.58E-03	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Chromium-51	-1.17E-03	2.13E-03	6.71E-03		2.15E-03	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cobalt-57	5.38E-05	8.53E-05	2.96E-04		8.62E-05	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cobalt-57	1.58E-04	1.09E-04	3.87E-04		1.15E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cobalt-57	6.21E-05	7.88E-05	2.80E-04		8.02E-05	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Cobalt-58	-6.78E-04	2.33E-04	5.02E-04		2.82E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Cobalt-58	-3.59E-04	2.64E-04	6.27E-04		2.78E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Cobalt-58	-4.10E-05	1.68E-04	5.38E-04		1.68E-04	pCi/m3	U

API-6

A.P. Gross Beta -Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Iodine-131	-5.47E-03	3.37E-03	1.01E-02		3.60E-03	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Iodine-131	-2.28E-03	6.02E-03	1.75E-02		6.05E-03	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Iodine-131	-1.53E-03	1.83E-03	5.58E-03		1.86E-03	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Iron-59	-6.33E-04	7.24E-04	2.13E-03		7.39E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Iron-59	2.14E-03	6.77E-04	2.19E-03		8.47E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Iron-59	6.06E-04	4.30E-04	1.64E-03		4.53E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Lanthanum-140	-1.09E-03	2.05E-03	6.37E-03		2.07E-03	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Lanthanum-140	-1.93E-03	2.00E-03	5.90E-03		2.05E-03	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Lanthanum-140	-1.51E-03	1.07E-03	2.77E-03		1.13E-03	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Manganese-54	5.72E-04	2.68E-04	5.72E-04		2.72E-04	pCi/m3	UI
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Manganese-54	9.64E-05	1.70E-04	5.84E-04		1.72E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Manganese-54	5.15E-05	1.90E-04	6.38E-04		1.90E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Niobium-95	-4.57E-05	2.68E-04	8.97E-04		2.68E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Niobium-95	-1.73E-04	2.41E-04	7.73E-04		2.44E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Niobium-95	1.38E-04	2.34E-04	8.16E-04		2.36E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Potassium-40	1.39E-02	4.16E-03	8.05E-03		4.22E-03	pCi/m3	
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Potassium-40	5.67E-03	4.15E-03	5.67E-03		4.21E-03	pCi/m3	UI
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Potassium-40	5.04E-03	3.68E-03	5.04E-03		3.71E-03	pCi/m3	UI
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Ruthenium-103	-1.25E-05	2.74E-04	9.02E-04		2.74E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Ruthenium-103	-1.50E-04	2.89E-04	9.25E-04		2.91E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Ruthenium-103	-4.41E-05	2.18E-04	6.80E-04		2.19E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Ruthenium-106	-3.58E-03	1.83E-03	4.78E-03		2.01E-03	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Ruthenium-106	9.90E-05	1.71E-03	5.52E-03		1.71E-03	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Ruthenium-106	2.41E-03	1.23E-03	4.80E-03		1.36E-03	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Selenium-75	-3.75E-04	2.50E-04	7.06E-04		2.65E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Selenium-75	-9.35E-05	2.62E-04	7.39E-04		2.63E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Selenium-75	-2.77E-04	1.79E-04	5.34E-04		1.90E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Silver-108m	7.44E-05	1.25E-04	4.37E-04		1.26E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Silver-108m	-2.21E-05	1.35E-04	4.47E-04		1.35E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Silver-108m	-8.58E-05	1.36E-04	4.15E-04		1.38E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Silver-110m	3.88E-04	2.52E-04	9.81E-04		2.68E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Silver-110m	-2.48E-04	2.11E-04	6.33E-04		2.19E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Silver-110m	-7.60E-05	2.27E-04	7.17E-04		2.28E-04	pCi/m3	U
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Zinc-65	-6.19E-04	4.37E-04	1.14E-03		4.61E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Zinc-65	-3.47E-04	5.09E-04	1.32E-03		5.16E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Zinc-65	6.71E-04	4.12E-04	1.46E-03		4.41E-04	pCi/m3	U

## API-6

## A.P. Gross Beta -Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(517029006) - A.P. Gross Beta	28-Jun-20	Zirconium-95	-1.09E-03	4.28E-04	8.08E-04		4.99E-04	pCi/m3	U
API-6(526477006) - A.P. Gross Beta	29-Sep-20	Zirconium-95	-1.51E-04	4.56E-04	1.29E-03		4.58E-04	pCi/m3	U
API-6(533263006) - A.P. Gross Beta	29-Dec-20	Zirconium-95	2.87E-06	3.53E-04	1.17E-03		3.53E-04	pCi/m3	U

## API-6

## A.P. Gross Beta Comp

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Actinium-228	-2.56E-04	7.91E-04	2.75E-03		7.93E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Antimony-124	-1.23E-03	6.67E-04	1.45E-03		7.26E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Antimony-125	-4.10E-04	4.18E-04	1.25E-03		4.29E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Barium-140	3.50E-04	3.61E-03	1.17E-02		3.61E-03	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Beryllium-7	5.19E-02	5.32E-03	5.62E-03		5.85E-03	pCi/m3	
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cerium-141	-6.14E-04	3.37E-04	9.40E-04		3.68E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cerium-144	-7.75E-04	6.61E-04	1.91E-03		6.86E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cesium-134	-1.01E-05	2.95E-04	6.26E-04	5.00E-02	2.95E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cesium-137	-1.81E-04	1.44E-04	4.23E-04	6.00E-02	1.50E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Chromium-51	-1.18E-03	2.36E-03	7.52E-03		2.37E-03	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-57	-2.04E-05	8.10E-05	2.49E-04		8.11E-05	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Cobalt-58	-4.57E-05	1.91E-04	6.21E-04		1.92E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Iodine-131	-1.95E-03	2.69E-03	8.35E-03		2.73E-03	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Iron-59	5.17E-04	5.37E-04	1.97E-03		5.51E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Lanthanum-140	1.00E-04	1.12E-03	3.82E-03		1.12E-03	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Manganese-54	-2.49E-04	2.04E-04	6.02E-04		2.12E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Niobium-95	-1.14E-04	2.42E-04	7.76E-04		2.43E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Potassium-40	3.60E-03	3.80E-03	3.60E-03		3.82E-03	pCi/m3	UI
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-103	2.48E-04	2.52E-04	8.80E-04		2.59E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Ruthenium-106	-2.23E-03	1.52E-03	4.51E-03		1.61E-03	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Selenium-75	-2.05E-05	1.99E-04	6.30E-04		1.99E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Silver-108m	-7.78E-05	1.45E-04	3.94E-04		1.46E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Silver-110m	3.71E-04	2.40E-04	9.28E-04		2.56E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Zinc-65	-4.41E-04	4.75E-04	1.38E-03		4.86E-04	pCi/m3	U
API-6(510543006) - A.P. Gross Beta Comp	31-Mar-20	Zirconium-95	5.33E-04	3.15E-04	1.21E-03		3.39E-04	pCi/m3	U

## DW-1

## Drinking Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Actinium-228	-2.58E+00	4.36E+00	7.57E+00		4.41E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Actinium-228	2.97E-01	3.44E+00	4.76E+00		3.44E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Actinium-228	-2.76E+00	3.40E+00	8.12E+00		3.46E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Actinium-228	4.40E+00	3.78E+00	4.61E+00		3.79E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Actinium-228	6.10E+00	4.49E+00	8.24E+00		4.71E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Actinium-228	7.95E+00	4.64E+00	8.68E+00		5.00E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Actinium-228	-6.63E+00	2.82E+00	6.81E+00		3.22E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Actinium-228	2.13E+00	3.87E+00	7.58E+00		3.90E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Actinium-228	-1.42E+00	2.65E+00	5.66E+00		2.67E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Actinium-228	7.35E-01	4.15E+00	7.50E+00		4.15E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Actinium-228	1.71E+00	4.99E+00	7.05E+00		5.00E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Actinium-228	-4.29E+00	3.39E+00	7.62E+00		3.54E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Antimony-124	-5.89E-01	1.21E+00	3.78E+00		1.22E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Antimony-124	-1.10E-01	9.53E-01	3.20E+00		9.53E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Antimony-124	1.31E+00	1.33E+00	4.62E+00		1.36E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Antimony-124	3.54E-01	1.16E+00	3.37E+00		1.16E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Antimony-124	1.09E-01	1.12E+00	3.80E+00		1.12E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Antimony-124	3.95E+00	1.69E+00	4.49E+00		1.70E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Antimony-124	-1.37E+00	1.05E+00	3.10E+00		1.10E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Antimony-124	4.10E+00	2.98E+00	4.10E+00		3.01E+00	pCi/L	UI
DW-1(522847001) - Drinking Water	29-Sep-20	Antimony-124	-1.93E+00	1.09E+00	3.11E+00		1.18E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Antimony-124	-1.07E+00	1.26E+00	3.81E+00		1.29E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Antimony-124	-1.30E+00	1.18E+00	3.59E+00		1.22E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Antimony-124	7.13E-01	1.37E+00	4.54E+00		1.38E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Antimony-125	-8.77E-01	1.36E+00	4.35E+00		1.37E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Antimony-125	-5.73E-01	1.11E+00	3.61E+00		1.11E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Antimony-125	8.66E-02	1.46E+00	4.89E+00		1.46E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Antimony-125	3.78E+00	1.16E+00	3.91E+00		1.45E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Antimony-125	-7.29E-02	1.30E+00	4.32E+00		1.30E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Antimony-125	-3.15E-01	1.43E+00	4.76E+00		1.43E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Antimony-125	-1.73E+00	1.25E+00	3.97E+00		1.31E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Antimony-125	-3.03E-01	1.39E+00	4.63E+00		1.39E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Antimony-125	-8.93E-01	1.04E+00	3.42E+00		1.06E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Antimony-125	-1.16E-01	1.38E+00	4.61E+00		1.38E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Antimony-125	-1.19E+00	1.27E+00	4.17E+00		1.30E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Antimony-125	2.14E+00	1.34E+00	4.72E+00		1.43E+00	pCi/L	U



DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	BETA	1.57E+00	8.71E-01	2.46E+00	4.00E+00	8.81E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	BETA	1.88E+00	1.15E+00	3.39E+00	4.00E+00	1.16E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	BETA	1.04E+00	1.05E+00	3.26E+00	4.00E+00	1.06E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	BETA	2.40E+00	9.93E-01	2.71E+00	4.00E+00	1.01E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	BETA	5.87E-01	7.43E-01	2.25E+00	4.00E+00	7.45E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	BETA	5.86E-01	1.07E+00	3.41E+00	4.00E+00	1.07E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	BETA	-7.96E-01	7.65E-01	2.70E+00	4.00E+00	7.65E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	BETA	2.46E+00	1.04E+00	2.86E+00	4.00E+00	1.06E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	BETA	5.60E-01	1.09E+00	3.49E+00	4.00E+00	1.09E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	BETA	-4.29E-02	6.74E-01	2.22E+00	4.00E+00	6.74E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	BETA	8.84E-01	7.99E-01	2.31E+00	4.00E+00	8.05E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	BETA	1.44E+00	1.09E+00	3.34E+00	4.00E+00	1.09E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Barium-140	1.34E-01	2.30E+00	7.02E+00	1.50E+01	2.30E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Barium-140	-4.09E-01	1.56E+00	5.05E+00	1.50E+01	1.57E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Barium-140	-1.13E+00	2.04E+00	6.62E+00	1.50E+01	2.06E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Barium-140	-3.58E+00	1.55E+00	4.71E+00	1.50E+01	1.76E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Barium-140	1.35E+00	2.31E+00	7.71E+00	1.50E+01	2.34E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Barium-140	-1.27E+00	2.06E+00	6.61E+00	1.50E+01	2.08E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Barium-140	2.81E+00	2.19E+00	7.48E+00	1.50E+01	2.29E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Barium-140	2.57E+00	2.87E+00	9.79E+00	1.50E+01	2.93E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Barium-140	2.22E+00	2.16E+00	7.49E+00	1.50E+01	2.22E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Barium-140	9.64E-01	2.49E+00	8.37E+00	1.50E+01	2.50E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Barium-140	-5.88E-01	2.58E+00	8.55E+00	1.50E+01	2.58E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Barium-140	-2.62E-01	2.67E+00	8.75E+00	1.50E+01	2.67E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Beryllium-7	2.19E-01	4.31E+00	1.40E+01		4.31E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Beryllium-7	9.40E-01	3.60E+00	1.20E+01		3.61E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Beryllium-7	-3.93E+00	4.30E+00	1.39E+01		4.39E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Beryllium-7	-1.36E+00	3.05E+00	1.00E+01		3.06E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Beryllium-7	-3.94E+00	4.16E+00	1.32E+01		4.26E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Beryllium-7	-1.29E+00	4.33E+00	1.42E+01		4.34E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Beryllium-7	1.23E+00	3.51E+00	1.17E+01		3.53E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Beryllium-7	1.05E+00	4.38E+00	1.47E+01		4.38E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Beryllium-7	9.40E-01	3.47E+00	1.18E+01		3.48E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Beryllium-7	7.82E+00	4.30E+00	1.53E+01		4.67E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Beryllium-7	-1.92E+00	4.10E+00	1.36E+01		4.12E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Beryllium-7	-6.14E+00	4.93E+00	1.37E+01		5.14E+00	pCi/L	U

DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Cerium-141	-1.59E+00	8.23E-01	2.56E+00		9.03E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cerium-141	-1.87E+00	7.75E-01	2.36E+00		8.89E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cerium-141	-1.10E+00	1.00E+00	3.14E+00		1.04E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cerium-141	2.67E-01	1.41E+00	2.11E+00		1.41E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cerium-141	-1.70E+00	1.42E+00	2.92E+00		1.48E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cerium-141	-1.98E+00	8.83E-01	2.72E+00		9.96E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cerium-141	1.18E+00	9.91E-01	2.59E+00		9.92E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cerium-141	-2.44E+00	1.68E+00	3.40E+00		1.77E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cerium-141	-7.80E-01	7.32E-01	2.34E+00		7.54E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cerium-141	-2.06E-01	9.46E-01	3.01E+00		9.47E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cerium-141	-1.73E+00	1.00E+00	3.14E+00		1.08E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cerium-141	-3.35E+00	1.31E+00	2.69E+00		1.53E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Cerium-144	-7.65E+00	3.08E+00	9.46E+00		3.56E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cerium-144	-2.72E+00	3.15E+00	9.97E+00		3.22E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cerium-144	-3.37E+00	3.86E+00	1.22E+01		3.94E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cerium-144	1.88E+00	2.69E+00	8.86E+00		2.73E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cerium-144	-7.80E-01	3.51E+00	1.12E+01		3.52E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cerium-144	-1.03E+00	3.44E+00	1.11E+01		3.45E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cerium-144	-1.09E+00	3.25E+00	1.02E+01		3.26E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cerium-144	1.28E+00	3.95E+00	1.28E+01		3.96E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cerium-144	-2.48E+00	2.54E+00	8.16E+00		2.60E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cerium-144	-1.59E+00	3.37E+00	1.07E+01		3.39E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cerium-144	2.67E+00	3.64E+00	1.21E+01		3.70E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cerium-144	-2.31E+00	3.40E+00	1.09E+01		3.44E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Cesium-134	2.05E+00	9.58E-01	2.05E+00	1.50E+01	1.13E+00	pCi/L	UI
DW-1(505311001) - Drinking Water	25-Feb-20	Cesium-134	7.96E-01	4.82E-01	1.73E+00	1.50E+01	5.17E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cesium-134	-3.47E-01	5.91E-01	1.86E+00	1.50E+01	5.97E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cesium-134	5.53E-01	4.63E-01	1.42E+00	1.50E+01	4.81E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cesium-134	-1.71E+00	7.51E-01	1.63E+00	1.50E+01	8.51E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cesium-134	7.06E-02	5.54E-01	1.78E+00	1.50E+01	5.54E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cesium-134	-4.24E-01	5.00E-01	1.54E+00	1.50E+01	5.09E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cesium-134	2.57E-01	5.87E-01	1.93E+00	1.50E+01	5.90E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cesium-134	2.34E-01	4.52E-01	1.51E+00	1.50E+01	4.56E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cesium-134	-1.46E-01	5.96E-01	1.89E+00	1.50E+01	5.97E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cesium-134	-2.96E-01	5.52E-01	1.75E+00	1.50E+01	5.56E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cesium-134	2.11E-01	5.88E-01	1.91E+00	1.50E+01	5.90E-01	pCi/L	U

DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Cesium-137	-3.54E-01	5.27E-01	1.73E+00	1.80E+01	5.33E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cesium-137	1.32E-01	4.83E-01	1.57E+00	1.80E+01	4.84E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cesium-137	6.18E-02	8.53E-01	1.67E+00	1.80E+01	8.53E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cesium-137	1.49E-02	4.30E-01	1.41E+00	1.80E+01	4.30E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cesium-137	-3.63E-01	5.32E-01	1.66E+00	1.80E+01	5.38E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cesium-137	-4.36E-01	1.16E+00	2.44E+00	1.80E+01	1.16E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cesium-137	1.76E-02	4.50E-01	1.46E+00	1.80E+01	4.50E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cesium-137	7.48E-01	4.98E-01	1.73E+00	1.80E+01	5.28E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cesium-137	-3.66E-01	4.22E-01	1.34E+00	1.80E+01	4.31E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cesium-137	-2.55E-01	5.48E-01	1.74E+00	1.80E+01	5.51E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cesium-137	4.80E-02	4.84E-01	1.60E+00	1.80E+01	4.84E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cesium-137	-7.26E-01	8.69E-01	1.96E+00	1.80E+01	8.85E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Chromium-51	-3.80E+00	4.38E+00	1.44E+01		4.47E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Chromium-51	-5.77E-01	3.54E+00	1.19E+01		3.54E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Chromium-51	1.75E+00	4.71E+00	1.62E+01		4.73E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Chromium-51	5.77E+00	3.45E+00	1.23E+01		3.71E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Chromium-51	7.52E+00	4.65E+00	1.63E+01		4.97E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Chromium-51	1.00E+01	7.08E+00	1.52E+01		7.09E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Chromium-51	4.96E-02	4.23E+00	1.43E+01		4.23E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Chromium-51	1.12E+00	5.28E+00	1.81E+01		5.29E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Chromium-51	-1.40E+00	4.02E+00	1.24E+01		4.04E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Chromium-51	9.40E-01	4.58E+00	1.57E+01		4.58E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Chromium-51	-1.25E+00	5.23E+00	1.61E+01		5.24E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Chromium-51	7.83E+00	4.54E+00	1.62E+01		4.90E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Cobalt-57	-2.42E-01	3.95E-01	1.28E+00		3.99E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cobalt-57	-2.00E-01	4.01E-01	1.28E+00		4.03E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cobalt-57	-3.38E-01	5.07E-01	1.61E+00		5.13E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cobalt-57	2.99E-01	3.61E-01	1.20E+00		3.68E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cobalt-57	-2.36E-01	4.42E-01	1.41E+00		4.45E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cobalt-57	4.00E-02	4.33E-01	1.42E+00		4.33E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cobalt-57	-2.18E-01	4.42E-01	1.39E+00		4.45E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cobalt-57	-4.30E-02	5.09E-01	1.64E+00		5.09E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cobalt-57	-5.08E-01	3.34E-01	1.07E+00		3.54E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cobalt-57	1.09E+00	4.50E-01	1.54E+00		5.17E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cobalt-57	2.01E-01	4.73E-01	1.56E+00		4.75E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cobalt-57	-1.26E-02	4.24E-01	1.39E+00		4.24E-01	pCi/L	U

DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Cobalt-58	-6.73E-01	4.98E-01	1.55E+00	1.50E+01	5.22E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cobalt-58	-5.41E-01	3.96E-01	1.27E+00	1.50E+01	4.15E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cobalt-58	-9.74E-01	4.71E-01	1.35E+00	1.50E+01	5.24E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cobalt-58	-2.63E-02	3.89E-01	1.25E+00	1.50E+01	3.89E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cobalt-58	-4.41E-01	4.42E-01	1.44E+00	1.50E+01	4.54E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cobalt-58	3.73E-01	5.02E-01	1.66E+00	1.50E+01	5.10E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Cobalt-58	2.73E-01	4.30E-01	1.41E+00	1.50E+01	4.35E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cobalt-58	-8.16E-01	5.77E-01	1.74E+00	1.50E+01	6.08E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cobalt-58	3.25E-01	4.24E-01	1.43E+00	1.50E+01	4.31E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cobalt-58	3.52E-01	5.50E-01	1.65E+00	1.50E+01	5.56E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cobalt-58	-1.51E+00	7.63E-01	1.54E+00	1.50E+01	8.41E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cobalt-58	-6.39E-01	5.24E-01	1.55E+00	1.50E+01	5.45E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Cobalt-60	8.61E-01	5.80E-01	2.07E+00	1.50E+01	6.14E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Cobalt-60	-6.74E-02	5.13E-01	1.66E+00	1.50E+01	5.14E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Cobalt-60	-8.58E-02	5.76E-01	1.67E+00	1.50E+01	5.77E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Cobalt-60	4.45E-02	4.05E-01	1.35E+00	1.50E+01	4.05E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Cobalt-60	1.41E-01	4.91E-01	1.44E+00	1.50E+01	4.92E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Cobalt-60	1.87E+00	2.15E+00	1.87E+00	1.50E+01	2.36E+00	pCi/L	UI
DW-1(517328001) - Drinking Water	29-Jul-20	Cobalt-60	4.13E-01	4.45E-01	1.55E+00	1.50E+01	4.55E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Cobalt-60	-6.78E-01	5.33E-01	1.64E+00	1.50E+01	5.56E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Cobalt-60	-3.01E-01	4.10E-01	1.31E+00	1.50E+01	4.16E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Cobalt-60	-3.90E-01	5.78E-01	1.84E+00	1.50E+01	5.85E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Cobalt-60	1.05E+00	4.99E-01	1.86E+00	1.50E+01	5.57E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Cobalt-60	1.60E-01	6.03E-01	2.00E+00	1.50E+01	6.04E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Iodine-131	1.44E-01	6.83E-01	2.28E+00		6.84E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Iodine-131	-1.16E-01	4.75E-01	1.58E+00		4.76E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Iodine-131	-1.29E+00	6.80E-01	2.18E+00		7.44E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Iodine-131	-1.02E+00	5.30E-01	1.71E+00		5.81E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Iodine-131	1.23E-01	7.75E-01	2.61E+00		7.75E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Iodine-131	3.28E-01	6.44E-01	2.21E+00		6.49E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Iodine-131	-1.40E-01	7.50E-01	2.50E+00		7.51E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Iodine-131	2.35E-02	1.16E+00	3.94E+00		1.16E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Iodine-131	-2.14E+00	9.89E-01	2.51E+00		1.11E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Iodine-131	8.01E-01	8.58E-01	2.99E+00		8.78E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Iodine-131	-9.72E-01	8.80E-01	2.93E+00		9.09E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Iodine-131	-5.01E-01	8.81E-01	2.93E+00		8.89E-01	pCi/L	U

## DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Iron-59	-1.25E+00	1.19E+00	3.62E+00	3.00E+01	1.23E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Iron-59	-9.23E-01	8.06E-01	2.53E+00	3.00E+01	8.35E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Iron-59	-1.57E+00	1.03E+00	3.24E+00	3.00E+01	1.09E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Iron-59	6.66E-01	7.81E-01	2.73E+00	3.00E+01	7.96E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Iron-59	8.55E-01	1.11E+00	3.39E+00	3.00E+01	1.12E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Iron-59	-1.32E+00	9.86E-01	3.05E+00	3.00E+01	1.03E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Iron-59	-1.53E+00	8.52E-01	2.61E+00	3.00E+01	9.26E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Iron-59	-1.12E+00	1.04E+00	3.33E+00	3.00E+01	1.07E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Iron-59	-1.46E+00	1.04E+00	2.60E+00	3.00E+01	1.10E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Iron-59	-4.02E+00	1.42E+00	2.85E+00	3.00E+01	1.70E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Iron-59	-5.92E-01	1.14E+00	3.52E+00	3.00E+01	1.15E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Iron-59	-1.00E+00	1.06E+00	3.33E+00	3.00E+01	1.08E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Lanthanum-140	-6.23E-01	7.94E-01	2.46E+00	1.50E+01	8.07E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Lanthanum-140	1.89E+00	1.36E+00	1.89E+00	1.50E+01	1.65E+00	pCi/L	UI
DW-1(508675001) - Drinking Water	31-Mar-20	Lanthanum-140	-1.35E+00	8.31E-01	2.47E+00	1.50E+01	8.89E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Lanthanum-140	-1.00E-01	5.77E-01	1.87E+00	1.50E+01	5.77E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Lanthanum-140	5.05E-01	8.93E-01	2.96E+00	1.50E+01	9.01E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Lanthanum-140	-2.57E-01	6.78E-01	2.13E+00	1.50E+01	6.81E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Lanthanum-140	-1.09E-01	6.98E-01	2.26E+00	1.50E+01	6.99E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Lanthanum-140	1.37E+00	1.07E+00	3.78E+00	1.50E+01	1.12E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Lanthanum-140	-1.37E+00	7.33E-01	2.11E+00	1.50E+01	8.00E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Lanthanum-140	9.07E-01	8.32E-01	2.96E+00	1.50E+01	8.59E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Lanthanum-140	-6.89E-01	8.48E-01	2.67E+00	1.50E+01	8.64E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Lanthanum-140	9.22E-02	8.70E-01	2.82E+00	1.50E+01	8.71E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Manganese-54	-5.62E-01	6.09E-01	1.67E+00	1.50E+01	6.23E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Manganese-54	6.71E-01	4.23E-01	1.51E+00	1.50E+01	4.51E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Manganese-54	2.09E-02	4.93E-01	1.59E+00	1.50E+01	4.93E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Manganese-54	-5.64E-01	3.84E-01	1.15E+00	1.50E+01	4.07E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Manganese-54	4.46E-01	4.75E-01	1.67E+00	1.50E+01	4.86E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Manganese-54	1.16E-01	4.97E-01	1.60E+00	1.50E+01	4.98E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Manganese-54	-7.07E-01	4.46E-01	1.32E+00	1.50E+01	4.76E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Manganese-54	8.19E-01	5.37E-01	1.84E+00	1.50E+01	5.71E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Manganese-54	-1.38E-01	4.20E-01	1.34E+00	1.50E+01	4.22E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Manganese-54	1.61E-01	5.29E-01	1.72E+00	1.50E+01	5.30E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Manganese-54	4.88E-01	4.47E-01	1.52E+00	1.50E+01	4.61E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Manganese-54	6.49E-01	5.54E-01	1.86E+00	1.50E+01	5.74E-01	pCi/L	U

DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Niobium-95	4.04E-01	5.17E-01	1.77E+00	1.50E+01	5.26E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Niobium-95	4.91E-02	4.17E-01	1.33E+00	1.50E+01	4.17E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Niobium-95	-1.27E+00	1.02E+00	1.64E+00	1.50E+01	1.07E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Niobium-95	-2.85E-01	4.07E-01	1.28E+00	1.50E+01	4.13E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Niobium-95	4.13E-01	5.01E-01	1.65E+00	1.50E+01	5.10E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Niobium-95	-6.81E-02	6.33E-01	1.79E+00	1.50E+01	6.33E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Niobium-95	-7.67E-01	7.39E-01	1.59E+00	1.50E+01	7.61E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Niobium-95	-1.08E+00	9.62E-01	1.68E+00	1.50E+01	9.95E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Niobium-95	4.73E-01	4.28E-01	1.41E+00	1.50E+01	4.43E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Niobium-95	2.90E-01	5.38E-01	1.78E+00	1.50E+01	5.42E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Niobium-95	8.91E-01	5.32E-01	1.85E+00	1.50E+01	5.71E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Niobium-95	1.13E+00	5.26E-01	1.86E+00	1.50E+01	5.89E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Potassium-40	-7.49E+00	1.36E+01	2.77E+01		1.37E+01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Potassium-40	2.76E+00	1.29E+01	1.43E+01		1.29E+01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Potassium-40	-4.77E+00	1.40E+01	3.20E+01		1.41E+01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Potassium-40	6.91E+00	1.03E+01	1.45E+01		1.03E+01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Potassium-40	-1.38E+01	1.04E+01	2.59E+01		1.09E+01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Potassium-40	-2.15E+01	9.97E+00	2.54E+01		1.12E+01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Potassium-40	4.76E+01	1.41E+01	1.39E+01		1.43E+01	pCi/L	
DW-1(519832001) - Drinking Water	25-Aug-20	Potassium-40	-8.53E+00	1.32E+01	3.09E+01		1.33E+01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Potassium-40	-1.98E+01	8.56E+00	2.19E+01		9.74E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Potassium-40	1.17E+01	1.35E+01	1.91E+01		1.35E+01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Potassium-40	-2.56E+01	1.23E+01	2.87E+01		1.37E+01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Potassium-40	1.92E+01	1.50E+01	1.92E+01		1.51E+01	pCi/L	UI
DW-1(502529001) - Drinking Water	28-Jan-20	Ruthenium-103	-5.38E-01	5.97E-01	1.64E+00		6.10E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Ruthenium-103	1.91E-01	5.66E-01	1.34E+00		5.68E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Ruthenium-103	-4.50E-01	5.99E-01	1.73E+00		6.08E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Ruthenium-103	2.24E-01	4.25E-01	1.30E+00		4.29E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Ruthenium-103	2.70E-01	5.77E-01	1.73E+00		5.80E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Ruthenium-103	1.66E-01	5.35E-01	1.61E+00		5.37E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Ruthenium-103	2.29E-01	5.49E-01	1.64E+00		5.52E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Ruthenium-103	-1.43E-01	6.42E-01	1.90E+00		6.43E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Ruthenium-103	-1.93E-01	4.46E-01	1.48E+00		4.49E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Ruthenium-103	-6.29E-02	5.41E-01	1.60E+00		5.41E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Ruthenium-103	-7.84E-01	5.40E-01	1.74E+00		5.71E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Ruthenium-103	-6.64E-01	5.46E-01	1.73E+00		5.68E-01	pCi/L	U

DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Ruthenium-106	4.33E+00	5.02E+00	1.57E+01		5.13E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Ruthenium-106	-1.14E+00	4.19E+00	1.34E+01		4.20E+00	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Ruthenium-106	9.95E+00	4.58E+00	1.62E+01		5.15E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Ruthenium-106	6.54E-01	3.56E+00	1.17E+01		3.56E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Ruthenium-106	1.51E+00	4.23E+00	1.38E+01		4.24E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Ruthenium-106	-8.87E+00	4.77E+00	1.43E+01		5.21E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Ruthenium-106	7.78E-01	3.91E+00	1.28E+01		3.92E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Ruthenium-106	-4.92E+00	4.72E+00	1.49E+01		4.86E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Ruthenium-106	-8.69E-01	3.71E+00	1.22E+01		3.71E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Ruthenium-106	-3.72E+00	5.04E+00	1.59E+01		5.11E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Ruthenium-106	3.25E+00	7.37E+00	1.57E+01		7.37E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Ruthenium-106	4.46E+00	4.62E+00	1.57E+01		4.74E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Selenium-75	7.02E-01	6.16E-01	2.15E+00		6.39E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Selenium-75	-8.31E-02	5.80E-01	1.98E+00		5.80E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Selenium-75	4.11E-01	6.90E-01	2.40E+00		6.97E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Selenium-75	-3.30E-01	5.69E-01	1.75E+00		5.74E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Selenium-75	2.63E-01	6.51E-01	2.24E+00		6.54E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Selenium-75	9.13E-01	7.14E-01	2.16E+00		7.46E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Selenium-75	3.44E-01	6.05E-01	2.08E+00		6.10E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Selenium-75	1.68E+00	2.10E+00	2.46E+00		2.13E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Selenium-75	-1.43E+00	5.71E-01	1.67E+00		6.61E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Selenium-75	8.52E-01	7.14E-01	2.53E+00		7.42E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Selenium-75	2.57E-01	7.12E-01	2.26E+00		7.15E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Selenium-75	5.11E-02	6.70E-01	2.10E+00		6.70E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Silver-108m	1.20E-01	4.44E-01	1.47E+00		4.45E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Silver-108m	-2.06E-01	3.84E-01	1.25E+00		3.87E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Silver-108m	5.88E-02	4.69E-01	1.58E+00		4.70E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Silver-108m	6.60E-01	6.82E-01	1.14E+00		6.99E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Silver-108m	-4.72E-01	4.36E-01	1.39E+00		4.49E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Silver-108m	1.99E-02	4.40E-01	1.48E+00		4.40E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Silver-108m	-1.84E-01	4.04E-01	1.32E+00		4.06E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Silver-108m	-1.42E-01	4.40E-01	1.46E+00		4.42E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Silver-108m	5.79E-02	3.59E-01	1.23E+00		3.59E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Silver-108m	4.86E-01	4.56E-01	1.58E+00		4.69E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Silver-108m	-4.84E-01	4.35E-01	1.43E+00		4.50E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Silver-108m	1.85E-01	4.41E-01	1.50E+00		4.43E-01	pCi/L	U

## DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Silver-110m	-5.58E-01	7.16E-01	2.27E+00		7.28E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Silver-110m	3.35E-01	5.92E-01	2.04E+00		5.97E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Silver-110m	-5.82E-01	7.47E-01	2.30E+00		7.60E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Silver-110m	3.15E-01	5.65E-01	1.85E+00		5.70E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Silver-110m	6.44E-02	6.56E-01	2.22E+00		6.56E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Silver-110m	2.33E-01	6.13E-01	2.12E+00		6.16E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Silver-110m	-4.69E-01	6.46E-01	1.98E+00		6.56E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Silver-110m	2.23E+00	2.21E+00	2.23E+00		2.32E+00	pCi/L	UI
DW-1(522847001) - Drinking Water	29-Sep-20	Silver-110m	1.75E-01	5.78E-01	1.90E+00		5.80E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Silver-110m	3.10E-02	7.55E-01	2.41E+00		7.55E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Silver-110m	4.58E-01	6.80E-01	2.26E+00		6.88E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Silver-110m	-3.28E-01	6.69E-01	2.21E+00		6.73E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Strontium-89	-8.60E-01	6.75E-01	2.37E+00	1.00E+01	7.75E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Strontium-89	4.22E-01	5.08E-01	1.56E+00	1.00E+01	7.61E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Strontium-89	-1.83E+00	3.16E-01	1.64E+00	1.00E+01	5.25E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Strontium-89	4.00E-01	4.88E-01	1.50E+00	1.00E+01	6.96E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Strontium-89	-1.78E-01	7.56E-01	2.52E+00	1.00E+01	8.27E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Strontium-89	-4.18E-01	6.03E-01	2.08E+00	1.00E+01	7.36E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Strontium-89	5.25E-01	4.94E-01	1.46E+00	1.00E+01	7.02E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Strontium-89	-1.90E+00	4.06E-01	1.84E+00	1.00E+01	6.55E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Strontium-89	-1.78E+00	7.18E-01	2.68E+00	1.00E+01	8.69E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Strontium-89	-3.90E-02	6.01E-01	1.99E+00	1.00E+01	6.61E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Strontium-89	-9.80E-01	6.60E-01	2.36E+00	1.00E+01	7.97E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Strontium-89	9.73E-01	9.16E-01	2.86E+00	1.00E+01	9.50E-01	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Strontium-90	-6.14E-01	2.73E-01	1.38E+00	2.00E+00	3.65E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Strontium-90	-1.90E-01	3.91E-01	1.78E+00	2.00E+00	5.30E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Strontium-90	1.52E+00	3.62E-01	1.59E+00	2.00E+00	5.41E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Strontium-90	6.50E-01	3.76E-01	1.77E+00	2.00E+00	5.73E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Strontium-90	5.92E-03	3.81E-01	1.68E+00	2.00E+00	5.12E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Strontium-90	3.13E-01	3.49E-01	1.75E+00	2.00E+00	5.49E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Strontium-90	3.60E-01	3.69E-01	1.61E+00	2.00E+00	5.00E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Strontium-90	2.21E-01	3.89E-01	1.82E+00	2.00E+00	5.63E-01	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Strontium-90	9.20E-01	4.39E-01	1.72E+00	2.00E+00	5.83E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Strontium-90	3.60E-02	1.89E-01	9.50E-01	2.00E+00	2.90E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Strontium-90	8.80E-01	3.91E-01	1.88E+00	2.00E+00	6.01E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Strontium-90	-1.14E+00	2.00E-01	1.02E+00	2.00E+00	2.87E-01	pCi/L	U



DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(502529001) - Drinking Water	28-Jan-20	Thorium-228	-3.79E+00	1.97E+00	3.59E+00		2.17E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Thorium-228	4.86E+00	2.06E+00	2.55E+00		2.07E+00	pCi/L	
DW-1(508675001) - Drinking Water	31-Mar-20	Thorium-228	1.56E+00	2.35E+00	4.07E+00		2.38E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Thorium-228	-3.23E+00	1.37E+00	2.84E+00		1.57E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Thorium-228	5.43E-01	1.87E+00	3.64E+00		1.88E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Thorium-228	1.02E-01	1.84E+00	4.20E+00		1.84E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Thorium-228	-3.13E+00	1.75E+00	3.52E+00		1.90E+00	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Thorium-228	2.50E+00	2.30E+00	4.10E+00		2.38E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Thorium-228	1.32E+00	1.57E+00	2.40E+00		1.57E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Thorium-228	-2.11E+00	1.88E+00	5.78E+00		1.95E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Thorium-228	2.60E+00	2.17E+00	3.12E+00		2.18E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Thorium-228	3.81E+00	2.09E+00	4.00E+00		2.27E+00	pCi/L	U
DW-1(510616001) - Drinking Water	31-Mar-20	Tritium	8.13E+01	1.12E+02	3.59E+02	5.00E+02	1.12E+02	pCi/L	U
DW-1(517031001) - Drinking Water	28-Jun-20	Tritium	5.09E+00	1.28E+02	4.21E+02	5.00E+02	1.28E+02	pCi/L	U
DW-1(526481001) - Drinking Water	29-Sep-20	Tritium	-5.53E+00	1.34E+02	4.40E+02	5.00E+02	1.34E+02	pCi/L	U
DW-1(533264001) - Drinking Water	29-Dec-20	Tritium	-9.49E+00	1.02E+02	3.36E+02	5.00E+02	1.02E+02	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Zinc-65	2.69E-02	1.17E+00	3.74E+00	3.00E+01	1.17E+00	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Zinc-65	4.78E-01	9.50E-01	3.21E+00	3.00E+01	9.57E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Zinc-65	-6.28E-01	1.11E+00	3.17E+00	3.00E+01	1.12E+00	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Zinc-65	8.30E-01	1.35E+00	2.98E+00	3.00E+01	1.35E+00	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Zinc-65	-5.39E-01	1.01E+00	3.25E+00	3.00E+01	1.02E+00	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Zinc-65	1.59E-01	1.13E+00	3.79E+00	3.00E+01	1.13E+00	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Zinc-65	1.19E+00	9.47E-01	3.35E+00	3.00E+01	9.87E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Zinc-65	2.06E+00	1.01E+00	3.75E+00	3.00E+01	1.12E+00	pCi/L	U
DW-1(522847001) - Drinking Water	29-Sep-20	Zinc-65	-4.70E-01	1.34E+00	2.81E+00	3.00E+01	1.34E+00	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Zinc-65	-1.07E+00	1.17E+00	3.18E+00	3.00E+01	1.19E+00	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Zinc-65	1.87E+00	1.11E+00	3.54E+00	3.00E+01	1.20E+00	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Zinc-65	9.30E-01	1.21E+00	3.73E+00	3.00E+01	1.23E+00	pCi/L	U
DW-1(502529001) - Drinking Water	28-Jan-20	Zirconium-95	1.25E+00	9.23E-01	3.23E+00	1.50E+01	9.68E-01	pCi/L	U
DW-1(505311001) - Drinking Water	25-Feb-20	Zirconium-95	-4.61E-01	7.89E-01	2.44E+00	1.50E+01	7.97E-01	pCi/L	U
DW-1(508675001) - Drinking Water	31-Mar-20	Zirconium-95	3.94E-01	8.67E-01	2.87E+00	1.50E+01	8.72E-01	pCi/L	U
DW-1(510297001) - Drinking Water	28-Apr-20	Zirconium-95	2.06E-02	7.31E-01	2.37E+00	1.50E+01	7.31E-01	pCi/L	U
DW-1(512281001) - Drinking Water	26-May-20	Zirconium-95	4.23E-01	9.03E-01	2.93E+00	1.50E+01	9.08E-01	pCi/L	U
DW-1(514808001) - Drinking Water	28-Jun-20	Zirconium-95	1.20E+00	8.27E-01	2.86E+00	1.50E+01	8.74E-01	pCi/L	U
DW-1(517328001) - Drinking Water	29-Jul-20	Zirconium-95	8.45E-01	7.92E-01	2.66E+00	1.50E+01	8.16E-01	pCi/L	U
DW-1(519832001) - Drinking Water	25-Aug-20	Zirconium-95	-3.52E-01	9.36E-01	2.98E+00	1.50E+01	9.40E-01	pCi/L	U

## DW-1

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1(522847001) - Drinking Water	29-Sep-20	Zirconium-95	6.51E-01	8.25E-01	2.53E+00	1.50E+01	8.39E-01	pCi/L	U
DW-1(525680001) - Drinking Water	27-Oct-20	Zirconium-95	1.35E+00	9.40E-01	3.27E+00	1.50E+01	9.92E-01	pCi/L	U
DW-1(528777001) - Drinking Water	24-Nov-20	Zirconium-95	5.81E-01	8.16E-01	2.75E+00	1.50E+01	8.27E-01	pCi/L	U
DW-1(531066001) - Drinking Water	29-Dec-20	Zirconium-95	-4.64E-01	1.01E+00	3.16E+00	1.50E+01	1.02E+00	pCi/L	U

## DW-1QC

## Drinking Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(502529002) - Drinking Water	28-Jan-20	Actinium-228	-3.59E+00	3.58E+00	7.68E+00		3.68E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Actinium-228	-1.21E+00	3.20E+00	6.48E+00		3.21E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Actinium-228	-3.06E+00	3.34E+00	7.54E+00		3.42E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Actinium-228	6.47E+00	3.52E+00	6.47E+00		3.91E+00	pCi/L	UI
DW-1QC(512281002) - Drinking Water	26-May-20	Actinium-228	-4.19E+00	3.05E+00	6.79E+00		3.20E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Actinium-228	-3.58E+00	3.14E+00	7.49E+00		3.25E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Actinium-228	-7.32E+00	4.36E+00	1.00E+01		4.68E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Actinium-228	3.10E+00	7.41E+00	1.18E+01		7.45E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Actinium-228	-4.98E+00	4.99E+00	8.87E+00		5.13E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Actinium-228	-2.31E+00	3.97E+00	9.04E+00		4.00E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Actinium-228	-8.54E+00	3.46E+00	7.99E+00		4.00E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Actinium-228	-7.74E+00	3.91E+00	7.41E+00		4.32E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Antimony-124	9.19E-01	1.39E+00	4.30E+00		1.41E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Antimony-124	-6.54E-02	9.71E-01	3.21E+00		9.71E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Antimony-124	7.77E-01	1.31E+00	4.55E+00		1.33E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Antimony-124	9.37E-01	9.26E-01	3.26E+00		9.52E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Antimony-124	1.93E+00	1.09E+00	3.91E+00		1.18E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Antimony-124	6.71E-02	1.42E+00	4.62E+00		1.42E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Antimony-124	-9.58E-01	1.74E+00	5.42E+00		1.75E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Antimony-124	1.48E+00	1.89E+00	6.55E+00		1.92E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Antimony-124	9.85E-01	1.38E+00	4.87E+00		1.40E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Antimony-124	4.71E-01	1.49E+00	4.94E+00		1.49E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Antimony-124	-1.21E-01	1.30E+00	4.37E+00		1.30E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Antimony-124	-8.09E-01	1.06E+00	3.39E+00		1.08E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Antimony-125	3.86E-01	1.35E+00	4.50E+00		1.35E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Antimony-125	1.35E-01	1.11E+00	3.68E+00		1.11E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Antimony-125	-1.50E-02	1.36E+00	4.50E+00		1.36E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Antimony-125	2.79E-01	1.09E+00	3.70E+00		1.09E+00	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Antimony-125	1.04E+00	1.18E+00	3.62E+00		1.20E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Antimony-125	2.86E+00	1.62E+00	5.51E+00		1.75E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Antimony-125	-1.38E-01	1.65E+00	5.62E+00		1.65E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Antimony-125	1.42E+00	1.64E+00	5.77E+00		1.68E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Antimony-125	4.34E-01	1.45E+00	4.85E+00		1.46E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Antimony-125	4.34E-01	1.72E+00	5.56E+00		1.72E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Antimony-125	1.14E+00	1.36E+00	4.64E+00		1.38E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Antimony-125	1.57E+00	1.43E+00	4.45E+00		1.47E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	BETA	2.63E+00	1.22E+00	3.46E+00	4.00E+00	1.24E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	BETA	1.14E+00	1.11E+00	3.42E+00	4.00E+00	1.12E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	BETA	9.10E-01	1.13E+00	3.54E+00	4.00E+00	1.13E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	BETA	1.36E+00	8.72E-01	2.51E+00	4.00E+00	8.80E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	BETA	2.38E+00	1.19E+00	3.63E+00	4.00E+00	1.20E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	BETA	2.92E+00	1.13E+00	3.16E+00	4.00E+00	1.16E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	BETA	-1.94E+00	9.09E-01	3.40E+00	4.00E+00	9.09E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	BETA	2.88E+00	1.20E+00	3.42E+00	4.00E+00	1.22E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	BETA	1.26E+00	1.14E+00	3.54E+00	4.00E+00	1.15E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	BETA	6.42E-01	8.38E-01	2.56E+00	4.00E+00	8.40E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	BETA	1.63E-01	1.12E+00	3.63E+00	4.00E+00	1.12E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	BETA	3.12E-01	1.02E+00	3.29E+00	4.00E+00	1.02E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Barium-140	3.85E+00	2.37E+00	8.11E+00	1.50E+01	2.53E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Barium-140	-1.78E-01	1.58E+00	5.09E+00	1.50E+01	1.58E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Barium-140	7.51E-01	2.15E+00	7.08E+00	1.50E+01	2.16E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Barium-140	2.29E-01	1.70E+00	5.71E+00	1.50E+01	1.70E+00	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Barium-140	-3.14E+00	2.00E+00	6.10E+00	1.50E+01	2.13E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Barium-140	3.49E-01	2.48E+00	7.94E+00	1.50E+01	2.49E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Barium-140	5.32E+00	2.93E+00	1.06E+01	1.50E+01	3.19E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Barium-140	2.58E+00	1.00E+01	1.25E+01	1.50E+01	1.00E+01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Barium-140	8.03E-02	2.78E+00	9.13E+00	1.50E+01	2.78E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Barium-140	-1.90E+00	3.32E+00	1.03E+01	1.50E+01	3.35E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Barium-140	3.13E-01	3.01E+00	8.86E+00	1.50E+01	3.01E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Barium-140	-9.05E+00	3.53E+00	7.48E+00	1.50E+01	4.12E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Beryllium-7	-7.50E+00	4.40E+00	1.36E+01		4.74E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Beryllium-7	5.30E+00	3.56E+00	1.21E+01		3.77E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Beryllium-7	1.94E+00	4.29E+00	1.43E+01		4.32E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Beryllium-7	-2.92E+00	3.39E+00	1.11E+01		3.46E+00	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Beryllium-7	-2.30E+00	3.72E+00	1.20E+01		3.76E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Beryllium-7	7.79E+00	5.00E+00	1.69E+01		5.32E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Beryllium-7	-2.04E+01	1.43E+01	1.76E+01		1.51E+01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Beryllium-7	1.20E+01	9.33E+00	1.75E+01		9.34E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Beryllium-7	8.10E-01	4.66E+00	1.55E+01		4.67E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Beryllium-7	9.30E-01	5.38E+00	1.73E+01		5.38E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Beryllium-7	3.57E+00	4.39E+00	1.49E+01		4.47E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Beryllium-7	-8.51E+00	4.39E+00	1.36E+01		4.82E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cerium-141	-4.43E+00	1.46E+00	2.80E+00		1.79E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cerium-141	1.34E+00	6.83E-01	2.11E+00		7.51E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cerium-141	-2.81E+00	1.37E+00	2.65E+00		1.52E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cerium-141	-1.33E+00	1.24E+00	2.46E+00		1.28E+00	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Cerium-141	-5.07E-01	8.21E-01	2.57E+00		8.29E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cerium-141	2.81E-01	2.07E+00	3.20E+00		2.07E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cerium-141	-8.06E+00	2.21E+00	3.53E+00		2.91E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cerium-141	-6.09E+00	1.97E+00	3.85E+00		2.43E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cerium-141	-2.45E+00	1.67E+00	3.75E+00		1.77E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cerium-141	3.49E+00	2.57E+00	3.49E+00		2.57E+00	pCi/L	UI
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cerium-141	-5.72E-01	8.87E-01	2.83E+00		8.97E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cerium-141	-1.72E+00	9.28E-01	2.88E+00		1.01E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cerium-144	6.26E-02	3.44E+00	1.11E+01		3.44E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cerium-144	2.21E+00	2.64E+00	8.66E+00		2.69E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cerium-144	1.73E+00	3.49E+00	1.13E+01		3.51E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cerium-144	-1.67E+00	3.32E+00	9.74E+00		3.35E+00	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Cerium-144	-5.74E+00	3.04E+00	9.27E+00		3.32E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cerium-144	-4.19E+00	4.21E+00	1.37E+01		4.32E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cerium-144	-4.13E+00	4.32E+00	1.41E+01		4.43E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cerium-144	-6.35E+00	4.56E+00	1.36E+01		4.80E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cerium-144	2.21E-01	4.02E+00	1.37E+01		4.02E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cerium-144	-1.94E+00	4.22E+00	1.39E+01		4.25E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cerium-144	3.87E+00	3.39E+00	1.13E+01		3.51E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cerium-144	-1.92E+00	3.48E+00	1.11E+01		3.50E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cesium-134	4.27E-02	5.52E-01	1.88E+00	1.50E+01	5.52E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cesium-134	3.22E-01	4.47E-01	1.54E+00	1.50E+01	4.53E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cesium-134	-3.45E-01	5.52E-01	1.83E+00	1.50E+01	5.58E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cesium-134	6.14E-01	4.29E-01	1.48E+00	1.50E+01	4.52E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Cesium-134	1.42E-01	4.85E-01	1.67E+00	1.50E+01	4.86E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cesium-134	3.20E-01	6.35E-01	2.18E+00	1.50E+01	6.40E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cesium-134	-1.43E-01	7.42E-01	2.39E+00	1.50E+01	7.43E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cesium-134	1.04E+00	7.54E-01	2.63E+00	1.50E+01	7.92E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cesium-134	1.46E+00	5.86E-01	2.13E+00	1.50E+01	6.79E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cesium-134	1.31E-01	6.22E-01	2.11E+00	1.50E+01	6.22E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cesium-134	-5.77E-01	1.02E+00	1.92E+00	1.50E+01	1.02E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cesium-134	6.69E-01	5.72E-01	1.91E+00	1.50E+01	5.93E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cesium-137	3.53E-01	5.49E-01	1.80E+00	1.80E+01	5.55E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cesium-137	5.46E-01	4.55E-01	1.50E+00	1.80E+01	4.72E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cesium-137	4.02E-01	5.11E-01	1.69E+00	1.80E+01	5.19E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cesium-137	9.44E-02	4.23E-01	1.41E+00	1.80E+01	4.23E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Cesium-137	1.10E-01	4.89E-01	1.58E+00	1.80E+01	4.89E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cesium-137	5.31E-01	6.06E-01	2.12E+00	1.80E+01	6.19E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cesium-137	-3.68E-02	7.00E-01	2.31E+00	1.80E+01	7.00E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cesium-137	-7.73E-01	7.24E-01	2.28E+00	1.80E+01	7.46E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cesium-137	4.31E-01	1.14E+00	1.85E+00	1.80E+01	1.14E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cesium-137	-3.01E-02	6.16E-01	2.08E+00	1.80E+01	6.16E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cesium-137	2.26E-01	5.51E-01	1.81E+00	1.80E+01	5.53E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cesium-137	-2.32E-01	5.81E-01	1.84E+00	1.80E+01	5.83E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Chromium-51	4.88E+00	4.48E+00	1.55E+01		4.63E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Chromium-51	-1.37E+00	3.28E+00	1.10E+01		3.30E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Chromium-51	7.67E+00	4.41E+00	1.55E+01		4.77E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Chromium-51	4.44E+00	3.64E+00	1.28E+01		3.79E+00	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Chromium-51	3.63E-01	4.24E+00	1.43E+01		4.24E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Chromium-51	-5.82E+00	5.04E+00	1.57E+01		5.22E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Chromium-51	1.20E+01	6.35E+00	2.12E+01		6.94E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Chromium-51	-6.42E+00	7.08E+00	2.16E+01		7.23E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Chromium-51	-2.39E+00	5.69E+00	1.88E+01		5.72E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Chromium-51	2.90E+00	5.53E+00	1.82E+01		5.57E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Chromium-51	1.01E+00	4.88E+00	1.67E+01		4.89E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Chromium-51	-4.40E-01	4.41E+00	1.50E+01		4.42E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cobalt-57	2.37E-01	4.52E-01	1.48E+00		4.55E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cobalt-57	-1.06E-01	3.56E-01	1.15E+00		3.57E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cobalt-57	5.89E-01	4.54E-01	1.50E+00		4.75E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cobalt-57	-2.07E-01	3.91E-01	1.25E+00		3.94E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Cobalt-57	-2.84E-01	4.01E-01	1.26E+00		4.06E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cobalt-57	4.63E-01	5.58E-01	1.88E+00		5.69E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cobalt-57	9.62E-03	5.70E-01	1.91E+00		5.70E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cobalt-57	8.36E-01	5.47E-01	1.88E+00		5.81E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cobalt-57	3.46E-01	5.42E-01	1.86E+00		5.49E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cobalt-57	4.69E-01	6.11E-01	1.85E+00		6.20E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cobalt-57	-2.53E-02	4.46E-01	1.46E+00		4.46E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cobalt-57	5.22E-02	4.47E-01	1.46E+00		4.47E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cobalt-58	8.64E-02	4.91E-01	1.67E+00	1.50E+01	4.91E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cobalt-58	4.74E-02	3.87E-01	1.30E+00	1.50E+01	3.87E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cobalt-58	-2.29E-01	4.76E-01	1.58E+00	1.50E+01	4.79E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cobalt-58	-1.65E-01	3.76E-01	1.21E+00	1.50E+01	3.78E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Cobalt-58	-4.63E-01	4.55E-01	1.49E+00	1.50E+01	4.68E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cobalt-58	-6.78E-01	5.60E-01	1.78E+00	1.50E+01	5.82E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cobalt-58	-9.54E-01	6.94E-01	2.08E+00	1.50E+01	7.29E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cobalt-58	-2.63E-01	7.11E-01	2.26E+00	1.50E+01	7.13E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cobalt-58	-9.73E-01	6.00E-01	1.79E+00	1.50E+01	6.42E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cobalt-58	-1.17E-01	6.24E-01	2.08E+00	1.50E+01	6.25E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cobalt-58	7.43E-01	5.12E-01	1.74E+00	1.50E+01	5.41E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cobalt-58	-4.73E-01	4.95E-01	1.29E+00	1.50E+01	5.07E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Cobalt-60	-8.09E-01	5.79E-01	1.72E+00	1.50E+01	6.10E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Cobalt-60	1.21E-01	4.89E-01	1.59E+00	1.50E+01	4.90E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Cobalt-60	1.26E-01	6.27E-01	2.06E+00	1.50E+01	6.27E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Cobalt-60	-7.99E-01	6.93E-01	1.51E+00	1.50E+01	7.18E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Cobalt-60	8.77E-01	5.40E-01	1.73E+00	1.50E+01	5.78E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Cobalt-60	3.82E-01	6.67E-01	2.26E+00	1.50E+01	6.73E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Cobalt-60	3.95E-01	7.25E-01	2.51E+00	1.50E+01	7.31E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Cobalt-60	-7.41E-01	1.14E+00	2.54E+00	1.50E+01	1.16E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Cobalt-60	1.36E+00	6.59E-01	2.36E+00	1.50E+01	7.33E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Cobalt-60	-1.67E-01	6.25E-01	2.02E+00	1.50E+01	6.27E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Cobalt-60	-7.30E-02	6.22E-01	2.02E+00	1.50E+01	6.22E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Cobalt-60	-5.85E-01	5.17E-01	1.57E+00	1.50E+01	5.35E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Iodine-131	-1.71E+00	7.38E-01	2.31E+00		8.40E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Iodine-131	-5.41E-01	4.42E-01	1.43E+00		4.60E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Iodine-131	-1.20E+00	7.53E-01	2.13E+00		8.04E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Iodine-131	-2.47E-01	5.19E-01	1.75E+00		5.23E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Iodine-131	8.23E-01	7.44E-01	2.56E+00		7.68E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Iodine-131	1.20E+00	7.78E-01	2.63E+00		8.27E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Iodine-131	-7.83E-01	1.19E+00	3.60E+00		1.20E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Iodine-131	3.23E-01	1.49E+00	4.68E+00		1.49E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Iodine-131	2.14E+00	1.11E+00	3.90E+00		1.22E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Iodine-131	-1.17E+00	1.08E+00	3.36E+00		1.11E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Iodine-131	-6.49E-01	9.07E-01	3.00E+00		9.19E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Iodine-131	3.65E-01	8.01E-01	2.74E+00		8.06E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Iron-59	-7.74E-01	1.00E+00	3.18E+00	3.00E+01	1.02E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Iron-59	1.10E+00	7.85E-01	2.71E+00	3.00E+01	8.26E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Iron-59	-1.34E+00	1.14E+00	3.57E+00	3.00E+01	1.18E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Iron-59	-9.97E-01	8.14E-01	2.45E+00	3.00E+01	8.48E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Iron-59	-1.52E+00	9.08E-01	2.78E+00	3.00E+01	9.76E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Iron-59	-1.24E+00	1.20E+00	3.76E+00	3.00E+01	1.23E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Iron-59	1.76E+00	1.46E+00	5.26E+00	3.00E+01	1.52E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Iron-59	-2.35E+00	1.55E+00	4.87E+00	3.00E+01	1.65E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Iron-59	8.22E-01	1.31E+00	4.34E+00	3.00E+01	1.33E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Iron-59	-1.21E-01	1.14E+00	3.77E+00	3.00E+01	1.14E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Iron-59	8.70E-01	1.19E+00	4.09E+00	3.00E+01	1.21E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Iron-59	-6.51E+00	1.94E+00	3.14E+00	3.00E+01	2.48E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Lanthanum-140	-1.04E+00	8.16E-01	2.12E+00	1.50E+01	8.52E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Lanthanum-140	-9.50E-02	4.68E-01	1.54E+00	1.50E+01	4.68E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Lanthanum-140	-6.08E-01	7.24E-01	2.33E+00	1.50E+01	7.38E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Lanthanum-140	-1.17E+00	5.61E-01	1.67E+00	1.50E+01	6.24E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Lanthanum-140	-6.92E-02	7.83E-01	2.51E+00	1.50E+01	7.83E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Lanthanum-140	9.70E-03	9.26E-01	3.02E+00	1.50E+01	9.26E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Lanthanum-140	-1.51E+00	1.12E+00	3.28E+00	1.50E+01	1.18E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Lanthanum-140	-1.02E+00	1.45E+00	4.54E+00	1.50E+01	1.47E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Lanthanum-140	-2.24E-01	1.06E+00	3.53E+00	1.50E+01	1.06E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Lanthanum-140	-8.22E-01	1.03E+00	3.16E+00	1.50E+01	1.04E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Lanthanum-140	4.02E-01	9.99E-01	3.29E+00	1.50E+01	1.00E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Lanthanum-140	-1.60E-01	9.67E-01	2.67E+00	1.50E+01	9.68E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Manganese-54	-2.53E+00	1.02E+00	1.65E+00	1.50E+01	1.18E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Manganese-54	7.66E-02	4.07E-01	1.37E+00	1.50E+01	4.07E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Manganese-54	-1.26E-01	5.33E-01	1.78E+00	1.50E+01	5.34E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Manganese-54	2.89E-01	3.87E-01	1.30E+00	1.50E+01	3.93E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Manganese-54	1.24E-01	4.28E-01	1.47E+00	1.50E+01	4.29E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Manganese-54	-8.97E-01	5.94E-01	1.86E+00	1.50E+01	6.30E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Manganese-54	-4.98E-03	7.10E-01	2.30E+00	1.50E+01	7.10E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Manganese-54	-4.13E-01	6.80E-01	2.13E+00	1.50E+01	6.87E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Manganese-54	-6.10E-01	5.75E-01	1.77E+00	1.50E+01	5.93E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Manganese-54	6.21E-01	5.96E-01	2.09E+00	1.50E+01	6.13E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Manganese-54	8.85E-03	4.99E-01	1.70E+00	1.50E+01	4.99E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Manganese-54	-6.25E-01	4.61E-01	1.48E+00	1.50E+01	4.83E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Niobium-95	2.40E-01	4.51E-01	1.57E+00	1.50E+01	4.55E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Niobium-95	1.84E-01	4.01E-01	1.37E+00	1.50E+01	4.03E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Niobium-95	-2.11E-01	4.87E-01	1.63E+00	1.50E+01	4.90E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Niobium-95	-1.74E-01	3.83E-01	1.23E+00	1.50E+01	3.85E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Niobium-95	-3.66E-01	5.20E-01	1.51E+00	1.50E+01	5.27E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Niobium-95	-6.16E-01	6.26E-01	2.03E+00	1.50E+01	6.42E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Niobium-95	9.14E-01	6.66E-01	2.32E+00	1.50E+01	6.99E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Niobium-95	-2.62E-02	7.10E-01	2.31E+00	1.50E+01	7.10E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Niobium-95	-2.69E-01	6.35E-01	2.03E+00	1.50E+01	6.39E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Niobium-95	1.27E+00	5.99E-01	2.19E+00	1.50E+01	6.68E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Niobium-95	-9.82E-01	5.62E-01	1.65E+00	1.50E+01	6.07E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Niobium-95	-2.30E+00	8.04E-01	1.65E+00	1.50E+01	9.68E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Potassium-40	-1.26E+01	1.18E+01	2.62E+01		1.21E+01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Potassium-40	-8.08E+00	8.90E+00	2.36E+01		9.10E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Potassium-40	-2.61E+01	1.09E+01	2.64E+01		1.25E+01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Potassium-40	7.86E+00	1.07E+01	1.13E+01		1.07E+01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Potassium-40	-6.62E+00	9.68E+00	2.38E+01		9.80E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Potassium-40	-1.06E+01	7.61E+00	2.30E+01		8.01E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Potassium-40	-1.82E+01	1.48E+01	3.60E+01		1.54E+01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Potassium-40	7.82E+00	1.89E+01	2.43E+01		1.89E+01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Potassium-40	1.30E+01	1.87E+01	1.79E+01		1.87E+01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Potassium-40	1.95E+01	1.59E+01	1.95E+01		1.60E+01	pCi/L	UI
DW-1QC(528777002) - Drinking Water	24-Nov-20	Potassium-40	-2.21E+01	1.18E+01	2.41E+01		1.29E+01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Potassium-40	1.50E+00	1.07E+01	1.69E+01		1.07E+01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Ruthenium-103	-3.22E-01	5.48E-01	1.56E+00		5.54E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Ruthenium-103	-6.16E-01	4.23E-01	1.32E+00		4.47E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Ruthenium-103	-7.97E-01	5.17E-01	1.60E+00		5.49E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Ruthenium-103	1.75E-01	4.30E-01	1.31E+00		4.32E-01	pCi/L	U



## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Ruthenium-103	-6.50E-01	5.41E-01	1.50E+00		5.62E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Ruthenium-103	-2.94E-01	6.08E-01	1.90E+00		6.12E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Ruthenium-103	-2.00E-01	6.76E-01	2.02E+00		6.78E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Ruthenium-103	-1.30E+00	7.96E-01	2.22E+00		8.53E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Ruthenium-103	-8.10E-01	6.37E-01	2.01E+00		6.65E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Ruthenium-103	-6.35E-01	6.61E-01	2.03E+00		6.78E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Ruthenium-103	-7.00E-01	5.32E-01	1.68E+00		5.57E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Ruthenium-103	-5.70E-01	5.71E-01	1.61E+00		5.86E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Ruthenium-106	-1.31E+00	4.47E+00	1.42E+01		4.48E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Ruthenium-106	-1.85E+00	3.97E+00	1.25E+01		4.00E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Ruthenium-106	-9.42E-01	4.42E+00	1.41E+01		4.43E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Ruthenium-106	1.14E+01	5.49E+00	1.14E+01		5.52E+00	pCi/L	UI
DW-1QC(512281002) - Drinking Water	26-May-20	Ruthenium-106	-5.12E+00	4.18E+00	1.28E+01		4.35E+00	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Ruthenium-106	-1.18E+00	5.09E+00	1.71E+01		5.09E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Ruthenium-106	-3.67E+00	5.93E+00	1.92E+01		6.00E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Ruthenium-106	1.14E+00	6.00E+00	2.01E+01		6.01E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Ruthenium-106	1.77E+00	4.75E+00	1.58E+01		4.77E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Ruthenium-106	-2.69E+00	5.09E+00	1.69E+01		5.12E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Ruthenium-106	-2.98E+00	4.98E+00	1.58E+01		5.03E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Ruthenium-106	-5.63E+00	4.52E+00	1.39E+01		4.71E+00	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Selenium-75	-2.30E-01	6.36E-01	2.15E+00		6.38E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Selenium-75	1.73E+00	8.42E-01	1.73E+00		9.37E-01	pCi/L	UI
DW-1QC(508675002) - Drinking Water	31-Mar-20	Selenium-75	-1.93E-02	6.66E-01	2.27E+00		6.66E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Selenium-75	2.57E-01	5.92E-01	1.87E+00		5.95E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Selenium-75	5.39E-01	5.72E-01	1.98E+00		5.85E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Selenium-75	1.58E+00	8.87E-01	2.74E+00		9.60E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Selenium-75	3.35E-01	8.84E-01	2.85E+00		8.87E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Selenium-75	8.48E-01	8.78E-01	2.88E+00		9.00E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Selenium-75	-4.32E-01	7.60E-01	2.51E+00		7.67E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Selenium-75	-2.22E-01	8.03E-01	2.60E+00		8.05E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Selenium-75	5.48E-02	6.95E-01	2.17E+00		6.96E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Selenium-75	2.44E-01	6.22E-01	2.16E+00		6.24E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Silver-108m	5.30E-01	4.50E-01	1.54E+00		4.67E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Silver-108m	-6.95E-03	3.55E-01	1.17E+00		3.55E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Silver-108m	-3.42E-01	4.56E-01	1.47E+00		4.63E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Silver-108m	-5.60E-01	3.63E-01	1.18E+00		3.86E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Silver-108m	5.35E-03	3.83E-01	1.27E+00		3.83E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Silver-108m	3.91E-01	5.47E-01	1.80E+00		5.54E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Silver-108m	5.82E-01	6.33E-01	2.02E+00		6.48E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Silver-108m	7.20E-01	5.68E-01	2.01E+00		5.92E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Silver-108m	-4.63E-01	4.91E-01	1.57E+00		5.03E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Silver-108m	3.38E-01	5.31E-01	1.74E+00		5.37E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Silver-108m	-2.75E-01	4.63E-01	1.52E+00		4.68E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Silver-108m	7.55E-01	4.37E-01	1.53E+00		4.72E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Silver-110m	3.89E-03	6.83E-01	2.29E+00		6.83E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Silver-110m	5.24E-01	5.72E-01	1.96E+00		5.85E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Silver-110m	5.44E-01	6.95E-01	2.41E+00		7.07E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Silver-110m	-8.40E-01	5.48E-01	1.66E+00		5.82E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Silver-110m	-7.95E-01	6.07E-01	1.94E+00		6.35E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Silver-110m	6.61E-01	7.91E-01	2.75E+00		8.06E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Silver-110m	-5.79E-01	9.07E-01	2.81E+00		9.17E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Silver-110m	-6.07E-01	1.01E+00	3.14E+00		1.02E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Silver-110m	-1.39E+00	7.34E-01	2.11E+00		8.03E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Silver-110m	-1.21E+00	7.85E-01	2.44E+00		8.35E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Silver-110m	-7.88E-02	6.88E-01	2.31E+00		6.88E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Silver-110m	1.04E+00	6.58E-01	2.37E+00		7.02E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Strontium-89	1.49E+00	7.30E-01	2.14E+00	1.00E+01	9.57E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Strontium-89	-9.37E-01	4.91E-01	1.92E+00	1.00E+01	7.33E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Strontium-89	-2.41E+00	4.12E-01	1.97E+00	1.00E+01	4.79E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Strontium-89	-2.69E-01	5.92E-01	2.01E+00	1.00E+01	6.93E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Strontium-89	-1.14E+00	4.45E-01	1.80E+00	1.00E+01	7.40E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Strontium-89	-2.07E+00	4.48E-01	2.06E+00	1.00E+01	6.85E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Strontium-89	-2.59E+00	5.34E-01	2.40E+00	1.00E+01	7.08E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Strontium-89	-6.88E-01	5.67E-01	2.02E+00	1.00E+01	7.15E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Strontium-89	-8.64E-01	4.57E-01	1.73E+00	1.00E+01	6.31E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Strontium-89	4.91E-01	6.32E-01	1.95E+00	1.00E+01	6.54E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Strontium-89	-7.18E-01	9.65E-01	3.29E+00	1.00E+01	1.11E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Strontium-89	-1.91E-01	9.19E-01	3.06E+00	1.00E+01	9.71E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Strontium-90	-2.15E-01	3.96E-01	1.79E+00	2.00E+00	5.31E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Strontium-90	2.11E-01	3.90E-01	1.67E+00	2.00E+00	5.29E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Strontium-90	9.26E-01	2.22E-01	1.33E+00	2.00E+00	4.31E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Strontium-90	-5.80E-01	2.51E-01	1.46E+00	2.00E+00	3.93E-01	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(512281002) - Drinking Water	26-May-20	Strontium-90	9.71E-01	4.31E-01	1.72E+00	2.00E+00	5.87E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Strontium-90	1.12E+00	3.81E-01	1.78E+00	2.00E+00	6.07E-01	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Strontium-90	8.34E-02	3.50E-01	1.52E+00	2.00E+00	4.69E-01	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Strontium-90	6.44E-01	3.97E-01	1.71E+00	2.00E+00	5.75E-01	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Strontium-90	-1.77E-01	4.35E-01	1.91E+00	2.00E+00	5.73E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Strontium-90	-8.68E-01	1.11E-01	1.92E+00	2.00E+00	5.65E-01	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Strontium-90	1.51E+00	4.05E-01	1.89E+00	2.00E+00	6.32E-01	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Strontium-90	1.08E+00	2.55E-01	1.15E+00	2.00E+00	3.81E-01	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Thorium-228	-2.84E+00	2.01E+00	3.76E+00		2.12E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Thorium-228	-1.69E+00	1.18E+00	2.84E+00		1.24E+00	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Thorium-228	1.49E+00	1.88E+00	3.55E+00		1.92E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Thorium-228	1.17E+00	2.00E+00	3.14E+00		2.01E+00	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Thorium-228	3.34E+00	2.07E+00	3.34E+00		2.22E+00	pCi/L	UI
DW-1QC(514808002) - Drinking Water	28-Jun-20	Thorium-228	-2.19E+00	1.82E+00	4.30E+00		1.89E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Thorium-228	-3.20E-01	2.06E+00	4.96E+00		2.07E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Thorium-228	2.85E+00	2.64E+00	5.23E+00		2.73E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Thorium-228	3.33E+00	2.47E+00	3.33E+00		2.49E+00	pCi/L	UI
DW-1QC(525680002) - Drinking Water	27-Oct-20	Thorium-228	3.37E+00	2.80E+00	4.38E+00		2.91E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Thorium-228	2.92E+00	2.05E+00	3.70E+00		2.16E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Thorium-228	-1.82E+00	1.51E+00	3.71E+00		1.57E+00	pCi/L	U
DW-1QC(510616002) - Drinking Water	31-Mar-20	Tritium	1.84E+02	1.31E+02	4.09E+02	5.00E+02	1.33E+02	pCi/L	U
DW-1QC(517031002) - Drinking Water	28-Jun-20	Tritium	2.84E+01	1.38E+02	4.50E+02	5.00E+02	1.38E+02	pCi/L	U
DW-1QC(526481002) - Drinking Water	29-Sep-20	Tritium	1.32E+02	1.40E+02	4.45E+02	5.00E+02	1.41E+02	pCi/L	U
DW-1QC(533264002) - Drinking Water	29-Dec-20	Tritium	9.28E+01	1.06E+02	3.38E+02	5.00E+02	1.06E+02	pCi/L	U
DW-1QC(502529002) - Drinking Water	28-Jan-20	Zinc-65	8.53E-01	1.06E+00	3.64E+00	3.00E+01	1.08E+00	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Zinc-65	-1.72E+00	8.77E-01	2.62E+00	3.00E+01	9.65E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Zinc-65	1.17E+00	1.17E+00	4.02E+00	3.00E+01	1.20E+00	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Zinc-65	2.99E-01	8.05E-01	2.62E+00	3.00E+01	8.08E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Zinc-65	2.91E-01	8.80E-01	2.97E+00	3.00E+01	8.83E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Zinc-65	9.78E-01	1.22E+00	4.22E+00	3.00E+01	1.24E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Zinc-65	-2.75E+00	1.59E+00	4.07E+00	3.00E+01	1.71E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Zinc-65	-5.34E+00	1.39E+00	3.57E+00	3.00E+01	1.87E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Zinc-65	1.12E+00	1.21E+00	4.07E+00	3.00E+01	1.24E+00	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Zinc-65	2.33E+00	1.34E+00	4.81E+00	3.00E+01	1.45E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Zinc-65	-1.74E+00	1.36E+00	3.61E+00	3.00E+01	1.42E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Zinc-65	-1.44E+00	1.00E+00	3.07E+00	3.00E+01	1.06E+00	pCi/L	U

## DW-1QC

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-1QC(502529002) - Drinking Water	28-Jan-20	Zirconium-95	2.14E-01	8.14E-01	2.79E+00	1.50E+01	8.15E-01	pCi/L	U
DW-1QC(505311002) - Drinking Water	25-Feb-20	Zirconium-95	8.52E-01	7.48E-01	2.34E+00	1.50E+01	7.74E-01	pCi/L	U
DW-1QC(508675002) - Drinking Water	31-Mar-20	Zirconium-95	-5.03E-01	8.58E-01	2.85E+00	1.50E+01	8.66E-01	pCi/L	U
DW-1QC(510297002) - Drinking Water	28-Apr-20	Zirconium-95	-1.31E-03	6.90E-01	2.26E+00	1.50E+01	6.90E-01	pCi/L	U
DW-1QC(512281002) - Drinking Water	26-May-20	Zirconium-95	1.21E+00	7.82E-01	2.66E+00	1.50E+01	8.32E-01	pCi/L	U
DW-1QC(514808002) - Drinking Water	28-Jun-20	Zirconium-95	-1.69E+00	9.89E-01	3.08E+00	1.50E+01	1.07E+00	pCi/L	U
DW-1QC(517328002) - Drinking Water	29-Jul-20	Zirconium-95	-4.62E-01	1.11E+00	3.54E+00	1.50E+01	1.11E+00	pCi/L	U
DW-1QC(519832002) - Drinking Water	25-Aug-20	Zirconium-95	-1.41E+00	1.26E+00	3.87E+00	1.50E+01	1.30E+00	pCi/L	U
DW-1QC(522847002) - Drinking Water	29-Sep-20	Zirconium-95	-8.33E-02	9.34E-01	3.02E+00	1.50E+01	9.34E-01	pCi/L	U
DW-1QC(525680002) - Drinking Water	27-Oct-20	Zirconium-95	4.04E-01	1.02E+00	3.48E+00	1.50E+01	1.02E+00	pCi/L	U
DW-1QC(528777002) - Drinking Water	24-Nov-20	Zirconium-95	-7.81E-01	1.02E+00	3.14E+00	1.50E+01	1.04E+00	pCi/L	U
DW-1QC(531066002) - Drinking Water	29-Dec-20	Zirconium-95	1.25E+00	9.10E-01	3.08E+00	1.50E+01	9.56E-01	pCi/L	U

## DW-2

## Drinking Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(502529003) - Drinking Water	28-Jan-20	Actinium-228	-1.55E+00	4.25E+00	1.12E+01		4.26E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Actinium-228	-1.69E+00	3.66E+00	7.84E+00		3.68E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Actinium-228	2.35E+00	4.24E+00	7.10E+00		4.28E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Actinium-228	-4.02E+00	2.48E+00	5.81E+00		2.66E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Actinium-228	1.58E+00	4.65E+00	7.31E+00		4.67E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Actinium-228	8.15E-01	3.17E+00	6.94E+00		3.18E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Actinium-228	-9.94E-01	3.76E+00	7.02E+00		3.76E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Actinium-228	-3.26E+00	2.35E+00	4.83E+00		2.48E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Actinium-228	3.34E+00	4.23E+00	5.41E+00		4.23E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Actinium-228	2.01E+00	3.93E+00	8.04E+00		3.96E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Actinium-228	-6.73E+00	2.79E+00	5.29E+00		3.20E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Actinium-228	7.37E-01	4.47E+00	5.96E+00		4.47E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Antimony-124	-3.08E+00	1.82E+00	4.87E+00		1.96E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Antimony-124	2.50E+00	1.13E+00	4.24E+00		1.27E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Antimony-124	1.07E+00	9.89E-01	3.46E+00		1.02E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Antimony-124	-1.03E-01	1.02E+00	2.93E+00		1.02E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Antimony-124	-8.61E-01	1.05E+00	3.29E+00		1.07E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Antimony-124	3.06E+00	1.03E+00	4.12E+00		1.26E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Antimony-124	-9.00E-01	1.10E+00	3.39E+00		1.12E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Antimony-124	8.93E-01	1.04E+00	3.58E+00		1.06E+00	pCi/L	U

DW-2

Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Antimony-124	7.94E-01	9.53E-01	3.35E+00		9.71E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Antimony-124	8.07E-01	1.11E+00	3.91E+00		1.12E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Antimony-124	-9.23E-01	7.94E-01	2.36E+00		8.22E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Antimony-124	-3.59E-01	1.02E+00	3.34E+00		1.03E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Antimony-125	-1.51E+00	1.91E+00	6.18E+00		1.95E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Antimony-125	-3.99E+00	1.42E+00	4.21E+00		1.70E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Antimony-125	-2.29E+00	2.13E+00	3.95E+00		2.19E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Antimony-125	1.09E-01	9.82E-01	3.33E+00		9.82E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Antimony-125	-2.06E+00	1.27E+00	3.94E+00		1.36E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Antimony-125	-2.31E+00	1.84E+00	3.67E+00		1.92E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Antimony-125	1.18E+00	1.26E+00	4.38E+00		1.29E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Antimony-125	-1.10E+00	9.41E-01	3.08E+00		9.76E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Antimony-125	2.68E+00	1.20E+00	4.30E+00		1.35E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Antimony-125	1.39E+00	1.21E+00	4.31E+00		1.25E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Antimony-125	3.08E-02	9.71E-01	3.30E+00		9.71E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Antimony-125	1.92E+00	1.37E+00	4.58E+00		1.44E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	BETA	-4.94E-01	9.72E-01	3.29E+00	4.00E+00	9.72E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	BETA	2.18E+00	1.14E+00	3.31E+00	4.00E+00	1.15E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	BETA	2.57E+00	1.16E+00	3.35E+00	4.00E+00	1.18E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	BETA	6.61E-01	9.10E-01	2.81E+00	4.00E+00	9.13E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	BETA	5.23E-01	7.94E-01	2.52E+00	4.00E+00	7.95E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	BETA	8.94E-01	1.10E+00	3.45E+00	4.00E+00	1.10E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	BETA	1.36E+00	1.06E+00	3.22E+00	4.00E+00	1.07E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	BETA	8.43E-03	9.79E-01	3.20E+00	4.00E+00	9.79E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	BETA	-1.98E-01	8.86E-01	2.95E+00	4.00E+00	8.86E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	BETA	9.14E-01	8.05E-01	2.39E+00	4.00E+00	8.09E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	BETA	1.58E+00	8.54E-01	2.40E+00	4.00E+00	8.65E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	BETA	3.70E-01	1.09E+00	3.52E+00	4.00E+00	1.09E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Barium-140	-7.97E-01	3.56E+00	1.16E+01	1.50E+01	3.56E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Barium-140	1.22E+00	1.91E+00	6.29E+00	1.50E+01	1.93E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Barium-140	-1.97E+00	1.98E+00	5.58E+00	1.50E+01	2.03E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Barium-140	-3.97E-01	1.49E+00	4.92E+00	1.50E+01	1.49E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Barium-140	2.04E+00	2.32E+00	7.67E+00	1.50E+01	2.37E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Barium-140	9.21E-01	1.76E+00	5.98E+00	1.50E+01	1.77E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Barium-140	-1.24E+00	2.44E+00	7.99E+00	1.50E+01	2.45E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Barium-140	3.12E+00	1.95E+00	6.89E+00	1.50E+01	2.08E+00	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Barium-140	2.74E-01	2.36E+00	7.92E+00	1.50E+01	2.36E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Barium-140	1.04E+00	2.41E+00	8.28E+00	1.50E+01	2.43E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Barium-140	2.15E+00	1.89E+00	6.56E+00	1.50E+01	1.95E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Barium-140	-1.05E+01	4.90E+00	7.27E+00	1.50E+01	5.48E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Beryllium-7	8.07E+00	1.03E+01	1.61E+01		1.03E+01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Beryllium-7	-5.06E-01	3.99E+00	1.29E+01		3.99E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Beryllium-7	3.16E+00	3.64E+00	1.25E+01		3.72E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Beryllium-7	-2.61E-01	2.94E+00	9.85E+00		2.94E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Beryllium-7	2.01E+00	4.16E+00	1.37E+01		4.19E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Beryllium-7	6.64E+00	4.23E+00	1.37E+01		4.51E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Beryllium-7	2.39E+00	4.19E+00	1.43E+01		4.22E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Beryllium-7	-4.59E+00	3.23E+00	1.04E+01		3.41E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Beryllium-7	-8.23E-01	3.76E+00	1.25E+01		3.76E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Beryllium-7	1.09E+01	4.07E+00	1.52E+01		4.81E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Beryllium-7	3.71E-01	3.16E+00	1.07E+01		3.16E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Beryllium-7	-7.98E-01	4.63E+00	1.31E+01		4.63E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cerium-141	-1.16E+00	1.58E+00	4.52E+00		1.60E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cerium-141	1.22E+00	9.28E-01	2.78E+00		9.70E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cerium-141	1.04E+00	1.69E+00	2.33E+00		1.69E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cerium-141	-4.94E-01	6.60E-01	2.10E+00		6.70E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cerium-141	-6.61E+00	1.19E+00	2.52E+00		1.95E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cerium-141	-2.04E-01	7.59E-01	2.25E+00		7.61E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cerium-141	3.08E+00	1.38E+00	3.08E+00		1.39E+00	pCi/L	UI
DW-2(519832003) - Drinking Water	25-Aug-20	Cerium-141	-4.79E+00	1.15E+00	2.25E+00		1.61E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Cerium-141	4.14E-01	9.86E-01	2.94E+00		9.91E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cerium-141	-1.07E+00	9.28E-01	2.73E+00		9.62E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cerium-141	-3.71E+00	1.08E+00	2.06E+00		1.38E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cerium-141	-3.63E+00	1.32E+00	2.79E+00		1.57E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cerium-144	-3.06E+00	5.62E+00	1.77E+01		5.67E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cerium-144	-4.52E+00	3.59E+00	1.10E+01		3.74E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cerium-144	2.40E+00	3.24E+00	1.06E+01		3.29E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cerium-144	-5.53E+00	2.51E+00	7.76E+00		2.82E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cerium-144	-1.73E-01	3.14E+00	9.95E+00		3.14E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cerium-144	1.02E+00	3.09E+00	1.01E+01		3.10E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cerium-144	-1.01E+00	3.54E+00	1.15E+01		3.54E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cerium-144	-5.83E-01	2.32E+00	7.58E+00		2.32E+00	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Cerium-144	-5.43E+00	3.31E+00	1.03E+01		3.55E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cerium-144	-3.79E+00	3.25E+00	1.04E+01		3.37E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cerium-144	2.10E+00	2.47E+00	8.26E+00		2.52E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cerium-144	4.47E+00	3.30E+00	1.14E+01		3.46E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cesium-134	-4.06E-01	7.07E-01	2.17E+00	1.50E+01	7.13E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cesium-134	2.80E-01	5.71E-01	1.95E+00	1.50E+01	5.74E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cesium-134	1.02E+00	9.03E-01	1.75E+00	1.50E+01	9.34E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cesium-134	-1.47E+00	8.43E-01	1.36E+00	1.50E+01	9.10E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cesium-134	6.60E-01	5.05E-01	1.76E+00	1.50E+01	5.28E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cesium-134	8.30E-01	5.32E-01	1.86E+00	1.50E+01	5.66E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cesium-134	8.55E-01	6.53E-01	1.62E+00	1.50E+01	6.83E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cesium-134	-3.75E-01	4.12E-01	1.28E+00	1.50E+01	4.22E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Cesium-134	1.24E+00	5.05E-01	1.80E+00	1.50E+01	5.82E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cesium-134	1.44E-01	5.18E-01	1.73E+00	1.50E+01	5.19E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cesium-134	4.62E-01	4.14E-01	1.42E+00	1.50E+01	4.28E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cesium-134	-1.87E-01	5.11E-01	1.68E+00	1.50E+01	5.13E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cesium-137	-3.90E-02	7.59E-01	2.47E+00	1.80E+01	7.59E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cesium-137	3.72E-01	5.14E-01	1.79E+00	1.80E+01	5.21E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cesium-137	-8.64E-01	5.00E-01	1.53E+00	1.80E+01	5.39E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cesium-137	-1.58E-01	3.82E-01	1.24E+00	1.80E+01	3.84E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cesium-137	-2.55E-01	4.63E-01	1.54E+00	1.80E+01	4.67E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cesium-137	-2.86E-02	5.15E-01	1.69E+00	1.80E+01	5.15E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cesium-137	1.50E-01	5.15E-01	1.72E+00	1.80E+01	5.17E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cesium-137	-4.62E-02	3.89E-01	1.28E+00	1.80E+01	3.90E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Cesium-137	2.77E-01	4.70E-01	1.58E+00	1.80E+01	4.74E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cesium-137	-1.78E+00	7.27E-01	1.66E+00	1.80E+01	8.37E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cesium-137	-6.08E-01	3.92E-01	1.21E+00	1.80E+01	4.17E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cesium-137	-8.39E-02	4.97E-01	1.66E+00	1.80E+01	4.97E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Chromium-51	2.50E-01	6.98E+00	2.38E+01		6.98E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Chromium-51	8.85E+00	5.03E+00	1.47E+01		5.44E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Chromium-51	3.75E+00	3.88E+00	1.35E+01		3.98E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Chromium-51	2.55E+00	3.18E+00	1.11E+01		3.23E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Chromium-51	-2.30E+00	4.18E+00	1.38E+01		4.21E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Chromium-51	3.04E+00	3.64E+00	1.28E+01		3.70E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Chromium-51	-6.67E+00	4.62E+00	1.54E+01		4.88E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Chromium-51	8.12E+00	3.87E+00	1.29E+01		4.31E+00	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Chromium-51	-2.01E+00	4.85E+00	1.48E+01		4.87E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Chromium-51	7.32E+00	4.58E+00	1.53E+01		4.89E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Chromium-51	-1.88E+00	3.87E+00	1.09E+01		3.89E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Chromium-51	4.35E+00	4.61E+00	1.54E+01		4.72E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cobalt-57	2.55E-01	7.02E-01	2.28E+00		7.05E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cobalt-57	9.38E-02	4.81E-01	1.53E+00		4.81E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cobalt-57	-1.00E-01	4.01E-01	1.29E+00		4.02E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cobalt-57	1.30E-01	3.26E-01	1.07E+00		3.28E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cobalt-57	4.85E-01	4.12E-01	1.35E+00		4.27E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cobalt-57	1.01E+00	5.68E-01	1.27E+00		5.70E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cobalt-57	1.12E+00	6.45E-01	1.62E+00		6.48E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cobalt-57	-1.51E-01	3.00E-01	9.81E-01		3.02E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Cobalt-57	2.23E-01	4.39E-01	1.43E+00		4.42E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cobalt-57	-1.48E-03	4.61E-01	1.42E+00		4.61E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cobalt-57	-6.05E-01	3.08E-01	9.76E-01		3.39E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cobalt-57	2.34E-01	4.19E-01	1.44E+00		4.23E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cobalt-58	2.82E-01	7.83E-01	2.57E+00	1.50E+01	7.86E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cobalt-58	-2.22E-01	4.92E-01	1.62E+00	1.50E+01	4.94E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cobalt-58	-2.20E-01	4.43E-01	1.39E+00	1.50E+01	4.46E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cobalt-58	2.64E-01	3.74E-01	1.25E+00	1.50E+01	3.79E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cobalt-58	-1.00E+00	4.66E-01	1.43E+00	1.50E+01	5.21E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cobalt-58	1.83E-01	4.50E-01	1.49E+00	1.50E+01	4.52E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cobalt-58	2.74E-01	4.93E-01	1.64E+00	1.50E+01	4.97E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cobalt-58	-7.94E-02	3.88E-01	1.25E+00	1.50E+01	3.88E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Cobalt-58	-3.59E-01	4.20E-01	1.31E+00	1.50E+01	4.28E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cobalt-58	-1.11E+00	4.75E-01	1.32E+00	1.50E+01	5.41E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cobalt-58	-5.07E-02	3.91E-01	1.26E+00	1.50E+01	3.91E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cobalt-58	3.14E-01	5.05E-01	1.72E+00	1.50E+01	5.10E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Cobalt-60	-2.88E-01	8.08E-01	2.62E+00	1.50E+01	8.11E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Cobalt-60	-3.67E-02	5.63E-01	1.80E+00	1.50E+01	5.63E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Cobalt-60	-2.48E-01	4.20E-01	1.35E+00	1.50E+01	4.24E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Cobalt-60	-2.09E-01	3.77E-01	1.23E+00	1.50E+01	3.80E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Cobalt-60	-4.52E-01	4.79E-01	1.55E+00	1.50E+01	4.91E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Cobalt-60	2.36E+00	1.21E+00	2.41E+00	1.50E+01	1.33E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Cobalt-60	-3.21E-01	4.80E-01	1.55E+00	1.50E+01	4.86E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Cobalt-60	-4.06E-02	3.88E-01	1.30E+00	1.50E+01	3.89E-01	pCi/L	U



DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Cobalt-60	3.53E-01	4.01E-01	1.42E+00	1.50E+01	4.09E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Cobalt-60	-6.52E-01	7.23E-01	1.82E+00	1.50E+01	7.39E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Cobalt-60	5.68E-01	4.17E-01	1.49E+00	1.50E+01	4.38E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Cobalt-60	8.41E-01	5.37E-01	1.86E+00	1.50E+01	5.72E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Iodine-131	-1.21E+00	1.56E+00	3.88E+00		1.58E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Iodine-131	1.67E-01	5.90E-01	1.96E+00		5.91E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Iodine-131	-5.48E-01	5.52E-01	1.82E+00		5.67E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Iodine-131	5.00E-01	4.34E-01	1.53E+00		4.50E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Iodine-131	2.72E-01	8.42E-01	2.52E+00		8.44E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Iodine-131	4.98E-01	5.30E-01	1.86E+00		5.42E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Iodine-131	-9.38E-01	7.97E-01	2.64E+00		8.27E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Iodine-131	5.65E-01	7.66E-01	2.68E+00		7.77E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Iodine-131	-1.66E+00	8.84E-01	2.87E+00		9.66E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Iodine-131	-3.33E-01	8.75E-01	2.68E+00		8.79E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Iodine-131	4.87E-02	6.77E-01	2.33E+00		6.77E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Iodine-131	4.26E-01	8.17E-01	2.69E+00		8.23E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Iron-59	1.12E+00	1.55E+00	5.47E+00	3.00E+01	1.57E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Iron-59	-4.28E-01	9.84E-01	3.14E+00	3.00E+01	9.89E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Iron-59	8.72E-01	8.38E-01	2.68E+00	3.00E+01	8.63E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Iron-59	3.20E-01	7.94E-01	2.57E+00	3.00E+01	7.98E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Iron-59	8.74E-01	9.26E-01	3.14E+00	3.00E+01	9.48E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Iron-59	-6.41E-01	9.57E-01	2.91E+00	3.00E+01	9.68E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Iron-59	9.45E-01	1.07E+00	3.55E+00	3.00E+01	1.09E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Iron-59	-5.32E-01	1.29E+00	3.08E+00	3.00E+01	1.30E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Iron-59	7.94E-01	9.47E-01	3.16E+00	3.00E+01	9.66E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Iron-59	2.87E-02	1.09E+00	3.50E+00	3.00E+01	1.09E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Iron-59	1.95E-01	8.25E-01	2.65E+00	3.00E+01	8.26E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Iron-59	-7.47E-01	9.35E-01	2.93E+00	3.00E+01	9.52E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Lanthanum-140	1.68E+00	9.98E-01	3.83E+00	1.50E+01	1.07E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Lanthanum-140	1.48E+00	6.88E-01	2.56E+00	1.50E+01	7.70E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Lanthanum-140	-5.12E+00	1.61E+00	1.73E+00	1.50E+01	2.01E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Lanthanum-140	2.31E-01	5.20E-01	1.58E+00	1.50E+01	5.22E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Lanthanum-140	-4.71E-01	7.26E-01	2.33E+00	1.50E+01	7.35E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Lanthanum-140	-5.62E-01	7.56E-01	2.05E+00	1.50E+01	7.67E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Lanthanum-140	-1.69E+00	1.33E+00	2.55E+00	1.50E+01	1.38E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Lanthanum-140	-4.44E-01	7.03E-01	2.23E+00	1.50E+01	7.11E-01	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Lanthanum-140	3.32E-01	7.66E-01	2.63E+00	1.50E+01	7.70E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Lanthanum-140	1.22E-02	8.87E-01	2.86E+00	1.50E+01	8.87E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Lanthanum-140	-4.71E-01	1.04E+00	2.09E+00	1.50E+01	1.05E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Lanthanum-140	3.16E-02	7.70E-01	2.59E+00	1.50E+01	7.70E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Manganese-54	-9.82E-01	7.89E-01	2.33E+00	1.50E+01	8.22E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Manganese-54	4.20E-01	4.66E-01	1.61E+00	1.50E+01	4.76E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Manganese-54	4.69E-01	4.63E-01	1.55E+00	1.50E+01	4.75E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Manganese-54	-5.81E-01	3.57E-01	1.07E+00	1.50E+01	3.82E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Manganese-54	-4.65E-01	4.48E-01	1.43E+00	1.50E+01	4.61E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Manganese-54	-4.74E-01	4.37E-01	1.33E+00	1.50E+01	4.51E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Manganese-54	3.36E-01	4.68E-01	1.57E+00	1.50E+01	4.75E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Manganese-54	-9.01E-02	3.63E-01	1.16E+00	1.50E+01	3.63E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Manganese-54	6.22E-01	4.15E-01	1.44E+00	1.50E+01	4.40E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Manganese-54	5.59E-01	4.62E-01	1.61E+00	1.50E+01	4.80E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Manganese-54	-2.04E-01	4.07E-01	1.29E+00	1.50E+01	4.10E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Manganese-54	-2.42E-01	4.79E-01	1.56E+00	1.50E+01	4.83E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Niobium-95	-3.90E-01	7.12E-01	2.22E+00	1.50E+01	7.18E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Niobium-95	1.29E+00	4.88E-01	1.79E+00	1.50E+01	5.74E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Niobium-95	6.30E-01	9.89E-01	1.56E+00	1.50E+01	1.00E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Niobium-95	2.20E-01	3.76E-01	1.26E+00	1.50E+01	3.80E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Niobium-95	1.83E-01	4.67E-01	1.59E+00	1.50E+01	4.69E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Niobium-95	1.25E+00	1.04E+00	1.25E+00	1.50E+01	1.04E+00	pCi/L	UI
DW-2(517328003) - Drinking Water	29-Jul-20	Niobium-95	-5.45E-02	4.93E-01	1.60E+00	1.50E+01	4.93E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Niobium-95	7.18E-01	4.45E-01	1.41E+00	1.50E+01	4.76E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Niobium-95	-2.40E-01	4.47E-01	1.43E+00	1.50E+01	4.50E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Niobium-95	-1.50E-01	5.09E-01	1.65E+00	1.50E+01	5.10E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Niobium-95	-6.06E-01	6.66E-01	1.34E+00	1.50E+01	6.81E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Niobium-95	5.21E-01	4.61E-01	1.60E+00	1.50E+01	4.77E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Potassium-40	-4.39E+01	1.57E+01	3.82E+01		1.89E+01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Potassium-40	1.91E-01	1.46E+01	1.63E+01		1.46E+01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Potassium-40	-2.24E+01	8.92E+00	2.04E+01		1.04E+01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Potassium-40	-1.38E+01	8.36E+00	2.00E+01		8.96E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Potassium-40	1.77E-01	1.39E+01	1.51E+01		1.39E+01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Potassium-40	3.18E+01	1.27E+01	1.63E+01		1.28E+01	pCi/L	
DW-2(517328003) - Drinking Water	29-Jul-20	Potassium-40	-9.85E+00	1.23E+01	2.92E+01		1.25E+01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Potassium-40	-2.25E+01	1.07E+01	1.96E+01		1.19E+01	pCi/L	U

## DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Potassium-40	-7.67E+00	9.77E+00	2.47E+01		9.94E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Potassium-40	-1.04E+01	1.05E+01	2.81E+01		1.08E+01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Potassium-40	1.18E+01	1.14E+01	1.18E+01		1.14E+01	pCi/L	UI
DW-2(531066003) - Drinking Water	29-Dec-20	Potassium-40	-1.09E+01	1.10E+01	2.35E+01		1.13E+01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Ruthenium-103	-6.63E-01	7.61E-01	2.42E+00		7.77E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Ruthenium-103	-9.61E-01	5.75E-01	1.53E+00		6.17E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Ruthenium-103	7.55E-01	7.70E-01	1.30E+00		7.70E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Ruthenium-103	-2.78E-02	3.90E-01	1.17E+00		3.90E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Ruthenium-103	-9.03E-01	5.18E-01	1.49E+00		5.59E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Ruthenium-103	-4.46E-01	4.40E-01	1.42E+00		4.52E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Ruthenium-103	-1.08E+00	7.22E-01	1.59E+00		7.65E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Ruthenium-103	8.66E-01	4.39E-01	1.44E+00		4.83E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Ruthenium-103	-2.58E-01	4.76E-01	1.57E+00		4.80E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Ruthenium-103	1.04E-01	5.30E-01	1.63E+00		5.31E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Ruthenium-103	-8.70E-02	4.30E-01	1.29E+00		4.31E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Ruthenium-103	6.60E-01	5.58E-01	1.66E+00		5.79E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Ruthenium-106	3.92E+00	7.10E+00	2.39E+01		7.16E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Ruthenium-106	-2.83E+00	4.60E+00	1.42E+01		4.65E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Ruthenium-106	2.97E+00	4.19E+00	1.35E+01		4.24E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Ruthenium-106	-3.06E-01	3.15E+00	1.04E+01		3.15E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Ruthenium-106	3.27E+00	4.46E+00	1.45E+01		4.53E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Ruthenium-106	-1.11E+00	5.18E+00	1.42E+01		5.18E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Ruthenium-106	-2.79E-01	4.16E+00	1.31E+01		4.16E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Ruthenium-106	5.37E-01	3.37E+00	1.13E+01		3.38E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Ruthenium-106	-5.68E-01	4.46E+00	1.32E+01		4.46E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Ruthenium-106	-1.71E+00	4.18E+00	1.37E+01		4.20E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Ruthenium-106	-3.69E+00	3.35E+00	1.06E+01		3.47E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Ruthenium-106	-2.64E+00	4.07E+00	1.35E+01		4.11E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Selenium-75	-7.61E-01	1.06E+00	3.55E+00		1.07E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Selenium-75	-9.69E-01	6.37E-01	2.07E+00		6.76E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Selenium-75	4.80E-01	5.86E-01	2.05E+00		5.97E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Selenium-75	2.87E-01	5.06E-01	1.61E+00		5.11E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Selenium-75	9.02E-01	6.13E-01	2.13E+00		6.48E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Selenium-75	9.08E-01	6.22E-01	2.04E+00		6.58E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Selenium-75	-8.07E-01	7.31E-01	2.23E+00		7.56E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Selenium-75	9.47E-01	5.24E-01	1.74E+00		5.69E-01	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Selenium-75	1.37E-01	6.53E-01	2.05E+00		6.54E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Selenium-75	-1.17E+00	7.02E-01	2.11E+00		7.54E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Selenium-75	-3.62E-01	4.91E-01	1.52E+00		4.98E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Selenium-75	8.41E-01	6.46E-01	2.20E+00		6.76E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Silver-108m	9.91E-01	6.54E-01	2.32E+00		6.94E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Silver-108m	-6.07E-01	4.39E-01	1.37E+00		4.61E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Silver-108m	-3.93E-01	3.79E-01	1.23E+00		3.90E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Silver-108m	-3.33E-01	3.24E-01	1.06E+00		3.33E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Silver-108m	-8.54E-03	4.65E-01	1.35E+00		4.65E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Silver-108m	3.16E-01	4.02E-01	1.40E+00		4.09E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Silver-108m	4.36E-01	4.28E-01	1.43E+00		4.40E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Silver-108m	6.10E-01	3.26E-01	1.17E+00		3.56E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Silver-108m	2.58E-01	3.82E-01	1.31E+00		3.86E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Silver-108m	-6.02E-01	4.04E-01	1.30E+00		4.28E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Silver-108m	4.52E-01	3.12E-01	1.11E+00		3.29E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Silver-108m	-2.15E-02	4.18E-01	1.34E+00		4.18E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Silver-110m	2.31E-01	1.03E+00	3.34E+00		1.03E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Silver-110m	-1.19E+00	6.41E-01	1.95E+00		6.99E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Silver-110m	3.01E-01	6.32E-01	1.85E+00		6.35E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Silver-110m	-5.27E-01	5.13E-01	1.57E+00		5.28E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Silver-110m	-8.01E-03	6.49E-01	2.15E+00		6.49E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Silver-110m	5.34E-01	6.48E-01	2.18E+00		6.60E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Silver-110m	4.49E-01	7.07E-01	2.12E+00		7.15E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Silver-110m	5.88E-01	6.60E-01	1.76E+00		6.74E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Silver-110m	2.70E-01	6.09E-01	2.01E+00		6.12E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Silver-110m	-1.57E+00	8.19E-01	2.29E+00		8.98E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Silver-110m	-3.66E-01	4.56E-01	1.41E+00		4.64E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Silver-110m	1.04E+00	5.78E-01	2.06E+00		6.27E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Strontium-89	-2.33E-01	4.25E-01	1.46E+00	1.00E+01	6.06E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Strontium-89	-9.13E-01	5.70E-01	2.09E+00	1.00E+01	7.86E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Strontium-89	5.01E-02	5.77E-01	1.89E+00	1.00E+01	6.48E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Strontium-89	2.05E+00	7.50E-01	2.07E+00	1.00E+01	8.41E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Strontium-89	5.86E-01	9.08E-01	2.90E+00	1.00E+01	1.07E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Strontium-89	-1.56E+00	4.57E-01	1.94E+00	1.00E+01	7.18E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Strontium-89	-2.28E+00	4.64E-01	2.10E+00	1.00E+01	6.49E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Strontium-89	1.37E+00	7.20E-01	2.11E+00	1.00E+01	8.16E-01	pCi/L	U

DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(522847003) - Drinking Water	29-Sep-20	Strontium-89	5.36E-01	4.38E-01	1.27E+00	1.00E+01	6.29E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Strontium-89	-3.10E+00	4.74E-01	2.45E+00	1.00E+01	5.91E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Strontium-89	2.44E-01	6.22E-01	1.97E+00	1.00E+01	7.32E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Strontium-89	-1.50E+00	6.75E-01	2.55E+00	1.00E+01	7.47E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Strontium-90	3.86E-02	3.12E-01	1.37E+00	2.00E+00	4.18E-01	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Strontium-90	8.68E-01	4.10E-01	1.62E+00	2.00E+00	5.62E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Strontium-90	-1.09E+00	2.52E-01	1.64E+00	2.00E+00	4.80E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Strontium-90	-2.90E-01	2.64E-01	1.74E+00	2.00E+00	5.07E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Strontium-90	-3.44E-01	3.73E-01	1.71E+00	2.00E+00	5.01E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Strontium-90	1.40E+00	3.95E-01	1.83E+00	2.00E+00	6.34E-01	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Strontium-90	7.56E-01	3.36E-01	1.32E+00	2.00E+00	4.56E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Strontium-90	-4.79E-01	3.21E-01	1.68E+00	2.00E+00	4.62E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Strontium-90	-2.71E-02	4.45E-01	1.94E+00	2.00E+00	5.87E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Strontium-90	7.40E-01	2.34E-01	1.14E+00	2.00E+00	3.66E-01	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Strontium-90	-1.79E-01	3.52E-01	1.79E+00	2.00E+00	5.35E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Strontium-90	6.63E-01	2.59E-01	1.19E+00	2.00E+00	3.78E-01	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Thorium-228	8.02E-01	2.88E+00	6.06E+00		2.89E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Thorium-228	-1.03E+00	1.85E+00	4.03E+00		1.87E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Thorium-228	-3.06E+00	1.43E+00	3.42E+00		1.60E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Thorium-228	1.92E+00	1.63E+00	2.78E+00		1.69E+00	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Thorium-228	-2.20E+00	1.68E+00	3.22E+00		1.75E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Thorium-228	1.36E+00	1.99E+00	2.70E+00		1.99E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Thorium-228	6.62E-02	2.21E+00	5.36E+00		2.21E+00	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Thorium-228	-2.24E+00	1.38E+00	4.16E+00		1.48E+00	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Thorium-228	2.65E+00	2.24E+00	2.65E+00		2.24E+00	pCi/L	UI
DW-2(525680003) - Drinking Water	27-Oct-20	Thorium-228	1.04E+00	1.98E+00	3.86E+00		1.99E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Thorium-228	-1.03E-01	1.36E+00	4.21E+00		1.36E+00	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Thorium-228	1.26E+00	1.68E+00	3.55E+00		1.71E+00	pCi/L	U
DW-2(510616003) - Drinking Water	31-Mar-20	Tritium	1.79E+02	1.15E+02	3.56E+02	5.00E+02	1.16E+02	pCi/L	U
DW-2(517031003) - Drinking Water	28-Jun-20	Tritium	-1.43E+02	1.28E+02	4.36E+02	5.00E+02	1.28E+02	pCi/L	U
DW-2(526481003) - Drinking Water	29-Sep-20	Tritium	-2.30E+01	1.36E+02	4.51E+02	5.00E+02	1.36E+02	pCi/L	U
DW-2(533264003) - Drinking Water	29-Dec-20	Tritium	-9.06E+00	1.02E+02	3.37E+02	5.00E+02	1.02E+02	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Zinc-65	-3.72E+00	2.13E+00	5.42E+00	3.00E+01	2.30E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Zinc-65	1.04E+00	1.06E+00	3.25E+00	3.00E+01	1.09E+00	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Zinc-65	-1.73E+00	9.50E-01	2.95E+00	3.00E+01	1.03E+00	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Zinc-65	9.59E-01	8.09E-01	2.73E+00	3.00E+01	8.39E-01	pCi/L	U

## DW-2

## Drinking Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
DW-2(512281003) - Drinking Water	26-May-20	Zinc-65	1.49E+00	1.12E+00	3.43E+00	3.00E+01	1.17E+00	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Zinc-65	4.28E-01	1.02E+00	2.98E+00	3.00E+01	1.03E+00	pCi/L	U
DW-2(517328003) - Drinking Water	29-Jul-20	Zinc-65	-5.55E-01	9.59E-01	3.17E+00	3.00E+01	9.67E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Zinc-65	-6.30E-01	7.13E-01	2.32E+00	3.00E+01	7.28E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Zinc-65	2.62E+00	1.23E+00	2.96E+00	3.00E+01	1.23E+00	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Zinc-65	-1.42E+00	1.03E+00	2.95E+00	3.00E+01	1.09E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Zinc-65	-1.28E+00	7.77E-01	2.44E+00	3.00E+01	8.33E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Zinc-65	-9.63E-01	1.16E+00	3.11E+00	3.00E+01	1.18E+00	pCi/L	U
DW-2(502529003) - Drinking Water	28-Jan-20	Zirconium-95	7.69E-01	1.25E+00	4.21E+00	1.50E+01	1.27E+00	pCi/L	U
DW-2(505311003) - Drinking Water	25-Feb-20	Zirconium-95	-1.52E+00	8.48E-01	2.65E+00	1.50E+01	9.20E-01	pCi/L	U
DW-2(508675003) - Drinking Water	31-Mar-20	Zirconium-95	3.52E-01	7.77E-01	2.56E+00	1.50E+01	7.82E-01	pCi/L	U
DW-2(510297003) - Drinking Water	28-Apr-20	Zirconium-95	7.33E-01	6.87E-01	2.34E+00	1.50E+01	7.08E-01	pCi/L	U
DW-2(512281003) - Drinking Water	26-May-20	Zirconium-95	-1.39E+00	8.43E-01	2.67E+00	1.50E+01	9.04E-01	pCi/L	U
DW-2(514808003) - Drinking Water	28-Jun-20	Zirconium-95	2.64E+00	1.65E+00	2.64E+00	1.50E+01	1.85E+00	pCi/L	UI
DW-2(517328003) - Drinking Water	29-Jul-20	Zirconium-95	8.00E-01	8.59E-01	2.92E+00	1.50E+01	8.79E-01	pCi/L	U
DW-2(519832003) - Drinking Water	25-Aug-20	Zirconium-95	3.90E-01	7.63E-01	2.29E+00	1.50E+01	7.68E-01	pCi/L	U
DW-2(522847003) - Drinking Water	29-Sep-20	Zirconium-95	1.15E-01	8.70E-01	2.57E+00	1.50E+01	8.71E-01	pCi/L	U
DW-2(525680003) - Drinking Water	27-Oct-20	Zirconium-95	-1.47E+00	9.60E-01	2.91E+00	1.50E+01	1.02E+00	pCi/L	U
DW-2(528777003) - Drinking Water	24-Nov-20	Zirconium-95	2.84E-01	6.69E-01	2.23E+00	1.50E+01	6.72E-01	pCi/L	U
DW-2(531066003) - Drinking Water	29-Dec-20	Zirconium-95	-9.75E-01	8.70E-01	2.79E+00	1.50E+01	9.00E-01	pCi/L	U

## F-1 Gizzard Shad

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Actinium-228	-6.59E+01	2.84E+01	8.17E+01		3.23E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Antimony-124	1.96E-01	1.54E+01	5.11E+01		1.54E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Antimony-125	1.15E+00	1.45E+01	4.88E+01		1.45E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Barium-140	1.22E+01	8.32E+01	2.75E+02		8.32E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Beryllium-7	-7.45E+01	6.86E+01	2.08E+02		7.08E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cerium-141	-1.35E+01	1.05E+01	3.22E+01		1.10E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cerium-144	-6.63E-01	2.67E+01	8.89E+01		2.67E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cesium-134	-9.51E+00	7.15E+00	2.09E+01	1.30E+02	7.49E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cesium-137	5.31E+00	7.94E+00	2.69E+01	1.50E+02	8.04E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Chromium-51	4.65E+01	6.88E+01	2.45E+02		6.96E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cobalt-57	-4.39E+00	3.88E+00	1.22E+01		4.01E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cobalt-58	-5.05E+00	7.52E+00	2.37E+01	1.30E+02	7.61E+00	pCi/kg	U

F-1 Gizzard Shad  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Cobalt-60	-5.77E+00	7.98E+00	2.28E+01	1.30E+02	8.09E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Iodine-131	-1.19E+01	2.99E+01	8.69E+01		3.00E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Iron-59	-1.43E+01	1.54E+01	3.38E+01	2.60E+02	1.57E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Lanthanum-140	2.06E+01	2.17E+01	8.28E+01		2.23E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Manganese-54	-3.78E+00	5.60E+00	1.73E+01	1.30E+02	5.67E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Niobium-95	1.31E+01	7.93E+00	3.04E+01		8.50E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Potassium-40	2.89E+03	2.49E+02	2.84E+02		2.86E+02	pCi/kg	
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Ruthenium-103	6.85E+00	7.55E+00	2.68E+01		7.72E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Ruthenium-106	-2.24E+01	6.84E+01	2.14E+02		6.86E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Selenium-75	1.07E+00	7.42E+00	2.36E+01		7.43E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Silver-108m	-7.81E+00	5.53E+00	1.64E+01		5.82E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Silver-110m	-3.30E+00	9.44E+00	3.05E+01		9.48E+00	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Strontium-89	-2.83E+02	3.22E+01	2.00E+02	3.00E+02	6.99E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Strontium-90	1.29E+02	3.81E+01	1.47E+02	3.00E+02	5.57E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Thorium-228	-9.00E+00	1.05E+01	3.14E+01		1.07E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Zinc-65	-2.59E+00	1.52E+01	4.86E+01	2.60E+02	1.52E+01	pCi/kg	U
F-1 Gizzard Shad(525972002) - Fish	22-Oct-20	Zirconium-95	1.15E+01	1.26E+01	4.65E+01		1.29E+01	pCi/kg	U

F-1 Unknown  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Unknown(513060001) - Fish	21-May-20	Actinium-228	-5.61E+01	3.10E+01	8.51E+01		3.37E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Actinium-228	-2.97E+01	1.55E+01	4.80E+01		1.70E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Antimony-124	-1.06E+00	1.80E+01	5.75E+01		1.80E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Antimony-124	-4.42E+00	7.37E+00	1.95E+01		7.44E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Antimony-125	-1.89E+01	2.05E+01	5.94E+01		2.10E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Antimony-125	2.31E+00	7.92E+00	2.74E+01		7.94E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Barium-140	2.60E-01	6.66E+01	2.12E+02		6.66E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Barium-140	-3.23E+01	2.99E+01	8.52E+01		3.08E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Beryllium-7	2.14E+01	5.78E+01	1.77E+02		5.80E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Beryllium-7	3.84E+01	3.72E+01	1.35E+02		3.82E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cerium-141	-3.42E+01	1.43E+01	3.86E+01		1.63E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cerium-141	2.46E+00	6.88E+00	2.10E+01		6.90E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cerium-144	2.71E+01	4.27E+01	1.47E+02		4.32E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cerium-144	-1.57E+01	1.63E+01	4.74E+01		1.67E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cesium-134	6.22E+00	8.32E+00	3.03E+01	1.30E+02	8.44E+00	pCi/kg	U

## F-1 Unknown

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Unknown(513060002) - Fish	22-May-20	Cesium-134	-2.24E+00	4.07E+00	1.21E+01	1.30E+02	4.11E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cesium-137	2.99E+00	7.02E+00	2.49E+01	1.50E+02	7.06E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cesium-137	3.31E+00	4.12E+00	1.46E+01	1.50E+02	4.19E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Chromium-51	-2.91E+01	9.47E+01	2.98E+02		9.49E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Chromium-51	-1.16E+01	4.57E+01	1.37E+02		4.58E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cobalt-57	-1.41E+00	5.37E+00	1.75E+01		5.38E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cobalt-57	3.44E+00	2.83E+00	9.90E+00		2.94E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cobalt-58	-9.72E+00	6.96E+00	1.79E+01	1.30E+02	7.32E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cobalt-58	-7.73E-01	3.81E+00	1.19E+01	1.30E+02	3.81E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Cobalt-60	-1.07E-02	6.89E+00	2.27E+01	1.30E+02	6.89E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Cobalt-60	1.86E-01	3.26E+00	1.10E+01	1.30E+02	3.26E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Iodine-131	-7.46E+01	3.90E+01	1.00E+02		4.27E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Iodine-131	-1.17E+01	1.82E+01	5.87E+01		1.85E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Iron-59	1.84E+01	1.89E+01	7.11E+01	2.60E+02	1.94E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Iron-59	1.93E+01	8.08E+00	3.59E+01	2.60E+02	9.28E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Lanthanum-140	-1.02E+01	2.32E+01	6.76E+01		2.33E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Lanthanum-140	3.12E+01	1.51E+01	6.35E+01		1.68E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Manganese-54	1.85E+01	1.07E+01	2.47E+01	1.30E+02	1.07E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Manganese-54	7.07E+00	3.23E+00	1.48E+01	1.30E+02	3.24E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Niobium-95	-1.38E+01	1.07E+01	3.23E+01		1.12E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Niobium-95	-8.25E+00	3.63E+00	8.21E+00		4.11E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Potassium-40	1.86E+03	2.56E+02	1.87E+02		2.71E+02	pCi/kg	
F-1 Unknown(513060002) - Fish	22-May-20	Potassium-40	2.80E+03	1.98E+02	8.90E+01		2.48E+02	pCi/kg	
F-1 Unknown(513060001) - Fish	21-May-20	Ruthenium-103	8.41E+00	8.91E+00	3.15E+01		9.12E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Ruthenium-103	7.51E-01	4.23E+00	1.43E+01		4.23E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Ruthenium-106	4.67E+01	6.17E+01	2.26E+02		6.27E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Ruthenium-106	-3.93E+01	3.36E+01	9.49E+01		3.49E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Selenium-75	8.12E-01	1.01E+01	3.32E+01		1.01E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Selenium-75	-1.24E+00	4.00E+00	1.34E+01		4.01E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Silver-108m	3.14E+00	6.55E+00	2.20E+01		6.59E+00	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Silver-108m	1.49E+00	2.80E+00	9.87E+00		2.82E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Silver-110m	-6.36E-01	1.07E+01	3.57E+01		1.07E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Silver-110m	-2.34E+00	3.81E+00	1.06E+01		3.85E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Strontium-89	-1.95E+02	1.02E+01	9.83E+01	3.00E+02	3.02E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Strontium-89	-1.18E+02	2.02E+01	1.06E+02	3.00E+02	3.99E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Strontium-90	-1.21E+02	1.74E+01	9.85E+01	3.00E+02	2.17E+01	pCi/kg	U



## F-1 Unknown

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Unknown(513060002) - Fish	22-May-20	Strontium-90	-7.33E+01	1.82E+01	9.17E+01	3.00E+02	2.27E+01	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Thorium-228	4.14E+01	1.57E+01	5.35E+01		1.84E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Thorium-228	-7.08E+00	6.90E+00	2.21E+01		7.10E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Zinc-65	-7.63E+00	1.99E+01	6.28E+01	2.60E+02	2.00E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Zinc-65	1.16E+00	7.28E+00	2.52E+01	2.60E+02	7.28E+00	pCi/kg	U
F-1 Unknown(513060001) - Fish	21-May-20	Zirconium-95	2.06E+00	1.66E+01	5.67E+01		1.66E+01	pCi/kg	U
F-1 Unknown(513060002) - Fish	22-May-20	Zirconium-95	3.55E+00	6.69E+00	2.33E+01		6.74E+00	pCi/kg	U

## F-1 Walleye

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Walleye(525972001) - Fish	22-Oct-20	Actinium-228	-4.65E+01	5.69E+01	1.69E+02		5.79E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Antimony-124	4.07E+00	3.06E+01	1.02E+02		3.06E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Antimony-125	7.28E+01	7.17E+01	1.14E+02		7.37E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Barium-140	8.66E+01	1.26E+02	4.40E+02		1.28E+02	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Beryllium-7	-8.45E+01	1.15E+02	3.60E+02		1.17E+02	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cerium-141	-2.82E+01	2.45E+01	7.39E+01		2.54E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cerium-144	1.03E+02	6.39E+01	2.24E+02		6.83E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cesium-134	1.57E+01	1.99E+01	4.66E+01	1.30E+02	2.02E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cesium-137	2.07E+01	1.29E+01	4.50E+01	1.50E+02	1.30E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Chromium-51	-6.81E+01	1.43E+02	4.74E+02		1.44E+02	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cobalt-57	-2.65E+00	8.04E+00	2.55E+01		8.06E+00	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cobalt-58	-2.88E+00	1.56E+01	4.90E+01	1.30E+02	1.56E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Cobalt-60	2.67E+01	1.25E+01	5.13E+01	1.30E+02	1.40E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Iodine-131	-8.47E+01	7.96E+01	2.21E+02		8.21E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Iron-59	-3.66E+01	3.05E+01	8.76E+01	2.60E+02	3.17E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Lanthanum-140	7.12E+01	5.13E+01	1.97E+02		5.40E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Manganese-54	1.03E+01	1.32E+01	4.56E+01	1.30E+02	1.34E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Niobium-95	9.67E+00	1.07E+01	3.87E+01		1.10E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Potassium-40	3.90E+03	4.38E+02	2.46E+02		4.99E+02	pCi/kg	
F-1 Walleye(525972001) - Fish	22-Oct-20	Ruthenium-103	-7.40E+00	1.47E+01	4.66E+01		1.48E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Ruthenium-106	6.73E+01	1.11E+02	3.81E+02		1.12E+02	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Selenium-75	-1.38E+01	1.49E+01	4.86E+01		1.52E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Silver-108m	1.67E+01	9.09E+00	3.46E+01		9.89E+00	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Silver-110m	-1.90E+01	1.80E+01	4.98E+01		1.85E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Strontium-89	-4.03E+01	4.97E+01	1.74E+02	3.00E+02	7.44E+01	pCi/kg	U

## F-1 Walleye

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-1 Walleye(525972001) - Fish	22-Oct-20	Strontium-90	1.59E+01	3.51E+01	1.65E+02	3.00E+02	5.12E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Thorium-228	-4.46E+01	2.39E+01	6.69E+01		2.62E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Zinc-65	-2.27E+01	1.75E+01	4.38E+01	2.60E+02	1.83E+01	pCi/kg	U
F-1 Walleye(525972001) - Fish	22-Oct-20	Zirconium-95	4.57E+01	2.85E+01	1.05E+02		3.04E+01	pCi/kg	U

## F-2 Bullhead

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Bullhead(525972005) - Fish	5-Oct-20	Actinium-228	-7.85E-01	1.15E+01	3.79E+01		1.15E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Antimony-124	-4.00E+00	8.87E+00	2.65E+01		8.92E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Antimony-125	1.31E+01	5.80E+00	2.20E+01		6.56E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Barium-140	-4.35E+00	5.85E+01	1.89E+02		5.85E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Beryllium-7	6.54E+00	2.50E+01	8.37E+01		2.51E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cerium-141	-1.70E+01	7.31E+00	2.05E+01		8.32E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cerium-144	-5.50E+00	1.32E+01	4.06E+01		1.33E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cesium-134	2.51E+00	2.95E+00	1.06E+01	1.30E+02	3.00E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cesium-137	-4.02E+00	2.90E+00	8.33E+00	1.50E+02	3.05E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Chromium-51	1.93E+01	4.03E+01	1.38E+02		4.06E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cobalt-57	-5.17E-01	1.65E+00	5.13E+00		1.66E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cobalt-58	1.19E+01	3.72E+00	1.44E+01	1.30E+02	3.76E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Cobalt-60	1.21E+00	2.46E+00	8.59E+00	1.30E+02	2.48E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Iodine-131	8.34E+01	5.50E+01	1.99E+02		5.83E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Iron-59	-7.71E+00	1.29E+01	3.53E+01	2.60E+02	1.30E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Lanthanum-140	7.58E+00	2.17E+01	7.40E+01		2.18E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Manganese-54	4.17E-01	2.39E+00	8.23E+00	1.30E+02	2.40E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Niobium-95	-2.89E+00	3.93E+00	1.09E+01		3.99E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Potassium-40	2.88E+03	1.39E+02	4.40E+01		1.88E+02	pCi/kg	
F-2 Bullhead(525972005) - Fish	5-Oct-20	Ruthenium-103	-2.44E+00	4.07E+00	1.27E+01		4.11E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Ruthenium-106	-1.31E+00	2.29E+01	7.33E+01		2.29E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Selenium-75	-2.30E+00	2.92E+00	9.45E+00		2.97E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Silver-108m	-5.93E-01	1.73E+00	5.53E+00		1.74E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Silver-110m	-1.61E+00	3.93E+00	1.28E+01		3.94E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Strontium-89	-3.53E+01	7.76E+01	2.62E+02	3.00E+02	1.01E+02	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Strontium-90	4.75E+01	3.41E+01	1.52E+02	3.00E+02	4.97E+01	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Thorium-228	1.70E+00	5.97E+00	1.10E+01		5.97E+00	pCi/kg	U
F-2 Bullhead(525972005) - Fish	5-Oct-20	Zinc-65	-1.20E+01	7.52E+00	2.10E+01	2.60E+02	8.03E+00	pCi/kg	U

## F-2 Bullhead

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Bullhead(525972005) - Fish	5-Oct-20	Zirconium-95	-2.42E+00	7.08E+00	2.03E+01		7.10E+00	pCi/kg	U

## F-2 Longnose Gar

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Actinium-228	4.07E+01	1.98E+01	4.98E+01		2.20E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Antimony-124	-6.82E+00	5.24E+00	1.14E+01		5.47E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Antimony-125	1.62E+00	7.09E+00	2.11E+01		7.10E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Barium-140	-1.01E+01	1.32E+01	3.89E+01		1.34E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Beryllium-7	2.07E+01	2.47E+01	8.18E+01		2.52E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cerium-141	1.81E+00	7.34E+00	1.07E+01		7.34E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cerium-144	-4.03E+00	1.32E+01	4.04E+01		1.33E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cesium-134	-1.94E+00	3.75E+00	1.20E+01	1.30E+02	3.78E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cesium-137	2.33E+00	3.53E+00	1.25E+01	1.50E+02	3.58E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Chromium-51	-3.09E+01	2.55E+01	7.83E+01		2.65E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cobalt-57	8.32E-01	1.85E+00	5.47E+00		1.86E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cobalt-58	-1.79E+00	3.16E+00	1.00E+01	1.30E+02	3.19E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Cobalt-60	1.43E+01	3.90E+00	1.43E+01	1.30E+02	5.57E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Iodine-131	-4.15E+00	4.70E+00	1.43E+01		4.80E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Iron-59	-3.52E+00	7.04E+00	2.17E+01	2.60E+02	7.09E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Lanthanum-140	-4.15E+00	4.76E+00	1.38E+01		4.86E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Manganese-54	-3.46E+00	3.46E+00	1.05E+01	1.30E+02	3.55E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Niobium-95	1.07E+00	3.08E+00	9.54E+00		3.09E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Potassium-40	2.01E+03	1.60E+02	1.27E+02		1.85E+02	pCi/kg	
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Ruthenium-103	-5.33E-01	2.87E+00	9.09E+00		2.87E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Ruthenium-106	1.72E+01	2.66E+01	9.47E+01		2.69E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Selenium-75	7.69E+00	3.01E+00	1.15E+01		3.51E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Silver-108m	5.63E+00	3.38E+00	8.59E+00		3.63E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Silver-110m	1.43E+00	4.79E+00	1.63E+01		4.80E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Strontium-89	-2.70E+01	2.60E+01	9.34E+01	3.00E+02	4.29E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Strontium-90	3.36E+01	2.27E+01	8.53E+01	3.00E+02	2.84E+01	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Thorium-228	4.50E+00	8.79E+00	1.68E+01		8.85E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Zinc-65	-1.22E+01	9.31E+00	2.68E+01	2.60E+02	9.73E+00	pCi/kg	U
F-2 Longnose Gar(513060003) - Fish	4-Jun-20	Zirconium-95	-2.71E+00	5.60E+00	1.80E+01		5.63E+00	pCi/kg	U

F-2 Sucker  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Sucker(525972004) - Fish	5-Oct-20	Actinium-228	-6.18E+00	2.98E+01	9.46E+01		2.98E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Antimony-124	-1.99E+01	2.24E+01	5.00E+01		2.29E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Antimony-125	7.19E+00	1.11E+01	3.95E+01		1.12E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Barium-140	7.70E+01	1.21E+02	4.27E+02		1.23E+02	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Beryllium-7	-1.29E+01	5.81E+01	1.93E+02		5.82E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cerium-141	-1.21E+01	1.29E+01	4.08E+01		1.32E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cerium-144	6.33E+01	3.56E+01	8.61E+01		3.57E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cesium-134	-4.87E+00	6.91E+00	1.98E+01	1.30E+02	7.01E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cesium-137	-8.94E+00	5.30E+00	1.48E+01	1.50E+02	5.70E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Chromium-51	-6.13E+01	1.11E+02	3.18E+02		1.12E+02	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cobalt-57	2.85E+00	3.45E+00	1.19E+01		3.52E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cobalt-58	2.97E+00	7.29E+00	2.46E+01	1.30E+02	7.32E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Cobalt-60	2.09E+00	5.74E+00	2.00E+01	1.30E+02	5.76E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Iodine-131	1.63E+02	1.38E+02	4.33E+02		1.43E+02	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Iron-59	-2.58E+01	2.01E+01	6.02E+01	2.60E+02	2.10E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Lanthanum-140	4.62E+01	3.90E+01	1.54E+02		4.05E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Manganese-54	3.53E+00	4.56E+00	1.61E+01	1.30E+02	4.64E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Niobium-95	-4.16E+00	7.47E+00	2.30E+01		7.53E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Potassium-40	3.07E+03	2.39E+02	1.86E+02		2.82E+02	pCi/kg	
F-2 Sucker(525972004) - Fish	5-Oct-20	Ruthenium-103	-3.17E+00	9.28E+00	2.72E+01		9.31E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Ruthenium-106	-1.59E+01	5.02E+01	1.62E+02		5.03E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Selenium-75	-4.89E+00	7.77E+00	2.39E+01		7.85E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Silver-108m	2.38E+00	3.85E+00	1.36E+01		3.89E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Silver-110m	-1.43E+01	8.15E+00	2.09E+01		8.82E+00	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Strontium-89	1.50E+02	8.32E+01	2.34E+02	3.00E+02	1.05E+02	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Strontium-90	-3.92E+01	3.57E+01	1.83E+02	3.00E+02	5.21E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Thorium-228	9.30E+00	1.35E+01	3.06E+01		1.37E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Zinc-65	-1.14E+01	1.43E+01	4.50E+01	2.60E+02	1.45E+01	pCi/kg	U
F-2 Sucker(525972004) - Fish	5-Oct-20	Zirconium-95	3.65E+01	2.04E+01	4.25E+01		2.21E+01	pCi/kg	U

F-2 W. Bass  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 W. Bass(525972006) - Fish	5-Oct-20	Actinium-228	7.13E+00	3.43E+01	1.08E+02		3.43E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Antimony-124	-1.20E+01	1.96E+01	5.85E+01		1.98E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Antimony-125	6.57E+00	1.67E+01	4.93E+01		1.68E+01	pCi/kg	U

## F-2 W. Bass

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 W. Bass(525972006) - Fish	5-Oct-20	Barium-140	2.30E+02	1.57E+02	5.85E+02		1.66E+02	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Beryllium-7	-1.90E+02	8.37E+01	2.19E+02		9.48E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cerium-141	-1.32E+01	1.81E+01	5.48E+01		1.83E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cerium-144	5.00E+01	3.35E+01	1.14E+02		3.55E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cesium-134	-3.36E+00	6.76E+00	2.07E+01	1.30E+02	6.81E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cesium-137	1.87E+00	7.82E+00	2.33E+01	1.50E+02	7.83E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Chromium-51	-7.30E+01	1.13E+02	3.51E+02		1.14E+02	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cobalt-57	2.19E+00	4.49E+00	1.45E+01		4.52E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cobalt-58	-3.85E+00	8.35E+00	2.57E+01	1.30E+02	8.40E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Cobalt-60	-4.02E+00	8.13E+00	2.32E+01	1.30E+02	8.18E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Iodine-131	-4.17E+01	1.49E+02	4.69E+02		1.49E+02	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Iron-59	-4.22E+01	2.51E+01	6.90E+01	2.60E+02	2.70E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Lanthanum-140	-1.21E+02	7.16E+01	1.70E+02		7.70E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Manganese-54	6.25E+00	7.33E+00	2.56E+01	1.30E+02	7.48E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Niobium-95	1.17E+01	1.40E+01	2.91E+01		1.42E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Potassium-40	3.33E+03	2.61E+02	2.04E+02		3.21E+02	pCi/kg	
F-2 W. Bass(525972006) - Fish	5-Oct-20	Ruthenium-103	8.64E+00	1.14E+01	3.66E+01		1.16E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Ruthenium-106	-9.05E+01	6.79E+01	1.65E+02		7.11E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Selenium-75	3.77E+00	8.53E+00	2.89E+01		8.58E+00	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Silver-108m	1.72E+01	1.43E+01	1.72E+01		1.54E+01	pCi/kg	UI
F-2 W. Bass(525972006) - Fish	5-Oct-20	Silver-110m	-9.75E+00	1.20E+01	2.96E+01		1.23E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Strontium-89	1.30E+00	7.60E+01	2.50E+02	3.00E+02	1.05E+02	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Strontium-90	8.19E-01	3.48E+01	1.67E+02	3.00E+02	5.07E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Thorium-228	9.21E+00	1.27E+01	4.11E+01		1.29E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Zinc-65	3.67E+01	1.77E+01	6.95E+01	2.60E+02	1.97E+01	pCi/kg	U
F-2 W. Bass(525972006) - Fish	5-Oct-20	Zirconium-95	1.31E+01	1.59E+01	5.29E+01		1.62E+01	pCi/kg	U

## F-2 W. Perch

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 W. Perch(525972007) - Fish	5-Oct-20	Actinium-228	-7.86E+01	9.12E+01	2.72E+02		9.32E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Antimony-124	-4.95E+01	8.73E+01	2.67E+02		8.81E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Antimony-125	-7.00E+01	4.75E+01	1.47E+02		5.02E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Barium-140	-3.41E+02	4.71E+02	1.49E+03		4.78E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Beryllium-7	8.93E+01	2.25E+02	7.78E+02		2.26E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cerium-141	-3.38E+01	4.19E+01	1.32E+02		4.27E+01	pCi/kg	U

## F-2 W. Perch

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cerium-144	-3.50E-01	8.34E+01	2.74E+02		8.34E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cesium-134	8.14E+00	2.31E+01	7.76E+01	1.30E+02	2.32E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cesium-137	5.47E+00	2.04E+01	6.20E+01	1.50E+02	2.04E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Chromium-51	-8.41E+01	3.34E+02	9.39E+02		3.35E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cobalt-57	-2.16E+00	1.04E+01	3.42E+01		1.05E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cobalt-58	-2.33E+01	2.74E+01	8.18E+01	1.30E+02	2.80E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Cobalt-60	8.58E+00	2.11E+01	6.69E+01	1.30E+02	2.12E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Iodine-131	5.31E+02	3.95E+02	1.45E+03		4.14E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Iron-59	1.67E+02	7.46E+01	2.56E+02	2.60E+02	8.45E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Lanthanum-140	1.63E+02	2.43E+02	7.78E+02		2.46E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Manganese-54	-6.95E+00	2.14E+01	6.74E+01	1.30E+02	2.15E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Niobium-95	-1.45E+01	2.72E+01	8.46E+01		2.74E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Potassium-40	5.77E+03	6.46E+02	6.76E+02		7.17E+02	pCi/kg	
F-2 W. Perch(525972007) - Fish	5-Oct-20	Ruthenium-103	-1.19E+00	3.12E+01	1.05E+02		3.12E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Ruthenium-106	-7.10E+01	1.90E+02	6.14E+02		1.91E+02	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Selenium-75	4.74E+00	2.60E+01	8.30E+01		2.60E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Silver-108m	9.23E+00	1.50E+01	5.26E+01		1.51E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Silver-110m	1.46E+01	2.85E+01	8.79E+01		2.87E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Strontium-89	-2.01E+02	6.08E+01	2.53E+02	3.00E+02	9.63E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Strontium-90	4.39E+01	3.58E+01	1.61E+02	3.00E+02	5.22E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Thorium-228	7.67E+01	6.58E+01	7.67E+01		6.68E+01	pCi/kg	UI
F-2 W. Perch(525972007) - Fish	5-Oct-20	Zinc-65	-9.49E+00	4.66E+01	1.56E+02	2.60E+02	4.67E+01	pCi/kg	U
F-2 W. Perch(525972007) - Fish	5-Oct-20	Zirconium-95	2.78E+01	5.72E+01	1.76E+02		5.76E+01	pCi/kg	U

## F-2 Walleye

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Walleye(525972003) - Fish	5-Oct-20	Actinium-228	2.84E+01	1.31E+01	3.87E+01		1.48E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Antimony-124	-5.47E+00	7.08E+00	1.96E+01		7.20E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Antimony-125	1.30E+01	7.03E+00	2.57E+01		7.66E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Barium-140	-3.02E+01	5.29E+01	1.64E+02		5.33E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Beryllium-7	-5.39E+01	3.08E+01	8.89E+01		3.33E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cerium-141	3.97E+00	8.42E+00	2.71E+01		8.47E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cerium-144	-5.41E+00	1.66E+01	5.19E+01		1.67E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cesium-134	1.58E+00	3.28E+00	1.09E+01	1.30E+02	3.30E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cesium-137	3.69E+00	2.55E+00	9.19E+00	1.50E+02	2.69E+00	pCi/kg	U

F-2 Walleye  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 Walleye(525972003) - Fish	5-Oct-20	Chromium-51	-1.23E+01	4.19E+01	1.39E+02		4.20E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cobalt-57	-2.91E+00	2.30E+00	6.52E+00		2.40E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cobalt-58	2.24E+00	3.38E+00	1.15E+01	1.30E+02	3.42E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Cobalt-60	-6.84E+00	2.89E+00	6.66E+00	1.30E+02	3.31E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Iodine-131	4.11E+01	5.77E+01	2.01E+02		5.85E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Iron-59	8.20E+00	1.01E+01	3.60E+01	2.60E+02	1.03E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Lanthanum-140	4.30E+01	2.02E+01	8.47E+01		2.26E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Manganese-54	-3.11E+00	2.93E+00	8.40E+00	1.30E+02	3.02E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Niobium-95	-6.29E+00	4.15E+00	1.13E+01		4.40E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Potassium-40	3.56E+03	1.62E+02	7.29E+01		2.56E+02	pCi/kg	
F-2 Walleye(525972003) - Fish	5-Oct-20	Ruthenium-103	4.84E+00	4.17E+00	1.48E+01		4.32E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Ruthenium-106	-3.68E+01	2.87E+01	7.22E+01		3.00E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Selenium-75	5.36E+00	3.53E+00	1.29E+01		3.75E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Silver-108m	9.92E-01	2.08E+00	7.11E+00		2.09E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Silver-110m	1.94E-01	4.74E+00	1.51E+01		4.74E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Strontium-89	-5.33E+01	7.03E+01	2.44E+02	3.00E+02	1.06E+02	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Strontium-90	3.18E+01	3.91E+01	1.80E+02	3.00E+02	5.70E+01	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Thorium-228	1.01E+01	5.83E+00	1.67E+01		6.29E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Zinc-65	2.98E+00	6.83E+00	2.37E+01	2.60E+02	6.87E+00	pCi/kg	U
F-2 Walleye(525972003) - Fish	5-Oct-20	Zirconium-95	-5.36E+00	6.24E+00	1.83E+01		6.36E+00	pCi/kg	U

F-2 White Perch  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 White Perch(513060004) - Fish	4-Jun-20	Actinium-228	-7.26E+01	5.32E+01	1.55E+02		5.59E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Antimony-124	3.51E+01	2.20E+01	9.14E+01		2.34E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Antimony-125	2.60E+01	2.52E+01	9.02E+01		2.59E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Barium-140	-4.43E+00	4.85E+01	1.59E+02		4.85E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Beryllium-7	-9.72E+01	7.74E+01	2.30E+02		8.06E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cerium-141	6.53E+00	1.20E+01	4.03E+01		1.21E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cerium-144	-2.44E+01	4.05E+01	1.17E+02		4.09E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cesium-134	-2.43E+00	1.32E+01	4.15E+01	1.30E+02	1.32E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cesium-137	-5.57E+00	1.22E+01	3.80E+01	1.50E+02	1.23E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Chromium-51	2.92E+01	9.43E+01	2.97E+02		9.45E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cobalt-57	-5.02E+00	5.56E+00	1.74E+01		5.68E+00	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Cobalt-58	3.39E+00	1.09E+01	3.59E+01	1.30E+02	1.09E+01	pCi/kg	U

F-2 White Perch  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-2 White Perch(513060004) - Fish	4-Jun-20	Cobalt-60	2.07E+01	1.47E+01	5.40E+01	1.30E+02	1.55E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Iodine-131	6.33E+00	1.38E+01	4.40E+01		1.39E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Iron-59	1.14E+01	2.35E+01	8.22E+01	2.60E+02	2.36E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Lanthanum-140	-8.41E-01	1.78E+01	5.69E+01		1.78E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Manganese-54	-7.64E+00	1.20E+01	3.57E+01	1.30E+02	1.22E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Niobium-95	-8.05E+00	1.26E+01	3.81E+01		1.28E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Potassium-40	2.74E+03	4.19E+02	4.00E+02		4.39E+02	pCi/kg	
F-2 White Perch(513060004) - Fish	4-Jun-20	Ruthenium-103	-8.23E+00	1.21E+01	3.82E+01		1.22E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Ruthenium-106	-2.76E+01	7.83E+01	2.45E+02		7.85E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Selenium-75	-2.09E+00	1.14E+01	3.51E+01		1.14E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Silver-108m	-1.47E+01	8.78E+00	2.59E+01		9.43E+00	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Silver-110m	-1.25E+01	1.63E+01	4.70E+01		1.65E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Strontium-89	1.27E+01	2.46E+01	7.82E+01	3.00E+02	3.10E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Strontium-90	1.57E+00	1.30E+01	5.29E+01	3.00E+02	1.62E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Thorium-228	3.32E+00	2.53E+01	6.10E+01		2.53E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Zinc-65	2.19E+01	3.18E+01	1.02E+02	2.60E+02	3.22E+01	pCi/kg	U
F-2 White Perch(513060004) - Fish	4-Jun-20	Zirconium-95	-4.78E+00	1.83E+01	5.69E+01		1.83E+01	pCi/kg	U

F-3 Channel Catfish  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Actinium-228	2.25E+01	3.77E+01	1.34E+02		3.80E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Actinium-228	-1.17E+01	2.58E+01	8.36E+01		2.60E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Antimony-124	-3.38E-01	1.44E+01	4.71E+01		1.44E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Antimony-124	-9.88E+00	1.93E+01	5.74E+01		1.95E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Antimony-125	9.67E+00	2.16E+01	7.42E+01		2.17E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Antimony-125	2.77E+00	1.74E+01	5.05E+01		1.74E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Barium-140	2.83E+00	4.24E+01	1.40E+02		4.24E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Barium-140	1.29E+02	1.26E+02	4.34E+02		1.29E+02	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Beryllium-7	1.36E+02	7.58E+01	2.79E+02		8.23E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Beryllium-7	-6.38E+01	8.11E+01	2.36E+02		8.25E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cerium-141	-7.74E+00	1.46E+01	4.82E+01		1.47E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cerium-141	-1.71E+01	1.74E+01	5.37E+01		1.79E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cerium-144	4.13E+01	4.78E+01	1.68E+02		4.87E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cerium-144	3.26E+01	3.50E+01	1.21E+02		3.58E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cesium-134	1.99E+01	1.01E+01	3.56E+01	1.30E+02	1.11E+01	pCi/kg	U



## F-3 Channel Catfish

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cesium-134	1.02E+00	7.43E+00	2.52E+01	1.30E+02	7.43E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cesium-137	1.79E+01	7.28E+00	3.15E+01	1.50E+02	7.32E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cesium-137	5.21E+00	5.58E+00	2.03E+01	1.50E+02	5.71E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Chromium-51	1.58E+02	8.00E+01	2.86E+02		8.81E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Chromium-51	4.66E+01	9.76E+01	3.26E+02		9.82E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cobalt-57	3.93E+00	6.13E+00	2.15E+01		6.20E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cobalt-57	3.77E+00	4.88E+00	1.67E+01		4.96E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cobalt-58	-4.81E+00	8.37E+00	2.68E+01	1.30E+02	8.45E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cobalt-58	-6.31E+00	7.22E+00	2.23E+01	1.30E+02	7.37E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Cobalt-60	8.80E+00	8.69E+00	2.92E+01	1.30E+02	8.93E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Cobalt-60	-8.52E-02	6.32E+00	2.07E+01	1.30E+02	6.32E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Iodine-131	-2.67E+01	1.80E+01	5.60E+01		1.90E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Iodine-131	9.95E+01	1.00E+02	3.44E+02		1.03E+02	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Iron-59	1.01E+01	2.07E+01	7.02E+01	2.60E+02	2.08E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Iron-59	2.19E+00	1.68E+01	5.65E+01	2.60E+02	1.68E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Lanthanum-140	-2.17E+01	1.03E+01	1.70E+01		1.15E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Lanthanum-140	-3.75E+01	3.69E+01	9.74E+01		3.79E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Manganese-54	4.63E+00	8.74E+00	3.03E+01	1.30E+02	8.81E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Manganese-54	1.82E+01	8.72E+00	1.82E+01	1.30E+02	8.77E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Niobium-95	-4.15E+00	8.79E+00	2.44E+01		8.84E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Niobium-95	-5.46E+00	8.23E+00	2.63E+01		8.33E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Potassium-40	2.54E+03	2.40E+02	2.85E+02		2.70E+02	pCi/kg	
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Potassium-40	2.73E+03	2.28E+02	1.96E+02		2.63E+02	pCi/kg	
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Ruthenium-103	-3.58E+00	9.81E+00	3.18E+01		9.84E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Ruthenium-103	-6.33E+00	1.08E+01	3.28E+01		1.09E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Ruthenium-106	7.39E+00	6.97E+01	2.29E+02		6.97E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Ruthenium-106	2.51E+01	6.44E+01	2.00E+02		6.46E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Selenium-75	-1.71E+01	1.14E+01	3.36E+01		1.21E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Selenium-75	-5.46E+00	7.90E+00	2.46E+01		8.00E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Silver-108m	4.14E+00	6.97E+00	2.42E+01		7.03E+00	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Silver-108m	8.07E-01	5.48E+00	1.59E+01		5.48E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Silver-110m	6.74E+00	1.17E+01	4.07E+01		1.18E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Silver-110m	4.66E+00	8.19E+00	2.89E+01		8.27E+00	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Strontium-89	-2.91E+01	1.53E+01	5.80E+01	3.00E+02	2.04E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Strontium-89	-1.13E+02	5.10E+01	2.06E+02	3.00E+02	8.96E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Strontium-90	-2.15E+01	8.71E+00	4.22E+01	3.00E+02	1.09E+01	pCi/kg	U

## F-3 Channel Catfish

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Strontium-90	3.70E+01	3.91E+01	1.78E+02	3.00E+02	5.71E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Thorium-228	4.94E+01	2.97E+01	6.49E+01		3.19E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Thorium-228	-3.72E+00	1.12E+01	3.54E+01		1.13E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Zinc-65	-1.59E+01	1.99E+01	6.01E+01	2.60E+02	2.02E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Zinc-65	6.92E+00	1.53E+01	5.26E+01	2.60E+02	1.53E+01	pCi/kg	U
F-3 Channel Catfish(513060009) - Fish	1-Jun-20	Zirconium-95	9.17E+00	2.16E+01	4.43E+01		2.16E+01	pCi/kg	U
F-3 Channel Catfish(525972009) - Fish	9-Oct-20	Zirconium-95	-1.30E+01	1.30E+01	3.99E+01		1.34E+01	pCi/kg	U

## F-3 Gizzard Shad

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Actinium-228	-4.67E+01	5.57E+01	1.65E+02		5.67E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Antimony-124	1.88E+01	3.27E+01	1.16E+02		3.30E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Antimony-125	1.65E+01	2.75E+01	9.23E+01		2.77E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Barium-140	3.84E+02	2.11E+02	7.64E+02		2.30E+02	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Beryllium-7	1.26E+02	1.22E+02	4.21E+02		1.26E+02	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cerium-141	-5.33E+01	2.89E+01	7.76E+01		3.15E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cerium-144	-5.51E+01	5.08E+01	1.51E+02		5.24E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cesium-134	2.63E+01	1.18E+01	4.48E+01	1.30E+02	1.33E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cesium-137	4.18E+00	1.27E+01	4.34E+01	1.50E+02	1.27E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Chromium-51	-9.84E+01	1.57E+02	5.00E+02		1.59E+02	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cobalt-57	-1.14E+01	7.49E+00	1.98E+01		7.94E+00	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cobalt-58	-1.21E+00	1.51E+01	4.34E+01	1.30E+02	1.51E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Cobalt-60	4.29E+00	1.28E+01	4.41E+01	1.30E+02	1.28E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Iodine-131	1.81E+02	1.72E+02	5.96E+02		1.77E+02	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Iron-59	6.89E+00	4.02E+01	1.16E+02	2.60E+02	4.02E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Lanthanum-140	-1.37E+02	8.27E+01	2.14E+02		8.87E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Manganese-54	5.39E+00	1.23E+01	4.17E+01	1.30E+02	1.23E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Niobium-95	6.08E+00	1.71E+01	4.96E+01		1.71E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Potassium-40	3.41E+03	3.20E+02	3.28E+02		3.56E+02	pCi/kg	
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Ruthenium-103	-5.94E+00	1.78E+01	5.58E+01		1.79E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Ruthenium-106	-9.57E+01	1.01E+02	2.93E+02		1.04E+02	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Selenium-75	8.71E-01	1.31E+01	4.40E+01		1.31E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Silver-108m	-7.51E+00	8.58E+00	2.61E+01		8.76E+00	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Silver-110m	3.47E+01	2.48E+01	6.07E+01		2.61E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Strontium-89	-2.41E+02	3.99E+01	2.28E+02	3.00E+02	9.14E+01	pCi/kg	U

F-3 Gizzard Shad  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Strontium-90	6.47E+01	4.32E+01	1.89E+02	3.00E+02	6.30E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Thorium-228	9.74E-01	1.93E+01	6.24E+01		1.93E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Zinc-65	-1.06E+01	3.02E+01	9.43E+01	2.60E+02	3.03E+01	pCi/kg	U
F-3 Gizzard Shad(525972014) - Fish	9-Oct-20	Zirconium-95	-1.13E+01	2.68E+01	7.47E+01		2.70E+01	pCi/kg	U

F-3 Lake Drum  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Actinium-228	6.71E+00	2.16E+01	7.11E+01		2.16E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Antimony-124	8.08E+00	1.32E+01	4.72E+01		1.33E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Antimony-125	8.12E+00	1.16E+01	4.01E+01		1.17E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Barium-140	6.74E+01	1.05E+02	3.58E+02		1.06E+02	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Beryllium-7	-5.61E+01	5.21E+01	1.56E+02		5.38E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cerium-141	-1.69E+01	1.23E+01	3.51E+01		1.29E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cerium-144	1.53E+00	2.68E+01	8.39E+01		2.68E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cesium-134	6.53E+00	5.00E+00	1.80E+01	1.30E+02	5.22E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cesium-137	6.47E+00	4.86E+00	1.74E+01	1.50E+02	5.09E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Chromium-51	-7.31E+00	6.76E+01	2.24E+02		6.76E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cobalt-57	-4.21E-01	3.42E+00	1.06E+01		3.42E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cobalt-58	2.08E+00	5.64E+00	1.86E+01	1.30E+02	5.66E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Cobalt-60	1.49E+00	4.52E+00	1.56E+01	1.30E+02	4.53E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Iodine-131	1.30E+01	9.68E+01	2.78E+02		9.68E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Iron-59	-1.53E+01	1.51E+01	4.51E+01	2.60E+02	1.55E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Lanthanum-140	2.21E+01	2.42E+01	9.22E+01		2.47E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Manganese-54	1.18E+01	8.04E+00	1.18E+01	1.30E+02	8.06E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Niobium-95	-3.55E+00	7.80E+00	2.08E+01		7.85E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Potassium-40	2.21E+03	1.91E+02	1.43E+02		2.18E+02	pCi/kg	
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Ruthenium-103	-4.32E+00	7.18E+00	2.23E+01		7.25E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Ruthenium-106	1.29E+02	8.49E+01	1.57E+02		8.51E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Selenium-75	6.06E+00	6.24E+00	2.21E+01		6.40E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Silver-108m	-1.38E+00	4.04E+00	1.30E+01		4.05E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Silver-110m	8.00E+00	6.10E+00	2.31E+01		6.38E+00	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Strontium-89	-1.14E+02	5.93E+01	2.26E+02	3.00E+02	7.83E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Strontium-90	-6.23E+01	3.05E+01	1.66E+02	3.00E+02	4.44E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Thorium-228	-5.60E+00	8.30E+00	2.66E+01		8.40E+00	pCi/kg	U

## F-3 Lake Drum

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Zinc-65	-1.05E+01	1.20E+01	3.68E+01	2.60E+02	1.23E+01	pCi/kg	U
F-3 Lake Drum(525972012) - Fish	9-Oct-20	Zirconium-95	-2.02E+00	9.89E+00	3.07E+01		9.90E+00	pCi/kg	U

## F-3 Longnose Gar

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Actinium-228	9.05E-01	1.67E+01	5.53E+01		1.67E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Antimony-124	-2.09E+01	1.05E+01	2.19E+01		1.16E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Antimony-125	3.39E+00	9.80E+00	3.25E+01		9.83E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Barium-140	3.08E+01	2.07E+01	8.05E+01		2.20E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Beryllium-7	8.21E+01	4.41E+01	8.21E+01		4.43E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cerium-141	-4.85E+00	5.77E+00	1.85E+01		5.88E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cerium-144	-2.46E+01	2.43E+01	6.93E+01		2.50E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cesium-134	5.11E-01	4.90E+00	1.61E+01	1.30E+02	4.90E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cesium-137	1.15E+01	5.22E+00	2.07E+01	1.50E+02	5.87E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Chromium-51	5.44E+01	3.54E+01	1.31E+02		3.76E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cobalt-57	-2.65E+00	2.89E+00	8.30E+00		2.96E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cobalt-58	7.99E-01	3.17E+00	1.08E+01	1.30E+02	3.17E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Cobalt-60	-4.98E+00	5.75E+00	1.62E+01	1.30E+02	5.87E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Iodine-131	-7.33E+00	9.39E+00	2.40E+01		9.54E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Iron-59	-4.02E+00	1.06E+01	3.37E+01	2.60E+02	1.07E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Lanthanum-140	6.08E+00	8.48E+00	3.13E+01		8.60E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Manganese-54	8.53E+00	5.13E+00	1.96E+01	1.30E+02	5.50E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Niobium-95	-7.47E+00	3.62E+00	6.78E+00		4.02E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Potassium-40	1.70E+03	2.04E+02	1.83E+02		2.21E+02	pCi/kg	
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Ruthenium-103	2.12E+00	3.84E+00	1.37E+01		3.88E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Ruthenium-106	-2.60E+00	3.36E+01	1.10E+02		3.36E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Selenium-75	4.50E+00	4.48E+00	1.60E+01		4.60E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Silver-108m	-3.01E-01	3.64E+00	1.14E+01		3.64E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Silver-110m	-1.27E+01	6.38E+00	1.36E+01		7.04E+00	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Strontium-89	5.84E+01	5.98E+01	1.88E+02	3.00E+02	6.53E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Strontium-90	-6.12E-01	1.51E+01	6.21E+01	3.00E+02	1.88E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Thorium-228	1.45E+00	1.12E+01	2.77E+01		1.12E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Zinc-65	-1.45E+00	1.18E+01	3.87E+01	2.60E+02	1.18E+01	pCi/kg	U
F-3 Longnose Gar(513060006) - Fish	1-Jun-20	Zirconium-95	-4.32E+00	9.37E+00	2.89E+01		9.43E+00	pCi/kg	U

## F-3 Silver Bass

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Actinium-228	6.87E+01	6.41E+01	1.92E+02		6.61E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Antimony-124	3.20E+01	3.95E+01	1.36E+02		4.02E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Antimony-125	9.53E-01	2.89E+01	9.61E+01		2.90E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Barium-140	4.79E+01	2.29E+02	7.52E+02		2.29E+02	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Beryllium-7	-8.88E+01	1.44E+02	4.61E+02		1.46E+02	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cerium-141	9.19E+01	5.44E+01	1.01E+02		5.45E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cerium-144	6.29E+01	7.16E+01	2.48E+02		7.31E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cesium-134	4.79E+00	1.31E+01	3.96E+01	1.30E+02	1.31E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cesium-137	-1.96E+00	1.18E+01	3.72E+01	1.50E+02	1.18E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Chromium-51	-2.47E+01	2.20E+02	6.90E+02		2.20E+02	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cobalt-57	7.33E+00	8.82E+00	3.07E+01		8.98E+00	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cobalt-58	2.05E+01	1.79E+01	5.35E+01	1.30E+02	1.86E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Cobalt-60	-5.61E+00	1.35E+01	4.31E+01	1.30E+02	1.35E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Iodine-131	1.54E+01	2.33E+02	6.92E+02		2.33E+02	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Iron-59	-4.36E+01	3.60E+01	1.05E+02	2.60E+02	3.74E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Lanthanum-140	-1.94E+01	6.37E+01	1.99E+02		6.39E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Manganese-54	-2.32E+00	1.25E+01	4.07E+01	1.30E+02	1.25E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Niobium-95	-1.75E+01	1.53E+01	4.75E+01		1.58E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Potassium-40	3.75E+03	3.39E+02	3.76E+02		3.91E+02	pCi/kg	
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Ruthenium-103	3.65E-01	1.77E+01	5.79E+01		1.77E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Ruthenium-106	-1.89E+02	1.34E+02	3.36E+02		1.41E+02	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Selenium-75	5.66E+00	1.75E+01	5.70E+01		1.76E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Silver-108m	-6.68E-01	9.22E+00	3.04E+01		9.22E+00	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Silver-110m	-1.23E+01	1.52E+01	4.70E+01		1.55E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Strontium-89	-4.93E+01	6.70E+01	2.31E+02	3.00E+02	9.60E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Strontium-90	-6.32E+01	3.71E+01	1.91E+02	3.00E+02	5.41E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Thorium-228	8.64E+01	3.75E+01	8.64E+01		4.35E+01	pCi/kg	UI
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Zinc-65	-3.56E+01	2.68E+01	7.72E+01	2.60E+02	2.81E+01	pCi/kg	U
F-3 Silver Bass(525972011) - Fish	9-Oct-20	Zirconium-95	5.83E+01	2.52E+01	9.45E+01		2.87E+01	pCi/kg	U

## F-3 W. Perch

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 W. Perch(525972013) - Fish	9-Oct-20	Actinium-228	-6.00E+00	8.20E+00	2.45E+01		8.33E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Antimony-124	4.18E+00	5.23E+00	1.77E+01		5.32E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Antimony-125	4.92E+00	6.35E+00	1.45E+01		6.45E+00	pCi/kg	U

## F-3 W. Perch

## Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 W. Perch(525972013) - Fish	9-Oct-20	Barium-140	-1.37E+01	3.71E+01	1.19E+02		3.72E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Beryllium-7	2.06E+00	2.05E+01	6.81E+01		2.05E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cerium-141	-1.19E+01	4.94E+00	1.32E+01		5.67E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cerium-144	-6.07E+00	1.00E+01	3.16E+01		1.01E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cesium-134	3.51E+00	1.86E+00	6.82E+00	1.30E+02	2.03E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cesium-137	-2.08E+00	2.04E+00	6.13E+00	1.50E+02	2.10E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Chromium-51	8.23E+00	2.71E+01	9.33E+01		2.72E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cobalt-57	5.66E-02	1.30E+00	4.24E+00		1.30E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cobalt-58	-1.56E+00	2.41E+00	7.21E+00	1.30E+02	2.43E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Cobalt-60	2.24E+00	2.12E+00	7.56E+00	1.30E+02	2.18E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Iodine-131	4.23E+01	2.78E+01	1.00E+02		2.95E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Iron-59	-3.94E+00	6.67E+00	2.13E+01	2.60E+02	6.74E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Lanthanum-140	-1.54E+00	8.46E+00	2.62E+01		8.46E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Manganese-54	2.15E-01	1.86E+00	6.38E+00	1.30E+02	1.86E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Niobium-95	1.46E+00	2.25E+00	7.54E+00		2.28E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Potassium-40	3.13E+03	1.10E+02	3.64E+01		1.93E+02	pCi/kg	
F-3 W. Perch(525972013) - Fish	9-Oct-20	Ruthenium-103	-1.96E+00	2.77E+00	8.74E+00		2.81E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Ruthenium-106	-3.29E+01	1.49E+01	3.98E+01		1.68E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Selenium-75	-4.68E-01	2.11E+00	7.18E+00		2.11E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Silver-108m	-1.46E-01	1.40E+00	4.42E+00		1.40E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Silver-110m	-9.30E-01	2.22E+00	7.24E+00		2.23E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Strontium-89	-8.61E+01	6.06E+01	2.24E+02	3.00E+02	9.53E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Strontium-90	4.61E+01	3.98E+01	1.79E+02	3.00E+02	5.81E+01	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Thorium-228	4.75E+00	4.51E+00	1.05E+01		4.65E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Zinc-65	-1.87E+00	4.79E+00	1.55E+01	2.60E+02	4.81E+00	pCi/kg	U
F-3 W. Perch(525972013) - Fish	9-Oct-20	Zirconium-95	4.14E+00	4.68E+00	1.59E+01		4.78E+00	pCi/kg	U

## F-3 Walleye

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Walleye(525972008) - Fish	9-Oct-20	Actinium-228	-8.75E+00	1.16E+01	3.59E+01		1.18E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Antimony-124	-6.41E+00	7.94E+00	2.18E+01		8.08E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Antimony-125	5.56E+00	4.83E+00	1.76E+01		5.00E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Barium-140	-7.31E+00	5.04E+01	1.64E+02		5.04E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Beryllium-7	-1.97E+01	2.80E+01	8.86E+01		2.84E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cerium-141	-3.91E+00	5.62E+00	1.76E+01		5.69E+00	pCi/kg	U

F-3 Walleye  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 Walleye(525972008) - Fish	9-Oct-20	Cerium-144	2.74E+01	1.80E+01	3.93E+01		1.80E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cesium-134	-2.70E+00	3.30E+00	9.76E+00	1.30E+02	3.36E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cesium-137	1.26E+00	2.72E+00	9.11E+00	1.50E+02	2.74E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Chromium-51	-5.54E+01	3.93E+01	1.24E+02		4.13E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cobalt-57	3.76E+00	1.73E+00	6.23E+00		1.94E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cobalt-58	-1.90E+00	3.38E+00	1.01E+01	1.30E+02	3.40E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Cobalt-60	2.49E+00	2.73E+00	9.86E+00	1.30E+02	2.79E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Iodine-131	-2.75E+01	3.52E+01	1.13E+02		3.57E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Iron-59	1.15E+01	1.03E+01	3.40E+01	2.60E+02	1.07E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Lanthanum-140	5.24E+00	1.36E+01	4.70E+01		1.37E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Manganese-54	-4.84E+00	2.87E+00	7.58E+00	1.30E+02	3.08E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Niobium-95	7.19E-01	3.96E+00	1.28E+01		3.96E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Potassium-40	4.20E+03	1.66E+02	6.81E+01		2.64E+02	pCi/kg	
F-3 Walleye(525972008) - Fish	9-Oct-20	Ruthenium-103	4.65E-01	4.00E+00	1.33E+01		4.00E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Ruthenium-106	-2.30E+01	2.29E+01	6.82E+01		2.35E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Selenium-75	-2.16E+00	2.97E+00	8.78E+00		3.01E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Silver-108m	5.91E-01	1.95E+00	6.64E+00		1.95E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Silver-110m	4.95E+00	3.34E+00	1.27E+01		3.54E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Strontium-89	-1.57E+02	6.63E+01	2.49E+02	3.00E+02	9.50E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Strontium-90	-6.24E+01	3.22E+01	1.67E+02	3.00E+02	4.69E+01	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Thorium-228	5.46E+00	5.55E+00	1.34E+01		5.69E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Zinc-65	-5.85E+00	8.08E+00	2.55E+01	2.60E+02	8.19E+00	pCi/kg	U
F-3 Walleye(525972008) - Fish	9-Oct-20	Zirconium-95	-4.45E+00	4.92E+00	1.40E+01		5.03E+00	pCi/kg	U

F-3 White Bass  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Bass(513060007) - Fish	1-Jun-20	Actinium-228	1.31E+01	2.44E+01	8.96E+01		2.45E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Antimony-124	4.32E+00	7.77E+00	2.93E+01		7.84E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Antimony-125	4.54E+00	9.22E+00	3.28E+01		9.28E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Barium-140	2.44E+01	2.18E+01	8.06E+01		2.25E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Beryllium-7	-2.25E+01	2.53E+01	7.63E+01		2.58E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cerium-141	-1.43E+01	7.41E+00	2.03E+01		8.13E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cerium-144	-2.33E+01	2.34E+01	7.40E+01		2.40E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cesium-134	1.20E+01	6.59E+00	2.11E+01	1.30E+02	7.16E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cesium-137	8.21E+00	4.59E+00	1.69E+01	1.50E+02	4.98E+00	pCi/kg	U

## F-3 White Bass

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Bass(513060007) - Fish	1-Jun-20	Chromium-51	5.97E+00	4.82E+01	1.41E+02		4.82E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cobalt-57	-4.63E-01	2.92E+00	9.69E+00		2.92E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cobalt-58	-8.22E+00	5.83E+00	1.61E+01	1.30E+02	6.14E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Cobalt-60	4.90E+00	4.09E+00	1.64E+01	1.30E+02	4.25E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Iodine-131	-5.73E-01	9.81E+00	3.04E+01		9.81E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Iron-59	-1.43E+00	1.07E+01	3.59E+01	2.60E+02	1.07E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Lanthanum-140	8.55E+00	6.86E+00	2.83E+01		7.14E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Manganese-54	-3.11E+00	4.73E+00	1.41E+01	1.30E+02	4.79E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Niobium-95	-4.54E+00	4.92E+00	1.44E+01		5.04E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Potassium-40	3.01E+03	2.27E+02	7.32E+01		2.69E+02	pCi/kg	
F-3 White Bass(513060007) - Fish	1-Jun-20	Ruthenium-103	1.18E+01	5.93E+00	1.18E+01		6.02E+00	pCi/kg	UI
F-3 White Bass(513060007) - Fish	1-Jun-20	Ruthenium-106	-2.98E+01	4.04E+01	1.25E+02		4.10E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Selenium-75	1.18E+00	5.14E+00	1.67E+01		5.15E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Silver-108m	-3.90E+00	3.31E+00	1.01E+01		3.43E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Silver-110m	3.67E+00	6.43E+00	2.22E+01		6.49E+00	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Strontium-89	-6.47E+01	1.63E+01	7.14E+01	3.00E+02	3.13E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Strontium-90	3.40E+01	1.90E+01	7.11E+01	3.00E+02	2.37E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Thorium-228	1.23E+01	1.25E+01	2.79E+01		1.28E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Zinc-65	-1.83E+01	1.10E+01	2.97E+01	2.60E+02	1.18E+01	pCi/kg	U
F-3 White Bass(513060007) - Fish	1-Jun-20	Zirconium-95	7.09E-01	6.14E+00	2.04E+01		6.14E+00	pCi/kg	U

## F-3 White Perch

## Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Perch(513060005) - Fish	1-Jun-20	Actinium-228	4.79E+01	1.84E+01	6.47E+01		2.16E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Antimony-124	6.70E+00	9.15E+00	3.39E+01		9.28E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Antimony-125	5.67E+00	6.88E+00	2.51E+01		7.01E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Barium-140	9.72E+00	1.95E+01	6.75E+01		1.97E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Beryllium-7	-8.77E+00	2.96E+01	9.56E+01		2.97E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cerium-141	4.67E+00	6.75E+00	1.20E+01		6.75E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cerium-144	1.00E+01	1.75E+01	5.46E+01		1.76E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cesium-134	-3.75E+00	4.61E+00	1.33E+01	1.30E+02	4.69E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cesium-137	2.41E-01	2.48E+00	8.20E+00	1.50E+02	2.49E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Chromium-51	-3.69E+00	2.56E+01	8.61E+01		2.56E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cobalt-57	-2.52E+00	1.85E+00	5.39E+00		1.94E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Cobalt-58	6.90E-01	4.37E+00	1.42E+01	1.30E+02	4.37E+00	pCi/kg	U



F-3 White Perch  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Perch(513060005) - Fish	1-Jun-20	Cobalt-60	-3.82E+00	3.85E+00	1.04E+01	1.30E+02	3.95E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Iodine-131	-2.53E+00	6.92E+00	2.28E+01		6.95E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Iron-59	1.65E+01	9.03E+00	3.61E+01	2.60E+02	9.82E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Lanthanum-140	-8.67E-01	6.39E+00	2.01E+01		6.39E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Manganese-54	6.99E+00	3.70E+00	1.45E+01	1.30E+02	4.05E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Niobium-95	-7.47E-01	2.91E+00	8.94E+00		2.92E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Potassium-40	2.94E+03	2.03E+02	7.74E+01		2.39E+02	pCi/kg	
F-3 White Perch(513060005) - Fish	1-Jun-20	Ruthenium-103	1.82E+00	3.72E+00	1.29E+01		3.74E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Ruthenium-106	-2.71E+01	2.84E+01	8.06E+01		2.91E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Selenium-75	1.01E+00	3.95E+00	1.17E+01		3.96E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Silver-108m	1.70E+00	2.38E+00	8.54E+00		2.41E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Silver-110m	-3.05E+00	5.37E+00	1.56E+01		5.42E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Strontium-89	-7.02E+00	2.69E+01	9.03E+01	3.00E+02	3.87E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Strontium-90	3.26E+01	1.89E+01	6.99E+01	3.00E+02	2.37E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Thorium-228	6.21E-01	5.70E+00	1.90E+01		5.70E+00	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Zinc-65	-1.47E+01	1.02E+01	2.86E+01	2.60E+02	1.08E+01	pCi/kg	U
F-3 White Perch(513060005) - Fish	1-Jun-20	Zirconium-95	-1.06E+01	6.32E+00	9.81E+00		6.78E+00	pCi/kg	U

F-3 White Sucker  
Fish

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Sucker(513060008) - Fish	1-Jun-20	Actinium-228	1.55E+01	1.54E+01	5.22E+01		1.58E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Actinium-228	-4.52E+01	2.79E+01	8.57E+01		2.99E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Antimony-124	-3.70E+00	5.95E+00	1.54E+01		6.01E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Antimony-124	1.32E+01	1.56E+01	5.99E+01		1.59E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Antimony-125	-1.54E+00	9.79E+00	3.09E+01		9.79E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Antimony-125	-2.01E+00	1.56E+01	5.28E+01		1.56E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Barium-140	-8.46E+00	2.06E+01	6.26E+01		2.07E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Barium-140	1.66E+02	1.07E+02	4.07E+02		1.14E+02	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Beryllium-7	2.95E+01	2.58E+01	9.30E+01		2.67E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Beryllium-7	9.06E+01	6.50E+01	2.42E+02		6.83E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cerium-141	-1.19E+01	5.94E+00	1.73E+01		6.56E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cerium-141	-1.70E+01	1.51E+01	4.20E+01		1.56E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cerium-144	-1.58E+01	1.95E+01	6.14E+01		1.99E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cerium-144	-2.66E+00	3.23E+01	1.06E+02		3.23E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cesium-134	7.72E+00	3.57E+00	1.47E+01	1.30E+02	4.01E+00	pCi/kg	U

F-3 White Sucker  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cesium-134	-6.35E-01	5.29E+00	1.71E+01	1.30E+02	5.29E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cesium-137	1.12E-02	3.81E+00	1.14E+01	1.50E+02	3.81E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cesium-137	4.72E+00	7.15E+00	2.49E+01	1.50E+02	7.23E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Chromium-51	-1.13E+01	3.06E+01	9.59E+01		3.07E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Chromium-51	-1.04E+02	1.03E+02	2.98E+02		1.06E+02	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cobalt-57	3.76E+00	2.83E+00	1.01E+01		2.96E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cobalt-57	-4.87E+00	3.62E+00	1.10E+01		3.80E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cobalt-58	7.80E+00	3.81E+00	1.53E+01	1.30E+02	4.22E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cobalt-58	-1.64E+00	8.01E+00	2.27E+01	1.30E+02	8.02E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Cobalt-60	-3.40E+00	4.92E+00	1.48E+01	1.30E+02	4.98E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Cobalt-60	6.94E+00	7.75E+00	2.85E+01	1.30E+02	7.92E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Iodine-131	3.44E+00	7.00E+00	2.35E+01		7.05E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Iodine-131	-7.76E+01	9.58E+01	2.77E+02		9.76E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Iron-59	-4.20E+00	8.95E+00	2.81E+01	2.60E+02	9.00E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Iron-59	-3.17E+01	1.94E+01	4.71E+01	2.60E+02	2.08E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Lanthanum-140	-2.90E+00	7.21E+00	2.18E+01		7.25E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Lanthanum-140	-1.92E+01	3.74E+01	1.13E+02		3.77E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Manganese-54	8.23E+00	5.16E+00	1.46E+01	1.30E+02	5.17E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Manganese-54	2.11E+00	6.69E+00	2.04E+01	1.30E+02	6.71E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Niobium-95	-1.38E+00	4.04E+00	1.34E+01		4.06E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Niobium-95	4.19E+00	7.97E+00	2.75E+01		8.03E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Potassium-40	3.20E+03	2.00E+02	7.92E+01		2.44E+02	pCi/kg	
F-3 White Sucker(525972010) - Fish	9-Oct-20	Potassium-40	4.10E+03	2.92E+02	1.77E+02		3.60E+02	pCi/kg	
F-3 White Sucker(513060008) - Fish	1-Jun-20	Ruthenium-103	-2.90E+00	3.20E+00	9.03E+00		3.28E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Ruthenium-103	1.24E+01	7.70E+00	2.95E+01		8.23E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Ruthenium-106	-3.06E+01	2.21E+01	6.03E+01		2.32E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Ruthenium-106	-3.61E+01	6.21E+01	1.97E+02		6.27E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Selenium-75	7.44E+00	7.59E+00	1.52E+01		7.79E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Selenium-75	-5.19E+00	8.05E+00	2.45E+01		8.14E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Silver-108m	1.64E+00	3.12E+00	1.05E+01		3.14E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Silver-108m	2.31E-01	4.60E+00	1.58E+01		4.60E+00	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Silver-110m	-4.42E+00	5.01E+00	1.51E+01		5.12E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Silver-110m	-6.11E-01	1.02E+01	3.16E+01		1.02E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Strontium-89	-6.88E+00	1.67E+01	5.64E+01	3.00E+02	2.17E+01	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Strontium-89	-2.89E+01	6.56E+01	2.23E+02	3.00E+02	9.66E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Strontium-90	2.02E-01	9.08E+00	3.73E+01	3.00E+02	1.13E+01	pCi/kg	U

F-3 White Sucker  
Fish - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
F-3 White Sucker(525972010) - Fish	9-Oct-20	Strontium-90	1.22E+01	3.85E+01	1.82E+02	3.00E+02	5.62E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Thorium-228	3.23E+00	8.40E+00	2.09E+01		8.44E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Thorium-228	2.67E+01	1.51E+01	3.89E+01		1.64E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Zinc-65	-1.08E+00	8.45E+00	2.76E+01	2.60E+02	8.45E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Zinc-65	4.29E+00	1.39E+01	4.60E+01	2.60E+02	1.39E+01	pCi/kg	U
F-3 White Sucker(513060008) - Fish	1-Jun-20	Zirconium-95	6.25E+00	6.94E+00	2.54E+01		7.10E+00	pCi/kg	U
F-3 White Sucker(525972010) - Fish	9-Oct-20	Zirconium-95	-2.09E+01	1.38E+01	3.80E+01		1.47E+01	pCi/kg	U

FP-9 Unidentified Broadleaf 3  
Vegetation

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Actinium-228	-1.04E+01	3.23E+01	1.11E+02		3.24E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Actinium-228	5.86E+00	1.79E+01	5.82E+01		1.79E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Antimony-124	2.58E+01	1.60E+01	6.77E+01		1.71E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Antimony-124	2.46E-02	1.09E+01	3.55E+01		1.09E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Antimony-125	4.67E+00	1.65E+01	5.73E+01		1.65E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Antimony-125	1.34E+00	1.05E+01	3.19E+01		1.05E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Barium-140	-2.00E+01	3.63E+01	1.16E+02		3.66E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Barium-140	-2.20E+01	2.11E+01	5.72E+01		2.17E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Beryllium-7	1.74E+03	1.82E+02	1.77E+02		1.96E+02	pCi/kg	
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Beryllium-7	2.82E+03	1.23E+02	1.04E+02		1.73E+02	pCi/kg	
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cerium-141	-2.84E+01	1.13E+01	2.92E+01		1.31E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cerium-141	-1.37E+00	6.01E+00	1.91E+01		6.02E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cerium-144	-4.19E+00	3.22E+01	1.06E+02		3.22E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cerium-144	1.38E+01	2.07E+01	6.85E+01		2.10E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cesium-134	-1.03E+01	8.83E+00	2.52E+01	6.00E+01	9.15E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cesium-134	-4.50E+00	3.91E+00	1.12E+01	6.00E+01	4.05E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cesium-137	-9.05E+00	6.38E+00	1.76E+01	8.00E+01	6.72E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cesium-137	1.34E-01	5.02E+00	1.46E+01	8.00E+01	5.02E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Chromium-51	-7.41E+01	6.55E+01	1.89E+02		6.77E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Chromium-51	4.64E+01	3.38E+01	1.21E+02		3.55E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cobalt-57	-7.11E-01	4.19E+00	1.39E+01		4.20E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cobalt-57	-1.66E+00	2.89E+00	9.12E+00		2.91E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cobalt-58	-7.59E+00	7.26E+00	2.06E+01		7.47E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cobalt-58	7.17E+00	4.05E+00	1.43E+01		4.38E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Cobalt-60	1.05E+01	5.82E+00	2.52E+01		6.32E+00	pCi/kg	U

FP-9 Unidentified Broadleaf 3  
Vegetation - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Cobalt-60	-3.50E+00	4.77E+00	1.48E+01		4.84E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Iodine-131	-1.53E+01	1.51E+01	4.34E+01	6.00E+01	1.56E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Iodine-131	-2.31E+00	5.51E+00	1.83E+01	6.00E+01	5.53E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Iron-59	6.38E-01	1.52E+01	5.18E+01		1.52E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Iron-59	2.37E+00	8.52E+00	2.93E+01		8.54E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Lanthanum-140	2.16E+01	1.76E+01	6.64E+01		1.83E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Lanthanum-140	-6.61E-01	6.56E+00	2.12E+01		6.56E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Manganese-54	6.73E+00	7.42E+00	2.63E+01		7.58E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Manganese-54	-4.72E+00	3.61E+00	1.02E+01		3.77E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Niobium-95	7.47E+00	7.66E+00	2.74E+01		7.85E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Niobium-95	3.61E+00	4.12E+00	1.41E+01		4.21E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Potassium-40	5.12E+03	3.64E+02	2.40E+02		4.38E+02	pCi/kg	
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Potassium-40	4.20E+03	2.12E+02	1.25E+02		3.00E+02	pCi/kg	
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Ruthenium-103	4.97E+00	6.06E+00	2.19E+01		6.17E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Ruthenium-103	6.57E-01	3.85E+00	1.29E+01		3.86E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Ruthenium-106	6.79E+01	5.73E+01	2.11E+02		5.94E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Ruthenium-106	-2.05E+00	3.39E+01	1.10E+02		3.39E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Selenium-75	1.20E+01	7.87E+00	2.76E+01		8.35E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Selenium-75	2.94E+00	4.69E+00	1.65E+01		4.74E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Silver-108m	3.85E-01	4.73E+00	1.62E+01		4.74E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Silver-108m	-5.52E+00	3.68E+00	9.86E+00		3.90E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Silver-110m	-1.20E+01	9.72E+00	2.62E+01		1.01E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Silver-110m	2.87E+00	6.42E+00	2.11E+01		6.45E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Thorium-228	-1.82E+01	1.29E+01	4.00E+01		1.36E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Thorium-228	3.82E+01	1.49E+01	4.15E+01		1.74E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Zinc-65	-1.28E+01	2.04E+01	6.54E+01		2.06E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Zinc-65	4.19E+00	9.51E+00	3.30E+01		9.56E+00	pCi/kg	U
FP-9 Unidentified Broadleaf 3(517347003) - Vegetation	30-Jul-20	Zirconium-95	8.72E+00	1.08E+01	3.89E+01		1.10E+01	pCi/kg	U
FP-9 Unidentified Broadleaf 3(520771003) - Vegetation	4-Sep-20	Zirconium-95	-8.59E-01	8.01E+00	2.57E+01		8.01E+00	pCi/kg	U

FP-HD1 Unidentified Broadleaf 2  
Vegetation

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Actinium-228	-2.23E+01	3.43E+01	1.21E+02		3.47E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Actinium-228	3.85E+01	3.66E+01	9.01E+01		3.77E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Antimony-124	-9.54E+00	1.72E+01	5.02E+01		1.73E+01	pCi/kg	U

## FP-HD1 Unidentified Broadleaf 2

## Vegetation - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Antimony-124	-4.84E+00	1.08E+01	3.31E+01		1.08E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Antimony-125	-1.11E+00	1.67E+01	5.53E+01		1.67E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Antimony-125	-1.63E+01	1.40E+01	4.42E+01		1.45E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Barium-140	-1.66E+01	3.37E+01	1.05E+02		3.39E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Barium-140	1.96E+00	1.98E+01	6.54E+01		1.98E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Beryllium-7	3.93E+03	2.16E+02	2.26E+02		2.73E+02	pCi/kg	
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Beryllium-7	3.91E+03	1.45E+02	1.37E+02		2.20E+02	pCi/kg	
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cerium-141	-1.08E+01	1.30E+01	3.93E+01		1.33E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cerium-141	1.25E+01	7.73E+00	2.42E+01		8.26E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cerium-144	6.28E+01	4.04E+01	1.40E+02		4.30E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cerium-144	9.61E+01	5.69E+01	9.61E+01		5.72E+01	pCi/kg	UI
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cesium-134	5.78E+00	8.10E+00	2.78E+01	6.00E+01	8.21E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cesium-134	1.61E+00	6.25E+00	2.03E+01	6.00E+01	6.26E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cesium-137	-9.68E-01	6.96E+00	2.22E+01	8.00E+01	6.97E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cesium-137	-9.01E+00	5.36E+00	1.54E+01	8.00E+01	5.76E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Chromium-51	8.45E+00	7.09E+01	2.41E+02		7.09E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Chromium-51	7.04E+01	4.66E+01	1.65E+02		4.95E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cobalt-57	1.83E+00	5.55E+00	1.80E+01		5.57E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cobalt-57	2.14E+00	3.93E+00	1.28E+01		3.96E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cobalt-58	4.45E-01	7.54E+00	2.42E+01		7.54E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cobalt-58	-4.97E+00	4.60E+00	1.33E+01		4.74E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Cobalt-60	-6.59E+00	6.69E+00	1.86E+01		6.87E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Cobalt-60	3.92E+00	4.55E+00	1.64E+01		4.64E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Iodine-131	1.67E+00	1.46E+01	4.92E+01	6.00E+01	1.46E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Iodine-131	6.39E+00	7.27E+00	2.53E+01	6.00E+01	7.43E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Iron-59	-9.69E+00	1.68E+01	5.30E+01		1.69E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Iron-59	2.96E+00	1.25E+01	4.27E+01		1.26E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Lanthanum-140	-6.45E-01	1.30E+01	4.21E+01		1.30E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Lanthanum-140	-9.64E+00	1.42E+01	2.22E+01		1.44E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Manganese-54	3.37E+00	7.19E+00	2.41E+01		7.24E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Manganese-54	3.02E+00	4.98E+00	1.66E+01		5.03E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Niobium-95	-1.71E+01	9.33E+00	2.44E+01		1.02E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Niobium-95	-5.31E+00	4.90E+00	1.44E+01		5.05E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Potassium-40	3.28E+03	2.85E+02	2.18E+02		3.38E+02	pCi/kg	
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Potassium-40	7.03E+03	2.94E+02	1.85E+02		4.88E+02	pCi/kg	
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Ruthenium-103	-9.25E+00	7.49E+00	2.22E+01		7.80E+00	pCi/kg	U

## FP-HD1 Unidentified Broadleaf 2

## Vegetation - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Ruthenium-103	-4.22E+00	5.20E+00	1.64E+01		5.30E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Ruthenium-106	4.65E+01	6.60E+01	2.27E+02		6.69E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Ruthenium-106	-1.23E+02	4.39E+01	1.15E+02		5.25E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Selenium-75	9.65E+00	9.39E+00	3.36E+01		9.66E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Selenium-75	-2.02E+00	6.10E+00	2.05E+01		6.12E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Silver-108m	7.27E+00	6.50E+00	2.31E+01		6.72E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Silver-108m	5.41E+00	4.36E+00	1.53E+01		4.54E+00	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Silver-110m	1.37E+01	1.05E+01	3.77E+01		1.10E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Silver-110m	1.22E+01	1.98E+01	2.23E+01		2.00E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Thorium-228	4.54E-01	2.53E+01	5.66E+01		2.53E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Thorium-228	-2.11E+01	1.16E+01	3.48E+01		1.26E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Zinc-65	8.68E+00	1.82E+01	6.37E+01		1.83E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Zinc-65	-2.71E+01	1.39E+01	4.11E+01		1.53E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(517347002) - Vegetation	30-Jul-20	Zirconium-95	-1.19E+01	1.60E+01	4.07E+01		1.62E+01	pCi/kg	U
FP-HD1 Unidentified Broadleaf 2(520771002) - Vegetation	4-Sep-20	Zirconium-95	2.46E+01	2.21E+01	2.97E+01		2.29E+01	pCi/kg	U

## FP-HD3 Unidentified Broadleaf 1

## Vegetation

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Actinium-228	-3.33E+01	2.36E+01	6.52E+01		2.49E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Actinium-228	6.25E+01	4.96E+01	1.18E+02		5.17E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Antimony-124	-8.99E+00	1.09E+01	2.97E+01		1.11E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Antimony-124	-2.90E+01	1.69E+01	4.45E+01		1.82E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Antimony-125	-9.32E-01	1.15E+01	3.83E+01		1.15E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Antimony-125	-1.33E+01	1.78E+01	5.68E+01		1.80E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Barium-140	-1.10E+01	2.46E+01	7.82E+01		2.47E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Barium-140	-6.04E+01	3.27E+01	9.46E+01		3.56E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Beryllium-7	6.22E+02	9.28E+01	1.35E+02		9.65E+01	pCi/kg	
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Beryllium-7	2.44E+03	1.56E+02	1.72E+02		1.88E+02	pCi/kg	
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cerium-141	4.23E+00	8.10E+00	2.50E+01		8.16E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cerium-141	-1.34E+00	1.12E+01	3.34E+01		1.12E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cerium-144	-1.83E+01	2.75E+01	8.61E+01		2.79E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cerium-144	3.84E+01	4.43E+01	1.38E+02		4.52E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cesium-134	-6.12E-01	4.82E+00	1.53E+01	6.00E+01	4.82E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cesium-134	-3.65E+00	7.20E+00	2.17E+01	6.00E+01	7.25E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cesium-137	-3.38E+00	4.92E+00	1.50E+01	8.00E+01	4.98E+00	pCi/kg	U

## FP-HD3 Unidentified Broadleaf 1

## Vegetation - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cesium-137	-2.68E+00	7.86E+00	2.47E+01	8.00E+01	7.89E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Chromium-51	-4.14E+01	4.27E+01	1.38E+02		4.38E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Chromium-51	3.65E+01	5.86E+01	2.05E+02		5.93E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cobalt-57	3.83E+00	3.89E+00	1.33E+01		3.99E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cobalt-57	-3.72E+00	4.89E+00	1.55E+01		4.97E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cobalt-58	-3.16E+00	5.05E+00	1.29E+01		5.10E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cobalt-58	5.28E+00	8.42E+00	2.79E+01		8.51E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Cobalt-60	7.87E+00	6.30E+00	2.35E+01		6.57E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Cobalt-60	4.13E+00	6.75E+00	2.36E+01		6.82E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Iodine-131	-1.62E+01	8.69E+00	2.57E+01	6.00E+01	9.48E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Iodine-131	3.35E+00	1.05E+01	3.59E+01	6.00E+01	1.05E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Iron-59	2.70E+01	1.37E+01	5.30E+01		1.52E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Iron-59	1.11E+01	1.41E+01	4.99E+01		1.43E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Lanthanum-140	-1.84E+01	9.99E+00	2.29E+01		1.09E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Lanthanum-140	2.26E+00	1.13E+01	3.72E+01		1.13E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Manganese-54	2.29E+00	5.09E+00	1.70E+01		5.12E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Manganese-54	1.17E+01	1.29E+01	1.62E+01		1.29E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Niobium-95	-8.23E-01	4.92E+00	1.56E+01		4.92E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Niobium-95	8.10E+00	8.26E+00	2.81E+01		8.47E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Potassium-40	3.68E+03	2.47E+02	1.44E+02		3.23E+02	pCi/kg	
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Potassium-40	2.61E+03	2.64E+02	2.61E+02		2.93E+02	pCi/kg	
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Ruthenium-103	6.15E+00	4.36E+00	1.61E+01		4.59E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Ruthenium-103	-2.72E+00	6.99E+00	2.25E+01		7.02E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Ruthenium-106	-4.82E+01	4.70E+01	1.41E+02		4.84E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Ruthenium-106	5.23E+01	6.47E+01	2.21E+02		6.59E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Selenium-75	-2.43E+00	6.82E+00	2.08E+01		6.84E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Selenium-75	1.96E+01	9.14E+00	3.14E+01		1.02E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Silver-108m	1.38E+00	3.85E+00	1.33E+01		3.86E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Silver-108m	1.70E+00	6.45E+00	2.18E+01		6.46E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Silver-110m	-4.82E+00	6.41E+00	1.86E+01		6.51E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Silver-110m	3.96E+00	9.40E+00	3.27E+01		9.44E+00	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Thorium-228	1.19E+01	1.36E+01	3.55E+01		1.39E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Thorium-228	-2.91E+01	1.57E+01	4.27E+01		1.71E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Zinc-65	-1.29E+01	1.29E+01	3.97E+01		1.33E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Zinc-65	1.46E+01	1.87E+01	6.54E+01		1.90E+01	pCi/kg	U
FP-HD3 Unidentified Broadleaf 1(517347001) - Vegetation	30-Jul-20	Zirconium-95	-1.03E+01	9.14E+00	2.60E+01		9.45E+00	pCi/kg	U

## FP-HD3 Unidentified Broadleaf 1

## Vegetation - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
FP-HD3 Unidentified Broadleaf 1(520771001) - Vegetation	4-Sep-20	Zirconium-95	-1.79E+01	1.46E+01	4.22E+01		1.52E+01	pCi/kg	U

## GW-1

## Ground Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-1(506244001) - Ground Water	5-Mar-20	Actinium-228	3.54E-02	4.72E+00	8.61E+00		4.72E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Actinium-228	2.90E+00	4.62E+00	5.23E+00		4.63E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Actinium-228	-8.80E+00	3.41E+00	7.06E+00		3.98E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Actinium-228	1.28E+00	4.41E+00	8.12E+00		4.42E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Antimony-124	-1.20E+00	1.16E+00	3.66E+00		1.20E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Antimony-124	-8.38E-01	1.04E+00	3.28E+00		1.05E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Antimony-124	1.97E-02	1.28E+00	4.12E+00		1.28E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Antimony-124	-1.21E-01	1.32E+00	4.27E+00		1.32E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Antimony-125	4.04E-01	1.35E+00	4.35E+00		1.35E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Antimony-125	9.92E-01	1.20E+00	4.00E+00		1.22E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Antimony-125	-1.08E+00	1.42E+00	4.56E+00		1.44E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Antimony-125	-9.66E-01	1.46E+00	4.74E+00		1.48E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Barium-140	-5.37E-02	2.26E+00	7.41E+00	1.50E+01	2.26E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Barium-140	-1.66E+00	2.01E+00	6.28E+00	1.50E+01	2.05E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Barium-140	-8.39E-01	2.24E+00	7.18E+00	1.50E+01	2.25E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Barium-140	1.43E+00	2.40E+00	8.09E+00	1.50E+01	2.43E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Beryllium-7	9.80E-01	4.07E+00	1.36E+01		4.07E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Beryllium-7	-1.13E+00	3.83E+00	1.23E+01		3.84E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Beryllium-7	3.45E+00	4.21E+00	1.41E+01		4.28E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Beryllium-7	4.14E+00	4.30E+00	1.47E+01		4.41E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cerium-141	-9.73E-01	8.73E-01	2.78E+00		9.02E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cerium-141	-4.48E+00	1.12E+00	2.49E+00		1.53E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cerium-141	-2.24E+00	1.13E+00	2.61E+00		1.25E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cerium-141	-8.05E-01	1.34E+00	3.29E+00		1.35E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cerium-144	-1.56E+00	3.32E+00	1.08E+01		3.34E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cerium-144	1.75E+00	2.98E+00	9.55E+00		3.00E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cerium-144	-2.73E+00	3.33E+00	1.03E+01		3.39E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cerium-144	2.30E+00	4.06E+00	1.30E+01		4.09E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cesium-134	3.20E-01	5.45E-01	1.78E+00	1.50E+01	5.51E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cesium-134	-1.33E-02	4.64E-01	1.55E+00	1.50E+01	4.64E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cesium-134	-8.56E-01	5.12E-01	1.62E+00	1.50E+01	5.50E-01	pCi/L	U



## GW-1

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-1(529205001) - Ground Water	3-Dec-20	Cesium-134	-6.28E-01	6.21E-01	1.88E+00	1.50E+01	6.39E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cesium-137	-3.09E-01	9.48E-01	1.80E+00	1.80E+01	9.51E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cesium-137	-1.70E-01	4.39E-01	1.47E+00	1.80E+01	4.41E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cesium-137	-3.05E-01	5.44E-01	1.70E+00	1.80E+01	5.48E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cesium-137	-2.66E-01	5.46E-01	1.72E+00	1.80E+01	5.49E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Chromium-51	-8.37E-01	4.39E+00	1.49E+01		4.40E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Chromium-51	-1.14E+00	3.92E+00	1.30E+01		3.93E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Chromium-51	3.13E+00	4.17E+00	1.42E+01		4.24E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Chromium-51	2.34E+00	5.45E+00	1.68E+01		5.48E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cobalt-57	-2.50E-02	4.16E-01	1.37E+00		4.16E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cobalt-57	-3.12E-01	3.72E-01	1.17E+00		3.79E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cobalt-57	-2.92E-01	4.13E-01	1.28E+00		4.19E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cobalt-57	-1.93E-01	5.03E-01	1.58E+00		5.05E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cobalt-58	-7.53E-02	5.17E-01	1.63E+00	1.50E+01	5.17E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cobalt-58	3.93E-02	4.21E-01	1.41E+00	1.50E+01	4.21E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cobalt-58	-4.61E-01	4.91E-01	1.61E+00	1.50E+01	5.03E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cobalt-58	-5.22E-01	4.66E-01	1.38E+00	1.50E+01	4.81E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Cobalt-60	3.15E-01	5.38E-01	1.81E+00	1.50E+01	5.43E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Cobalt-60	1.16E+00	4.52E-01	1.67E+00	1.50E+01	5.26E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Cobalt-60	8.03E-01	5.21E-01	1.86E+00	1.50E+01	5.53E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Cobalt-60	-2.57E-02	5.68E-01	1.88E+00	1.50E+01	5.68E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Iodine-131	-2.67E-01	7.56E-01	2.53E+00		7.58E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Iodine-131	-4.29E-01	6.76E-01	2.20E+00		6.83E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Iodine-131	-4.00E-01	7.08E-01	2.32E+00		7.15E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Iodine-131	5.49E-02	9.29E-01	3.12E+00		9.29E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Iron-59	1.14E-01	1.01E+00	3.37E+00	3.00E+01	1.01E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Iron-59	8.72E-01	1.00E+00	2.99E+00	3.00E+01	1.02E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Iron-59	2.09E-01	9.93E-01	3.34E+00	3.00E+01	9.95E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Iron-59	5.34E-01	9.76E-01	3.38E+00	3.00E+01	9.84E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Lanthanum-140	3.50E-01	8.57E-01	2.82E+00	1.50E+01	8.61E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Lanthanum-140	-1.29E+00	6.54E-01	1.97E+00	1.50E+01	7.21E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Lanthanum-140	3.83E-01	7.66E-01	2.56E+00	1.50E+01	7.72E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Lanthanum-140	6.22E-01	7.25E-01	2.54E+00	1.50E+01	7.40E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Manganese-54	-2.25E-01	4.87E-01	1.63E+00	1.50E+01	4.89E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Manganese-54	5.63E-01	4.58E-01	1.58E+00	1.50E+01	4.76E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Manganese-54	-7.48E-01	4.94E-01	1.57E+00	1.50E+01	5.24E-01	pCi/L	U

## GW-1

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-1(529205001) - Ground Water	3-Dec-20	Manganese-54	9.89E-01	6.03E-01	2.07E+00	1.50E+01	6.46E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Niobium-95	-1.12E-02	5.32E-01	1.69E+00	1.50E+01	5.32E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Niobium-95	-5.50E-01	7.25E-01	1.55E+00	1.50E+01	7.37E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Niobium-95	4.84E-01	5.56E-01	1.83E+00	1.50E+01	5.67E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Niobium-95	5.55E-01	1.32E+00	1.73E+00	1.50E+01	1.32E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Potassium-40	4.81E-01	1.49E+01	1.81E+01		1.49E+01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Potassium-40	3.54E+01	1.46E+01	1.45E+01		1.47E+01	pCi/L	
GW-1(521292001) - Ground Water	11-Sep-20	Potassium-40	-2.12E+00	1.04E+01	2.20E+01		1.04E+01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Potassium-40	1.48E+01	1.24E+01	1.75E+01		1.24E+01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Ruthenium-103	-3.56E-02	5.17E-01	1.71E+00		5.17E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Ruthenium-103	-6.86E-01	4.79E-01	1.49E+00		5.05E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Ruthenium-103	-1.20E+00	5.17E-01	1.55E+00		5.88E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Ruthenium-103	-8.36E-01	5.74E-01	1.79E+00		6.07E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Ruthenium-106	-1.63E+00	4.68E+00	1.50E+01		4.70E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Ruthenium-106	-5.61E+00	4.00E+00	1.21E+01		4.21E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Ruthenium-106	-5.19E+00	4.33E+00	1.32E+01		4.50E+00	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Ruthenium-106	-9.19E+00	4.93E+00	1.47E+01		5.38E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Selenium-75	-4.26E-01	6.62E-01	2.03E+00		6.69E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Selenium-75	9.48E-01	5.60E-01	1.95E+00		6.02E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Selenium-75	1.72E-01	6.39E-01	2.17E+00		6.40E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Selenium-75	-2.22E-01	7.01E-01	2.37E+00		7.03E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Silver-108m	-2.39E-01	4.20E-01	1.38E+00		4.23E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Silver-108m	2.28E-01	3.99E-01	1.32E+00		4.03E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Silver-108m	6.66E-01	4.64E-01	1.59E+00		4.90E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Silver-108m	3.57E-01	4.55E-01	1.55E+00		4.63E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Silver-110m	-1.03E+00	1.20E+00	2.22E+00		1.22E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Silver-110m	9.12E-01	5.70E-01	1.99E+00		6.09E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Silver-110m	1.23E+00	7.16E-01	2.58E+00		7.72E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Silver-110m	2.06E-01	7.79E-01	2.51E+00		7.81E-01	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Thorium-228	1.04E+01	1.71E+00	2.93E+00		1.79E+00	pCi/L	
GW-1(513407001) - Ground Water	11-Jun-20	Thorium-228	1.19E-01	1.35E+00	3.18E+00		1.35E+00	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Thorium-228	2.76E+00	1.76E+00	2.76E+00		1.76E+00	pCi/L	UI
GW-1(529205001) - Ground Water	3-Dec-20	Thorium-228	1.94E+00	2.05E+00	4.41E+00		2.10E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Tritium	-5.86E+01	1.08E+02	3.61E+02	5.00E+02	1.08E+02	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Tritium	-2.27E+01	1.08E+02	3.59E+02	5.00E+02	1.08E+02	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Tritium	-2.07E+01	1.36E+02	4.49E+02	5.00E+02	1.36E+02	pCi/L	U

## GW-1

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-1(529205001) - Ground Water	3-Dec-20	Tritium	3.03E+02	1.59E+02	4.83E+02	5.00E+02	1.62E+02	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Zinc-65	-1.34E+00	1.21E+00	3.25E+00	3.00E+01	1.25E+00	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Zinc-65	-4.99E-02	9.74E-01	2.76E+00	3.00E+01	9.74E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Zinc-65	1.66E-01	9.97E-01	3.34E+00	3.00E+01	9.98E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Zinc-65	-5.29E-01	1.14E+00	3.75E+00	3.00E+01	1.15E+00	pCi/L	U
GW-1(506244001) - Ground Water	5-Mar-20	Zirconium-95	1.35E+00	9.07E-01	3.08E+00	1.50E+01	9.60E-01	pCi/L	U
GW-1(513407001) - Ground Water	11-Jun-20	Zirconium-95	-4.14E-01	7.75E-01	2.56E+00	1.50E+01	7.81E-01	pCi/L	U
GW-1(521292001) - Ground Water	11-Sep-20	Zirconium-95	-4.69E-01	9.33E-01	2.89E+00	1.50E+01	9.40E-01	pCi/L	U
GW-1(529205001) - Ground Water	3-Dec-20	Zirconium-95	-2.65E-01	9.24E-01	2.91E+00	1.50E+01	9.26E-01	pCi/L	U

## GW-2

## Ground Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-2(506244002) - Ground Water	5-Mar-20	Actinium-228	-3.04E+00	3.21E+00	8.70E+00		3.29E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Actinium-228	2.29E+00	3.80E+00	6.41E+00		3.84E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Actinium-228	2.95E+00	4.17E+00	1.06E+01		4.23E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Actinium-228	-6.72E+00	3.45E+00	7.62E+00		3.79E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Antimony-124	1.18E-01	1.08E+00	3.48E+00		1.08E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Antimony-124	-1.54E-01	1.15E+00	3.73E+00		1.15E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Antimony-124	-2.79E+00	2.17E+00	5.66E+00		2.27E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Antimony-124	-4.24E-02	1.11E+00	3.53E+00		1.11E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Antimony-125	2.64E+00	1.44E+00	5.02E+00		1.57E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Antimony-125	3.02E+00	1.37E+00	4.83E+00		1.54E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Antimony-125	3.11E-01	2.05E+00	6.54E+00		2.05E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Antimony-125	-1.52E-01	1.39E+00	4.66E+00		1.39E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Barium-140	-2.29E+00	2.41E+00	7.73E+00	1.50E+01	2.47E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Barium-140	-5.60E-01	2.08E+00	6.83E+00	1.50E+01	2.08E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Barium-140	2.86E-01	3.03E+00	1.02E+01	1.50E+01	3.03E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Barium-140	7.21E-01	2.38E+00	8.00E+00	1.50E+01	2.38E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Beryllium-7	-5.76E+00	4.58E+00	1.48E+01		4.78E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Beryllium-7	-5.21E+00	4.23E+00	1.37E+01		4.41E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Beryllium-7	1.38E+00	5.78E+00	1.97E+01		5.79E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Beryllium-7	-1.40E+00	4.18E+00	1.39E+01		4.20E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cerium-141	1.01E+00	1.78E+00	3.29E+00		1.78E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cerium-141	-1.40E+00	1.36E+00	3.12E+00		1.40E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cerium-141	-1.62E+00	1.72E+00	4.34E+00		1.76E+00	pCi/L	U

## GW-2

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-2(529205002) - Ground Water	3-Dec-20	Cerium-141	-6.02E-01	1.04E+00	3.02E+00		1.04E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cerium-144	-4.64E+00	4.52E+00	1.27E+01		4.65E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cerium-144	-9.05E-01	3.70E+00	1.20E+01		3.71E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cerium-144	9.34E-01	5.25E+00	1.64E+01		5.26E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cerium-144	-4.50E+00	4.72E+00	1.20E+01		4.83E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cesium-134	6.98E-01	9.69E-01	1.70E+00	1.50E+01	9.83E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cesium-134	-3.32E-01	5.96E-01	1.66E+00	1.50E+01	6.01E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cesium-134	-2.93E-01	7.66E-01	2.45E+00	1.50E+01	7.70E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cesium-134	1.46E-03	5.50E-01	1.78E+00	1.50E+01	5.50E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cesium-137	4.76E-01	1.17E+00	1.87E+00	1.80E+01	1.17E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cesium-137	-8.74E-01	6.92E-01	1.66E+00	1.80E+01	7.22E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cesium-137	-1.88E+00	8.33E-01	2.14E+00	1.80E+01	9.43E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cesium-137	-5.23E-01	5.88E-01	1.64E+00	1.80E+01	6.01E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Chromium-51	1.55E+00	5.10E+00	1.75E+01		5.11E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Chromium-51	4.08E+00	4.57E+00	1.59E+01		4.67E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Chromium-51	2.96E+00	6.53E+00	2.15E+01		6.57E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Chromium-51	2.03E+00	4.56E+00	1.58E+01		4.58E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cobalt-57	5.77E-01	5.13E-01	1.71E+00		5.30E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cobalt-57	5.80E-02	4.77E-01	1.56E+00		4.77E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cobalt-57	6.94E-01	6.93E-01	2.21E+00		7.12E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cobalt-57	5.14E-01	4.74E-01	1.57E+00		4.89E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cobalt-58	-8.26E-02	5.69E-01	1.60E+00	1.50E+01	5.70E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cobalt-58	-6.85E-01	5.41E-01	1.45E+00	1.50E+01	5.64E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cobalt-58	-2.70E-01	7.91E-01	2.20E+00	1.50E+01	7.93E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cobalt-58	-4.06E-01	4.77E-01	1.48E+00	1.50E+01	4.86E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Cobalt-60	4.00E-01	5.76E-01	1.95E+00	1.50E+01	5.84E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Cobalt-60	-6.49E-01	4.66E-01	1.45E+00	1.50E+01	4.91E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Cobalt-60	1.61E+00	9.06E-01	2.88E+00	1.50E+01	9.81E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Cobalt-60	1.33E-01	5.01E-01	1.71E+00	1.50E+01	5.02E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Iodine-131	1.21E+00	8.23E-01	2.87E+00		8.71E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Iodine-131	1.37E+00	9.90E-01	2.52E+00		9.91E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Iodine-131	1.08E+00	1.02E+00	3.38E+00		1.05E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Iodine-131	-6.22E-01	8.63E-01	2.88E+00		8.75E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Iron-59	-4.43E-01	1.03E+00	3.38E+00	3.00E+01	1.03E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Iron-59	-1.35E+00	8.89E-01	2.82E+00	3.00E+01	9.44E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Iron-59	1.47E+00	1.41E+00	4.91E+00	3.00E+01	1.45E+00	pCi/L	U

## GW-2

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-2(529205002) - Ground Water	3-Dec-20	Iron-59	-6.37E-01	9.80E-01	2.98E+00	3.00E+01	9.92E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Lanthanum-140	8.37E-03	8.75E-01	2.83E+00	1.50E+01	8.75E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Lanthanum-140	-3.40E-01	7.29E-01	2.33E+00	1.50E+01	7.34E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Lanthanum-140	-3.00E+00	1.19E+00	3.26E+00	1.50E+01	1.38E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Lanthanum-140	1.32E+00	9.20E-01	2.71E+00	1.50E+01	9.70E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Manganese-54	-1.06E+00	6.50E-01	1.70E+00	1.50E+01	6.96E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Manganese-54	-5.26E-01	4.79E-01	1.47E+00	1.50E+01	4.94E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Manganese-54	-1.31E+00	7.16E-01	2.15E+00	1.50E+01	7.78E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Manganese-54	-5.05E-02	4.90E-01	1.58E+00	1.50E+01	4.90E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Niobium-95	6.87E-01	6.61E-01	1.96E+00	1.50E+01	6.80E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Niobium-95	1.16E+00	5.37E-01	1.69E+00	1.50E+01	6.02E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Niobium-95	-2.20E-01	8.48E-01	2.39E+00	1.50E+01	8.49E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Niobium-95	1.62E-01	5.24E-01	1.55E+00	1.50E+01	5.25E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Potassium-40	-8.54E+00	9.44E+00	2.23E+01		9.65E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Potassium-40	6.97E+00	1.18E+01	1.68E+01		1.18E+01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Potassium-40	-2.32E+01	1.46E+01	2.99E+01		1.56E+01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Potassium-40	-1.27E+01	9.30E+00	2.32E+01		9.77E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Ruthenium-103	-3.75E-01	5.19E-01	1.69E+00		5.26E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Ruthenium-103	-5.03E-02	5.60E-01	1.67E+00		5.60E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Ruthenium-103	-8.54E-01	7.03E-01	2.30E+00		7.31E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Ruthenium-103	7.35E-01	5.67E-01	1.80E+00		5.92E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Ruthenium-106	2.53E+00	4.66E+00	1.54E+01		4.70E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Ruthenium-106	6.57E+00	4.12E+00	1.41E+01		4.40E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Ruthenium-106	7.98E-01	6.29E+00	2.10E+01		6.29E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Ruthenium-106	2.36E+00	4.09E+00	1.38E+01		4.13E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Selenium-75	-5.07E-01	7.89E-01	2.43E+00		7.98E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Selenium-75	6.30E-01	7.25E-01	2.31E+00		7.40E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Selenium-75	-5.74E-01	1.02E+00	3.31E+00		1.02E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Selenium-75	4.31E-01	7.58E-01	2.40E+00		7.64E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Silver-108m	-3.63E-01	4.73E-01	1.56E+00		4.80E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Silver-108m	-8.84E-02	4.50E-01	1.51E+00		4.50E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Silver-108m	-3.40E-01	6.77E-01	2.12E+00		6.81E-01	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Silver-108m	-4.37E-01	4.46E-01	1.46E+00		4.57E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Silver-110m	-9.91E-01	7.92E-01	2.25E+00		8.25E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Silver-110m	-6.24E-01	7.12E-01	2.20E+00		7.27E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Silver-110m	-9.03E-01	1.08E+00	3.05E+00		1.10E+00	pCi/L	U

GW-2

Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-2(529205002) - Ground Water	3-Dec-20	Silver-110m	9.11E-02	6.84E-01	2.22E+00		6.84E-01	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Thorium-228	3.36E+00	1.78E+00	3.36E+00		1.79E+00	pCi/L	UI
GW-2(513407002) - Ground Water	11-Jun-20	Thorium-228	-1.56E-01	1.72E+00	3.68E+00		1.72E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Thorium-228	-1.64E+00	2.32E+00	5.10E+00		2.35E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Thorium-228	-2.49E+00	1.48E+00	3.69E+00		1.59E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Tritium	-5.49E+00	1.08E+02	3.56E+02	5.00E+02	1.08E+02	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Tritium	3.68E+01	1.09E+02	3.53E+02	5.00E+02	1.09E+02	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Tritium	1.55E+02	1.41E+02	4.47E+02	5.00E+02	1.42E+02	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Tritium	1.73E+02	1.53E+02	4.78E+02	5.00E+02	1.54E+02	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Zinc-65	-1.97E+00	1.73E+00	3.58E+00	3.00E+01	1.79E+00	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Zinc-65	-2.15E+00	1.59E+00	3.37E+00	3.00E+01	1.67E+00	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Zinc-65	1.42E+00	1.64E+00	4.99E+00	3.00E+01	1.67E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Zinc-65	1.15E-01	1.23E+00	3.71E+00	3.00E+01	1.23E+00	pCi/L	U
GW-2(506244002) - Ground Water	5-Mar-20	Zirconium-95	-9.66E-01	9.09E-01	2.80E+00	1.50E+01	9.37E-01	pCi/L	U
GW-2(513407002) - Ground Water	11-Jun-20	Zirconium-95	1.64E-01	8.54E-01	2.78E+00	1.50E+01	8.55E-01	pCi/L	U
GW-2(521292002) - Ground Water	11-Sep-20	Zirconium-95	-5.07E-01	1.20E+00	3.84E+00	1.50E+01	1.20E+00	pCi/L	U
GW-2(529205002) - Ground Water	3-Dec-20	Zirconium-95	-1.50E+00	8.87E-01	2.65E+00	1.50E+01	9.54E-01	pCi/L	U

GW-3

Ground Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-3(506244003) - Ground Water	5-Mar-20	Actinium-228	-2.58E+00	3.75E+00	7.62E+00		3.80E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Actinium-228	-3.89E+00	2.82E+00	5.95E+00		2.96E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Actinium-228	-4.58E+00	4.25E+00	9.24E+00		4.39E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Actinium-228	-7.04E+00	3.44E+00	7.93E+00		3.82E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Antimony-124	6.27E-01	1.02E+00	3.46E+00		1.03E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Antimony-124	-8.37E-01	8.20E-01	2.51E+00		8.43E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Antimony-124	-2.19E+00	1.53E+00	4.71E+00		1.62E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Antimony-124	-3.57E-01	1.11E+00	3.62E+00		1.11E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Antimony-125	-3.71E-01	1.69E+00	4.05E+00		1.69E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Antimony-125	-3.39E-01	9.79E-01	3.28E+00		9.82E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Antimony-125	8.15E-01	1.65E+00	5.58E+00		1.66E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Antimony-125	1.88E-01	1.26E+00	4.29E+00		1.26E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Barium-140	1.30E+00	2.07E+00	6.98E+00	1.50E+01	2.09E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Barium-140	8.72E-01	1.64E+00	5.58E+00	1.50E+01	1.65E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Barium-140	-7.25E-01	2.64E+00	8.58E+00	1.50E+01	2.65E+00	pCi/L	U

## GW-3

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-3(529205003) - Ground Water	3-Dec-20	Barium-140	3.16E-01	2.58E+00	8.66E+00	1.50E+01	2.58E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Beryllium-7	4.95E-01	3.76E+00	1.26E+01		3.76E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Beryllium-7	7.66E-01	3.24E+00	1.10E+01		3.24E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Beryllium-7	9.56E-01	4.69E+00	1.56E+01		4.69E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Beryllium-7	-3.52E+00	4.56E+00	1.50E+01		4.64E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cerium-141	-2.12E+00	8.77E-01	2.68E+00		1.01E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cerium-141	9.76E-01	1.62E+00	2.21E+00		1.62E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cerium-141	-4.67E-01	1.07E+00	3.17E+00		1.08E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cerium-141	-6.54E-01	1.32E+00	3.08E+00		1.33E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cerium-144	-3.28E+00	3.63E+00	1.05E+01		3.71E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cerium-144	-1.94E+00	2.73E+00	8.72E+00		2.76E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cerium-144	4.63E+00	4.20E+00	1.30E+01		4.34E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cerium-144	-2.37E+00	3.64E+00	1.15E+01		3.68E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cesium-134	-8.25E-01	6.60E-01	1.55E+00	1.50E+01	6.88E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cesium-134	5.82E-01	4.64E-01	1.44E+00	1.50E+01	4.84E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cesium-134	-5.69E-01	6.58E-01	1.99E+00	1.50E+01	6.71E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cesium-134	6.22E-01	5.27E-01	1.81E+00	1.50E+01	5.47E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cesium-137	1.16E+00	5.86E-01	1.48E+00	1.80E+01	5.88E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cesium-137	8.92E-01	3.88E-01	1.39E+00	1.80E+01	4.40E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cesium-137	1.11E+00	6.63E-01	2.28E+00	1.80E+01	7.12E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cesium-137	6.47E-01	5.39E-01	1.86E+00	1.80E+01	5.60E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Chromium-51	-3.80E+00	4.15E+00	1.39E+01		4.25E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Chromium-51	5.42E+00	3.39E+00	1.20E+01		3.62E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Chromium-51	-3.77E-01	5.46E+00	1.85E+01		5.46E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Chromium-51	5.40E+00	4.58E+00	1.61E+01		4.75E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cobalt-57	2.46E-01	4.42E-01	1.44E+00		4.45E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cobalt-57	3.36E-01	3.51E-01	1.16E+00		3.59E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cobalt-57	7.83E-02	5.73E-01	1.74E+00		5.73E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cobalt-57	5.48E-01	4.90E-01	1.61E+00		5.07E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cobalt-58	3.31E-02	4.62E-01	1.49E+00	1.50E+01	4.62E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cobalt-58	-1.85E-01	3.76E-01	1.19E+00	1.50E+01	3.79E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cobalt-58	-1.70E-01	6.15E-01	1.92E+00	1.50E+01	6.16E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Cobalt-58	-3.40E-01	5.02E-01	1.58E+00	1.50E+01	5.08E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Cobalt-60	4.06E-01	4.58E-01	1.60E+00	1.50E+01	4.68E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Cobalt-60	-5.07E-01	8.81E-01	1.60E+00	1.50E+01	8.89E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Cobalt-60	-4.52E-01	6.84E-01	2.14E+00	1.50E+01	6.92E-01	pCi/L	U

## GW-3

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-3(529205003) - Ground Water	3-Dec-20	Cobalt-60	-1.54E+00	1.21E+00	1.87E+00	1.50E+01	1.26E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Iodine-131	-8.48E-01	6.66E-01	2.18E+00		6.95E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Iodine-131	4.39E-02	5.84E-01	2.00E+00		5.84E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Iodine-131	1.65E+00	8.16E-01	2.90E+00		9.03E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Iodine-131	-5.39E-01	8.47E-01	2.84E+00		8.57E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Iron-59	-6.45E-01	8.82E-01	2.89E+00	3.00E+01	8.95E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Iron-59	-6.05E-01	8.65E-01	2.31E+00	3.00E+01	8.77E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Iron-59	-2.01E+00	1.34E+00	4.13E+00	3.00E+01	1.42E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Iron-59	-8.02E-01	9.69E-01	2.94E+00	3.00E+01	9.88E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Lanthanum-140	-2.97E-01	6.52E-01	2.08E+00	1.50E+01	6.56E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Lanthanum-140	-2.11E-01	5.46E-01	1.77E+00	1.50E+01	5.48E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Lanthanum-140	-2.12E-01	9.68E-01	3.06E+00	1.50E+01	9.70E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Lanthanum-140	8.44E-01	8.10E-01	2.87E+00	1.50E+01	8.34E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Manganese-54	4.06E-02	4.48E-01	1.44E+00	1.50E+01	4.48E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Manganese-54	-2.28E-01	4.04E-01	1.28E+00	1.50E+01	4.08E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Manganese-54	-4.62E-01	5.63E-01	1.85E+00	1.50E+01	5.73E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Manganese-54	-9.80E-01	7.88E-01	1.54E+00	1.50E+01	8.21E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Niobium-95	-2.74E-01	7.54E-01	1.63E+00	1.50E+01	7.57E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Niobium-95	-7.48E-03	4.37E-01	1.42E+00	1.50E+01	4.37E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Niobium-95	1.91E+00	8.45E-01	1.91E+00	1.50E+01	8.51E-01	pCi/L	UI
GW-3(529205003) - Ground Water	3-Dec-20	Niobium-95	-5.55E-01	4.92E-01	1.53E+00	1.50E+01	5.09E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Potassium-40	8.81E+00	1.09E+01	1.67E+01		1.09E+01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Potassium-40	9.40E+00	9.49E+00	1.33E+01		9.49E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Potassium-40	1.92E+01	1.60E+01	1.92E+01		1.61E+01	pCi/L	UI
GW-3(529205003) - Ground Water	3-Dec-20	Potassium-40	-1.16E+01	1.04E+01	2.99E+01		1.07E+01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Ruthenium-103	-7.65E-01	4.64E-01	1.46E+00		4.97E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Ruthenium-103	-7.30E-02	4.33E-01	1.29E+00		4.34E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Ruthenium-103	6.24E-01	8.79E-01	1.99E+00		8.79E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Ruthenium-103	1.34E-03	5.85E-01	1.76E+00		5.85E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Ruthenium-106	3.97E+00	4.00E+00	1.36E+01		4.11E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Ruthenium-106	3.00E+00	3.56E+00	1.21E+01		3.63E+00	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Ruthenium-106	2.33E+00	5.54E+00	1.82E+01		5.57E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Ruthenium-106	1.32E+00	4.59E+00	1.54E+01		4.60E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Selenium-75	8.05E-02	6.00E-01	2.07E+00		6.00E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Selenium-75	3.97E-01	5.55E-01	1.77E+00		5.63E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Selenium-75	3.62E-01	8.38E-01	2.64E+00		8.42E-01	pCi/L	U



## GW-3

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-3(529205003) - Ground Water	3-Dec-20	Selenium-75	2.25E-01	7.30E-01	2.30E+00		7.32E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Silver-108m	-6.91E-02	4.04E-01	1.35E+00		4.04E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Silver-108m	-3.05E-01	4.94E-01	1.12E+00		4.99E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Silver-108m	-9.65E-01	5.50E-01	1.73E+00		5.95E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Silver-108m	5.38E-01	4.54E-01	1.58E+00		4.71E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Silver-110m	-6.62E-02	5.86E-01	1.86E+00		5.86E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Silver-110m	6.51E-01	5.55E-01	1.71E+00		5.75E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Silver-110m	4.66E-02	7.83E-01	2.65E+00		7.83E-01	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Silver-110m	2.80E-01	6.60E-01	2.18E+00		6.63E-01	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Thorium-228	5.51E+00	1.86E+00	2.62E+00		1.88E+00	pCi/L	
GW-3(513407003) - Ground Water	11-Jun-20	Thorium-228	3.53E+00	1.51E+00	2.21E+00		1.52E+00	pCi/L	
GW-3(521292003) - Ground Water	11-Sep-20	Thorium-228	1.75E+00	2.19E+00	3.43E+00		2.19E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Thorium-228	-6.64E-01	1.64E+00	3.89E+00		1.65E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Tritium	-1.65E+01	1.09E+02	3.59E+02	5.00E+02	1.09E+02	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Tritium	-7.38E+00	1.01E+02	3.34E+02	5.00E+02	1.01E+02	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Tritium	2.03E+01	1.35E+02	4.43E+02	5.00E+02	1.35E+02	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Tritium	3.01E+01	1.50E+02	4.90E+02	5.00E+02	1.50E+02	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Zinc-65	1.79E+00	1.32E+00	3.29E+00	3.00E+01	1.38E+00	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Zinc-65	-3.25E-02	9.56E-01	2.68E+00	3.00E+01	9.56E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Zinc-65	1.24E+00	1.34E+00	4.18E+00	3.00E+01	1.38E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Zinc-65	2.24E+00	1.13E+00	3.67E+00	3.00E+01	1.24E+00	pCi/L	U
GW-3(506244003) - Ground Water	5-Mar-20	Zirconium-95	-6.26E-01	8.10E-01	2.53E+00	1.50E+01	8.23E-01	pCi/L	U
GW-3(513407003) - Ground Water	11-Jun-20	Zirconium-95	2.76E-02	7.01E-01	2.29E+00	1.50E+01	7.01E-01	pCi/L	U
GW-3(521292003) - Ground Water	11-Sep-20	Zirconium-95	-1.29E+00	2.03E+00	3.45E+00	1.50E+01	2.05E+00	pCi/L	U
GW-3(529205003) - Ground Water	3-Dec-20	Zirconium-95	4.82E-01	8.76E-01	2.94E+00	1.50E+01	8.83E-01	pCi/L	U

## GW-4

## Ground Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4(506244004) - Ground Water	5-Mar-20	Actinium-228	7.84E+00	4.46E+00	9.15E+00		4.82E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Actinium-228	-6.32E-01	3.48E+00	7.31E+00		3.48E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Actinium-228	3.30E+00	3.98E+00	7.54E+00		4.05E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Actinium-228	8.62E-01	3.90E+00	6.49E+00		3.90E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Antimony-124	1.45E+00	1.43E+00	5.04E+00		1.46E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Antimony-124	-3.43E-01	9.32E-01	2.97E+00		9.35E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Antimony-124	1.78E+00	1.12E+00	4.01E+00		1.19E+00	pCi/L	U

## GW-4

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4(529205004) - Ground Water	3-Dec-20	Antimony-124	1.92E+00	1.31E+00	4.68E+00		1.39E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Antimony-125	-1.68E+00	1.48E+00	4.63E+00		1.53E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Antimony-125	-1.13E+00	1.28E+00	4.17E+00		1.30E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Antimony-125	-7.28E-01	1.34E+00	4.30E+00		1.35E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Antimony-125	-2.03E+00	1.20E+00	3.79E+00		1.29E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Barium-140	2.19E+00	2.60E+00	8.58E+00	1.50E+01	2.65E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Barium-140	1.38E+00	1.94E+00	6.58E+00	1.50E+01	1.97E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Barium-140	1.29E-01	2.28E+00	7.33E+00	1.50E+01	2.28E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Barium-140	2.52E-01	2.05E+00	6.83E+00	1.50E+01	2.05E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Beryllium-7	-5.38E+00	4.62E+00	1.43E+01		4.79E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Beryllium-7	-5.49E+00	3.71E+00	1.18E+01		3.93E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Beryllium-7	4.36E+00	4.12E+00	1.38E+01		4.25E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Beryllium-7	6.00E-01	4.14E+00	1.39E+01		4.15E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cerium-141	-6.76E-02	8.76E-01	2.71E+00		8.76E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cerium-141	1.93E+00	8.80E-01	2.74E+00		9.89E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cerium-141	-1.39E+00	8.70E-01	2.67E+00		9.28E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cerium-141	-2.87E+00	9.01E-01	2.69E+00		1.12E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cerium-144	-4.61E+00	3.51E+00	1.06E+01		3.67E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cerium-144	-4.69E+00	3.46E+00	1.08E+01		3.63E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cerium-144	3.02E+00	3.45E+00	1.11E+01		3.52E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cerium-144	-1.50E-01	3.27E+00	1.06E+01		3.27E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cesium-134	-5.05E-01	6.25E-01	2.03E+00	1.50E+01	6.36E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cesium-134	3.18E-01	4.78E-01	1.58E+00	1.50E+01	4.84E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cesium-134	2.54E-01	5.30E-01	1.80E+00	1.50E+01	5.33E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cesium-134	9.27E-01	5.12E-01	1.80E+00	1.50E+01	5.56E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cesium-137	-1.32E+00	6.16E-01	1.94E+00	1.80E+01	6.89E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cesium-137	-3.25E-01	4.94E-01	1.57E+00	1.80E+01	4.99E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cesium-137	1.47E-02	4.95E-01	1.68E+00	1.80E+01	4.95E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cesium-137	1.71E-01	4.75E-01	1.58E+00	1.80E+01	4.76E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Chromium-51	2.00E+00	4.78E+00	1.60E+01		4.80E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Chromium-51	3.85E+00	4.27E+00	1.48E+01		4.36E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Chromium-51	-3.91E+00	4.33E+00	1.42E+01		4.43E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Chromium-51	-3.20E+00	4.32E+00	1.45E+01		4.39E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cobalt-57	6.06E-01	4.91E-01	1.38E+00		4.92E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cobalt-57	-1.85E-01	4.37E-01	1.40E+00		4.39E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cobalt-57	-3.95E-02	4.16E-01	1.33E+00		4.16E-01	pCi/L	U

## GW-4

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4(529205004) - Ground Water	3-Dec-20	Cobalt-57	-3.35E-01	4.27E-01	1.37E+00		4.34E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cobalt-58	-1.11E+00	6.23E-01	1.86E+00	1.50E+01	6.75E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cobalt-58	6.03E-01	4.51E-01	1.53E+00	1.50E+01	4.73E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cobalt-58	3.64E-01	4.89E-01	1.67E+00	1.50E+01	4.97E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cobalt-58	8.65E-01	4.85E-01	1.70E+00	1.50E+01	5.26E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Cobalt-60	4.60E-02	6.93E-01	2.24E+00	1.50E+01	6.93E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Cobalt-60	1.70E+00	5.29E-01	1.75E+00	1.50E+01	6.63E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Cobalt-60	-1.09E-01	4.95E-01	1.66E+00	1.50E+01	4.96E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Cobalt-60	-3.42E-01	4.75E-01	1.50E+00	1.50E+01	4.82E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Iodine-131	-5.68E-01	8.06E-01	2.59E+00		8.17E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Iodine-131	4.34E-01	7.13E-01	2.45E+00		7.20E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Iodine-131	-5.21E-01	6.79E-01	2.20E+00		6.90E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Iodine-131	1.02E+00	7.55E-01	2.67E+00		7.92E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Iron-59	1.02E+00	1.23E+00	4.18E+00	3.00E+01	1.25E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Iron-59	2.00E-01	8.60E-01	2.94E+00	3.00E+01	8.62E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Iron-59	-1.37E+00	9.81E-01	3.00E+00	3.00E+01	1.03E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Iron-59	-1.10E+00	9.36E-01	2.96E+00	3.00E+01	9.71E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Lanthanum-140	-9.76E-01	8.83E-01	2.77E+00	1.50E+01	9.12E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Lanthanum-140	-4.27E-02	7.40E-01	2.12E+00	1.50E+01	7.40E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Lanthanum-140	-7.17E-02	7.14E-01	2.36E+00	1.50E+01	7.14E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Lanthanum-140	4.85E-01	9.52E-01	2.85E+00	1.50E+01	9.58E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Manganese-54	1.08E+00	6.18E-01	2.19E+00	1.50E+01	6.67E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Manganese-54	5.81E-01	5.11E-01	1.55E+00	1.50E+01	5.29E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Manganese-54	-1.35E-01	4.83E-01	1.59E+00	1.50E+01	4.84E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Manganese-54	-3.99E-03	4.96E-01	1.59E+00	1.50E+01	4.96E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Niobium-95	1.79E+00	9.13E-01	1.79E+00	1.50E+01	9.20E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Niobium-95	3.19E-01	8.95E-01	1.54E+00	1.50E+01	8.95E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Niobium-95	8.80E-01	5.47E-01	1.73E+00	1.50E+01	5.85E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Niobium-95	-7.48E-01	7.22E-01	1.72E+00	1.50E+01	7.43E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Potassium-40	-4.81E+00	9.89E+00	2.54E+01		9.95E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Potassium-40	-1.45E+01	1.02E+01	2.24E+01		1.08E+01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Potassium-40	-1.99E+01	9.20E+00	2.55E+01		1.03E+01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Potassium-40	1.38E+00	1.09E+01	1.76E+01		1.09E+01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Ruthenium-103	-1.37E+00	5.99E-01	1.77E+00		6.80E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Ruthenium-103	-1.06E+00	4.67E-01	1.44E+00		5.28E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Ruthenium-103	1.16E-01	5.05E-01	1.47E+00		5.05E-01	pCi/L	U

## GW-4

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4(529205004) - Ground Water	3-Dec-20	Ruthenium-103	-6.06E-01	5.10E-01	1.63E+00		5.29E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Ruthenium-106	-6.72E+00	5.39E+00	1.70E+01		5.62E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Ruthenium-106	1.11E+00	4.02E+00	1.33E+01		4.03E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Ruthenium-106	-4.79E+00	4.38E+00	1.33E+01		4.53E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Ruthenium-106	3.19E+00	4.38E+00	1.48E+01		4.45E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Selenium-75	6.94E-01	6.76E-01	2.31E+00		6.95E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Selenium-75	-6.25E-01	6.00E-01	2.02E+00		6.18E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Selenium-75	-4.81E-02	6.21E-01	2.09E+00		6.21E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Selenium-75	-2.97E-01	6.89E-01	2.12E+00		6.92E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Silver-108m	-2.79E-01	4.86E-01	1.55E+00		4.90E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Silver-108m	-3.58E-02	4.28E-01	1.43E+00		4.28E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Silver-108m	-2.17E-01	4.50E-01	1.45E+00		4.53E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Silver-108m	-9.92E-03	4.20E-01	1.41E+00		4.20E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Silver-110m	-3.95E-01	8.75E-01	2.86E+00		8.80E-01	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Silver-110m	2.43E-01	6.63E-01	2.15E+00		6.65E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Silver-110m	5.90E-01	6.58E-01	2.25E+00		6.72E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Silver-110m	-1.91E-01	5.97E-01	1.87E+00		5.99E-01	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Thorium-228	3.57E+00	1.57E+00	2.80E+00		1.57E+00	pCi/L	
GW-4(513407004) - Ground Water	11-Jun-20	Thorium-228	2.86E+00	1.99E+00	2.86E+00		2.00E+00	pCi/L	UI
GW-4(521292004) - Ground Water	11-Sep-20	Thorium-228	4.04E-01	1.87E+00	2.92E+00		1.87E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Thorium-228	2.66E-01	1.76E+00	3.49E+00		1.76E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Tritium	-9.61E+00	1.10E+02	3.62E+02	5.00E+02	1.10E+02	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Tritium	6.50E+01	1.07E+02	3.45E+02	5.00E+02	1.07E+02	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Tritium	-6.69E+01	1.34E+02	4.48E+02	5.00E+02	1.34E+02	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Tritium	2.74E+02	1.60E+02	4.90E+02	5.00E+02	1.63E+02	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Zinc-65	8.17E-01	1.50E+00	4.43E+00	3.00E+01	1.51E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Zinc-65	2.79E-01	1.04E+00	3.15E+00	3.00E+01	1.04E+00	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Zinc-65	-6.33E-01	1.06E+00	2.88E+00	3.00E+01	1.07E+00	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Zinc-65	3.17E-01	1.15E+00	3.49E+00	3.00E+01	1.16E+00	pCi/L	U
GW-4(506244004) - Ground Water	5-Mar-20	Zirconium-95	-1.73E+00	1.08E+00	3.40E+00	1.50E+01	1.15E+00	pCi/L	U
GW-4(513407004) - Ground Water	11-Jun-20	Zirconium-95	-1.05E+00	7.70E-01	2.34E+00	1.50E+01	8.09E-01	pCi/L	U
GW-4(521292004) - Ground Water	11-Sep-20	Zirconium-95	4.78E-01	7.83E-01	2.68E+00	1.50E+01	7.91E-01	pCi/L	U
GW-4(529205004) - Ground Water	3-Dec-20	Zirconium-95	5.20E-01	9.06E-01	3.01E+00	1.50E+01	9.14E-01	pCi/L	U

## GW-4 QC

## Ground Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4 QC(506244005) - Ground Water	5-Mar-20	Actinium-228	-3.04E+00	3.23E+00	8.53E+00		3.31E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Actinium-228	6.48E-01	7.20E+00	1.20E+01		7.20E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Actinium-228	-7.61E-01	2.48E+00	6.33E+00		2.49E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Actinium-228	-5.11E+00	3.33E+00	8.14E+00		3.54E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Antimony-124	-8.31E-01	1.48E+00	4.81E+00		1.49E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Antimony-124	-3.04E+00	2.29E+00	4.53E+00		2.40E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Antimony-124	1.41E+00	1.17E+00	3.71E+00		1.22E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Antimony-124	-1.42E-01	1.34E+00	3.99E+00		1.34E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Antimony-125	-2.69E+00	2.48E+00	5.41E+00		2.56E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Antimony-125	-1.03E+00	1.70E+00	5.67E+00		1.71E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Antimony-125	-5.73E-01	1.19E+00	3.96E+00		1.20E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Antimony-125	-1.26E-01	1.59E+00	4.61E+00		1.59E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Barium-140	-2.03E+00	2.74E+00	9.00E+00	1.50E+01	2.78E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Barium-140	3.58E-01	2.87E+00	9.68E+00	1.50E+01	2.87E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Barium-140	3.45E-01	1.83E+00	6.12E+00	1.50E+01	1.84E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Barium-140	5.34E+00	2.76E+00	9.42E+00	1.50E+01	3.03E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Beryllium-7	-3.06E+00	4.79E+00	1.60E+01		4.85E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Beryllium-7	7.83E-01	5.51E+00	1.88E+01		5.52E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Beryllium-7	-2.18E-01	3.55E+00	1.18E+01		3.55E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Beryllium-7	-1.41E-01	4.75E+00	1.54E+01		4.75E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cerium-141	-3.80E+00	1.49E+00	3.46E+00		1.74E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cerium-141	2.85E+00	1.77E+00	3.73E+00		1.77E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cerium-141	3.76E-01	7.87E-01	2.38E+00		7.92E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cerium-141	8.23E-01	1.70E+00	3.09E+00		1.70E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cerium-144	1.96E+00	4.50E+00	1.30E+01		4.52E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cerium-144	-2.50E+00	4.30E+00	1.41E+01		4.34E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cerium-144	9.25E+00	5.49E+00	9.62E+00		5.51E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cerium-144	5.42E+00	3.61E+00	1.18E+01		3.83E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cesium-134	-1.00E+00	6.21E-01	1.88E+00	1.50E+01	6.64E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cesium-134	9.80E-01	7.07E-01	2.47E+00	1.50E+01	7.43E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cesium-134	-2.75E-01	4.39E-01	1.37E+00	1.50E+01	4.44E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cesium-134	1.58E+00	6.32E-01	1.95E+00	1.50E+01	7.33E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cesium-137	-1.03E+00	6.40E-01	2.00E+00	1.80E+01	6.83E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cesium-137	6.03E-01	7.61E-01	2.60E+00	1.80E+01	7.74E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cesium-137	4.04E-01	4.33E-01	1.47E+00	1.80E+01	4.44E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cesium-137	-2.46E-01	4.97E-01	1.66E+00	1.80E+01	5.00E-01	pCi/L	U

## GW-4 QC

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4 QC(506244005) - Ground Water	5-Mar-20	Chromium-51	-1.29E+00	7.00E+00	1.91E+01		7.00E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Chromium-51	8.07E+00	6.55E+00	2.14E+01		6.82E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Chromium-51	-1.64E+00	3.75E+00	1.27E+01		3.77E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Chromium-51	-7.66E-01	5.07E+00	1.68E+01		5.07E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cobalt-57	-8.02E-01	5.63E-01	1.71E+00		5.94E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cobalt-57	-3.79E-01	5.67E-01	1.87E+00		5.74E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cobalt-57	1.28E-01	3.99E-01	1.31E+00		4.00E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cobalt-57	-4.12E-02	4.55E-01	1.45E+00		4.55E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cobalt-58	-1.10E+00	5.95E-01	1.78E+00	1.50E+01	6.48E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cobalt-58	2.57E-01	5.72E-01	1.91E+00	1.50E+01	5.75E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cobalt-58	-5.90E-01	4.20E-01	1.25E+00	1.50E+01	4.42E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cobalt-58	7.76E-01	5.53E-01	1.94E+00	1.50E+01	5.83E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Cobalt-60	-4.08E-01	6.23E-01	1.97E+00	1.50E+01	6.30E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Cobalt-60	5.27E-01	7.70E-01	2.41E+00	1.50E+01	7.80E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Cobalt-60	-1.40E-01	4.55E-01	1.49E+00	1.50E+01	4.56E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Cobalt-60	5.69E-01	5.91E-01	1.93E+00	1.50E+01	6.06E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Iodine-131	5.98E-02	9.03E-01	2.91E+00		9.03E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Iodine-131	-9.65E-01	1.15E+00	3.46E+00		1.17E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Iodine-131	3.88E-01	6.23E-01	1.95E+00		6.30E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Iodine-131	-2.86E-01	8.82E-01	2.89E+00		8.84E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Iron-59	-8.19E-01	1.22E+00	3.96E+00	3.00E+01	1.24E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Iron-59	5.27E+00	3.66E+00	5.27E+00	3.00E+01	3.88E+00	pCi/L	UI
GW-4 QC(521292005) - Ground Water	11-Sep-20	Iron-59	2.62E-01	8.11E-01	2.78E+00	3.00E+01	8.13E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Iron-59	2.55E-01	1.06E+00	3.49E+00	3.00E+01	1.06E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Lanthanum-140	-2.78E+00	1.04E+00	2.82E+00	1.50E+01	1.23E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Lanthanum-140	-2.68E+00	2.09E+00	3.74E+00	1.50E+01	2.19E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Lanthanum-140	3.93E-01	6.87E-01	2.33E+00	1.50E+01	6.94E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Lanthanum-140	-4.86E-02	8.96E-01	2.97E+00	1.50E+01	8.96E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Manganese-54	-1.50E+00	5.86E-01	1.69E+00	1.50E+01	6.83E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Manganese-54	1.49E+00	6.73E-01	2.42E+00	1.50E+01	7.58E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Manganese-54	4.22E-02	4.40E-01	1.42E+00	1.50E+01	4.40E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Manganese-54	-4.74E-01	5.16E-01	1.66E+00	1.50E+01	5.28E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Niobium-95	2.26E+00	6.31E-01	2.30E+00	1.50E+01	8.24E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Niobium-95	7.28E-01	7.59E-01	2.58E+00	1.50E+01	7.78E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Niobium-95	1.67E-01	4.71E-01	1.54E+00	1.50E+01	4.72E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Niobium-95	-8.89E-01	5.76E-01	1.83E+00	1.50E+01	6.13E-01	pCi/L	U

## GW-4 QC

## Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4 QC(506244005) - Ground Water	5-Mar-20	Potassium-40	3.12E-01	1.16E+01	2.90E+01		1.16E+01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Potassium-40	-3.94E+01	1.36E+01	3.81E+01		1.65E+01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Potassium-40	-1.65E+01	8.63E+00	2.09E+01		9.47E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Potassium-40	1.61E+01	1.57E+01	1.61E+01		1.58E+01	pCi/L	UI
GW-4 QC(506244005) - Ground Water	5-Mar-20	Ruthenium-103	-9.01E-01	6.69E-01	1.89E+00		7.02E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Ruthenium-103	-1.50E+00	6.62E-01	2.05E+00		7.50E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Ruthenium-103	3.28E-01	4.56E-01	1.55E+00		4.62E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Ruthenium-103	2.02E-01	7.78E-01	1.79E+00		7.80E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Ruthenium-106	3.72E+00	4.96E+00	1.68E+01		5.03E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Ruthenium-106	-3.83E+00	6.26E+00	2.03E+01		6.33E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Ruthenium-106	-2.21E+00	4.98E+00	1.43E+01		5.00E+00	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Ruthenium-106	6.59E-01	4.68E+00	1.49E+01		4.68E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Selenium-75	4.69E-01	8.18E-01	2.73E+00		8.26E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Selenium-75	1.12E+00	9.07E-01	2.99E+00		9.44E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Selenium-75	3.61E-01	6.06E-01	1.93E+00		6.12E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Selenium-75	1.33E+00	1.13E+00	2.44E+00		1.17E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Silver-108m	-7.87E-01	5.80E-01	1.77E+00		6.08E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Silver-108m	2.88E-01	5.70E-01	1.97E+00		5.74E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Silver-108m	-2.11E-01	3.87E-01	1.28E+00		3.90E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Silver-108m	-8.69E-01	4.65E-01	1.43E+00		5.07E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Silver-110m	6.59E-01	9.05E-01	2.65E+00		9.19E-01	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Silver-110m	-5.16E-01	9.77E-01	3.06E+00		9.84E-01	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Silver-110m	-1.13E+00	9.01E-01	2.02E+00		9.39E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Silver-110m	-3.24E-01	7.06E-01	2.30E+00		7.10E-01	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Thorium-228	8.89E+00	2.34E+00	3.59E+00		2.40E+00	pCi/L	
GW-4 QC(513407005) - Ground Water	11-Jun-20	Thorium-228	7.29E-01	2.42E+00	5.25E+00		2.42E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Thorium-228	3.57E+00	1.62E+00	3.57E+00		1.99E+00	pCi/L	UI
GW-4 QC(529205005) - Ground Water	3-Dec-20	Thorium-228	-1.36E+00	1.62E+00	3.66E+00		1.65E+00	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Tritium	1.13E+01	1.12E+02	3.66E+02	5.00E+02	1.12E+02	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Tritium	2.13E+02	1.15E+02	3.54E+02	5.00E+02	1.17E+02	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Tritium	-5.59E+01	1.34E+02	4.48E+02	5.00E+02	1.34E+02	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Tritium	2.73E+02	1.56E+02	4.77E+02	5.00E+02	1.59E+02	pCi/L	U
GW-4 QC(506244005) - Ground Water	5-Mar-20	Zinc-65	1.52E+00	1.46E+00	4.48E+00	3.00E+01	1.50E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Zinc-65	-2.73E+00	1.93E+00	5.05E+00	3.00E+01	2.03E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Zinc-65	-1.01E+00	8.56E-01	2.30E+00	3.00E+01	8.88E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Zinc-65	6.69E-01	1.30E+00	3.82E+00	3.00E+01	1.31E+00	pCi/L	U

GW-4 QC

Ground Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
GW-4 QC(506244005) - Ground Water	5-Mar-20	Zirconium-95	1.34E+00	1.01E+00	3.47E+00	1.50E+01	1.06E+00	pCi/L	U
GW-4 QC(513407005) - Ground Water	11-Jun-20	Zirconium-95	1.09E+00	1.24E+00	4.22E+00	1.50E+01	1.26E+00	pCi/L	U
GW-4 QC(521292005) - Ground Water	11-Sep-20	Zirconium-95	2.84E-01	6.92E-01	2.28E+00	1.50E+01	6.95E-01	pCi/L	U
GW-4 QC(529205005) - Ground Water	3-Dec-20	Zirconium-95	-5.61E-01	9.27E-01	3.04E+00	1.50E+01	9.36E-01	pCi/L	U

M-8

Milk

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(500790001) - Milk	9-Jan-20	Actinium-228	-3.63E+00	4.26E+00	9.50E+00		4.34E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Actinium-228	3.88E-01	3.28E+00	7.28E+00		3.28E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Actinium-228	9.13E+00	4.28E+00	1.37E+01		4.79E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Actinium-228	8.84E+00	3.02E+00	8.84E+00		3.83E+00	pCi/L	UI
M-8(511558001) - Milk	14-May-20	Actinium-228	2.81E-01	4.02E+00	8.18E+00		4.02E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Actinium-228	-6.72E+00	3.95E+00	1.02E+01		4.25E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Actinium-228	-3.97E+00	3.59E+00	7.86E+00		3.71E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Actinium-228	-5.82E+00	3.86E+00	9.05E+00		4.09E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Actinium-228	-1.43E+00	4.66E+00	8.50E+00		4.67E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Actinium-228	-6.80E+00	4.38E+00	8.60E+00		4.66E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Actinium-228	-2.76E+00	4.56E+00	1.38E+01		4.61E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Actinium-228	4.37E-01	5.48E+00	9.60E+00		5.48E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Actinium-228	-2.32E+00	2.63E+00	6.06E+00		2.69E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Actinium-228	-4.79E+00	3.62E+00	8.91E+00		3.79E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Actinium-228	-1.12E+01	4.72E+00	1.02E+01		5.40E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Actinium-228	-7.55E+00	3.61E+00	8.40E+00		4.03E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Actinium-228	6.62E+00	3.01E+00	1.06E+01		3.39E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Actinium-228	6.47E+00	4.73E+00	7.86E+00		4.96E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Antimony-124	8.06E-02	1.37E+00	4.60E+00		1.37E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Antimony-124	-5.16E-02	9.64E-01	3.12E+00		9.64E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Antimony-124	-2.21E+00	1.81E+00	5.38E+00		1.88E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Antimony-124	-1.57E+00	2.45E+00	4.33E+00		2.47E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Antimony-124	6.61E-01	1.24E+00	4.31E+00		1.25E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Antimony-124	-2.77E+00	1.38E+00	3.87E+00		1.53E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Antimony-124	9.40E-01	1.03E+00	3.57E+00		1.05E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Antimony-124	1.58E+00	1.42E+00	5.01E+00		1.47E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Antimony-124	6.19E-02	1.11E+00	3.73E+00		1.11E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Antimony-124	1.58E+00	1.20E+00	4.28E+00		1.25E+00	pCi/L	U



M-8

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Antimony-124	-1.59E+00	1.53E+00	4.18E+00		1.58E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Antimony-124	-8.88E-01	1.11E+00	3.45E+00		1.13E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Antimony-124	3.72E-01	8.98E-01	3.03E+00		9.03E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Antimony-124	6.02E-01	1.22E+00	4.11E+00		1.23E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Antimony-124	-7.29E-01	1.67E+00	4.59E+00		1.68E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Antimony-124	8.35E-01	9.70E-01	3.35E+00		9.89E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Antimony-124	1.37E+00	1.28E+00	4.54E+00		1.32E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Antimony-124	-1.80E-01	1.09E+00	3.36E+00		1.09E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Antimony-125	-1.07E+00	1.65E+00	5.34E+00		1.67E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Antimony-125	-4.66E-01	1.33E+00	3.96E+00		1.33E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Antimony-125	-6.63E-02	2.81E+00	7.58E+00		2.81E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Antimony-125	4.41E-01	1.50E+00	4.99E+00		1.50E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Antimony-125	-8.90E-01	1.39E+00	4.56E+00		1.40E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Antimony-125	2.55E+00	1.75E+00	5.86E+00		1.85E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Antimony-125	-9.87E-01	1.26E+00	4.12E+00		1.29E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Antimony-125	1.55E+00	1.62E+00	5.59E+00		1.66E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Antimony-125	3.84E-01	1.32E+00	4.32E+00		1.32E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Antimony-125	-1.34E+00	1.48E+00	4.84E+00		1.51E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Antimony-125	1.59E+00	2.18E+00	7.54E+00		2.21E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Antimony-125	-1.46E+00	2.00E+00	5.00E+00		2.03E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Antimony-125	8.54E-01	1.15E+00	3.99E+00		1.17E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Antimony-125	-7.65E-01	1.38E+00	4.56E+00		1.40E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Antimony-125	1.08E-02	1.97E+00	6.25E+00		1.97E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Antimony-125	1.86E+00	1.32E+00	4.56E+00		1.39E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Antimony-125	2.01E-01	1.85E+00	5.93E+00		1.85E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Antimony-125	-1.99E+00	1.25E+00	3.91E+00		1.33E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Barium-140	2.12E+00	3.33E+00	1.11E+01	1.50E+01	3.36E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Barium-140	1.82E+00	2.17E+00	7.36E+00	1.50E+01	2.21E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Barium-140	-4.58E+00	3.47E+00	1.10E+01	1.50E+01	3.63E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Barium-140	-3.46E-01	2.21E+00	7.15E+00	1.50E+01	2.21E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Barium-140	1.46E+00	2.90E+00	9.67E+00	1.50E+01	2.92E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Barium-140	-1.68E+00	2.58E+00	8.56E+00	1.50E+01	2.61E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Barium-140	9.96E-01	2.28E+00	7.60E+00	1.50E+01	2.29E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Barium-140	-1.93E-01	2.22E+00	7.33E+00	1.50E+01	2.22E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Barium-140	2.24E+00	2.47E+00	8.10E+00	1.50E+01	2.53E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Barium-140	-1.61E+00	2.84E+00	8.20E+00	1.50E+01	2.86E+00	pCi/L	U

M-8  
Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Barium-140	-1.68E+00	3.89E+00	1.26E+01	1.50E+01	3.91E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Barium-140	-3.67E+00	2.67E+00	8.16E+00	1.50E+01	2.81E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Barium-140	-9.32E-02	2.02E+00	6.75E+00	1.50E+01	2.02E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Barium-140	-1.47E+00	2.32E+00	7.51E+00	1.50E+01	2.35E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Barium-140	-1.63E+00	3.63E+00	1.05E+01	1.50E+01	3.65E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Barium-140	3.74E+00	2.90E+00	7.39E+00	1.50E+01	3.03E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Barium-140	-1.56E+00	3.00E+00	9.99E+00	1.50E+01	3.02E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Barium-140	3.43E+00	2.06E+00	6.93E+00	1.50E+01	2.21E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Beryllium-7	-1.95E-02	5.26E+00	1.73E+01		5.26E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Beryllium-7	4.05E+00	3.68E+00	1.26E+01		3.80E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Beryllium-7	-1.13E+00	7.05E+00	2.37E+01		7.05E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Beryllium-7	-6.68E+00	4.73E+00	1.49E+01		4.98E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Beryllium-7	9.00E-01	4.57E+00	1.52E+01		4.57E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Beryllium-7	6.62E+00	5.37E+00	1.78E+01		5.59E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Beryllium-7	4.22E+00	4.64E+00	1.43E+01		4.74E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Beryllium-7	5.97E+00	4.85E+00	1.68E+01		5.05E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Beryllium-7	-1.10E+00	4.18E+00	1.34E+01		4.19E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Beryllium-7	2.41E+00	4.75E+00	1.61E+01		4.78E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Beryllium-7	-7.78E+00	6.79E+00	2.13E+01		7.03E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Beryllium-7	-1.19E+00	4.77E+00	1.53E+01		4.78E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Beryllium-7	2.53E+00	3.59E+00	1.23E+01		3.63E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Beryllium-7	-4.42E+00	4.50E+00	1.45E+01		4.62E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Beryllium-7	2.67E+00	5.86E+00	2.01E+01		5.89E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Beryllium-7	1.09E+00	4.28E+00	1.42E+01		4.28E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Beryllium-7	7.05E+00	5.97E+00	1.97E+01		6.19E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Beryllium-7	-8.99E-01	4.13E+00	1.33E+01		4.13E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cerium-141	1.10E+00	2.26E+00	3.73E+00		2.26E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cerium-141	-4.15E+00	1.23E+00	2.60E+00		1.57E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cerium-141	-2.91E+00	1.76E+00	4.51E+00		1.89E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cerium-141	-2.27E+00	1.28E+00	2.96E+00		1.39E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cerium-141	-2.95E+00	1.53E+00	3.17E+00		1.68E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cerium-141	-5.52E-01	1.08E+00	3.63E+00		1.08E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cerium-141	-6.39E-01	8.89E-01	2.77E+00		9.02E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cerium-141	-4.39E+00	1.46E+00	3.35E+00		1.79E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cerium-141	1.84E+00	1.47E+00	2.27E+00		1.47E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cerium-141	-7.27E-01	1.09E+00	3.45E+00		1.11E+00	pCi/L	U

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## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Cerium-141	-2.28E+00	1.65E+00	4.65E+00		1.73E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cerium-141	-4.58E+00	1.44E+00	3.13E+00		1.79E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cerium-141	-3.05E-01	6.92E-01	2.25E+00		6.96E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cerium-141	3.97E-04	8.88E-01	2.85E+00		8.88E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cerium-141	1.42E+00	1.14E+00	3.98E+00		1.19E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cerium-141	2.42E+00	9.76E-01	3.00E+00		1.13E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cerium-141	2.45E-03	1.35E+00	4.12E+00		1.35E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cerium-141	1.97E+00	1.28E+00	2.47E+00		1.29E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cerium-144	-1.14E+00	4.19E+00	1.41E+01		4.20E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cerium-144	-3.12E+00	3.03E+00	9.67E+00		3.12E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cerium-144	2.73E+00	5.74E+00	1.81E+01		5.78E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cerium-144	-3.16E+00	3.72E+00	1.18E+01		3.80E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cerium-144	3.93E+00	3.58E+00	1.19E+01		3.70E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cerium-144	-3.29E+00	4.20E+00	1.42E+01		4.27E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cerium-144	6.30E+00	3.50E+00	1.15E+01		3.80E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cerium-144	-1.59E+00	4.56E+00	1.45E+01		4.57E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cerium-144	-1.95E+00	3.01E+00	9.25E+00		3.04E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cerium-144	6.31E+00	4.08E+00	1.35E+01		4.34E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Cerium-144	-8.26E+00	5.36E+00	1.66E+01		5.69E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cerium-144	1.24E+00	3.72E+00	1.19E+01		3.73E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cerium-144	-1.12E+00	2.72E+00	8.87E+00		2.73E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cerium-144	1.55E+00	3.55E+00	1.15E+01		3.57E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cerium-144	-6.69E+00	4.82E+00	1.45E+01		5.07E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cerium-144	1.08E+00	3.73E+00	1.19E+01		3.74E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cerium-144	-1.00E+01	5.87E+00	1.59E+01		6.32E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cerium-144	6.22E-02	3.09E+00	9.83E+00		3.09E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cesium-134	2.66E-01	6.58E-01	2.16E+00	1.50E+01	6.61E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cesium-134	-4.91E-01	5.32E-01	1.65E+00	1.50E+01	5.44E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cesium-134	6.94E-01	1.04E+00	3.48E+00	1.50E+01	1.05E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cesium-134	4.20E-01	6.42E-01	2.22E+00	1.50E+01	6.50E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cesium-134	1.51E-01	6.78E-01	2.17E+00	1.50E+01	6.79E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cesium-134	9.36E-01	7.40E-01	2.55E+00	1.50E+01	7.72E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cesium-134	4.37E-01	6.03E-01	1.99E+00	1.50E+01	6.12E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cesium-134	2.39E-01	6.80E-01	2.23E+00	1.50E+01	6.82E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cesium-134	-4.57E-02	7.10E-01	2.09E+00	1.50E+01	7.10E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cesium-134	-5.31E-01	6.78E-01	2.12E+00	1.50E+01	6.89E-01	pCi/L	U

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Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Cesium-134	2.46E-01	1.01E+00	3.27E+00	1.50E+01	1.01E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cesium-134	-4.13E-01	7.20E-01	2.06E+00	1.50E+01	7.26E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cesium-134	4.14E-01	5.14E-01	1.72E+00	1.50E+01	5.23E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cesium-134	4.55E-01	6.67E-01	2.20E+00	1.50E+01	6.76E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cesium-134	-1.29E+00	9.16E-01	2.38E+00	1.50E+01	9.64E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cesium-134	4.92E-02	6.09E-01	1.95E+00	1.50E+01	6.09E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cesium-134	7.99E-01	7.15E-01	2.46E+00	1.50E+01	7.39E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cesium-134	-5.09E-01	5.54E-01	1.81E+00	1.50E+01	5.66E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cesium-137	-8.90E-02	1.02E+00	2.21E+00	1.80E+01	1.02E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cesium-137	2.57E-02	4.56E-01	1.49E+00	1.80E+01	4.56E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cesium-137	5.89E-01	9.29E-01	3.15E+00	1.80E+01	9.39E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cesium-137	2.55E-01	6.56E-01	2.13E+00	1.80E+01	6.59E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cesium-137	1.20E-02	5.84E-01	1.89E+00	1.80E+01	5.84E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cesium-137	1.01E-01	7.00E-01	2.35E+00	1.80E+01	7.01E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cesium-137	4.01E-01	5.39E-01	1.80E+00	1.80E+01	5.47E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cesium-137	4.97E-01	6.91E-01	2.32E+00	1.80E+01	7.00E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cesium-137	3.31E-02	5.59E-01	1.90E+00	1.80E+01	5.59E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cesium-137	-7.71E-02	6.33E-01	2.06E+00	1.80E+01	6.33E-01	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Cesium-137	2.54E+00	2.24E+00	2.79E+00	1.80E+01	2.24E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cesium-137	6.80E-01	5.87E-01	2.06E+00	1.80E+01	6.09E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cesium-137	7.47E-01	4.41E-01	1.54E+00	1.80E+01	4.75E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cesium-137	-4.23E-01	5.46E-01	1.72E+00	1.80E+01	5.55E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cesium-137	3.44E-01	9.19E-01	2.40E+00	1.80E+01	9.22E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cesium-137	-1.40E-01	5.52E-01	1.77E+00	1.80E+01	5.53E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cesium-137	6.84E-01	7.07E-01	2.44E+00	1.80E+01	7.25E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cesium-137	4.73E-01	4.70E-01	1.64E+00	1.80E+01	4.83E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Chromium-51	-3.11E+00	5.88E+00	1.93E+01		5.92E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Chromium-51	-3.89E+00	3.98E+00	1.33E+01		4.08E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Chromium-51	9.38E-01	7.49E+00	2.45E+01		7.49E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Chromium-51	-2.44E+00	4.50E+00	1.50E+01		4.53E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Chromium-51	2.50E+00	5.06E+00	1.75E+01		5.10E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Chromium-51	1.83E+01	1.24E+01	1.83E+01		1.24E+01	pCi/L	UI
M-8(513406001) - Milk	11-Jun-20	Chromium-51	8.16E+00	4.22E+00	1.49E+01		4.64E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Chromium-51	-7.27E+00	5.15E+00	1.70E+01		5.43E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Chromium-51	7.42E+00	4.15E+00	1.36E+01		4.50E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Chromium-51	-2.66E+01	9.49E+00	1.68E+01		1.14E+01	pCi/L	U

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## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Chromium-51	1.28E+00	6.72E+00	2.31E+01		6.73E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Chromium-51	-8.09E-01	4.90E+00	1.63E+01		4.91E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Chromium-51	-3.76E+00	3.94E+00	1.20E+01		4.04E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Chromium-51	-5.33E+00	4.56E+00	1.51E+01		4.73E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Chromium-51	1.45E+01	6.36E+00	2.20E+01		7.21E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Chromium-51	9.07E+00	4.30E+00	1.52E+01		4.80E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Chromium-51	1.63E+00	6.34E+00	2.08E+01		6.35E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Chromium-51	3.38E+00	4.22E+00	1.43E+01		4.29E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cobalt-57	4.24E-01	5.55E-01	1.90E+00		5.64E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cobalt-57	3.93E-02	4.05E-01	1.33E+00		4.06E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cobalt-57	-7.31E-01	7.38E-01	2.24E+00		7.58E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cobalt-57	-4.97E-01	5.12E-01	1.62E+00		5.25E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cobalt-57	1.02E-01	4.71E-01	1.44E+00		4.72E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cobalt-57	-1.04E-01	5.57E-01	1.91E+00		5.58E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cobalt-57	-2.73E-01	4.59E-01	1.44E+00		4.63E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cobalt-57	-8.18E-01	6.00E-01	1.88E+00		6.30E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cobalt-57	4.49E-02	3.76E-01	1.18E+00		3.77E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cobalt-57	1.10E+00	6.85E-01	1.81E+00		6.87E-01	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Cobalt-57	-2.45E-01	7.26E-01	2.36E+00		7.28E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cobalt-57	8.34E-01	4.69E-01	1.55E+00		5.07E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cobalt-57	4.52E-01	3.45E-01	1.17E+00		3.60E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cobalt-57	6.13E-01	4.54E-01	1.51E+00		4.76E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cobalt-57	-7.59E-02	6.19E-01	1.93E+00		6.19E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cobalt-57	4.64E-01	4.82E-01	1.56E+00		4.94E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cobalt-57	6.42E-01	6.42E-01	2.23E+00		6.59E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cobalt-57	2.22E-01	3.87E-01	1.25E+00		3.91E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cobalt-58	-1.03E+00	6.43E-01	1.94E+00		6.86E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cobalt-58	1.71E-01	4.70E-01	1.53E+00		4.72E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cobalt-58	3.99E-02	9.40E-01	3.05E+00		9.40E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cobalt-58	-9.79E-01	5.99E-01	1.92E+00		6.41E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cobalt-58	-2.21E-01	6.33E-01	1.98E+00		6.35E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cobalt-58	4.45E-01	6.84E-01	2.31E+00		6.92E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cobalt-58	3.20E-01	5.00E-01	1.65E+00		5.06E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cobalt-58	5.17E-01	5.80E-01	1.95E+00		5.93E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cobalt-58	-6.10E-01	6.79E-01	1.93E+00		6.94E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cobalt-58	-8.76E-01	5.69E-01	1.71E+00		6.06E-01	pCi/L	U

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## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Cobalt-58	-2.69E-02	9.10E-01	2.89E+00		9.10E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cobalt-58	6.08E-01	5.78E-01	2.00E+00		5.95E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cobalt-58	6.73E-01	4.51E-01	1.55E+00		4.78E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cobalt-58	-6.85E-01	5.94E-01	1.81E+00		6.16E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cobalt-58	1.22E+00	8.40E-01	2.58E+00		8.87E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cobalt-58	-5.30E-01	5.92E-01	1.83E+00		6.05E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cobalt-58	4.79E-01	6.55E-01	2.22E+00		6.65E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cobalt-58	-5.53E-01	4.86E-01	1.57E+00		5.03E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Cobalt-60	5.34E-01	7.18E-01	2.50E+00		7.29E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Cobalt-60	-1.78E-03	5.32E-01	1.76E+00		5.32E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Cobalt-60	5.75E-01	1.12E+00	3.78E+00		1.13E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Cobalt-60	-2.77E-01	7.20E-01	2.29E+00		7.23E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Cobalt-60	6.73E-01	6.30E-01	2.16E+00		6.49E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Cobalt-60	-2.18E-01	7.61E-01	2.52E+00		7.63E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Cobalt-60	1.20E+00	5.81E-01	2.11E+00		6.45E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Cobalt-60	3.18E-01	8.61E-01	2.41E+00		8.64E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Cobalt-60	2.90E-01	6.85E-01	2.24E+00		6.88E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Cobalt-60	-9.41E-02	6.19E-01	2.05E+00		6.19E-01	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Cobalt-60	1.70E+00	9.17E-01	3.43E+00		9.99E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Cobalt-60	1.07E+00	7.03E-01	2.26E+00		7.46E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Cobalt-60	-2.56E-01	4.79E-01	1.57E+00		4.83E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Cobalt-60	-1.06E-01	6.78E-01	2.24E+00		6.78E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Cobalt-60	1.34E+00	9.03E-01	3.16E+00		9.56E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Cobalt-60	-1.12E+00	8.17E-01	1.76E+00		8.59E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Cobalt-60	1.13E+00	7.72E-01	2.75E+00		8.16E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Cobalt-60	2.04E-01	5.26E-01	1.80E+00		5.28E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Iodine-131	-1.98E-01	3.45E-01	1.14E+00	1.00E+00	3.48E-01	pCi/L	DLU
M-8(504474001) - Milk	13-Feb-20	Iodine-131	-6.52E-02	1.86E-01	6.05E-01	1.00E+00	1.86E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Iodine-131	-5.45E-01	2.61E-01	8.39E-01	1.00E+00	2.90E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Iodine-131	-7.81E-02	3.10E-01	7.92E-01	1.00E+00	3.11E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Iodine-131	-1.70E-01	2.74E-01	9.17E-01	1.00E+00	2.77E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Iodine-131	1.93E-01	2.08E-01	7.10E-01	1.00E+00	2.13E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Iodine-131	-1.67E-01	1.91E-01	6.18E-01	1.00E+00	1.95E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Iodine-131	-1.86E-03	3.24E-01	1.05E+00	1.00E+00	3.24E-01	pCi/L	DLU
M-8(515468001) - Milk	9-Jul-20	Iodine-131	5.15E-02	2.04E-01	6.68E-01	1.00E+00	2.04E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Iodine-131	5.90E-01	2.52E-01	5.90E-01	1.00E+00	2.53E-01	pCi/L	UI

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## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Iodine-131	-5.39E-01	3.21E-01	9.90E-01	1.00E+00	3.44E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Iodine-131	1.31E-01	2.77E-01	9.51E-01	1.00E+00	2.79E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Iodine-131	1.55E-01	1.44E-01	4.77E-01	1.00E+00	1.48E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Iodine-131	-2.32E-02	1.59E-01	5.25E-01	1.00E+00	1.59E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Iodine-131	5.84E-01	4.08E-01	1.39E+00	1.00E+00	4.30E-01	pCi/L	DLU
M-8(525260001) - Milk	22-Oct-20	Iodine-131	9.52E-02	3.93E-01	1.28E+00	1.00E+00	3.93E-01	pCi/L	DLU
M-8(527408001) - Milk	12-Nov-20	Iodine-131	2.23E-01	2.00E-01	6.77E-01	1.00E+00	2.07E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Iodine-131	-1.70E-01	3.70E-01	1.24E+00	1.00E+00	3.72E-01	pCi/L	DLU
M-8(500790001) - Milk	9-Jan-20	Iron-59	-1.26E-01	1.60E+00	5.07E+00		1.60E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Iron-59	1.28E+00	1.12E+00	3.92E+00		1.16E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Iron-59	-1.83E-01	2.14E+00	7.11E+00		2.14E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Iron-59	5.00E-01	1.35E+00	4.50E+00		1.35E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Iron-59	9.96E-02	1.38E+00	4.59E+00		1.38E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Iron-59	-6.63E-01	1.48E+00	4.66E+00		1.49E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Iron-59	2.90E-01	1.33E+00	4.02E+00		1.34E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Iron-59	-1.42E+00	1.38E+00	4.48E+00		1.42E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Iron-59	-1.80E+00	1.32E+00	4.11E+00		1.38E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Iron-59	-7.19E-01	1.29E+00	4.27E+00		1.30E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Iron-59	2.01E+00	2.39E+00	7.77E+00		2.43E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Iron-59	-2.14E-01	1.34E+00	4.32E+00		1.34E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Iron-59	3.15E-01	1.04E+00	3.35E+00		1.05E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Iron-59	-7.39E-02	1.28E+00	4.32E+00		1.28E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Iron-59	4.61E-01	1.85E+00	6.23E+00		1.86E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Iron-59	1.01E+00	1.21E+00	4.16E+00		1.23E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Iron-59	6.84E-01	1.72E+00	5.63E+00		1.73E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Iron-59	-2.27E-01	1.15E+00	3.70E+00		1.15E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Lanthanum-140	-3.95E-01	9.23E-01	3.02E+00	1.50E+01	9.28E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Lanthanum-140	-2.32E-01	7.00E-01	2.24E+00	1.50E+01	7.02E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Lanthanum-140	2.84E-01	1.11E+00	3.66E+00	1.50E+01	1.11E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Lanthanum-140	-3.58E-01	8.56E-01	2.44E+00	1.50E+01	8.60E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Lanthanum-140	-1.23E+00	1.00E+00	2.95E+00	1.50E+01	1.04E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Lanthanum-140	-1.77E+00	8.24E-01	2.31E+00	1.50E+01	9.22E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Lanthanum-140	-1.04E+00	6.36E-01	1.85E+00	1.50E+01	6.81E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Lanthanum-140	-3.19E-02	7.86E-01	2.26E+00	1.50E+01	7.86E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Lanthanum-140	1.81E-01	7.55E-01	2.56E+00	1.50E+01	7.56E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Lanthanum-140	-9.92E-01	8.12E-01	2.47E+00	1.50E+01	8.45E-01	pCi/L	U

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## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Lanthanum-140	2.00E+00	1.08E+00	3.92E+00	1.50E+01	1.17E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Lanthanum-140	-2.01E+00	8.46E-01	2.43E+00	1.50E+01	9.68E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Lanthanum-140	-1.18E+00	5.97E-01	1.73E+00	1.50E+01	6.57E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Lanthanum-140	-1.26E+00	7.15E-01	2.03E+00	1.50E+01	7.73E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Lanthanum-140	4.21E-01	1.18E+00	3.89E+00	1.50E+01	1.18E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Lanthanum-140	4.99E-01	6.14E-01	2.11E+00	1.50E+01	6.25E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Lanthanum-140	4.86E-01	9.68E-01	3.29E+00	1.50E+01	9.75E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Lanthanum-140	-9.39E-01	6.30E-01	1.94E+00	1.50E+01	6.68E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Manganese-54	-7.21E-01	6.03E-01	1.85E+00		6.26E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Manganese-54	-7.30E-01	5.82E-01	1.56E+00		6.06E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Manganese-54	-5.33E-01	7.97E-01	2.47E+00		8.07E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Manganese-54	-7.41E-02	5.76E-01	1.94E+00		5.77E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Manganese-54	9.79E-01	5.77E-01	2.06E+00		6.20E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Manganese-54	-1.47E+00	6.41E-01	1.91E+00		7.27E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Manganese-54	-6.47E-01	7.63E-01	1.74E+00		7.78E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Manganese-54	2.06E-01	7.37E-01	2.39E+00		7.39E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Manganese-54	5.52E-01	5.39E-01	1.85E+00		5.54E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Manganese-54	1.30E+00	8.09E-01	1.61E+00		8.11E-01	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Manganese-54	-1.22E+00	1.11E+00	3.01E+00		1.14E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Manganese-54	4.45E-01	5.60E-01	1.92E+00		5.70E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Manganese-54	-1.09E+00	4.69E-01	1.39E+00		5.34E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Manganese-54	-4.70E-01	5.85E-01	1.81E+00		5.96E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Manganese-54	-6.92E-01	7.76E-01	2.42E+00		7.93E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Manganese-54	2.79E-01	5.33E-01	1.73E+00		5.37E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Manganese-54	-4.91E-01	6.78E-01	2.17E+00		6.88E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Manganese-54	1.28E-01	4.73E-01	1.59E+00		4.74E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Niobium-95	2.52E-01	6.72E-01	2.20E+00		6.74E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Niobium-95	1.45E+00	7.69E-01	1.45E+00		7.73E-01	pCi/L	UI
M-8(506956001) - Milk	12-Mar-20	Niobium-95	2.53E-01	9.02E-01	2.98E+00		9.04E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Niobium-95	-5.61E-01	5.63E-01	1.85E+00		5.79E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Niobium-95	-9.52E-01	6.24E-01	1.87E+00		6.63E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Niobium-95	7.87E-01	6.69E-01	2.30E+00		6.94E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Niobium-95	4.34E-01	5.72E-01	1.71E+00		5.81E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Niobium-95	5.98E-01	6.45E-01	2.16E+00		6.60E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Niobium-95	1.39E-01	5.75E-01	1.94E+00		5.76E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Niobium-95	-4.27E-01	6.30E-01	1.99E+00		6.38E-01	pCi/L	U



M-8

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Niobium-95	-5.33E-01	8.93E-01	2.40E+00		9.02E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Niobium-95	5.69E-01	5.95E-01	2.06E+00		6.10E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Niobium-95	3.25E-02	4.79E-01	1.57E+00		4.79E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Niobium-95	-1.25E-01	5.27E-01	1.68E+00		5.28E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Niobium-95	6.86E-01	7.51E-01	2.53E+00		7.68E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Niobium-95	-1.13E+00	8.59E-01	1.70E+00		8.98E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Niobium-95	8.15E-01	1.33E+00	2.22E+00		1.33E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Niobium-95	-5.26E-01	5.85E-01	1.67E+00		5.98E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Potassium-40	1.36E+03	3.32E+01	1.81E+01		7.60E+01	pCi/L	
M-8(504474001) - Milk	13-Feb-20	Potassium-40	1.50E+03	2.91E+01	1.30E+01		8.10E+01	pCi/L	
M-8(506956001) - Milk	12-Mar-20	Potassium-40	1.40E+03	4.69E+01	2.75E+01		8.53E+01	pCi/L	
M-8(509221001) - Milk	9-Apr-20	Potassium-40	1.42E+03	3.49E+01	1.96E+01		8.48E+01	pCi/L	
M-8(511558001) - Milk	14-May-20	Potassium-40	1.42E+03	3.22E+01	1.81E+01		7.75E+01	pCi/L	
M-8(512280001) - Milk	28-May-20	Potassium-40	1.44E+03	3.62E+01	2.30E+01		7.56E+01	pCi/L	
M-8(513406001) - Milk	11-Jun-20	Potassium-40	1.47E+03	3.08E+01	1.56E+01		7.79E+01	pCi/L	
M-8(514579001) - Milk	25-Jun-20	Potassium-40	1.44E+03	3.95E+01	1.97E+01		9.06E+01	pCi/L	
M-8(515468001) - Milk	9-Jul-20	Potassium-40	1.40E+03	3.01E+01	1.67E+01		6.98E+01	pCi/L	
M-8(516615001) - Milk	23-Jul-20	Potassium-40	1.51E+03	3.50E+01	1.72E+01		9.25E+01	pCi/L	
M-8(518705001) - Milk	13-Aug-20	Potassium-40	1.47E+03	5.28E+01	2.93E+01		8.43E+01	pCi/L	
M-8(519939001) - Milk	27-Aug-20	Potassium-40	1.46E+03	3.28E+01	1.79E+01		7.41E+01	pCi/L	
M-8(521167001) - Milk	10-Sep-20	Potassium-40	1.40E+03	2.81E+01	1.28E+01		6.66E+01	pCi/L	
M-8(522409001) - Milk	24-Sep-20	Potassium-40	1.44E+03	3.38E+01	1.82E+01		7.47E+01	pCi/L	
M-8(523908001) - Milk	8-Oct-20	Potassium-40	1.57E+03	4.05E+01	2.51E+01		8.68E+01	pCi/L	
M-8(525260001) - Milk	22-Oct-20	Potassium-40	1.46E+03	3.10E+01	1.48E+01		8.40E+01	pCi/L	
M-8(527408001) - Milk	12-Nov-20	Potassium-40	1.44E+03	3.57E+01	2.02E+01		7.76E+01	pCi/L	
M-8(529865001) - Milk	10-Dec-20	Potassium-40	1.46E+03	2.84E+01	1.51E+01		7.71E+01	pCi/L	
M-8(500790001) - Milk	9-Jan-20	Ruthenium-103	-7.43E-01	6.59E-01	2.09E+00		6.81E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Ruthenium-103	-7.40E-01	5.39E-01	1.53E+00		5.66E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Ruthenium-103	-1.92E-01	8.51E-01	2.85E+00		8.53E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Ruthenium-103	6.87E-02	5.95E-01	1.75E+00		5.95E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Ruthenium-103	-1.62E-01	6.39E-01	1.87E+00		6.40E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Ruthenium-103	-4.49E-01	6.88E-01	2.13E+00		6.96E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Ruthenium-103	-5.02E-01	5.03E-01	1.42E+00		5.17E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Ruthenium-103	-9.35E-01	5.87E-01	1.85E+00		6.26E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Ruthenium-103	-1.95E-01	5.87E-01	1.66E+00		5.89E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Ruthenium-103	2.64E-01	5.78E-01	1.95E+00		5.82E-01	pCi/L	U

M-8  
Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Ruthenium-103	-1.66E+00	9.15E-01	2.79E+00		9.94E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Ruthenium-103	-1.65E-01	5.63E-01	1.80E+00		5.65E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Ruthenium-103	-3.91E-01	4.19E-01	1.37E+00		4.29E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Ruthenium-103	1.37E-01	5.36E-01	1.79E+00		5.37E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Ruthenium-103	2.49E-01	7.01E-01	2.39E+00		7.03E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Ruthenium-103	-7.76E-01	5.21E-01	1.64E+00		5.52E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Ruthenium-103	-8.69E-01	7.54E-01	2.30E+00		7.81E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Ruthenium-103	-3.78E-01	4.90E-01	1.55E+00		4.98E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Ruthenium-106	-2.69E+00	5.47E+00	1.75E+01		5.50E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Ruthenium-106	-5.79E+00	4.10E+00	1.28E+01		4.32E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Ruthenium-106	-8.99E+00	7.15E+00	2.23E+01		7.45E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Ruthenium-106	-9.57E+00	6.21E+00	1.65E+01		6.60E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Ruthenium-106	-1.88E+00	4.94E+00	1.58E+01		4.96E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Ruthenium-106	9.90E+00	5.41E+00	1.92E+01		5.89E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Ruthenium-106	2.02E-01	4.27E+00	1.40E+01		4.27E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Ruthenium-106	-1.55E+01	6.34E+00	1.78E+01		7.31E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Ruthenium-106	9.05E+00	4.65E+00	1.66E+01		5.12E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Ruthenium-106	4.47E+00	5.21E+00	1.76E+01		5.31E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Ruthenium-106	-7.51E+00	7.96E+00	2.46E+01		8.16E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Ruthenium-106	4.68E-01	5.37E+00	1.71E+01		5.37E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Ruthenium-106	-1.24E-01	3.75E+00	1.24E+01		3.75E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Ruthenium-106	-7.24E+00	5.27E+00	1.64E+01		5.54E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Ruthenium-106	-2.26E+00	6.60E+00	2.16E+01		6.62E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Ruthenium-106	-7.53E+00	4.62E+00	1.42E+01		4.95E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Ruthenium-106	-1.17E+00	5.99E+00	2.00E+01		6.00E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Ruthenium-106	5.55E+00	4.45E+00	1.46E+01		4.64E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Selenium-75	-4.16E-01	7.94E-01	2.62E+00		8.00E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Selenium-75	8.66E-02	6.42E-01	2.02E+00		6.43E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Selenium-75	1.17E+00	1.12E+00	3.82E+00		1.16E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Selenium-75	-1.46E-01	7.39E-01	2.51E+00		7.40E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Selenium-75	-5.90E-03	7.16E-01	2.24E+00		7.16E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Selenium-75	5.71E-01	8.40E-01	2.81E+00		8.50E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Selenium-75	1.84E-01	6.12E-01	2.10E+00		6.13E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Selenium-75	6.43E-01	8.74E-01	3.05E+00		8.88E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Selenium-75	9.15E-01	6.03E-01	2.07E+00		6.40E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Selenium-75	2.27E-02	8.46E-01	2.63E+00		8.46E-01	pCi/L	U

M-8

Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Selenium-75	-5.07E-01	1.13E+00	3.47E+00		1.14E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Selenium-75	-4.04E-01	6.92E-01	2.31E+00		6.99E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Selenium-75	-6.29E-01	7.17E-01	1.76E+00		7.32E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Selenium-75	-1.43E+00	6.68E-01	2.19E+00		7.47E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Selenium-75	8.32E-01	9.71E-01	2.95E+00		9.90E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Selenium-75	6.33E-01	6.61E-01	2.29E+00		6.77E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Selenium-75	1.77E-02	9.08E-01	3.00E+00		9.08E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Selenium-75	7.19E-01	6.19E-01	2.13E+00		6.41E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Silver-108m	5.56E-01	5.12E-01	1.74E+00		5.29E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Silver-108m	-5.12E-01	3.77E-01	1.22E+00		3.95E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Silver-108m	-1.10E+00	7.80E-01	2.33E+00		8.21E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Silver-108m	2.84E-01	4.83E-01	1.62E+00		4.87E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Silver-108m	-9.42E-01	4.86E-01	1.45E+00		5.34E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Silver-108m	1.38E-01	5.57E-01	1.80E+00		5.58E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Silver-108m	-5.12E-01	4.14E-01	1.33E+00		4.31E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Silver-108m	2.21E-01	5.66E-01	1.92E+00		5.68E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Silver-108m	-4.00E-01	4.18E-01	1.32E+00		4.28E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Silver-108m	-3.41E-01	5.15E-01	1.70E+00		5.21E-01	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Silver-108m	-5.91E-03	6.51E-01	2.18E+00		6.51E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Silver-108m	-6.32E-01	4.95E-01	1.56E+00		5.17E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Silver-108m	-2.87E-01	3.68E-01	1.22E+00		3.74E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Silver-108m	4.15E-01	4.53E-01	1.56E+00		4.64E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Silver-108m	3.00E-02	6.21E-01	1.97E+00		6.21E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Silver-108m	-2.04E-01	4.45E-01	1.46E+00		4.48E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Silver-108m	-7.23E-01	5.88E-01	1.81E+00		6.12E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Silver-108m	-2.42E-01	3.98E-01	1.28E+00		4.02E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Silver-110m	8.87E-01	8.30E-01	2.78E+00		8.56E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Silver-110m	4.85E-01	6.38E-01	2.09E+00		6.48E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Silver-110m	-1.12E+00	1.34E+00	4.13E+00		1.37E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Silver-110m	-1.67E-01	8.01E-01	2.67E+00		8.02E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Silver-110m	8.57E-01	7.73E-01	2.72E+00		7.99E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Silver-110m	-5.42E-01	8.65E-01	2.76E+00		8.75E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Silver-110m	1.64E-01	7.19E-01	2.32E+00		7.20E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Silver-110m	9.33E-01	8.77E-01	2.95E+00		9.04E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Silver-110m	9.03E-01	8.00E-01	2.75E+00		8.27E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Silver-110m	5.55E-01	8.75E-01	2.87E+00		8.85E-01	pCi/L	U

M-8  
Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Silver-110m	-2.31E+00	1.07E+00	3.13E+00		1.20E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Silver-110m	2.80E+00	1.67E+00	2.80E+00		1.83E+00	pCi/L	UI
M-8(521167001) - Milk	10-Sep-20	Silver-110m	-2.96E-01	6.68E-01	2.12E+00		6.71E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Silver-110m	5.02E-01	7.89E-01	2.59E+00		7.97E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Silver-110m	1.49E+00	1.08E+00	3.68E+00		1.14E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Silver-110m	1.37E+00	7.35E-01	2.50E+00		8.02E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Silver-110m	-6.40E-01	8.76E-01	2.78E+00		8.89E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Silver-110m	3.22E-01	6.82E-01	2.29E+00		6.86E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Strontium-89	-1.60E+00	1.45E+00	5.11E+00	1.00E+01	1.54E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Strontium-89	-2.24E-01	5.03E-01	1.73E+00	1.00E+01	7.49E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Strontium-89	-2.77E-01	8.53E-01	2.87E+00	1.00E+01	9.32E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Strontium-89	-7.16E-01	4.59E-01	1.73E+00	1.00E+01	7.75E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Strontium-89	-3.20E-02	7.35E-01	2.42E+00	1.00E+01	8.55E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Strontium-89	-5.19E-01	4.07E-01	1.49E+00	1.00E+01	6.53E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Strontium-89	1.50E+00	7.57E-01	2.17E+00	1.00E+01	9.17E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Strontium-89	-3.20E+00	5.94E-01	2.65E+00	1.00E+01	7.56E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Strontium-89	-2.50E+00	2.36E-01	1.29E+00	1.00E+01	7.11E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Strontium-89	3.64E+00	1.24E+00	3.42E+00	1.00E+01	1.32E+00	pCi/L	M
M-8(518705001) - Milk	13-Aug-20	Strontium-89	1.49E+00	8.64E-01	2.56E+00	1.00E+01	9.84E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Strontium-89	-2.73E+00	7.47E-01	3.17E+00	1.00E+01	8.96E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Strontium-89	1.85E+00	7.76E-01	2.13E+00	1.00E+01	8.54E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Strontium-89	1.33E+00	1.00E+00	3.08E+00	1.00E+01	1.06E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Strontium-89	1.01E+00	6.56E-01	1.86E+00	1.00E+01	7.86E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Strontium-89	1.66E+00	9.59E-01	2.82E+00	1.00E+01	1.09E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Strontium-89	1.32E+00	8.05E-01	2.36E+00	1.00E+01	9.40E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Strontium-89	-4.47E-02	1.03E+00	3.39E+00	1.00E+01	1.13E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Strontium-90	4.11E-01	4.10E-01	1.26E+00	2.00E+00	4.12E-01	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Strontium-90	4.98E-01	4.11E-01	1.65E+00	2.00E+00	5.44E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Strontium-90	-1.17E+00	2.84E-01	1.80E+00	2.00E+00	4.80E-01	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Strontium-90	5.08E-01	3.65E-01	1.68E+00	2.00E+00	5.37E-01	pCi/L	U
M-8(511558001) - Milk	14-May-20	Strontium-90	-1.27E-01	3.39E-01	1.68E+00	2.00E+00	5.00E-01	pCi/L	U
M-8(512280001) - Milk	28-May-20	Strontium-90	3.85E-04	4.11E-01	1.79E+00	2.00E+00	5.43E-01	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Strontium-90	-2.41E-01	3.28E-01	1.62E+00	2.00E+00	4.70E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Strontium-90	9.17E-01	3.95E-01	1.78E+00	2.00E+00	5.83E-01	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Strontium-90	1.17E+00	5.10E-01	1.63E+00	2.00E+00	5.76E-01	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Strontium-90	1.68E+00	2.15E-01	9.74E-01	2.00E+00	3.66E-01	pCi/L	M

M-8

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Strontium-90	-2.37E+00	3.11E-01	1.82E+00	2.00E+00	4.14E-01	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Strontium-90	1.22E+00	3.92E-01	1.81E+00	2.00E+00	6.26E-01	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Strontium-90	-3.55E-02	2.28E-01	1.13E+00	2.00E+00	3.43E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Strontium-90	-5.54E-02	3.11E-01	1.76E+00	2.00E+00	5.32E-01	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Strontium-90	-1.21E+00	3.20E-01	1.79E+00	2.00E+00	4.73E-01	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Strontium-90	-2.97E-02	3.51E-01	1.73E+00	2.00E+00	5.24E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Strontium-90	-3.68E-02	3.39E-01	1.69E+00	2.00E+00	5.09E-01	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Strontium-90	1.03E+00	3.21E-01	1.46E+00	2.00E+00	4.74E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Zinc-65	-1.27E+00	1.71E+00	4.63E+00		1.74E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Zinc-65	4.94E-01	1.18E+00	3.88E+00		1.18E+00	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Zinc-65	7.40E-01	2.35E+00	7.93E+00		2.35E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Zinc-65	-4.38E+00	4.33E+00	4.95E+00		4.45E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Zinc-65	-1.18E+00	1.44E+00	4.63E+00		1.46E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Zinc-65	-1.19E+00	2.02E+00	5.47E+00		2.04E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Zinc-65	6.98E-01	1.41E+00	4.31E+00		1.42E+00	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Zinc-65	1.70E+00	1.57E+00	5.53E+00		1.62E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Zinc-65	1.12E+00	1.39E+00	4.66E+00		1.42E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Zinc-65	8.83E-01	1.42E+00	4.92E+00		1.44E+00	pCi/L	U
M-8(518705001) - Milk	13-Aug-20	Zinc-65	-1.76E+00	2.28E+00	7.27E+00		2.31E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Zinc-65	-1.25E-01	1.58E+00	5.12E+00		1.58E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Zinc-65	5.87E-01	1.08E+00	3.50E+00		1.09E+00	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Zinc-65	1.09E+00	1.38E+00	4.77E+00		1.40E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Zinc-65	-1.90E+00	2.37E+00	6.08E+00		2.41E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Zinc-65	-1.36E-01	1.39E+00	4.08E+00		1.39E+00	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Zinc-65	-8.56E-01	2.07E+00	5.80E+00		2.08E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Zinc-65	-4.16E+00	1.29E+00	3.78E+00		1.61E+00	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Zirconium-95	1.04E+00	1.19E+00	3.95E+00		1.21E+00	pCi/L	U
M-8(504474001) - Milk	13-Feb-20	Zirconium-95	7.76E-02	8.57E-01	2.78E+00		8.57E-01	pCi/L	U
M-8(506956001) - Milk	12-Mar-20	Zirconium-95	-3.03E-01	1.60E+00	5.17E+00		1.60E+00	pCi/L	U
M-8(509221001) - Milk	9-Apr-20	Zirconium-95	5.04E-02	1.01E+00	3.45E+00		1.01E+00	pCi/L	U
M-8(511558001) - Milk	14-May-20	Zirconium-95	1.12E+00	1.01E+00	3.36E+00		1.04E+00	pCi/L	U
M-8(512280001) - Milk	28-May-20	Zirconium-95	-3.20E-02	1.20E+00	3.98E+00		1.20E+00	pCi/L	U
M-8(513406001) - Milk	11-Jun-20	Zirconium-95	-1.01E+00	9.23E-01	2.85E+00		9.52E-01	pCi/L	U
M-8(514579001) - Milk	25-Jun-20	Zirconium-95	9.28E-01	1.04E+00	3.49E+00		1.06E+00	pCi/L	U
M-8(515468001) - Milk	9-Jul-20	Zirconium-95	-1.91E+00	1.02E+00	3.24E+00		1.11E+00	pCi/L	U
M-8(516615001) - Milk	23-Jul-20	Zirconium-95	2.19E+00	1.11E+00	3.84E+00		1.22E+00	pCi/L	U

M-8

Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8(518705001) - Milk	13-Aug-20	Zirconium-95	5.13E+00	3.01E+00	5.15E+00		3.24E+00	pCi/L	U
M-8(519939001) - Milk	27-Aug-20	Zirconium-95	-4.96E-01	1.02E+00	3.36E+00		1.02E+00	pCi/L	U
M-8(521167001) - Milk	10-Sep-20	Zirconium-95	2.75E-01	8.23E-01	2.72E+00		8.26E-01	pCi/L	U
M-8(522409001) - Milk	24-Sep-20	Zirconium-95	-1.02E+00	1.02E+00	3.14E+00		1.04E+00	pCi/L	U
M-8(523908001) - Milk	8-Oct-20	Zirconium-95	1.70E+00	1.29E+00	4.44E+00		1.35E+00	pCi/L	U
M-8(525260001) - Milk	22-Oct-20	Zirconium-95	7.34E-01	8.61E-01	2.85E+00		8.78E-01	pCi/L	U
M-8(527408001) - Milk	12-Nov-20	Zirconium-95	-2.73E+00	1.24E+00	3.76E+00		1.39E+00	pCi/L	U
M-8(529865001) - Milk	10-Dec-20	Zirconium-95	6.23E-01	9.26E-01	2.81E+00		9.37E-01	pCi/L	U
M-8(500790001) - Milk	9-Jan-20	Strontium Carrier	2.60E+00					mg	
M-8(500790001) - Milk	9-Jan-20	Strontium Carrier	3.10E+00					mg	

M-8QC

Milk

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(500790002) - Milk	9-Jan-20	Actinium-228	4.00E+00	5.26E+00	9.34E+00		5.34E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Actinium-228	-6.43E+00	3.46E+00	7.10E+00		3.77E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Actinium-228	3.91E-01	5.24E+00	1.56E+01		5.25E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Actinium-228	4.22E+00	5.75E+00	1.01E+01		5.83E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Actinium-228	4.87E+00	2.40E+00	8.21E+00		2.66E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Actinium-228	1.31E+00	4.31E+00	7.48E+00		4.31E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Actinium-228	-1.63E+00	2.68E+00	7.83E+00		2.71E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Actinium-228	-5.13E+00	4.45E+00	9.92E+00		4.61E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Actinium-228	4.63E+00	5.99E+00	7.94E+00		6.09E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Actinium-228	-2.66E+00	3.44E+00	9.47E+00		3.50E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Actinium-228	1.18E+00	5.15E+00	1.37E+01		5.16E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Actinium-228	-2.62E+00	3.23E+00	8.01E+00		3.29E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Actinium-228	5.84E+00	2.42E+00	8.48E+00		2.78E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Actinium-228	1.74E-01	4.43E+00	9.74E+00		4.43E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Actinium-228	-7.91E-01	2.86E+00	6.86E+00		2.87E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Actinium-228	6.14E+00	2.65E+00	9.19E+00		3.01E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Actinium-228	-7.38E+00	3.42E+00	8.62E+00		3.84E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Actinium-228	-6.33E+00	3.16E+00	6.98E+00		3.50E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Antimony-124	3.90E+00	1.25E+00	4.85E+00		1.55E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Antimony-124	-9.86E-01	9.20E-01	2.88E+00		9.48E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Antimony-124	-6.62E-01	2.64E+00	7.34E+00		2.64E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Antimony-124	-1.02E+00	1.26E+00	4.01E+00		1.28E+00	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Antimony-124	-2.14E+00	1.15E+00	3.28E+00		1.26E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Antimony-124	-2.28E+00	1.17E+00	3.25E+00		1.29E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Antimony-124	-1.22E+00	1.01E+00	3.17E+00		1.05E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Antimony-124	6.80E-01	1.30E+00	4.52E+00		1.31E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Antimony-124	1.03E+00	1.27E+00	3.86E+00		1.29E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Antimony-124	-1.50E+00	1.39E+00	3.70E+00		1.44E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Antimony-124	2.20E+00	1.78E+00	6.65E+00		1.85E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Antimony-124	-2.76E+00	1.31E+00	3.61E+00		1.46E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Antimony-124	-1.85E+00	1.39E+00	4.17E+00		1.46E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Antimony-124	-3.24E-01	1.28E+00	4.09E+00		1.28E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Antimony-124	-2.19E-01	1.04E+00	3.31E+00		1.04E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Antimony-124	1.75E+00	1.43E+00	4.58E+00		1.49E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Antimony-124	7.14E-01	1.15E+00	3.90E+00		1.16E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Antimony-124	1.14E+00	9.05E-01	3.18E+00		9.43E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Antimony-125	-6.51E-01	1.51E+00	4.81E+00		1.52E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Antimony-125	-1.15E-01	1.26E+00	4.24E+00		1.26E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Antimony-125	-6.20E-01	2.71E+00	8.86E+00		2.71E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Antimony-125	-1.67E-01	1.59E+00	5.04E+00		1.59E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Antimony-125	2.90E+00	1.80E+00	4.42E+00		1.92E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Antimony-125	1.99E+00	1.37E+00	4.77E+00		1.45E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Antimony-125	-2.46E+00	1.29E+00	4.07E+00		1.41E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Antimony-125	-9.85E-01	1.51E+00	4.94E+00		1.52E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Antimony-125	-7.33E-02	1.34E+00	4.48E+00		1.34E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Antimony-125	-6.57E-01	1.37E+00	4.51E+00		1.38E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Antimony-125	6.53E-01	2.32E+00	7.83E+00		2.32E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Antimony-125	2.38E+00	1.43E+00	5.05E+00		1.54E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Antimony-125	-1.37E+00	1.59E+00	5.21E+00		1.62E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Antimony-125	2.35E+00	1.67E+00	5.58E+00		1.76E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Antimony-125	2.00E+00	1.04E+00	3.63E+00		1.14E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Antimony-125	-5.17E+00	2.76E+00	5.20E+00		3.01E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Antimony-125	4.48E-01	1.74E+00	5.85E+00		1.74E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Antimony-125	-2.15E-01	1.15E+00	3.86E+00		1.16E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Barium-140	5.83E-01	3.32E+00	1.06E+01	1.50E+01	3.32E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Barium-140	1.76E+00	2.20E+00	7.53E+00	1.50E+01	2.24E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Barium-140	-6.41E+00	4.72E+00	1.46E+01	1.50E+01	4.95E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Barium-140	4.82E+00	2.28E+00	8.11E+00	1.50E+01	2.55E+00	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Barium-140	-1.70E+00	2.67E+00	8.62E+00	1.50E+01	2.70E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Barium-140	1.59E+00	2.32E+00	7.81E+00	1.50E+01	2.35E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Barium-140	8.96E-01	2.23E+00	7.35E+00	1.50E+01	2.24E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Barium-140	2.29E+00	3.04E+00	7.62E+00	1.50E+01	3.09E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Barium-140	1.39E+00	2.27E+00	7.63E+00	1.50E+01	2.29E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Barium-140	2.83E+00	2.28E+00	7.78E+00	1.50E+01	2.37E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Barium-140	-3.51E-01	3.59E+00	1.17E+01	1.50E+01	3.59E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Barium-140	-1.24E+00	2.43E+00	7.89E+00	1.50E+01	2.45E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Barium-140	2.62E+00	2.58E+00	8.81E+00	1.50E+01	2.65E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Barium-140	3.10E+00	2.54E+00	8.43E+00	1.50E+01	2.64E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Barium-140	1.08E-01	2.25E+00	7.41E+00	1.50E+01	2.25E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Barium-140	2.02E+00	2.67E+00	9.15E+00	1.50E+01	2.71E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Barium-140	2.08E+00	2.89E+00	9.75E+00	1.50E+01	2.93E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Barium-140	3.65E-02	1.92E+00	6.38E+00	1.50E+01	1.92E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Beryllium-7	1.79E+00	5.04E+00	1.63E+01		5.06E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Beryllium-7	-1.65E+00	4.02E+00	1.34E+01		4.04E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Beryllium-7	9.96E-01	8.46E+00	2.78E+01		8.46E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Beryllium-7	-4.55E-01	4.77E+00	1.42E+01		4.77E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Beryllium-7	4.73E+00	4.25E+00	1.46E+01		4.39E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Beryllium-7	3.40E-02	4.26E+00	1.41E+01		4.26E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Beryllium-7	-2.14E+00	4.11E+00	1.33E+01		4.14E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Beryllium-7	2.68E+00	4.70E+00	1.59E+01		4.74E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Beryllium-7	-6.00E+00	4.13E+00	1.33E+01		4.36E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Beryllium-7	1.28E+00	4.20E+00	1.41E+01		4.21E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Beryllium-7	-8.01E-01	6.86E+00	2.26E+01		6.86E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Beryllium-7	1.13E+00	6.99E+00	1.62E+01		6.99E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Beryllium-7	5.57E+00	6.85E+00	1.58E+01		6.86E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Beryllium-7	9.51E+00	5.39E+00	1.81E+01		5.83E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Beryllium-7	1.87E-01	3.35E+00	1.11E+01		3.35E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Beryllium-7	-4.58E+00	4.55E+00	1.50E+01		4.67E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Beryllium-7	4.18E+00	5.18E+00	1.77E+01		5.28E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Beryllium-7	-1.63E+00	3.57E+00	1.18E+01		3.59E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cerium-141	-1.64E-01	1.11E+00	3.39E+00		1.11E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cerium-141	1.22E-01	1.49E+00	2.72E+00		1.49E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cerium-141	4.94E-01	2.27E+00	6.08E+00		2.27E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cerium-141	-1.93E-01	9.82E-01	3.02E+00		9.83E-01	pCi/L	U



## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Cerium-141	-1.68E+00	1.30E+00	2.99E+00		1.36E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cerium-141	-4.09E+00	1.27E+00	2.87E+00		1.59E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cerium-141	-2.88E+00	8.94E-01	2.69E+00		1.12E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cerium-141	1.31E+00	1.69E+00	2.89E+00		1.69E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cerium-141	2.17E-01	1.67E+00	2.81E+00		1.67E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cerium-141	-3.34E+00	1.37E+00	2.91E+00		1.58E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cerium-141	3.44E+00	2.72E+00	4.90E+00		2.73E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cerium-141	-6.11E-01	9.83E-01	3.13E+00		9.93E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cerium-141	-5.01E-01	1.08E+00	3.43E+00		1.09E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cerium-141	-2.01E-01	1.76E+00	3.66E+00		1.76E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cerium-141	-1.55E+00	7.16E-01	2.25E+00		8.02E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cerium-141	2.08E+00	9.14E-01	3.24E+00		1.04E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cerium-141	1.99E+00	1.93E+00	3.21E+00		1.93E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cerium-141	2.33E+00	1.95E+00	2.33E+00		1.97E+00	pCi/L	UI
M-8QC(500790002) - Milk	9-Jan-20	Cerium-144	5.41E-01	3.61E+00	1.24E+01		3.61E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cerium-144	1.14E+00	3.37E+00	1.09E+01		3.38E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cerium-144	6.34E+00	8.48E+00	2.36E+01		8.61E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cerium-144	5.83E-01	4.34E+00	1.25E+01		4.35E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Cerium-144	2.08E+00	3.31E+00	1.07E+01		3.34E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cerium-144	-2.93E+00	3.80E+00	1.19E+01		3.86E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cerium-144	1.56E-01	3.49E+00	1.12E+01		3.49E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cerium-144	-4.98E+00	3.57E+00	1.13E+01		3.76E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cerium-144	3.37E+00	3.71E+00	1.21E+01		3.79E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cerium-144	2.57E-01	3.41E+00	1.12E+01		3.41E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cerium-144	-2.12E+00	5.78E+00	1.81E+01		5.80E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cerium-144	-3.49E+00	3.68E+00	1.17E+01		3.77E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cerium-144	-2.36E+00	4.21E+00	1.34E+01		4.25E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cerium-144	-4.13E+00	4.12E+00	1.34E+01		4.23E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cerium-144	-4.72E-01	2.66E+00	8.66E+00		2.66E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cerium-144	-1.02E+00	3.96E+00	1.23E+01		3.97E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cerium-144	9.07E-01	3.91E+00	1.29E+01		3.92E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cerium-144	4.01E-01	2.98E+00	9.71E+00		2.98E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cesium-134	2.91E-01	5.98E-01	2.02E+00	1.50E+01	6.02E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cesium-134	2.04E-01	4.93E-01	1.63E+00	1.50E+01	4.95E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cesium-134	2.74E+00	1.17E+00	3.90E+00	1.50E+01	1.33E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cesium-134	-5.47E-01	7.22E-01	2.28E+00	1.50E+01	7.33E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Cesium-134	1.49E-01	8.23E-01	1.80E+00	1.50E+01	8.24E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cesium-134	3.01E-01	6.40E-01	2.10E+00	1.50E+01	6.43E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cesium-134	-1.85E-01	5.69E-01	1.92E+00	1.50E+01	5.71E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cesium-134	1.06E+00	7.02E-01	2.38E+00	1.50E+01	7.44E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cesium-134	1.02E+00	5.83E-01	1.91E+00	1.50E+01	6.30E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cesium-134	7.78E-01	9.24E-01	2.27E+00	1.50E+01	9.42E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cesium-134	5.22E-02	9.10E-01	2.94E+00	1.50E+01	9.10E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cesium-134	-7.66E-02	6.58E-01	2.11E+00	1.50E+01	6.58E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cesium-134	-1.58E-01	7.00E-01	2.24E+00	1.50E+01	7.01E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cesium-134	4.54E-01	8.00E-01	2.55E+00	1.50E+01	8.07E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cesium-134	-9.57E-01	7.47E-01	1.51E+00	1.50E+01	7.80E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cesium-134	-4.91E-01	7.01E-01	2.22E+00	1.50E+01	7.11E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cesium-134	-3.84E-01	7.56E-01	2.35E+00	1.50E+01	7.62E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cesium-134	5.53E-02	4.61E-01	1.49E+00	1.50E+01	4.61E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cesium-137	5.01E-01	5.65E-01	1.95E+00	1.80E+01	5.77E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cesium-137	1.01E-01	4.74E-01	1.58E+00	1.80E+01	4.74E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cesium-137	7.73E-02	1.19E+00	3.46E+00	1.80E+01	1.19E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cesium-137	9.10E-02	6.49E-01	2.15E+00	1.80E+01	6.49E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Cesium-137	-2.46E-01	5.08E-01	1.63E+00	1.80E+01	5.11E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cesium-137	-3.84E-01	7.02E-01	1.98E+00	1.80E+01	7.07E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cesium-137	-4.39E-01	6.59E-01	1.71E+00	1.80E+01	6.67E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cesium-137	3.22E-01	6.81E-01	2.24E+00	1.80E+01	6.85E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cesium-137	7.27E-01	5.27E-01	1.79E+00	1.80E+01	5.54E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cesium-137	-7.50E-01	6.57E-01	1.78E+00	1.80E+01	6.80E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cesium-137	-6.62E-01	1.12E+00	2.73E+00	1.80E+01	1.13E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cesium-137	1.78E-01	5.77E-01	1.90E+00	1.80E+01	5.78E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cesium-137	-1.00E-01	5.86E-01	1.90E+00	1.80E+01	5.86E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cesium-137	1.17E+00	1.13E+00	2.37E+00	1.80E+01	1.13E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cesium-137	-1.48E+00	1.10E+00	1.76E+00	1.80E+01	1.15E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cesium-137	1.11E+00	6.45E-01	2.24E+00	1.80E+01	6.95E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cesium-137	-1.53E-01	6.68E-01	2.14E+00	1.80E+01	6.69E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cesium-137	4.32E-01	4.80E-01	1.61E+00	1.80E+01	4.91E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Chromium-51	-8.11E+00	5.55E+00	1.76E+01		5.87E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Chromium-51	1.66E+00	4.69E+00	1.46E+01		4.71E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Chromium-51	8.62E+00	9.85E+00	2.93E+01		9.85E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Chromium-51	2.19E+00	5.04E+00	1.66E+01		5.06E+00	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Chromium-51	1.06E+01	4.76E+00	1.69E+01		5.37E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Chromium-51	-4.41E+00	4.72E+00	1.56E+01		4.84E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Chromium-51	4.34E-01	4.36E+00	1.48E+01		4.36E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Chromium-51	-3.50E+00	4.29E+00	1.43E+01		4.37E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Chromium-51	4.71E+00	4.56E+00	1.58E+01		4.70E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Chromium-51	-6.48E+00	4.36E+00	1.44E+01		4.61E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Chromium-51	5.94E+00	7.27E+00	2.54E+01		7.41E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Chromium-51	-4.11E+00	4.55E+00	1.52E+01		4.65E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Chromium-51	9.04E+00	5.20E+00	1.84E+01		5.63E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Chromium-51	-5.16E+00	5.46E+00	1.73E+01		5.59E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Chromium-51	-1.17E+00	3.71E+00	1.26E+01		3.73E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Chromium-51	6.27E+00	5.26E+00	1.76E+01		5.46E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Chromium-51	2.52E+00	5.58E+00	1.85E+01		5.62E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Chromium-51	-7.35E+00	5.94E+00	1.36E+01		6.19E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cobalt-57	-5.10E-01	4.96E-01	1.68E+00		5.11E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cobalt-57	3.85E-02	4.36E-01	1.41E+00		4.36E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cobalt-57	-5.10E-01	8.99E-01	2.97E+00		9.06E-01	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cobalt-57	5.38E-01	5.11E-01	1.63E+00		5.26E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Cobalt-57	7.30E-01	4.34E-01	1.44E+00		4.66E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cobalt-57	7.08E-01	4.97E-01	1.63E+00		5.24E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cobalt-57	6.67E-03	4.50E-01	1.45E+00		4.50E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cobalt-57	-1.15E-01	4.78E-01	1.57E+00		4.79E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cobalt-57	9.75E-02	4.75E-01	1.54E+00		4.76E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cobalt-57	2.53E-01	4.57E-01	1.52E+00		4.60E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cobalt-57	1.30E-01	7.71E-01	2.47E+00		7.72E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cobalt-57	3.73E-01	4.71E-01	1.56E+00		4.79E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cobalt-57	-3.62E-01	5.55E-01	1.77E+00		5.61E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cobalt-57	-1.26E+00	5.69E-01	1.82E+00		6.41E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cobalt-57	-2.32E-03	3.41E-01	1.12E+00		3.41E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cobalt-57	6.41E-02	5.26E-01	1.65E+00		5.26E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cobalt-57	-1.46E-01	5.04E-01	1.64E+00		5.05E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cobalt-57	-1.46E-01	4.83E-01	1.32E+00		4.85E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cobalt-58	4.54E-01	5.74E-01	1.95E+00		5.84E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cobalt-58	4.16E-01	7.27E-01	1.32E+00		7.27E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cobalt-58	8.33E-01	1.10E+00	3.48E+00		1.11E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cobalt-58	1.15E+00	6.35E-01	2.19E+00		6.90E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Cobalt-58	8.51E-02	5.18E-01	1.68E+00		5.18E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cobalt-58	4.85E-01	5.78E-01	1.92E+00		5.89E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cobalt-58	4.03E-01	5.74E-01	1.77E+00		5.82E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cobalt-58	-3.38E-01	6.29E-01	1.95E+00		6.34E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cobalt-58	-1.44E+00	7.17E-01	1.68E+00		7.93E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cobalt-58	-6.87E-02	6.09E-01	1.92E+00		6.09E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cobalt-58	-1.71E+00	8.74E-01	2.38E+00		9.61E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cobalt-58	1.89E-01	5.86E-01	1.91E+00		5.88E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cobalt-58	-1.68E-01	6.16E-01	1.96E+00		6.17E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cobalt-58	-2.71E-01	7.02E-01	2.04E+00		7.05E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cobalt-58	2.38E-01	4.36E-01	1.41E+00		4.39E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cobalt-58	-1.55E-01	6.54E-01	2.10E+00		6.55E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cobalt-58	9.31E-01	6.92E-01	2.33E+00		7.25E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cobalt-58	-3.85E-01	4.93E-01	1.54E+00		5.01E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Cobalt-60	2.14E-01	6.66E-01	2.28E+00		6.68E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Cobalt-60	1.62E+00	5.33E-01	1.99E+00		6.54E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Cobalt-60	2.65E-01	1.20E+00	4.01E+00		1.20E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Cobalt-60	-6.72E-01	8.06E-01	2.55E+00		8.21E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Cobalt-60	2.70E-02	6.11E-01	2.04E+00		6.11E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Cobalt-60	-4.82E-01	6.57E-01	2.11E+00		6.66E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Cobalt-60	2.01E-01	6.00E-01	1.98E+00		6.02E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Cobalt-60	-1.45E-02	7.13E-01	2.33E+00		7.13E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Cobalt-60	2.26E-01	5.70E-01	1.93E+00		5.73E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Cobalt-60	1.36E+00	7.23E-01	2.54E+00		7.90E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Cobalt-60	7.47E-01	1.07E+00	3.76E+00		1.09E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Cobalt-60	2.41E-01	6.22E-01	2.11E+00		6.25E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Cobalt-60	7.41E-01	6.73E-01	2.36E+00		6.96E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Cobalt-60	2.14E+00	8.23E-01	2.31E+00		9.63E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Cobalt-60	6.97E-01	4.94E-01	1.70E+00		5.20E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Cobalt-60	-1.16E+00	7.56E-01	2.31E+00		8.03E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Cobalt-60	3.45E-01	6.95E-01	2.34E+00		7.00E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Cobalt-60	-8.03E-01	5.24E-01	1.63E+00		5.57E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Iodine-131	-1.37E-01	5.75E-01	1.19E+00	1.00E+00	5.75E-01	pCi/L	DLU
M-8QC(504474002) - Milk	13-Feb-20	Iodine-131	4.39E-01	1.87E-01	6.52E-01	1.00E+00	2.13E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Iodine-131	2.93E-03	2.06E-01	7.00E-01	1.00E+00	2.06E-01	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Iodine-131	5.11E-02	2.29E-01	7.62E-01	1.00E+00	2.30E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Iodine-131	1.95E-01	2.30E-01	7.95E-01	1.00E+00	2.34E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Iodine-131	-8.51E-02	2.20E-01	7.21E-01	1.00E+00	2.21E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Iodine-131	1.38E-01	2.37E-01	8.09E-01	1.00E+00	2.39E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Iodine-131	-6.64E-02	4.02E-01	1.36E+00	1.00E+00	4.02E-01	pCi/L	DLU
M-8QC(515468002) - Milk	9-Jul-20	Iodine-131	3.99E-01	1.53E-01	5.26E-01	1.00E+00	1.79E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Iodine-131	7.49E-02	1.81E-01	6.19E-01	1.00E+00	1.82E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Iodine-131	1.09E-01	2.79E-01	9.54E-01	1.00E+00	2.80E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Iodine-131	-1.24E-01	2.64E-01	8.47E-01	1.00E+00	2.65E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Iodine-131	1.49E-01	1.51E-01	5.26E-01	1.00E+00	1.55E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Iodine-131	1.47E-02	1.84E-01	6.26E-01	1.00E+00	1.85E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Iodine-131	-2.33E-01	3.72E-01	1.24E+00	1.00E+00	3.76E-01	pCi/L	DLU
M-8QC(525260002) - Milk	22-Oct-20	Iodine-131	-3.32E-01	4.08E-01	1.33E+00	1.00E+00	4.16E-01	pCi/L	DLU
M-8QC(527408002) - Milk	12-Nov-20	Iodine-131	8.03E-02	1.77E-01	6.08E-01	1.00E+00	1.78E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Iodine-131	-1.46E-01	3.73E-01	1.26E+00	1.00E+00	3.74E-01	pCi/L	DLU
M-8QC(500790002) - Milk	9-Jan-20	Iron-59	4.05E-01	1.50E+00	4.90E+00		1.50E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Iron-59	-7.76E-01	1.13E+00	3.52E+00		1.14E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Iron-59	2.14E+00	2.50E+00	8.63E+00		2.55E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Iron-59	1.33E+00	1.71E+00	5.14E+00		1.74E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Iron-59	6.07E-01	1.20E+00	4.13E+00		1.21E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Iron-59	-9.52E-01	1.21E+00	3.97E+00		1.23E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Iron-59	-1.26E+00	1.21E+00	3.86E+00		1.24E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Iron-59	-1.32E+00	1.45E+00	4.64E+00		1.48E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Iron-59	-9.50E-01	1.15E+00	3.78E+00		1.17E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Iron-59	-3.07E+00	1.36E+00	4.15E+00		1.54E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Iron-59	-1.94E+00	2.34E+00	7.58E+00		2.39E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Iron-59	2.52E-01	1.36E+00	4.60E+00		1.36E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Iron-59	1.83E+00	1.38E+00	4.87E+00		1.44E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Iron-59	-1.87E+00	1.81E+00	4.49E+00		1.87E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Iron-59	-1.31E+00	1.04E+00	3.36E+00		1.09E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Iron-59	-2.02E+00	1.52E+00	4.85E+00		1.60E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Iron-59	-2.64E+00	1.62E+00	5.05E+00		1.74E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Iron-59	-9.86E-01	1.05E+00	3.42E+00		1.07E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Lanthanum-140	1.52E+00	1.03E+00	3.68E+00	1.50E+01	1.09E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Lanthanum-140	-2.13E-01	6.44E-01	2.12E+00	1.50E+01	6.46E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Lanthanum-140	2.37E+00	1.20E+00	4.48E+00	1.50E+01	1.32E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Lanthanum-140	-2.73E+00	1.73E+00	2.43E+00	1.50E+01	1.85E+00	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Lanthanum-140	6.32E-01	9.03E-01	3.09E+00	1.50E+01	9.15E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Lanthanum-140	-9.86E-02	6.90E-01	2.25E+00	1.50E+01	6.91E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Lanthanum-140	-1.24E-01	7.41E-01	2.36E+00	1.50E+01	7.42E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Lanthanum-140	-7.58E-01	7.83E-01	1.95E+00	1.50E+01	8.02E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Lanthanum-140	7.12E-01	7.78E-01	2.40E+00	1.50E+01	7.96E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Lanthanum-140	1.29E+00	1.08E+00	2.58E+00	1.50E+01	1.12E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Lanthanum-140	2.72E-01	9.17E-01	3.14E+00	1.50E+01	9.19E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Lanthanum-140	3.60E-01	1.25E+00	2.05E+00	1.50E+01	1.25E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Lanthanum-140	-5.91E-01	7.98E-01	2.50E+00	1.50E+01	8.10E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Lanthanum-140	5.20E-01	7.82E-01	2.65E+00	1.50E+01	7.91E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Lanthanum-140	5.87E-01	8.85E-01	2.19E+00	1.50E+01	8.95E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Lanthanum-140	-2.38E-01	1.09E+00	2.96E+00	1.50E+01	1.09E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Lanthanum-140	3.48E-01	9.61E-01	3.17E+00	1.50E+01	9.64E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Lanthanum-140	-4.28E-01	6.40E-01	2.01E+00	1.50E+01	6.48E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Manganese-54	-3.98E-01	5.96E-01	1.93E+00		6.03E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Manganese-54	-3.77E-01	4.83E-01	1.54E+00		4.91E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Manganese-54	3.72E+00	1.59E+00	3.72E+00		1.84E+00	pCi/L	UI
M-8QC(509221002) - Milk	9-Apr-20	Manganese-54	2.36E-01	6.13E-01	2.01E+00		6.15E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Manganese-54	-4.12E-01	5.09E-01	1.58E+00		5.18E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Manganese-54	-9.17E-02	5.91E-01	1.88E+00		5.92E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Manganese-54	3.93E-01	4.76E-01	1.66E+00		4.85E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Manganese-54	-8.48E-01	5.88E-01	1.89E+00		6.21E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Manganese-54	1.57E-01	5.23E-01	1.70E+00		5.24E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Manganese-54	-9.52E-01	5.81E-01	1.80E+00		6.22E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Manganese-54	4.15E-01	9.75E-01	3.21E+00		9.79E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Manganese-54	-3.66E-01	5.60E-01	1.74E+00		5.66E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Manganese-54	9.12E-01	6.17E-01	2.09E+00		6.53E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Manganese-54	2.28E-01	6.56E-01	2.23E+00		6.59E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Manganese-54	4.17E-01	4.35E-01	1.42E+00		4.46E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Manganese-54	-8.73E-01	6.64E-01	2.05E+00		6.94E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Manganese-54	-7.60E-01	7.29E-01	2.20E+00		7.51E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Manganese-54	2.07E-01	4.60E-01	1.50E+00		4.62E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Niobium-95	9.75E-01	6.26E-01	2.18E+00		6.67E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Niobium-95	1.02E+00	4.99E-01	1.73E+00		5.53E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Niobium-95	6.29E-01	1.13E+00	3.33E+00		1.14E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Niobium-95	4.83E-01	6.14E-01	2.06E+00		6.25E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Niobium-95	-4.18E-01	5.28E-01	1.65E+00		5.37E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Niobium-95	4.38E-01	5.87E-01	1.95E+00		5.96E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Niobium-95	-2.30E-01	5.41E-01	1.69E+00		5.44E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Niobium-95	-2.08E-01	6.45E-01	2.03E+00		6.46E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Niobium-95	-2.18E-01	5.35E-01	1.71E+00		5.38E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Niobium-95	-2.92E-01	5.79E-01	1.81E+00		5.83E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Niobium-95	1.35E+00	9.60E-01	3.21E+00		9.62E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Niobium-95	1.68E+00	5.82E-01	2.09E+00		7.02E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Niobium-95	-1.35E-01	6.00E-01	1.92E+00		6.00E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Niobium-95	-2.72E-01	5.78E-01	1.92E+00		5.81E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Niobium-95	9.57E-01	4.49E-01	1.53E+00		5.02E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Niobium-95	-1.20E-01	6.43E-01	2.08E+00		6.44E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Niobium-95	-4.24E-01	6.84E-01	2.12E+00		6.91E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Niobium-95	-5.06E-02	5.08E-01	1.64E+00		5.08E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Potassium-40	1.47E+03	3.38E+01	1.86E+01		8.63E+01	pCi/L	
M-8QC(504474002) - Milk	13-Feb-20	Potassium-40	1.45E+03	2.87E+01	1.47E+01		7.35E+01	pCi/L	
M-8QC(506956002) - Milk	12-Mar-20	Potassium-40	1.48E+03	4.50E+01	3.99E+01		8.17E+01	pCi/L	
M-8QC(509221002) - Milk	9-Apr-20	Potassium-40	1.45E+03	3.65E+01	2.09E+01		8.21E+01	pCi/L	
M-8QC(511558002) - Milk	14-May-20	Potassium-40	1.41E+03	3.07E+01	1.73E+01		7.68E+01	pCi/L	
M-8QC(512280002) - Milk	28-May-20	Potassium-40	1.44E+03	3.40E+01	1.97E+01		7.78E+01	pCi/L	
M-8QC(513406002) - Milk	11-Jun-20	Potassium-40	1.42E+03	3.14E+01	1.67E+01		7.47E+01	pCi/L	
M-8QC(514579002) - Milk	25-Jun-20	Potassium-40	1.39E+03	3.72E+01	1.86E+01		7.83E+01	pCi/L	
M-8QC(515468002) - Milk	9-Jul-20	Potassium-40	1.43E+03	3.01E+01	1.53E+01		8.66E+01	pCi/L	
M-8QC(516615002) - Milk	23-Jul-20	Potassium-40	1.46E+03	3.43E+01	1.92E+01		8.00E+01	pCi/L	
M-8QC(518705002) - Milk	13-Aug-20	Potassium-40	1.35E+03	5.14E+01	2.25E+01		8.32E+01	pCi/L	
M-8QC(519939002) - Milk	27-Aug-20	Potassium-40	1.44E+03	3.39E+01	1.83E+01		8.58E+01	pCi/L	
M-8QC(521167002) - Milk	10-Sep-20	Potassium-40	1.49E+03	3.54E+01	1.80E+01		9.14E+01	pCi/L	
M-8QC(522409002) - Milk	24-Sep-20	Potassium-40	1.40E+03	3.56E+01	1.76E+01		7.11E+01	pCi/L	
M-8QC(523908002) - Milk	8-Oct-20	Potassium-40	1.46E+03	2.59E+01	1.48E+01		7.16E+01	pCi/L	
M-8QC(525260002) - Milk	22-Oct-20	Potassium-40	1.45E+03	3.64E+01	2.08E+01		7.97E+01	pCi/L	
M-8QC(527408002) - Milk	12-Nov-20	Potassium-40	1.40E+03	3.91E+01	2.56E+01		7.88E+01	pCi/L	
M-8QC(529865002) - Milk	10-Dec-20	Potassium-40	1.46E+03	2.93E+01	1.46E+01		8.50E+01	pCi/L	
M-8QC(500790002) - Milk	9-Jan-20	Ruthenium-103	-4.66E-01	6.63E-01	2.07E+00		6.72E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Ruthenium-103	7.83E-02	4.70E-01	1.58E+00		4.70E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Ruthenium-103	1.44E+00	1.01E+00	2.93E+00		1.01E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Ruthenium-103	-6.45E-01	6.37E-01	1.82E+00		6.54E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Ruthenium-103	-7.05E-01	5.10E-01	1.62E+00		5.36E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Ruthenium-103	-1.21E-01	5.17E-01	1.70E+00		5.18E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Ruthenium-103	-1.44E-02	5.44E-01	1.59E+00		5.44E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Ruthenium-103	3.54E-01	5.97E-01	1.81E+00		6.03E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Ruthenium-103	7.05E-02	5.20E-01	1.73E+00		5.20E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Ruthenium-103	-3.57E-01	5.42E-01	1.76E+00		5.48E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Ruthenium-103	-1.10E+00	8.80E-01	2.73E+00		9.17E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Ruthenium-103	5.95E-01	5.62E-01	1.76E+00		5.79E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Ruthenium-103	-5.98E-01	6.00E-01	1.94E+00		6.16E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Ruthenium-103	-6.20E-03	6.54E-01	1.85E+00		6.54E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Ruthenium-103	2.43E-01	4.68E-01	1.41E+00		4.71E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Ruthenium-103	3.54E-01	6.38E-01	1.94E+00		6.43E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Ruthenium-103	-8.28E-01	6.53E-01	2.07E+00		6.81E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Ruthenium-103	2.71E-01	4.69E-01	1.59E+00		4.73E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Ruthenium-106	-3.61E-01	4.88E+00	1.65E+01		4.88E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Ruthenium-106	3.28E-01	3.89E+00	1.29E+01		3.89E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Ruthenium-106	-9.15E+00	9.16E+00	2.98E+01		9.41E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Ruthenium-106	-2.41E+00	5.35E+00	1.75E+01		5.38E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Ruthenium-106	-7.97E+00	5.51E+00	1.51E+01		5.82E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Ruthenium-106	-3.18E+00	4.78E+00	1.52E+01		4.84E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Ruthenium-106	4.98E+00	4.43E+00	1.48E+01		4.58E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Ruthenium-106	5.24E+00	5.44E+00	1.83E+01		5.57E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Ruthenium-106	-6.00E+00	4.38E+00	1.38E+01		4.60E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Ruthenium-106	9.77E-01	5.09E+00	1.66E+01		5.10E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Ruthenium-106	1.70E+01	7.50E+00	2.77E+01		8.49E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Ruthenium-106	-5.48E+00	5.11E+00	1.61E+01		5.27E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Ruthenium-106	4.02E+00	4.98E+00	1.68E+01		5.07E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Ruthenium-106	-2.15E+00	5.23E+00	1.76E+01		5.26E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Ruthenium-106	-7.45E-01	3.46E+00	1.12E+01		3.46E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Ruthenium-106	-2.49E+00	5.46E+00	1.79E+01		5.49E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Ruthenium-106	7.84E+00	5.82E+00	1.99E+01		6.10E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Ruthenium-106	6.70E+00	4.43E+00	1.38E+01		4.70E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Selenium-75	4.01E-01	7.48E-01	2.51E+00		7.54E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Selenium-75	-5.21E-01	6.97E-01	1.96E+00		7.08E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Selenium-75	5.16E-01	1.39E+00	4.48E+00		1.39E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Selenium-75	4.75E-01	7.78E-01	2.60E+00		7.86E-01	pCi/L	U



## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Selenium-75	6.55E-01	6.35E-01	2.22E+00		6.53E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Selenium-75	-1.55E-01	6.96E-01	2.36E+00		6.97E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Selenium-75	4.03E-01	6.40E-01	2.21E+00		6.47E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Selenium-75	-1.64E-01	7.88E-01	2.45E+00		7.89E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Selenium-75	3.82E-01	6.74E-01	2.34E+00		6.80E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Selenium-75	-4.29E-01	7.03E-01	2.16E+00		7.11E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Selenium-75	-1.51E+00	1.16E+00	3.80E+00		1.22E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Selenium-75	6.84E-02	7.45E-01	2.34E+00		7.46E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Selenium-75	-2.96E-01	7.85E-01	2.68E+00		7.88E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Selenium-75	-1.06E+00	8.24E-01	2.61E+00		8.61E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Selenium-75	-7.90E-01	5.82E-01	1.77E+00		6.11E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Selenium-75	-1.74E+00	8.25E-01	2.28E+00		9.20E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Selenium-75	1.14E+00	8.62E-01	2.80E+00		9.04E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Selenium-75	6.96E-01	6.32E-01	2.03E+00		6.53E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Silver-108m	5.75E-01	5.05E-01	1.68E+00		5.23E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Silver-108m	1.91E-01	3.67E-01	1.26E+00		3.69E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Silver-108m	8.56E-04	1.04E+00	2.97E+00		1.04E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Silver-108m	6.39E-01	5.26E-01	1.73E+00		5.47E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Silver-108m	1.97E-01	4.40E-01	1.49E+00		4.42E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Silver-108m	6.19E-01	4.49E-01	1.56E+00		4.71E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Silver-108m	-3.93E-01	4.16E-01	1.34E+00		4.26E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Silver-108m	8.41E-01	4.95E-01	1.74E+00		5.32E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Silver-108m	-6.36E-02	4.48E-01	1.43E+00		4.48E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Silver-108m	-7.99E-01	4.50E-01	1.42E+00		4.87E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Silver-108m	6.42E-02	7.42E-01	2.48E+00		7.42E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Silver-108m	3.83E-01	4.66E-01	1.60E+00		4.74E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Silver-108m	-1.38E+00	5.08E-01	1.57E+00		6.02E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Silver-108m	6.64E-01	5.30E-01	1.76E+00		5.52E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Silver-108m	-1.36E-01	3.71E-01	1.10E+00		3.73E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Silver-108m	1.16E-01	5.76E-01	1.84E+00		5.76E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Silver-108m	-4.20E-01	5.34E-01	1.74E+00		5.43E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Silver-108m	4.97E-02	3.99E-01	1.34E+00		3.99E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Silver-110m	-7.06E-01	7.34E-01	2.33E+00		7.52E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Silver-110m	-1.04E+00	6.82E-01	2.10E+00		7.25E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Silver-110m	8.25E-01	1.53E+00	5.12E+00		1.54E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Silver-110m	4.83E-02	8.86E-01	2.85E+00		8.86E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Silver-110m	-6.17E-01	7.17E-01	2.20E+00		7.31E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Silver-110m	2.80E-01	7.85E-01	2.55E+00		7.88E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Silver-110m	8.09E-02	6.71E-01	2.27E+00		6.71E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Silver-110m	6.88E-01	8.28E-01	2.89E+00		8.44E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Silver-110m	-5.88E-01	7.16E-01	2.22E+00		7.29E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Silver-110m	-1.75E-01	8.10E-01	2.72E+00		8.11E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Silver-110m	-7.47E-01	1.33E+00	4.06E+00		1.34E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Silver-110m	1.11E+00	7.61E-01	2.59E+00		8.04E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Silver-110m	1.20E-01	8.04E-01	2.59E+00		8.04E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Silver-110m	4.71E-01	8.75E-01	2.99E+00		8.82E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Silver-110m	-6.83E-01	5.66E-01	1.86E+00		5.88E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Silver-110m	-1.84E+00	1.11E+00	2.86E+00		1.19E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Silver-110m	-2.41E+00	8.60E-01	2.55E+00		1.03E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Silver-110m	1.91E-01	6.87E-01	2.21E+00		6.88E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Strontium-89	-4.64E+00	8.87E-01	4.34E+00	1.00E+01	1.06E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Strontium-89	-3.88E+00	7.76E-01	3.22E+00	1.00E+01	8.83E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Strontium-89	-1.95E+00	7.30E-01	2.88E+00	1.00E+01	7.87E-01	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Strontium-89	-1.49E+00	6.63E-01	2.52E+00	1.00E+01	8.62E-01	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Strontium-89	-2.90E+00	2.00E-01	1.48E+00	1.00E+01	6.27E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Strontium-89	6.54E-01	1.28E+00	4.13E+00	1.00E+01	1.36E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Strontium-89	-1.92E-01	4.24E-01	1.45E+00	1.00E+01	6.71E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Strontium-89	-3.97E+00	7.89E-01	3.45E+00	1.00E+01	9.35E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Strontium-89	-1.29E-01	4.77E-01	1.60E+00	1.00E+01	7.64E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Strontium-89	-9.13E-01	4.56E-01	1.74E+00	1.00E+01	5.06E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Strontium-89	7.88E-01	8.26E-01	2.59E+00	1.00E+01	1.01E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Strontium-89	-1.08E+00	1.19E+00	4.13E+00	1.00E+01	1.32E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Strontium-89	-1.10E+00	5.13E-01	2.02E+00	1.00E+01	7.12E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Strontium-89	1.38E+00	1.13E+00	3.50E+00	1.00E+01	1.18E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Strontium-89	-7.28E-01	6.56E-01	2.34E+00	1.00E+01	8.35E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Strontium-89	-4.76E-01	5.61E-01	1.97E+00	1.00E+01	7.06E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Strontium-89	-2.11E+00	3.16E-01	1.71E+00	1.00E+01	5.79E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Strontium-89	2.91E+00	1.37E+00	3.89E+00	1.00E+01	1.52E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Strontium-90	-4.21E-01	3.97E-01	1.42E+00	2.00E+00	3.97E-01	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Strontium-90	-1.09E+00	3.24E-01	1.71E+00	2.00E+00	4.28E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Strontium-90	1.78E-01	2.16E-01	1.01E+00	2.00E+00	3.13E-01	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Strontium-90	1.58E+00	4.20E-01	1.86E+00	2.00E+00	6.36E-01	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Strontium-90	1.62E+00	4.34E-01	1.79E+00	2.00E+00	6.57E-01	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Strontium-90	-3.42E-01	2.86E-01	1.65E+00	2.00E+00	4.82E-01	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Strontium-90	3.04E-01	3.74E-01	1.70E+00	2.00E+00	5.38E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Strontium-90	9.23E-01	3.93E-01	1.75E+00	2.00E+00	5.80E-01	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Strontium-90	5.22E-01	4.62E-01	1.58E+00	2.00E+00	5.15E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Strontium-90	-4.03E-01	1.75E-01	7.93E-01	2.00E+00	2.32E-01	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Strontium-90	1.06E+00	4.45E-01	1.76E+00	2.00E+00	5.99E-01	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Strontium-90	5.87E-02	4.31E-01	1.91E+00	2.00E+00	5.82E-01	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Strontium-90	5.05E-01	3.66E-01	1.75E+00	2.00E+00	5.51E-01	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Strontium-90	-6.03E-02	3.64E-01	1.76E+00	2.00E+00	5.33E-01	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Strontium-90	-5.21E-01	3.19E-01	1.67E+00	2.00E+00	4.69E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Strontium-90	-9.45E-01	3.02E-01	1.70E+00	2.00E+00	4.51E-01	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Strontium-90	1.67E+00	3.44E-01	1.75E+00	2.00E+00	6.50E-01	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Strontium-90	3.88E-01	3.85E-01	1.81E+00	2.00E+00	5.59E-01	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Zinc-65	-1.31E+00	1.57E+00	4.93E+00		1.60E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Zinc-65	5.01E-01	1.32E+00	3.83E+00		1.33E+00	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Zinc-65	-3.42E+00	2.72E+00	8.68E+00		2.83E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Zinc-65	1.74E+00	1.71E+00	5.87E+00		1.76E+00	pCi/L	U
M-8QC(511558002) - Milk	14-May-20	Zinc-65	2.22E+00	1.48E+00	4.70E+00		1.56E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Zinc-65	-1.73E+00	1.38E+00	4.45E+00		1.44E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Zinc-65	2.88E+00	1.63E+00	4.09E+00		1.64E+00	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Zinc-65	-2.15E+00	1.60E+00	5.03E+00		1.68E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Zinc-65	-1.26E+00	1.33E+00	4.04E+00		1.36E+00	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Zinc-65	-3.40E-01	1.44E+00	4.37E+00		1.44E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Zinc-65	1.99E+00	2.16E+00	7.67E+00		2.21E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Zinc-65	-7.18E-01	1.38E+00	4.56E+00		1.39E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Zinc-65	9.16E-01	1.60E+00	4.90E+00		1.61E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Zinc-65	2.38E+00	1.64E+00	5.69E+00		1.73E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Zinc-65	1.29E-01	1.02E+00	3.41E+00		1.02E+00	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Zinc-65	-6.57E-01	1.62E+00	5.32E+00		1.63E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Zinc-65	2.03E+00	1.62E+00	5.66E+00		1.69E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Zinc-65	-1.17E+00	1.15E+00	3.76E+00		1.19E+00	pCi/L	U
M-8QC(500790002) - Milk	9-Jan-20	Zirconium-95	6.54E-01	1.01E+00	3.45E+00		1.03E+00	pCi/L	U
M-8QC(504474002) - Milk	13-Feb-20	Zirconium-95	4.62E-01	7.99E-01	2.67E+00		8.06E-01	pCi/L	U
M-8QC(506956002) - Milk	12-Mar-20	Zirconium-95	1.05E+00	1.93E+00	5.89E+00		1.94E+00	pCi/L	U
M-8QC(509221002) - Milk	9-Apr-20	Zirconium-95	6.03E-01	1.51E+00	3.79E+00		1.52E+00	pCi/L	U

## M-8QC

## Milk - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
M-8QC(511558002) - Milk	14-May-20	Zirconium-95	3.26E+00	1.79E+00	3.26E+00		2.15E+00	pCi/L	U
M-8QC(512280002) - Milk	28-May-20	Zirconium-95	1.16E+00	1.01E+00	3.39E+00		1.04E+00	pCi/L	U
M-8QC(513406002) - Milk	11-Jun-20	Zirconium-95	3.09E-01	9.18E-01	2.95E+00		9.21E-01	pCi/L	U
M-8QC(514579002) - Milk	25-Jun-20	Zirconium-95	7.31E-01	1.03E+00	3.40E+00		1.05E+00	pCi/L	U
M-8QC(515468002) - Milk	9-Jul-20	Zirconium-95	7.72E-01	9.13E-01	3.04E+00		9.31E-01	pCi/L	U
M-8QC(516615002) - Milk	23-Jul-20	Zirconium-95	1.59E+00	1.77E+00	3.82E+00		1.81E+00	pCi/L	U
M-8QC(518705002) - Milk	13-Aug-20	Zirconium-95	2.19E+00	1.56E+00	5.08E+00		1.64E+00	pCi/L	U
M-8QC(519939002) - Milk	27-Aug-20	Zirconium-95	-1.05E+00	1.03E+00	3.18E+00		1.06E+00	pCi/L	U
M-8QC(521167002) - Milk	10-Sep-20	Zirconium-95	1.04E+00	1.05E+00	3.54E+00		1.08E+00	pCi/L	U
M-8QC(522409002) - Milk	24-Sep-20	Zirconium-95	9.00E-01	1.09E+00	3.78E+00		1.11E+00	pCi/L	U
M-8QC(523908002) - Milk	8-Oct-20	Zirconium-95	4.36E-01	7.96E-01	2.60E+00		8.03E-01	pCi/L	U
M-8QC(525260002) - Milk	22-Oct-20	Zirconium-95	-1.29E+00	1.14E+00	3.57E+00		1.18E+00	pCi/L	U
M-8QC(527408002) - Milk	12-Nov-20	Zirconium-95	-3.79E-01	1.14E+00	3.58E+00		1.14E+00	pCi/L	U
M-8QC(529865002) - Milk	10-Dec-20	Zirconium-95	-1.23E+00	8.28E-01	2.53E+00		8.76E-01	pCi/L	U

## S-1

## Sediment

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-1(513061001) - Sediment	27-May-20	Actinium-228	6.51E+02	1.33E+02	1.73E+02		1.37E+02	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Actinium-228	6.56E+02	1.29E+02	1.75E+02		1.33E+02	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Antimony-124	-5.99E+00	2.78E+01	8.55E+01		2.79E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Antimony-124	-7.64E+01	5.26E+01	1.21E+02		5.56E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Antimony-125	-7.25E+00	2.82E+01	9.16E+01		2.83E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Antimony-125	-1.98E+01	4.24E+01	1.40E+02		4.27E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Barium-140	-4.45E+01	1.04E+02	2.90E+02		1.05E+02	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Barium-140	-2.61E+02	2.90E+02	8.90E+02		2.96E+02	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Beryllium-7	1.18E+01	1.22E+02	4.01E+02		1.22E+02	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Beryllium-7	-1.67E+01	1.71E+02	5.75E+02		1.71E+02	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Bismuth-214	5.47E+02	8.00E+01	8.13E+01		8.35E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Bismuth-214	6.97E+02	1.01E+02	1.16E+02		1.06E+02	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Cerium-141	-3.37E+01	2.53E+01	6.95E+01		2.65E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cerium-141	-3.71E+01	3.72E+01	1.12E+02		3.82E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Cerium-144	-4.65E+01	6.54E+01	2.02E+02		6.63E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cerium-144	-1.01E+02	7.92E+01	2.33E+02		8.26E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Cesium-134	2.13E+01	1.64E+01	5.59E+01	1.50E+02	1.71E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cesium-134	2.67E+01	1.99E+01	7.60E+01	1.50E+02	2.09E+01	pCi/kg	U

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Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-1(513061001) - Sediment	27-May-20	Cesium-137	7.31E+01	1.43E+01	3.82E+01	1.80E+02	1.47E+01	pCi/kg	M
S-1(525978001) - Sediment	5-Oct-20	Cesium-137	1.10E+02	2.74E+01	4.91E+01	1.80E+02	2.78E+01	pCi/kg	M
S-1(513061001) - Sediment	27-May-20	Chromium-51	-1.36E+02	1.30E+02	4.15E+02		1.33E+02	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Chromium-51	-1.32E+02	2.36E+02	8.05E+02		2.38E+02	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Cobalt-57	1.20E+00	8.78E+00	2.82E+01		8.78E+00	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cobalt-57	1.47E+01	1.02E+01	3.84E+01		1.07E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Cobalt-58	-1.71E+01	1.83E+01	4.75E+01		1.88E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cobalt-58	-1.35E+01	2.16E+01	6.93E+01		2.18E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Cobalt-60	3.99E+01	1.56E+01	6.06E+01		1.82E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Cobalt-60	-1.44E+01	1.98E+01	5.62E+01		2.01E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Iron-59	-3.89E+01	2.98E+01	8.77E+01		3.12E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Iron-59	-7.89E+01	4.78E+01	1.18E+02		5.13E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Lanthanum-140	-1.32E+01	3.18E+01	9.65E+01		3.20E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Lanthanum-140	-8.23E+01	9.87E+01	2.81E+02		1.01E+02	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Lead-212	5.52E+02	5.57E+01	7.77E+01		6.15E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Lead-212	4.52E+02	5.97E+01	1.12E+02		6.30E+01	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Lead-214	7.81E+02	7.53E+01	2.19E+02		8.24E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Lead-214	5.81E+02	9.05E+01	2.77E+02		9.41E+01	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Manganese-54	2.96E+01	1.46E+01	5.42E+01		1.62E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Manganese-54	-1.54E+01	1.58E+01	4.80E+01		1.62E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Niobium-95	5.71E+00	1.85E+01	5.28E+01		1.86E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Niobium-95	2.51E+01	2.40E+01	8.22E+01		2.47E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Potassium-40	1.50E+04	7.18E+02	3.70E+02		1.03E+03	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Potassium-40	1.33E+04	8.66E+02	5.88E+02		1.09E+03	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Radium-226	5.47E+02	8.00E+01	8.13E+01		8.35E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Radium-226	6.97E+02	1.01E+02	1.16E+02		1.06E+02	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Ruthenium-103	1.09E+01	1.48E+01	5.00E+01		1.50E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Ruthenium-103	3.94E+01	2.30E+01	8.85E+01		2.48E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Ruthenium-106	3.02E+02	1.73E+02	3.02E+02		1.74E+02	pCi/kg	UI
S-1(525978001) - Sediment	5-Oct-20	Ruthenium-106	2.47E+02	1.39E+02	5.39E+02		1.51E+02	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Selenium-75	-1.44E+01	1.61E+01	5.29E+01		1.65E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Selenium-75	-3.08E+01	2.01E+01	5.70E+01		2.14E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Silver-108m	-4.89E+00	1.04E+01	3.33E+01		1.05E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Silver-108m	7.28E+00	1.31E+01	4.67E+01		1.32E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Silver-110m	4.70E+00	1.69E+01	5.76E+01		1.69E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Silver-110m	-1.20E+01	2.28E+01	7.25E+01		2.30E+01	pCi/kg	U

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## Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-1(513061001) - Sediment	27-May-20	Strontium-89	-3.85E+02	6.24E+01	2.36E+02	3.00E+02	1.03E+02	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Strontium-89	-1.79E+02	6.91E+01	2.37E+02	3.00E+02	8.30E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Strontium-90	-1.78E+02	5.38E+01	2.49E+02	3.00E+02	7.23E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Strontium-90	7.34E+01	2.66E+01	1.20E+02	3.00E+02	3.92E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Thallium-208	1.89E+02	2.74E+01	4.05E+01		2.86E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Thallium-208	2.19E+02	4.31E+01	5.56E+01		4.42E+01	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Thorium-228	5.52E+02	5.57E+01	7.77E+01		6.15E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Thorium-228	4.52E+02	5.97E+01	1.12E+02		6.30E+01	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Thorium-230	5.47E+02	8.00E+01	8.13E+01		8.35E+01	pCi/kg	
S-1(525978001) - Sediment	5-Oct-20	Thorium-230	6.97E+02	1.01E+02	1.16E+02		1.06E+02	pCi/kg	
S-1(513061001) - Sediment	27-May-20	Zinc-65	-2.51E+01	3.46E+01	9.25E+01		3.51E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Zinc-65	-4.79E+01	5.30E+01	1.30E+02		5.42E+01	pCi/kg	U
S-1(513061001) - Sediment	27-May-20	Zirconium-95	7.51E+01	3.86E+01	9.05E+01		4.24E+01	pCi/kg	U
S-1(525978001) - Sediment	5-Oct-20	Zirconium-95	-1.78E+01	3.80E+01	1.25E+02		3.83E+01	pCi/kg	U

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## Sediment

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-2(513061002) - Sediment	27-May-20	Actinium-228	8.34E+02	1.41E+02	1.80E+02		1.47E+02	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Actinium-228	9.62E+02	1.30E+02	2.07E+02		1.41E+02	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Antimony-124	9.82E+00	2.80E+01	9.49E+01		2.81E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Antimony-124	1.51E+01	4.11E+01	1.44E+02		4.12E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Antimony-125	3.82E+00	3.09E+01	1.05E+02		3.10E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Antimony-125	-3.76E+00	3.32E+01	1.14E+02		3.32E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Barium-140	-4.08E+00	8.03E+01	2.66E+02		8.03E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Barium-140	-2.57E+02	2.37E+02	7.34E+02		2.45E+02	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Beryllium-7	-1.55E+02	1.13E+02	3.52E+02		1.19E+02	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Beryllium-7	2.28E+02	1.94E+02	7.09E+02		2.01E+02	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Bismuth-214	6.98E+02	6.60E+01	7.39E+01		7.35E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Bismuth-214	8.83E+02	7.46E+01	9.59E+01		8.75E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Cerium-141	2.34E+01	3.40E+01	6.06E+01		3.45E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cerium-141	-7.42E+01	3.37E+01	1.02E+02		3.80E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Cerium-144	-9.40E+01	5.84E+01	1.83E+02		6.26E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cerium-144	-5.13E-01	7.43E+01	2.53E+02		7.43E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Cesium-134	4.47E+01	1.85E+01	6.04E+01	1.50E+02	2.13E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cesium-134	8.49E+01	2.30E+01	8.49E+01	1.50E+02	3.48E+01	pCi/kg	UI

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Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-2(513061002) - Sediment	27-May-20	Cesium-137	1.12E+01	1.23E+01	4.26E+01	1.80E+02	1.25E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cesium-137	1.01E+01	1.59E+01	5.56E+01	1.80E+02	1.60E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Chromium-51	4.12E+00	1.10E+02	3.82E+02		1.10E+02	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Chromium-51	-3.73E+02	2.18E+02	6.01E+02		2.35E+02	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Cobalt-57	1.01E+01	7.32E+00	2.55E+01		7.69E+00	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cobalt-57	1.09E+01	8.79E+00	3.18E+01		9.16E+00	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Cobalt-58	-9.90E+00	1.51E+01	3.98E+01		1.53E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cobalt-58	-8.50E+00	1.87E+01	5.83E+01		1.88E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Cobalt-60	5.25E+00	1.52E+01	5.17E+01		1.53E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Cobalt-60	9.81E-01	1.31E+01	4.44E+01		1.31E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Iron-59	-8.20E+01	3.51E+01	7.39E+01		4.00E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Iron-59	-1.76E+01	5.56E+01	1.71E+02		5.58E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Lanthanum-140	7.58E+00	2.89E+01	9.69E+01		2.90E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Lanthanum-140	-1.29E+02	7.14E+01	1.35E+02		7.75E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Lead-212	8.16E+02	4.20E+01	5.50E+01		6.10E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Lead-212	9.59E+02	6.00E+01	8.09E+01		7.97E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Lead-214	8.87E+02	6.81E+01	2.23E+02		7.68E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Lead-214	1.12E+03	9.68E+01	9.71E+01		1.07E+02	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Manganese-54	8.72E+00	1.56E+01	5.16E+01		1.57E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Manganese-54	9.53E+00	1.95E+01	6.58E+01		1.96E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Niobium-95	2.62E+01	1.83E+01	5.86E+01		1.93E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Niobium-95	-1.16E+01	2.36E+01	7.47E+01		2.38E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Potassium-40	1.78E+04	6.67E+02	3.05E+02		1.03E+03	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Potassium-40	1.89E+04	9.26E+02	1.97E+02		1.26E+03	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Radium-226	6.98E+02	6.60E+01	7.39E+01		7.35E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Radium-226	8.83E+02	7.46E+01	9.59E+01		8.75E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Ruthenium-103	9.37E+00	1.35E+01	4.70E+01		1.37E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Ruthenium-103	-3.92E+00	2.20E+01	7.42E+01		2.20E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Ruthenium-106	1.70E+02	1.25E+02	4.42E+02		1.31E+02	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Ruthenium-106	-2.00E+02	1.36E+02	3.98E+02		1.44E+02	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Selenium-75	-8.65E+00	1.48E+01	4.53E+01		1.49E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Selenium-75	-1.27E+01	2.03E+01	6.33E+01		2.05E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Silver-108m	1.48E+01	1.00E+01	3.63E+01		1.06E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Silver-108m	1.08E+01	1.18E+01	4.30E+01		1.20E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Silver-110m	2.69E+01	1.90E+01	6.70E+01		2.01E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Silver-110m	3.01E+01	2.20E+01	8.14E+01		2.31E+01	pCi/kg	U

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## Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-2(513061002) - Sediment	27-May-20	Strontium-89	-4.24E+02	3.89E+01	1.76E+02	3.00E+02	7.73E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Strontium-89	-2.30E+02	5.25E+01	1.89E+02	3.00E+02	8.12E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Strontium-90	-1.56E+02	4.09E+01	1.93E+02	3.00E+02	5.50E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Strontium-90	7.75E+01	3.51E+01	1.63E+02	3.00E+02	5.14E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Thallium-208	2.32E+02	3.24E+01	4.15E+01		3.41E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Thallium-208	2.46E+02	4.73E+01	5.27E+01		4.90E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Thorium-228	8.16E+02	4.20E+01	5.50E+01		6.10E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Thorium-228	9.59E+02	6.00E+01	8.09E+01		7.97E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Thorium-230	6.98E+02	6.60E+01	7.39E+01		7.35E+01	pCi/kg	
S-2(525978002) - Sediment	5-Oct-20	Thorium-230	8.83E+02	7.46E+01	9.59E+01		8.75E+01	pCi/kg	
S-2(513061002) - Sediment	27-May-20	Zinc-65	3.73E+01	2.99E+01	1.00E+02		3.11E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Zinc-65	1.24E+01	4.43E+01	1.45E+02		4.44E+01	pCi/kg	U
S-2(513061002) - Sediment	27-May-20	Zirconium-95	3.20E+01	2.82E+01	9.78E+01		2.92E+01	pCi/kg	U
S-2(525978002) - Sediment	5-Oct-20	Zirconium-95	4.24E+01	3.79E+01	1.37E+02		3.92E+01	pCi/kg	U

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## Sediment

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-3(513061003) - Sediment	27-May-20	Actinium-228	1.13E+02	6.94E+01	1.13E+02		7.05E+01	pCi/kg	UI
S-3(525978003) - Sediment	5-Oct-20	Actinium-228	7.68E+01	6.30E+01	2.22E+02		6.55E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Antimony-124	1.11E+01	2.21E+01	8.28E+01		2.23E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Antimony-124	1.18E+01	2.60E+01	9.47E+01		2.62E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Antimony-125	1.56E-01	2.34E+01	7.80E+01		2.34E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Antimony-125	-1.02E+01	1.94E+01	6.48E+01		1.95E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Barium-140	4.38E+01	6.59E+01	2.15E+02		6.67E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Barium-140	-5.25E+01	1.70E+02	5.94E+02		1.70E+02	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Beryllium-7	3.03E+02	8.11E+01	3.39E+02		1.08E+02	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Beryllium-7	1.05E+02	9.05E+01	3.53E+02		9.38E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Bismuth-214	1.65E+02	5.38E+01	6.12E+01		5.43E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Bismuth-214	1.33E+02	4.99E+01	1.33E+02		6.14E+01	pCi/kg	UI
S-3(513061003) - Sediment	27-May-20	Cerium-141	-1.67E+01	1.37E+01	4.70E+01		1.42E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cerium-141	-1.01E+01	2.32E+01	7.88E+01		2.34E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Cerium-144	-1.18E+01	4.63E+01	1.41E+02		4.64E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cerium-144	4.92E+01	4.85E+01	1.81E+02		4.99E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Cesium-134	1.73E+01	1.02E+01	3.84E+01	1.50E+02	1.10E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cesium-134	9.03E+00	1.01E+01	3.49E+01	1.50E+02	1.03E+01	pCi/kg	U



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Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-3(513061003) - Sediment	27-May-20	Cesium-137	-5.25E+00	9.73E+00	2.94E+01	1.80E+02	9.81E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cesium-137	1.18E+01	1.07E+01	4.02E+01	1.80E+02	1.11E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Chromium-51	-2.50E+01	9.13E+01	3.10E+02		9.15E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Chromium-51	1.33E+02	1.39E+02	5.36E+02		1.43E+02	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Cobalt-57	-2.95E+00	5.92E+00	1.97E+01		5.96E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cobalt-57	-8.32E+00	6.60E+00	2.14E+01		6.88E+00	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Cobalt-58	-1.32E+00	8.76E+00	2.89E+01		8.77E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cobalt-58	-6.03E+00	1.13E+01	3.50E+01		1.14E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Cobalt-60	-1.11E+01	9.75E+00	2.81E+01		1.01E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Cobalt-60	2.19E+01	1.31E+01	4.85E+01		1.41E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Iron-59	-1.35E+01	2.85E+01	7.98E+01		2.87E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Iron-59	-6.85E+01	3.67E+01	8.64E+01		4.01E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Lanthanum-140	3.03E+00	1.97E+01	6.56E+01		1.98E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Lanthanum-140	4.72E-01	2.87E+01	9.66E+01		2.87E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Lead-212	2.35E+02	2.97E+01	4.48E+01		3.17E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Lead-212	2.54E+02	3.03E+01	4.48E+01		3.20E+01	pCi/kg	
S-3(513061003) - Sediment	27-May-20	Lead-214	2.45E+02	4.34E+01	4.95E+01		4.47E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Lead-214	1.37E+02	5.73E+01	1.37E+02		7.86E+01	pCi/kg	UI
S-3(513061003) - Sediment	27-May-20	Manganese-54	1.19E+01	9.56E+00	3.47E+01		9.96E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Manganese-54	1.21E+01	1.32E+01	4.76E+01		1.35E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Niobium-95	9.88E+00	1.03E+01	3.70E+01		1.06E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Niobium-95	6.47E-01	1.49E+01	5.04E+01		1.49E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Potassium-40	1.04E+04	4.87E+02	2.90E+02		7.57E+02	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Potassium-40	9.88E+03	6.06E+02	3.04E+02		7.59E+02	pCi/kg	
S-3(513061003) - Sediment	27-May-20	Radium-226	1.65E+02	5.38E+01	6.12E+01		5.43E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Radium-226	1.33E+02	4.99E+01	1.33E+02		6.14E+01	pCi/kg	UI
S-3(513061003) - Sediment	27-May-20	Ruthenium-103	-7.45E+00	8.78E+00	2.93E+01		8.95E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Ruthenium-103	-8.85E-01	1.19E+01	3.69E+01		1.19E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Ruthenium-106	-7.12E+01	7.00E+01	2.22E+02		7.19E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Ruthenium-106	-6.54E+01	9.91E+01	3.18E+02		1.00E+02	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Selenium-75	-2.48E+01	1.05E+01	3.25E+01		1.20E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Selenium-75	-1.32E+00	1.31E+01	4.33E+01		1.31E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Silver-108m	-6.10E+00	6.92E+00	2.16E+01		7.06E+00	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Silver-108m	-3.35E+00	7.79E+00	2.66E+01		7.83E+00	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Silver-110m	2.55E+00	1.20E+01	4.04E+01		1.20E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Silver-110m	-1.51E+00	1.14E+01	3.68E+01		1.14E+01	pCi/kg	U

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## Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-3(513061003) - Sediment	27-May-20	Strontium-89	-2.08E+02	4.60E+01	1.69E+02	3.00E+02	6.62E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Strontium-89	-7.80E+01	5.88E+01	1.99E+02	3.00E+02	8.11E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Strontium-90	-9.22E+01	3.00E+01	1.41E+02	3.00E+02	4.04E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Strontium-90	4.85E+01	2.79E+01	1.29E+02	3.00E+02	4.06E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Thallium-208	5.81E+01	1.79E+01	3.05E+01		1.81E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Thallium-208	6.66E+01	2.10E+01	3.27E+01		2.13E+01	pCi/kg	
S-3(513061003) - Sediment	27-May-20	Thorium-228	2.35E+02	2.97E+01	4.48E+01		3.17E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Thorium-228	2.54E+02	3.03E+01	4.48E+01		3.20E+01	pCi/kg	
S-3(513061003) - Sediment	27-May-20	Thorium-230	1.65E+02	5.38E+01	6.12E+01		5.43E+01	pCi/kg	
S-3(525978003) - Sediment	5-Oct-20	Thorium-230	1.33E+02	4.99E+01	1.33E+02		6.14E+01	pCi/kg	UI
S-3(513061003) - Sediment	27-May-20	Zinc-65	3.20E+01	2.46E+01	8.30E+01		2.58E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Zinc-65	-7.38E+01	2.86E+01	7.09E+01		3.34E+01	pCi/kg	U
S-3(513061003) - Sediment	27-May-20	Zirconium-95	-2.27E+01	1.73E+01	5.20E+01		1.81E+01	pCi/kg	U
S-3(525978003) - Sediment	5-Oct-20	Zirconium-95	4.16E+01	1.95E+01	8.25E+01		2.18E+01	pCi/kg	U

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## Sediment

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-4(513061004) - Sediment	28-May-20	Actinium-228	1.78E+02	6.42E+01	1.78E+02		8.31E+01	pCi/kg	UI
S-4(525978004) - Sediment	21-Oct-20	Actinium-228	1.32E+01	4.92E+01	1.84E+02		4.93E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Antimony-124	2.77E+00	1.61E+01	5.38E+01		1.61E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Antimony-124	-6.58E+00	2.77E+01	8.61E+01		2.78E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Antimony-125	-1.37E+01	1.55E+01	5.03E+01		1.59E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Antimony-125	-1.40E+01	2.55E+01	8.42E+01		2.57E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Barium-140	5.71E+01	5.10E+01	1.85E+02		5.27E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Barium-140	-3.89E+01	8.04E+01	2.62E+02		8.09E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Beryllium-7	-4.13E+01	5.80E+01	1.88E+02		5.88E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Beryllium-7	1.94E+01	1.03E+02	3.61E+02		1.03E+02	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Bismuth-214	2.39E+02	4.13E+01	3.91E+01		4.25E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Bismuth-214	1.79E+02	4.24E+01	6.35E+01		4.31E+01	pCi/kg	
S-4(513061004) - Sediment	28-May-20	Cerium-141	-3.63E+00	1.31E+01	4.00E+01		1.32E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cerium-141	-3.28E+01	2.06E+01	6.36E+01		2.20E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Cerium-144	-7.38E+01	3.57E+01	1.18E+02		3.97E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cerium-144	-2.39E+01	6.33E+01	2.14E+02		6.36E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Cesium-134	8.01E+00	1.72E+01	2.95E+01	1.50E+02	1.73E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cesium-134	3.24E+01	1.46E+01	5.88E+01	1.50E+02	1.64E+01	pCi/kg	U

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Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-4(513061004) - Sediment	28-May-20	Cesium-137	-7.23E+00	8.65E+00	2.53E+01	1.80E+02	8.81E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cesium-137	-1.40E+01	1.19E+01	3.42E+01	1.80E+02	1.23E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Chromium-51	-6.14E+01	6.58E+01	2.21E+02		6.73E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Chromium-51	2.27E+02	1.11E+02	4.54E+02		1.23E+02	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Cobalt-57	-6.72E-01	5.02E+00	1.70E+01		5.02E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cobalt-57	2.30E+00	7.10E+00	2.53E+01		7.12E+00	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Cobalt-58	-1.16E+00	7.08E+00	2.45E+01		7.09E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cobalt-58	-4.56E+00	1.28E+01	4.03E+01		1.29E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Cobalt-60	1.02E+01	9.47E+00	3.44E+01		9.77E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Cobalt-60	-1.46E+01	1.22E+01	3.26E+01		1.27E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Iron-59	2.41E+01	1.84E+01	6.86E+01		1.92E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Iron-59	-1.50E+01	2.33E+01	7.23E+01		2.36E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Lanthanum-140	-1.39E+01	1.28E+01	3.34E+01		1.32E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Lanthanum-140	-1.12E+01	2.32E+01	6.78E+01		2.34E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Lead-212	2.26E+02	2.79E+01	4.31E+01		2.95E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Lead-212	6.65E+01	4.73E+01	6.65E+01		4.74E+01	pCi/kg	UI
S-4(513061004) - Sediment	28-May-20	Lead-214	2.76E+02	3.97E+01	9.95E+01		4.13E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Lead-214	1.53E+02	5.55E+01	1.53E+02		7.76E+01	pCi/kg	UI
S-4(513061004) - Sediment	28-May-20	Manganese-54	-1.35E+01	7.16E+00	2.16E+01		7.83E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Manganese-54	1.47E+01	1.11E+01	4.23E+01		1.16E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Niobium-95	-1.08E+00	7.36E+00	2.38E+01		7.37E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Niobium-95	1.08E+01	1.35E+01	4.99E+01		1.38E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Potassium-40	8.94E+03	4.18E+02	2.19E+02		6.28E+02	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Potassium-40	8.32E+03	6.17E+02	4.70E+02		7.42E+02	pCi/kg	
S-4(513061004) - Sediment	28-May-20	Radium-226	2.39E+02	4.13E+01	3.91E+01		4.25E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Radium-226	1.79E+02	4.24E+01	6.35E+01		4.31E+01	pCi/kg	
S-4(513061004) - Sediment	28-May-20	Ruthenium-103	1.03E+01	7.31E+00	2.72E+01		7.70E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Ruthenium-103	2.56E+00	1.12E+01	3.97E+01		1.13E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Ruthenium-106	2.99E+01	5.83E+01	2.03E+02		5.88E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Ruthenium-106	-1.00E+02	1.09E+02	2.79E+02		1.12E+02	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Selenium-75	8.65E+00	8.75E+00	3.27E+01		8.98E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Selenium-75	3.79E+01	1.64E+01	4.66E+01		1.87E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Silver-108m	-6.84E+00	6.01E+00	1.93E+01		6.22E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Silver-108m	3.89E+00	7.99E+00	2.93E+01		8.04E+00	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Silver-110m	-4.12E+00	9.21E+00	3.09E+01		9.26E+00	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Silver-110m	-7.05E-01	1.47E+01	4.78E+01		1.47E+01	pCi/kg	U

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## Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-4(513061004) - Sediment	28-May-20	Strontium-89	-1.16E+02	5.44E+01	1.87E+02	3.00E+02	7.40E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Strontium-89	8.33E+01	7.53E+01	2.43E+02	3.00E+02	9.69E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Strontium-90	6.68E+01	3.54E+01	1.52E+02	3.00E+02	4.81E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Strontium-90	-4.05E+02	4.08E+01	2.22E+02	3.00E+02	5.91E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Thallium-208	7.75E+01	1.69E+01	2.35E+01		1.72E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Thallium-208	3.08E+01	3.62E+01	3.08E+01		3.63E+01	pCi/kg	UI
S-4(513061004) - Sediment	28-May-20	Thorium-228	2.26E+02	2.79E+01	4.31E+01		2.95E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Thorium-228	6.65E+01	4.73E+01	6.65E+01		4.74E+01	pCi/kg	UI
S-4(513061004) - Sediment	28-May-20	Thorium-230	2.39E+02	4.13E+01	3.91E+01		4.25E+01	pCi/kg	
S-4(525978004) - Sediment	21-Oct-20	Thorium-230	1.79E+02	4.24E+01	6.35E+01		4.31E+01	pCi/kg	
S-4(513061004) - Sediment	28-May-20	Zinc-65	-1.95E+01	1.95E+01	5.13E+01		2.00E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Zinc-65	2.59E+01	2.94E+01	1.01E+02		3.00E+01	pCi/kg	U
S-4(513061004) - Sediment	28-May-20	Zirconium-95	-1.32E+01	1.55E+01	4.74E+01		1.58E+01	pCi/kg	U
S-4(525978004) - Sediment	21-Oct-20	Zirconium-95	-3.13E+01	1.92E+01	4.64E+01		2.06E+01	pCi/kg	U

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## Sediment

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-5(513061005) - Sediment	21-May-20	Actinium-228	5.87E+02	1.48E+02	2.58E+02		1.51E+02	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Actinium-228	3.80E+02	2.15E+02	4.43E+02		2.16E+02	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Antimony-124	1.89E+01	4.85E+01	1.69E+02		4.87E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Antimony-124	5.82E+01	4.11E+01	1.91E+02		4.33E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Antimony-125	-2.30E+01	4.74E+01	1.46E+02		4.77E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Antimony-125	3.82E+01	5.85E+01	2.11E+02		5.92E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Barium-140	-1.47E+01	1.76E+02	5.48E+02		1.76E+02	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Barium-140	-1.98E+02	1.57E+02	4.57E+02		1.64E+02	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Beryllium-7	-3.99E+01	1.80E+02	5.62E+02		1.81E+02	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Beryllium-7	7.54E+02	3.64E+02	7.54E+02		3.66E+02	pCi/kg	UI
S-5(513061005) - Sediment	21-May-20	Bismuth-214	4.92E+02	8.71E+01	1.29E+02		8.98E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Bismuth-214	3.91E+02	1.09E+02	3.91E+02		1.64E+02	pCi/kg	UI
S-5(513061005) - Sediment	21-May-20	Cerium-141	-1.78E+01	2.86E+01	9.39E+01		2.89E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cerium-141	4.44E+01	5.18E+01	1.14E+02		5.19E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Cerium-144	-1.12E+02	8.39E+01	2.38E+02		8.80E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cerium-144	-5.08E+01	1.18E+02	3.88E+02		1.19E+02	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Cesium-134	1.72E+01	2.32E+01	8.01E+01	1.50E+02	2.35E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cesium-134	1.77E+01	2.34E+01	8.44E+01	1.50E+02	2.37E+01	pCi/kg	U

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Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-5(513061005) - Sediment	21-May-20	Cesium-137	1.01E+02	2.68E+01	1.04E+02	1.80E+02	3.57E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cesium-137	1.96E+02	5.26E+01	7.60E+01	1.80E+02	5.32E+01	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Chromium-51	-5.54E+00	1.98E+02	6.39E+02		1.98E+02	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Chromium-51	5.79E+01	2.06E+02	6.69E+02		2.06E+02	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Cobalt-57	-8.35E+00	1.05E+01	3.06E+01		1.07E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cobalt-57	-9.08E+00	1.33E+01	4.33E+01		1.35E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Cobalt-58	1.60E+01	2.33E+01	8.05E+01		2.36E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cobalt-58	-1.41E+01	2.88E+01	8.99E+01		2.90E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Cobalt-60	3.13E+01	2.22E+01	8.11E+01		2.34E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Cobalt-60	1.41E+01	2.22E+01	8.32E+01		2.25E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Iron-59	-4.42E+01	5.85E+01	1.76E+02		5.95E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Iron-59	3.99E+01	6.61E+01	2.39E+02		6.68E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Lanthanum-140	-5.49E+00	8.09E+01	2.66E+02		8.10E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Lanthanum-140	-7.72E-01	6.07E+01	1.98E+02		6.07E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Lead-212	6.15E+02	4.59E+01	8.33E+01		5.91E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Lead-212	6.76E+02	7.72E+01	1.24E+02		8.29E+01	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Lead-214	6.16E+02	7.92E+01	1.17E+02		8.44E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Lead-214	6.30E+02	9.57E+01	1.71E+02		9.93E+01	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Manganese-54	-3.33E-01	2.20E+01	7.22E+01		2.20E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Manganese-54	-1.41E+01	2.68E+01	8.08E+01		2.70E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Niobium-95	-3.38E+01	2.64E+01	8.00E+01		2.76E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Niobium-95	-2.04E+00	3.15E+01	1.02E+02		3.15E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Potassium-40	1.50E+04	8.38E+02	5.78E+02		1.10E+03	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Potassium-40	1.75E+04	1.38E+03	9.13E+02		1.65E+03	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Radium-226	4.92E+02	8.71E+01	1.29E+02		8.98E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Radium-226	3.91E+02	1.09E+02	3.91E+02		1.64E+02	pCi/kg	UI
S-5(513061005) - Sediment	21-May-20	Ruthenium-103	2.84E+01	2.21E+01	7.59E+01		2.30E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Ruthenium-103	-9.03E+00	2.58E+01	8.43E+01		2.59E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Ruthenium-106	2.91E+02	1.93E+02	2.91E+02		1.94E+02	pCi/kg	UI
S-5(525978005) - Sediment	22-Oct-20	Ruthenium-106	1.65E+02	2.08E+02	7.48E+02		2.11E+02	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Selenium-75	-2.55E+00	2.28E+01	7.08E+01		2.28E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Selenium-75	5.33E+01	2.85E+01	1.04E+02		3.11E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Silver-108m	-1.25E+01	1.56E+01	4.70E+01		1.58E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Silver-108m	1.22E+01	1.82E+01	6.58E+01		1.84E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Silver-110m	2.35E+00	3.10E+01	1.02E+02		3.10E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Silver-110m	-3.02E+01	3.34E+01	9.14E+01		3.42E+01	pCi/kg	U

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## Sediment - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
S-5(513061005) - Sediment	21-May-20	Strontium-89	-1.25E+02	8.04E+01	2.73E+02	3.00E+02	1.01E+02	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Strontium-89	-2.98E+02	3.67E+01	1.48E+02	3.00E+02	6.82E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Strontium-90	7.00E+01	3.86E+01	1.64E+02	3.00E+02	5.24E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Strontium-90	1.37E+02	3.70E+01	1.67E+02	3.00E+02	5.51E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Thallium-208	1.39E+02	3.84E+01	6.81E+01		3.89E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Thallium-208	2.82E+02	5.45E+01	7.02E+01		5.58E+01	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Thorium-228	6.15E+02	4.59E+01	8.33E+01		5.91E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Thorium-228	6.76E+02	7.72E+01	1.24E+02		8.29E+01	pCi/kg	
S-5(513061005) - Sediment	21-May-20	Thorium-230	4.92E+02	8.71E+01	1.29E+02		8.98E+01	pCi/kg	
S-5(525978005) - Sediment	22-Oct-20	Thorium-230	3.91E+02	1.09E+02	3.91E+02		1.64E+02	pCi/kg	UI
S-5(513061005) - Sediment	21-May-20	Zinc-65	-4.69E+00	6.25E+01	1.75E+02		6.25E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Zinc-65	-1.69E+01	6.82E+01	1.94E+02		6.83E+01	pCi/kg	U
S-5(513061005) - Sediment	21-May-20	Zirconium-95	-6.20E+01	4.04E+01	1.17E+02		4.29E+01	pCi/kg	U
S-5(525978005) - Sediment	22-Oct-20	Zirconium-95	-3.15E+01	4.82E+01	1.44E+02		4.88E+01	pCi/kg	U

SW-2

## Surface Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(502529004) - Surface Water	28-Jan-20	Actinium-228	8.06E+00	5.07E+00	1.07E+01		5.41E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Actinium-228	1.83E-01	4.75E+00	5.10E+00		4.75E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Actinium-228	6.50E+00	3.35E+00	1.17E+01		3.68E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Actinium-228	-1.04E+00	2.97E+00	7.71E+00		2.98E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Actinium-228	-6.34E-01	2.72E+00	6.17E+00		2.73E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Actinium-228	1.02E+00	4.38E+00	6.21E+00		4.38E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Actinium-228	-3.19E+00	4.17E+00	8.13E+00		4.23E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Actinium-228	4.86E+00	2.17E+00	7.64E+00		2.45E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Actinium-228	2.22E+00	4.31E+00	5.48E+00		4.31E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Actinium-228	-2.21E+00	2.84E+00	7.13E+00		2.88E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Actinium-228	-1.74E+00	2.57E+00	5.65E+00		2.60E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Actinium-228	-2.58E+00	3.38E+00	7.53E+00		3.43E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Antimony-124	1.24E+00	1.32E+00	4.74E+00		1.35E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Antimony-124	1.56E+00	1.01E+00	3.62E+00		1.08E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Antimony-124	4.43E-01	1.56E+00	5.24E+00		1.57E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Antimony-124	2.01E+00	1.13E+00	3.75E+00		1.23E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Antimony-124	-9.29E-03	1.05E+00	3.45E+00		1.05E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Antimony-124	7.94E-01	1.29E+00	4.39E+00		1.30E+00	pCi/L	U

SW-2

Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Antimony-124	-2.04E-01	1.28E+00	4.24E+00		1.29E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Antimony-124	-2.04E+00	1.41E+00	4.03E+00		1.49E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Antimony-124	9.68E-01	1.12E+00	3.91E+00		1.14E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Antimony-124	-7.94E-01	1.29E+00	4.16E+00		1.30E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Antimony-124	-1.32E+00	1.21E+00	3.16E+00		1.25E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Antimony-124	-1.56E+00	1.35E+00	3.52E+00		1.40E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Antimony-125	-2.14E+00	1.67E+00	5.28E+00		1.75E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Antimony-125	-2.12E-01	1.01E+00	3.44E+00		1.01E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Antimony-125	6.99E-01	1.77E+00	6.10E+00		1.77E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Antimony-125	-1.39E+00	1.10E+00	3.54E+00		1.15E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Antimony-125	1.90E+00	1.01E+00	3.64E+00		1.11E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Antimony-125	2.82E-01	1.46E+00	4.92E+00		1.46E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Antimony-125	-4.14E-02	1.44E+00	4.68E+00		1.44E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Antimony-125	-3.01E-02	1.52E+00	4.83E+00		1.52E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Antimony-125	-3.49E-01	1.27E+00	4.06E+00		1.28E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Antimony-125	-1.27E+00	1.47E+00	4.77E+00		1.50E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Antimony-125	-8.08E-01	1.02E+00	3.41E+00		1.04E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Antimony-125	-1.00E+00	1.26E+00	4.03E+00		1.28E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Barium-140	4.90E+00	3.01E+00	1.07E+01	1.50E+01	3.22E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Barium-140	3.39E-02	1.50E+00	5.03E+00	1.50E+01	1.50E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Barium-140	-3.15E+00	2.73E+00	8.75E+00	1.50E+01	2.83E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Barium-140	2.46E+00	1.81E+00	6.27E+00	1.50E+01	1.90E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Barium-140	-1.75E+00	1.98E+00	6.38E+00	1.50E+01	2.02E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Barium-140	1.65E+00	2.08E+00	7.10E+00	1.50E+01	2.11E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Barium-140	6.82E+00	2.53E+00	8.93E+00	1.50E+01	2.99E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Barium-140	-4.24E+00	3.34E+00	9.28E+00	1.50E+01	3.48E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Barium-140	-3.23E+00	2.61E+00	7.91E+00	1.50E+01	2.72E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Barium-140	-2.64E+00	2.69E+00	8.48E+00	1.50E+01	2.76E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Barium-140	8.08E-01	1.87E+00	6.40E+00	1.50E+01	1.88E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Barium-140	2.47E+00	2.24E+00	7.46E+00	1.50E+01	2.32E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Beryllium-7	-4.78E+00	5.32E+00	1.70E+01		5.44E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Beryllium-7	-7.24E-01	3.34E+00	1.12E+01		3.35E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Beryllium-7	1.11E+01	8.19E+00	1.95E+01		8.21E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Beryllium-7	6.49E+00	5.76E+00	1.15E+01		5.77E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Beryllium-7	5.59E+00	3.35E+00	1.19E+01		3.60E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Beryllium-7	3.54E+00	4.10E+00	1.41E+01		4.18E+00	pCi/L	U

SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Beryllium-7	-1.25E+01	4.63E+00	1.34E+01		5.49E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Beryllium-7	-4.20E+00	4.25E+00	1.39E+01		4.36E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Beryllium-7	-4.44E-01	4.44E+00	1.41E+01		4.44E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Beryllium-7	4.49E+00	4.33E+00	1.49E+01		4.45E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Beryllium-7	3.79E+00	4.79E+00	9.95E+00		4.80E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Beryllium-7	-5.78E-02	4.17E+00	1.35E+01		4.17E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cerium-141	-2.76E-01	1.17E+00	3.69E+00		1.17E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cerium-141	-1.29E-01	6.94E-01	2.12E+00		6.95E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cerium-141	-8.00E-01	1.08E+00	3.52E+00		1.09E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cerium-141	1.76E-01	8.33E-01	2.48E+00		8.34E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cerium-141	-7.86E-01	7.03E-01	2.21E+00		7.27E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cerium-141	2.60E+00	9.42E-01	3.02E+00		1.12E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Cerium-141	1.77E+00	1.37E+00	2.33E+00		1.37E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cerium-141	-4.74E+00	1.53E+00	3.13E+00		1.89E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cerium-141	2.06E+00	8.90E-01	3.12E+00		1.01E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cerium-141	-1.53E+00	1.03E+00	3.20E+00		1.09E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cerium-141	5.27E-01	6.86E-01	2.12E+00		6.97E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cerium-141	-4.72E+00	1.21E+00	2.65E+00		1.64E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cerium-144	-1.87E+00	4.45E+00	1.41E+01		4.47E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cerium-144	9.86E-01	2.76E+00	8.60E+00		2.77E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cerium-144	8.25E-01	4.19E+00	1.40E+01		4.19E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cerium-144	2.96E+00	3.15E+00	1.03E+01		3.22E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cerium-144	2.38E-01	2.66E+00	8.66E+00		2.66E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cerium-144	-9.59E-01	3.82E+00	1.22E+01		3.83E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Cerium-144	6.43E+00	3.06E+00	9.97E+00		3.41E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cerium-144	2.53E+00	3.60E+00	1.14E+01		3.64E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cerium-144	-1.31E+00	3.05E+00	1.03E+01		3.06E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cerium-144	-1.13E+01	3.80E+00	1.15E+01		4.63E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cerium-144	-7.18E-01	2.53E+00	8.24E+00		2.53E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cerium-144	1.55E+00	3.15E+00	1.01E+01		3.17E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cesium-134	-4.65E-01	6.81E-01	2.09E+00	1.50E+01	6.89E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cesium-134	-1.55E-02	4.42E-01	1.44E+00	1.50E+01	4.42E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cesium-134	-4.88E-01	7.63E-01	2.40E+00	1.50E+01	7.71E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cesium-134	-2.14E-01	4.77E-01	1.51E+00	1.50E+01	4.80E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cesium-134	-2.90E-01	4.66E-01	1.47E+00	1.50E+01	4.71E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cesium-134	-1.03E+00	6.16E-01	1.81E+00	1.50E+01	6.62E-01	pCi/L	U



SW-2

Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Cesium-134	7.19E-01	6.72E-01	2.34E+00	1.50E+01	6.92E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cesium-134	4.80E-01	5.88E-01	1.98E+00	1.50E+01	5.99E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cesium-134	9.76E-02	4.75E-01	1.59E+00	1.50E+01	4.75E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cesium-134	1.06E+00	6.26E-01	2.15E+00	1.50E+01	6.74E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cesium-134	-1.05E-01	3.95E-01	1.29E+00	1.50E+01	3.96E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cesium-134	-8.23E-01	5.12E-01	1.61E+00	1.50E+01	5.47E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cesium-137	-2.69E-02	6.17E-01	2.00E+00	1.80E+01	6.17E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cesium-137	-2.30E+00	7.72E-01	1.93E+00	1.80E+01	9.41E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cesium-137	-5.74E-03	6.95E-01	2.30E+00	1.80E+01	6.95E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cesium-137	7.61E-01	4.81E-01	1.66E+00	1.80E+01	5.13E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cesium-137	2.95E-01	4.34E-01	1.47E+00	1.80E+01	4.39E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cesium-137	5.82E-01	5.53E-01	1.89E+00	1.80E+01	5.69E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Cesium-137	-1.04E+00	1.22E+00	1.97E+00	1.80E+01	1.24E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cesium-137	1.53E-01	5.41E-01	1.81E+00	1.80E+01	5.43E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cesium-137	6.13E-01	4.63E-01	1.63E+00	1.80E+01	4.84E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cesium-137	-7.64E-01	5.50E-01	1.65E+00	1.80E+01	5.79E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cesium-137	7.42E-01	5.06E-01	1.35E+00	1.80E+01	5.07E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cesium-137	-5.69E-01	4.69E-01	1.53E+00	1.80E+01	4.87E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Chromium-51	6.12E+00	5.61E+00	1.98E+01		5.79E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Chromium-51	-5.83E-01	3.61E+00	1.13E+01		3.61E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Chromium-51	-4.61E+00	6.34E+00	1.95E+01		6.43E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Chromium-51	-9.48E-01	3.87E+00	1.31E+01		3.88E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Chromium-51	-7.48E-01	3.57E+00	1.22E+01		3.58E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Chromium-51	8.08E-01	4.45E+00	1.52E+01		4.45E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Chromium-51	1.48E+00	4.53E+00	1.51E+01		4.54E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Chromium-51	-8.42E+00	5.36E+00	1.67E+01		5.71E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Chromium-51	3.93E+00	4.54E+00	1.52E+01		4.63E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Chromium-51	5.55E+00	5.05E+00	1.77E+01		5.21E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Chromium-51	-7.45E-01	3.64E+00	1.14E+01		3.64E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Chromium-51	-5.84E+00	4.32E+00	1.40E+01		4.53E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cobalt-57	1.52E-01	5.59E-01	1.81E+00		5.60E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cobalt-57	1.11E+00	5.46E-01	1.11E+00		5.48E-01	pCi/L	UI
SW-2(508675004) - Surface Water	31-Mar-20	Cobalt-57	-4.62E-01	5.57E-01	1.83E+00		5.67E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cobalt-57	-7.28E-01	4.26E-01	1.33E+00		4.59E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cobalt-57	-2.16E-01	3.54E-01	1.14E+00		3.58E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cobalt-57	4.51E-01	5.11E-01	1.69E+00		5.22E-01	pCi/L	U

SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Cobalt-57	-1.82E-01	3.87E-01	1.20E+00		3.89E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cobalt-57	5.19E-01	4.54E-01	1.46E+00		4.70E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cobalt-57	-5.64E-01	3.99E-01	1.33E+00		4.20E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cobalt-57	-7.30E-01	5.04E-01	1.59E+00		5.32E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cobalt-57	-2.87E-01	3.27E-01	1.06E+00		3.34E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cobalt-57	2.94E-02	4.25E-01	1.25E+00		4.25E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cobalt-58	5.79E-01	6.24E-01	2.13E+00	1.50E+01	6.39E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cobalt-58	-7.84E-02	4.52E-01	1.30E+00	1.50E+01	4.52E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cobalt-58	1.38E-01	6.90E-01	2.26E+00	1.50E+01	6.91E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cobalt-58	2.06E-01	4.38E-01	1.44E+00	1.50E+01	4.40E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cobalt-58	-4.29E-03	4.17E-01	1.35E+00	1.50E+01	4.17E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cobalt-58	-7.20E-01	5.37E-01	1.60E+00	1.50E+01	5.63E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Cobalt-58	8.34E-01	5.61E-01	1.99E+00	1.50E+01	5.93E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cobalt-58	2.04E-02	5.25E-01	1.70E+00	1.50E+01	5.25E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cobalt-58	3.71E-01	4.65E-01	1.59E+00	1.50E+01	4.73E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cobalt-58	-5.42E-01	5.47E-01	1.64E+00	1.50E+01	5.61E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cobalt-58	1.91E-01	3.82E-01	1.29E+00	1.50E+01	3.84E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cobalt-58	3.06E-01	4.55E-01	1.56E+00	1.50E+01	4.61E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Cobalt-60	-2.30E-01	6.96E-01	2.26E+00	1.50E+01	6.98E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Cobalt-60	1.19E-01	4.25E-01	1.44E+00	1.50E+01	4.26E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Cobalt-60	8.83E-01	7.32E-01	2.63E+00	1.50E+01	7.61E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Cobalt-60	1.34E+00	7.58E-01	1.53E+00	1.50E+01	8.21E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Cobalt-60	1.71E-01	4.16E-01	1.43E+00	1.50E+01	4.18E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Cobalt-60	-2.79E-01	6.76E-01	1.91E+00	1.50E+01	6.79E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Cobalt-60	-1.56E-02	5.30E-01	1.70E+00	1.50E+01	5.30E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Cobalt-60	5.99E-01	5.54E-01	1.93E+00	1.50E+01	5.72E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Cobalt-60	2.41E-02	4.72E-01	1.52E+00	1.50E+01	4.72E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Cobalt-60	-5.24E-01	5.58E-01	1.70E+00	1.50E+01	5.71E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Cobalt-60	7.43E-01	4.06E-01	1.33E+00	1.50E+01	4.41E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Cobalt-60	-2.37E-01	4.69E-01	1.55E+00	1.50E+01	4.72E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Iodine-131	-3.11E-01	9.95E-01	3.16E+00		9.98E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Iodine-131	-2.85E-01	5.20E-01	1.59E+00		5.24E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Iodine-131	-7.61E-01	9.24E-01	2.79E+00		9.41E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Iodine-131	1.23E-01	9.13E-01	1.94E+00		9.13E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Iodine-131	-1.35E-01	6.26E-01	2.12E+00		6.27E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Iodine-131	5.13E-02	6.48E-01	2.20E+00		6.48E-01	pCi/L	U

SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Iodine-131	1.04E+00	1.75E+00	2.60E+00		1.75E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Iodine-131	-1.06E-01	1.15E+00	3.69E+00		1.15E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Iodine-131	-1.49E+00	1.54E+00	3.22E+00		1.58E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Iodine-131	-3.36E-01	9.10E-01	3.03E+00		9.14E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Iodine-131	-2.74E-01	7.04E-01	2.17E+00		7.07E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Iodine-131	-1.12E-01	7.74E-01	2.55E+00		7.74E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Iron-59	-6.58E-01	1.31E+00	4.30E+00	3.00E+01	1.32E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Iron-59	-5.50E-01	7.29E-01	2.39E+00	3.00E+01	7.40E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Iron-59	-4.83E-01	1.31E+00	4.38E+00	3.00E+01	1.32E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Iron-59	1.80E-01	8.42E-01	2.78E+00	3.00E+01	8.43E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Iron-59	3.35E-01	8.30E-01	2.70E+00	3.00E+01	8.34E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Iron-59	-1.59E+00	1.12E+00	3.52E+00	3.00E+01	1.18E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Iron-59	-3.75E-01	1.12E+00	3.61E+00	3.00E+01	1.13E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Iron-59	2.01E+00	1.15E+00	4.14E+00	3.00E+01	1.25E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Iron-59	-1.62E+00	1.00E+00	3.01E+00	3.00E+01	1.07E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Iron-59	9.78E-01	1.07E+00	3.72E+00	3.00E+01	1.09E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Iron-59	-1.53E+00	8.91E-01	2.21E+00	3.00E+01	9.61E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Iron-59	-8.36E-01	9.53E-01	2.98E+00	3.00E+01	9.73E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Lanthanum-140	1.59E+00	1.09E+00	4.00E+00	1.50E+01	1.15E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Lanthanum-140	-9.33E-01	5.73E-01	1.70E+00	1.50E+01	6.13E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Lanthanum-140	-1.29E+00	9.26E-01	2.69E+00	1.50E+01	9.74E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Lanthanum-140	-2.91E-01	6.32E-01	2.02E+00	1.50E+01	6.36E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Lanthanum-140	-5.33E-01	6.73E-01	2.11E+00	1.50E+01	6.84E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Lanthanum-140	5.34E-01	6.42E-01	2.25E+00	1.50E+01	6.54E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Lanthanum-140	-6.63E-01	9.45E-01	3.04E+00	1.50E+01	9.58E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Lanthanum-140	-1.21E+00	1.79E+00	3.77E+00	1.50E+01	1.81E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Lanthanum-140	3.29E-01	8.44E-01	2.89E+00	1.50E+01	8.47E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Lanthanum-140	-5.15E-01	9.33E-01	2.44E+00	1.50E+01	9.40E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Lanthanum-140	-1.36E+00	6.12E-01	1.76E+00	1.50E+01	6.89E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Lanthanum-140	-5.85E-01	8.79E-01	2.41E+00	1.50E+01	8.89E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Manganese-54	-3.36E-02	5.96E-01	1.90E+00	1.50E+01	5.96E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Manganese-54	-4.67E-02	4.52E-01	1.30E+00	1.50E+01	4.52E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Manganese-54	1.77E+00	6.69E-01	2.46E+00	1.50E+01	7.87E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Manganese-54	-3.84E-01	4.63E-01	1.25E+00	1.50E+01	4.72E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Manganese-54	7.50E-02	3.99E-01	1.30E+00	1.50E+01	3.99E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Manganese-54	8.17E-02	4.91E-01	1.59E+00	1.50E+01	4.91E-01	pCi/L	U

## SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Manganese-54	2.74E-01	5.36E-01	1.83E+00	1.50E+01	5.40E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Manganese-54	1.77E-01	5.45E-01	1.79E+00	1.50E+01	5.47E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Manganese-54	-1.69E-01	4.42E-01	1.44E+00	1.50E+01	4.43E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Manganese-54	-2.76E-01	5.29E-01	1.76E+00	1.50E+01	5.33E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Manganese-54	4.97E-01	3.78E-01	1.31E+00	1.50E+01	3.95E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Manganese-54	-3.76E-01	4.77E-01	1.55E+00	1.50E+01	4.85E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Niobium-95	2.93E-01	6.26E-01	2.08E+00	1.50E+01	6.30E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Niobium-95	5.27E-01	4.03E-01	1.38E+00	1.50E+01	4.21E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Niobium-95	8.31E-02	6.91E-01	2.27E+00	1.50E+01	6.91E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Niobium-95	-9.03E-01	8.23E-01	1.59E+00	1.50E+01	8.50E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Niobium-95	-3.93E-01	3.85E-01	1.19E+00	1.50E+01	3.95E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Niobium-95	2.69E-01	5.50E-01	1.82E+00	1.50E+01	5.53E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Niobium-95	-1.09E+00	1.02E+00	2.03E+00	1.50E+01	1.05E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Niobium-95	1.04E-01	5.39E-01	1.77E+00	1.50E+01	5.40E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Niobium-95	1.30E+00	8.67E-01	1.39E+00	1.50E+01	8.69E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Niobium-95	3.43E-01	6.12E-01	2.00E+00	1.50E+01	6.17E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Niobium-95	4.14E-01	3.84E-01	1.33E+00	1.50E+01	3.96E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Niobium-95	-2.72E-01	4.94E-01	1.63E+00	1.50E+01	4.98E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Potassium-40	1.82E+01	1.67E+01	1.82E+01		1.68E+01	pCi/L	UI
SW-2(505311004) - Surface Water	25-Feb-20	Potassium-40	-2.06E+01	9.13E+00	2.15E+01		1.03E+01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Potassium-40	8.03E+00	1.63E+01	2.25E+01		1.63E+01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Potassium-40	1.49E+01	1.39E+01	1.49E+01		1.39E+01	pCi/L	UI
SW-2(512281004) - Surface Water	26-May-20	Potassium-40	-9.60E+00	7.83E+00	2.03E+01		8.15E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Potassium-40	-1.11E+01	1.04E+01	2.75E+01		1.07E+01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Potassium-40	2.65E+00	1.46E+01	1.90E+01		1.46E+01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Potassium-40	-1.40E+01	1.19E+01	2.46E+01		1.23E+01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Potassium-40	5.92E+00	1.33E+01	1.56E+01		1.33E+01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Potassium-40	-7.47E+00	1.10E+01	2.75E+01		1.11E+01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Potassium-40	-3.26E+00	1.07E+01	2.24E+01		1.07E+01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Potassium-40	1.52E+01	1.36E+01	1.52E+01		1.37E+01	pCi/L	UI
SW-2(502529004) - Surface Water	28-Jan-20	Ruthenium-103	-1.07E+00	6.38E-01	1.95E+00		6.86E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Ruthenium-103	-3.38E-01	4.05E-01	1.34E+00		4.13E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Ruthenium-103	-1.27E+00	6.23E-01	1.94E+00		6.91E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Ruthenium-103	-7.71E-01	4.51E-01	1.42E+00		4.86E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Ruthenium-103	-2.47E-01	4.35E-01	1.43E+00		4.39E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Ruthenium-103	2.45E-01	5.50E-01	1.68E+00		5.53E-01	pCi/L	U

## SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Ruthenium-103	-1.78E-01	6.62E-01	1.87E+00		6.63E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Ruthenium-103	4.39E-01	5.61E-01	1.94E+00		5.71E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Ruthenium-103	4.88E-01	5.09E-01	1.68E+00		5.22E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Ruthenium-103	-6.64E-01	5.74E-01	1.81E+00		5.94E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Ruthenium-103	-2.66E-02	4.19E-01	1.28E+00		4.19E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Ruthenium-103	-3.35E-01	5.12E-01	1.62E+00		5.18E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Ruthenium-106	-1.68E+00	5.98E+00	1.93E+01		5.99E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Ruthenium-106	-5.81E+00	3.97E+00	1.25E+01		4.20E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Ruthenium-106	-6.96E+00	5.33E+00	1.65E+01		5.57E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Ruthenium-106	6.53E+00	4.93E+00	1.24E+01		4.94E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Ruthenium-106	1.87E+00	3.70E+00	1.25E+01		3.73E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Ruthenium-106	-1.87E-01	4.83E+00	1.58E+01		4.83E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Ruthenium-106	1.29E-01	4.71E+00	1.61E+01		4.71E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Ruthenium-106	-2.24E-01	4.93E+00	1.63E+01		4.93E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Ruthenium-106	2.52E-01	4.03E+00	1.37E+01		4.03E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Ruthenium-106	-2.53E-01	4.75E+00	1.53E+01		4.75E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Ruthenium-106	4.55E+00	3.31E+00	1.16E+01		3.48E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Ruthenium-106	8.78E+00	4.44E+00	1.50E+01		4.90E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Selenium-75	6.26E-01	8.22E-01	2.88E+00		8.35E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Selenium-75	3.06E-01	5.42E-01	1.76E+00		5.47E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Selenium-75	-4.51E-01	9.25E-01	2.91E+00		9.31E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Selenium-75	-6.91E-01	5.55E-01	1.86E+00		5.79E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Selenium-75	-4.91E-02	5.52E-01	1.72E+00		5.52E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Selenium-75	-6.15E-01	9.06E-01	2.44E+00		9.18E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Selenium-75	-7.05E-01	6.33E-01	2.06E+00		6.54E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Selenium-75	-4.50E-01	6.78E-01	2.20E+00		6.86E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Selenium-75	-6.48E-02	6.33E-01	2.09E+00		6.33E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Selenium-75	2.21E-01	7.19E-01	2.49E+00		7.21E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Selenium-75	-5.35E-01	5.39E-01	1.67E+00		5.53E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Selenium-75	-3.35E-01	6.19E-01	2.07E+00		6.24E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Silver-108m	-1.01E+00	5.15E-01	1.56E+00		5.67E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Silver-108m	-5.35E-02	3.54E-01	1.20E+00		3.55E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Silver-108m	-5.43E-01	5.75E-01	1.90E+00		5.89E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Silver-108m	-3.41E-01	3.95E-01	1.29E+00		4.03E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Silver-108m	-3.69E-01	3.63E-01	1.19E+00		3.73E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Silver-108m	-1.17E+00	4.65E-01	1.42E+00		5.40E-01	pCi/L	U

SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Silver-108m	3.29E-01	4.59E-01	1.52E+00		4.65E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Silver-108m	1.01E+00	4.65E-01	1.59E+00		5.22E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Silver-108m	-4.60E-01	4.46E-01	1.39E+00		4.59E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Silver-108m	2.91E-02	4.71E-01	1.57E+00		4.71E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Silver-108m	-1.32E-01	3.00E-01	1.01E+00		3.02E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Silver-108m	-1.97E-01	4.15E-01	1.34E+00		4.17E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Silver-110m	-2.54E-01	8.76E-01	2.74E+00		8.78E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Silver-110m	8.41E-01	5.57E-01	1.92E+00		5.91E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Silver-110m	-3.80E-01	8.35E-01	2.61E+00		8.40E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Silver-110m	-2.02E-02	5.41E-01	1.73E+00		5.41E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Silver-110m	-5.56E-01	5.13E-01	1.55E+00		5.29E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Silver-110m	2.32E-01	7.66E-01	2.49E+00		7.68E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Silver-110m	2.66E+00	1.09E+00	2.66E+00		1.27E+00	pCi/L	UI
SW-2(519832004) - Surface Water	25-Aug-20	Silver-110m	7.25E-01	7.46E-01	2.51E+00		7.66E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Silver-110m	6.30E-01	5.71E-01	1.98E+00		5.90E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Silver-110m	3.71E-01	6.46E-01	2.25E+00		6.52E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Silver-110m	5.73E-01	4.82E-01	1.67E+00		5.00E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Silver-110m	-5.01E-01	6.38E-01	2.05E+00		6.49E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Strontium-89	-2.35E-01	3.43E-01	1.21E+00	1.00E+01	5.84E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Strontium-89	-3.19E+00	2.98E-01	1.36E+00	1.00E+01	6.93E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Strontium-89	-6.96E-01	5.47E-01	1.97E+00	1.00E+01	5.96E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Strontium-89	-2.96E-01	5.83E-01	1.98E+00	1.00E+01	7.32E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Strontium-89	-2.52E-01	4.25E-01	1.47E+00	1.00E+01	7.15E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Strontium-89	-1.98E+00	2.91E-01	1.73E+00	1.00E+01	5.49E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Strontium-89	-7.69E-01	6.82E-01	2.41E+00	1.00E+01	8.37E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Strontium-89	-5.98E-01	6.52E-01	2.25E+00	1.00E+01	8.12E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Strontium-89	-2.31E-02	4.92E-01	1.63E+00	1.00E+01	6.37E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Strontium-89	4.73E-01	8.41E-01	2.66E+00	1.00E+01	9.06E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Strontium-89	-3.29E-01	1.13E+00	3.76E+00	1.00E+01	1.21E+00	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Strontium-89	-3.33E-01	6.25E-01	2.14E+00	1.00E+01	6.95E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Strontium-90	2.96E-01	3.62E-01	1.52E+00	2.00E+00	4.86E-01	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Strontium-90	1.71E+00	4.66E-01	1.81E+00	2.00E+00	6.52E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Strontium-90	3.60E-01	1.92E-01	1.89E+00	2.00E+00	5.86E-01	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Strontium-90	3.79E-01	3.51E-01	1.67E+00	2.00E+00	5.34E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Strontium-90	7.77E-01	4.16E-01	1.68E+00	2.00E+00	5.64E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Strontium-90	1.16E+00	3.87E-01	1.72E+00	2.00E+00	6.17E-01	pCi/L	U

SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(517328004) - Surface Water	29-Jul-20	Strontium-90	-1.08E+00	3.83E-01	1.80E+00	2.00E+00	5.21E-01	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Strontium-90	-1.78E-01	3.80E-01	1.84E+00	2.00E+00	5.49E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Strontium-90	2.60E-02	4.00E-01	1.74E+00	2.00E+00	5.29E-01	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Strontium-90	-5.14E-01	2.85E-01	1.47E+00	2.00E+00	4.37E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Strontium-90	7.11E-01	3.90E-01	1.86E+00	2.00E+00	5.97E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Strontium-90	-1.91E+00	2.54E-01	1.31E+00	2.00E+00	3.65E-01	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Thorium-228	3.60E+00	2.45E+00	7.96E+00		2.59E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Thorium-228	1.81E+00	1.88E+00	3.34E+00		1.92E+00	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Thorium-228	2.03E+00	2.64E+00	3.93E+00		2.65E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Thorium-228	-2.07E+00	1.60E+00	3.52E+00		1.67E+00	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Thorium-228	1.98E+00	1.73E+00	2.27E+00		1.73E+00	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Thorium-228	-1.52E+00	1.58E+00	4.14E+00		1.62E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Thorium-228	3.52E+00	2.25E+00	3.52E+00		2.41E+00	pCi/L	UI
SW-2(519832004) - Surface Water	25-Aug-20	Thorium-228	1.38E+00	2.27E+00	3.03E+00		2.27E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Thorium-228	1.76E+00	2.02E+00	3.49E+00		2.07E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Thorium-228	1.11E+00	1.77E+00	4.17E+00		1.79E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Thorium-228	2.12E+00	1.57E+00	2.12E+00		1.58E+00	pCi/L	UI
SW-2(531066004) - Surface Water	29-Dec-20	Thorium-228	1.20E-01	1.26E+00	3.27E+00		1.26E+00	pCi/L	U
SW-2(510616004) - Surface Water	31-Mar-20	Tritium	3.15E+02	1.19E+02	3.54E+02	5.00E+02	1.23E+02	pCi/L	U
SW-2(517031004) - Surface Water	28-Jun-20	Tritium	5.32E+01	1.33E+02	4.33E+02	5.00E+02	1.33E+02	pCi/L	U
SW-2(526481004) - Surface Water	29-Sep-20	Tritium	2.30E+01	1.38E+02	4.50E+02	5.00E+02	1.38E+02	pCi/L	U
SW-2(533264004) - Surface Water	29-Dec-20	Tritium	1.13E+02	1.06E+02	3.38E+02	5.00E+02	1.07E+02	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Zinc-65	-1.39E+00	1.08E+00	3.24E+00	3.00E+01	1.12E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Zinc-65	-5.68E-01	8.11E-01	2.66E+00	3.00E+01	8.21E-01	pCi/L	U
SW-2(508675004) - Surface Water	31-Mar-20	Zinc-65	7.31E-01	1.49E+00	5.17E+00	3.00E+01	1.50E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Zinc-65	5.66E-02	9.28E-01	3.14E+00	3.00E+01	9.28E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Zinc-65	9.69E-01	8.62E-01	2.92E+00	3.00E+01	8.92E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Zinc-65	-1.07E-01	1.23E+00	3.85E+00	3.00E+01	1.23E+00	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Zinc-65	3.56E-01	1.22E+00	3.58E+00	3.00E+01	1.23E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Zinc-65	7.47E-01	1.23E+00	3.70E+00	3.00E+01	1.24E+00	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Zinc-65	3.13E-01	1.02E+00	3.37E+00	3.00E+01	1.02E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Zinc-65	3.58E-01	1.22E+00	3.63E+00	3.00E+01	1.22E+00	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Zinc-65	4.83E-01	7.84E-01	2.61E+00	3.00E+01	7.92E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Zinc-65	2.70E+00	1.80E+00	3.43E+00	3.00E+01	1.80E+00	pCi/L	U
SW-2(502529004) - Surface Water	28-Jan-20	Zirconium-95	-1.58E+00	1.06E+00	3.07E+00	1.50E+01	1.13E+00	pCi/L	U
SW-2(505311004) - Surface Water	25-Feb-20	Zirconium-95	-7.42E-01	6.65E-01	2.06E+00	1.50E+01	6.88E-01	pCi/L	U

## SW-2

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-2(508675004) - Surface Water	31-Mar-20	Zirconium-95	2.81E-01	1.25E+00	4.11E+00	1.50E+01	1.25E+00	pCi/L	U
SW-2(510297004) - Surface Water	28-Apr-20	Zirconium-95	9.78E-02	7.62E-01	2.48E+00	1.50E+01	7.62E-01	pCi/L	U
SW-2(512281004) - Surface Water	26-May-20	Zirconium-95	7.80E-01	6.57E-01	2.28E+00	1.50E+01	6.82E-01	pCi/L	U
SW-2(514808004) - Surface Water	28-Jun-20	Zirconium-95	2.03E-01	8.96E-01	2.63E+00	1.50E+01	8.97E-01	pCi/L	U
SW-2(517328004) - Surface Water	29-Jul-20	Zirconium-95	5.00E-01	1.04E+00	3.56E+00	1.50E+01	1.05E+00	pCi/L	U
SW-2(519832004) - Surface Water	25-Aug-20	Zirconium-95	-1.24E-02	9.89E-01	3.22E+00	1.50E+01	9.89E-01	pCi/L	U
SW-2(522847004) - Surface Water	29-Sep-20	Zirconium-95	-1.07E+00	1.32E+00	2.78E+00	1.50E+01	1.34E+00	pCi/L	U
SW-2(525680004) - Surface Water	27-Oct-20	Zirconium-95	1.44E-01	9.86E-01	3.17E+00	1.50E+01	9.87E-01	pCi/L	U
SW-2(528777004) - Surface Water	24-Nov-20	Zirconium-95	7.76E-01	6.98E-01	2.41E+00	1.50E+01	7.21E-01	pCi/L	U
SW-2(531066004) - Surface Water	29-Dec-20	Zirconium-95	8.32E-02	8.44E-01	2.84E+00	1.50E+01	8.45E-01	pCi/L	U

## SW-3

## Surface Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(502529005) - Surface Water	28-Jan-20	Actinium-228	-4.06E+00	3.17E+00	8.29E+00		3.31E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Actinium-228	7.86E+00	4.07E+00	7.86E+00		6.20E+00	pCi/L	UI
SW-3(508675005) - Surface Water	31-Mar-20	Actinium-228	1.24E+00	4.99E+00	6.08E+00		4.99E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Actinium-228	6.66E+00	6.04E+00	7.97E+00		6.05E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Actinium-228	-2.90E+00	3.04E+00	7.66E+00		3.12E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Actinium-228	-1.72E+00	6.80E+00	1.95E+01		6.81E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Actinium-228	5.25E+00	4.82E+00	8.69E+00		4.98E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Actinium-228	-5.45E+00	3.58E+00	7.46E+00		3.81E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Actinium-228	1.16E+00	5.86E+00	7.38E+00		5.86E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Actinium-228	-4.92E+00	3.75E+00	8.23E+00		3.93E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Actinium-228	-5.97E+00	3.23E+00	6.90E+00		3.52E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Actinium-228	1.20E+00	4.14E+00	7.37E+00		4.15E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Antimony-124	3.25E+00	1.47E+00	5.68E+00		1.66E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Antimony-124	-1.50E+00	1.21E+00	3.64E+00		1.26E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Antimony-124	-4.89E-01	1.29E+00	4.16E+00		1.30E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Antimony-124	-2.80E+00	1.98E+00	5.82E+00		2.09E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Antimony-124	1.48E-01	1.05E+00	3.48E+00		1.05E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Antimony-124	2.05E+00	3.06E+00	1.09E+01		3.10E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Antimony-124	-2.67E-01	1.20E+00	4.01E+00		1.21E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Antimony-124	-1.64E-01	1.31E+00	4.39E+00		1.31E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Antimony-124	-8.76E-01	1.20E+00	3.82E+00		1.22E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Antimony-124	-5.71E-01	1.10E+00	3.53E+00		1.11E+00	pCi/L	U



SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Antimony-124	-3.50E-01	9.61E-01	3.14E+00		9.65E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Antimony-124	1.59E-01	8.87E-01	3.00E+00		8.88E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Antimony-125	-1.38E+00	1.44E+00	4.73E+00		1.48E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Antimony-125	2.31E+00	1.32E+00	4.51E+00		1.43E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Antimony-125	1.33E+00	1.41E+00	4.67E+00		1.45E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Antimony-125	-1.02E-01	1.70E+00	5.78E+00		1.70E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Antimony-125	-9.43E-01	1.32E+00	4.34E+00		1.34E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Antimony-125	1.82E+00	2.89E+00	1.02E+01		2.92E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Antimony-125	6.67E-01	1.36E+00	4.58E+00		1.37E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Antimony-125	-3.07E+00	1.38E+00	4.30E+00		1.56E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Antimony-125	5.16E-01	1.18E+00	3.92E+00		1.19E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Antimony-125	1.21E-01	1.46E+00	4.70E+00		1.46E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Antimony-125	-4.73E-02	1.23E+00	3.94E+00		1.23E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Antimony-125	2.52E+00	2.26E+00	3.99E+00		2.33E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Barium-140	5.64E-02	2.68E+00	8.99E+00	1.50E+01	2.68E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Barium-140	-1.31E+00	2.01E+00	6.31E+00	1.50E+01	2.04E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Barium-140	6.54E-01	2.18E+00	7.47E+00	1.50E+01	2.19E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Barium-140	3.94E+00	2.71E+00	9.61E+00	1.50E+01	2.86E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Barium-140	2.52E+00	2.04E+00	7.10E+00	1.50E+01	2.13E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Barium-140	-5.77E+00	3.87E+00	1.13E+01	1.50E+01	4.10E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Barium-140	1.96E+00	2.55E+00	8.59E+00	1.50E+01	2.59E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Barium-140	-3.56E+00	3.09E+00	9.73E+00	1.50E+01	3.20E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Barium-140	4.71E+00	2.48E+00	8.47E+00	1.50E+01	2.71E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Barium-140	-2.64E+00	2.65E+00	8.08E+00	1.50E+01	2.72E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Barium-140	3.61E-01	2.19E+00	6.99E+00	1.50E+01	2.19E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Barium-140	1.85E+00	3.53E+00	6.44E+00	1.50E+01	3.55E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Beryllium-7	-2.51E+00	4.82E+00	1.59E+01		4.85E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Beryllium-7	8.55E+00	4.28E+00	1.46E+01		4.72E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Beryllium-7	-8.49E+00	6.70E+00	1.41E+01		6.99E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Beryllium-7	-1.93E-01	5.41E+00	1.83E+01		5.41E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Beryllium-7	5.69E-01	4.03E+00	1.35E+01		4.03E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Beryllium-7	-2.11E+01	1.09E+01	2.70E+01		1.20E+01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Beryllium-7	3.88E+00	4.54E+00	1.54E+01		4.63E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Beryllium-7	9.35E+00	4.49E+00	1.59E+01		5.00E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Beryllium-7	1.56E+00	4.01E+00	1.31E+01		4.02E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Beryllium-7	8.59E+00	4.50E+00	1.54E+01		4.93E+00	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Beryllium-7	1.67E+00	3.67E+00	1.19E+01		3.69E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Beryllium-7	3.91E-01	3.82E+00	1.29E+01		3.82E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cerium-141	-5.07E+00	1.38E+00	3.18E+00		1.81E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cerium-141	-2.79E+00	1.23E+00	2.64E+00		1.39E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cerium-141	-1.11E+00	8.91E-01	2.97E+00		9.27E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cerium-141	-3.93E+00	1.64E+00	3.45E+00		1.88E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cerium-141	1.32E+00	9.20E-01	2.83E+00		9.70E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cerium-141	-1.89E+00	1.97E+00	6.31E+00		2.02E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cerium-141	-3.10E+00	1.71E+00	3.39E+00		1.86E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cerium-141	4.87E-01	2.05E+00	2.78E+00		2.05E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cerium-141	-1.73E+00	8.87E-01	2.70E+00		9.75E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cerium-141	-1.38E+00	1.40E+00	3.02E+00		1.43E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Cerium-141	2.43E-01	1.63E+00	2.49E+00		1.63E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cerium-141	1.75E-01	8.94E-01	2.87E+00		8.95E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cerium-144	3.64E+00	3.67E+00	1.26E+01		3.77E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cerium-144	1.96E+00	3.31E+00	1.13E+01		3.34E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cerium-144	-2.31E+00	3.46E+00	1.17E+01		3.50E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cerium-144	-3.17E+00	4.25E+00	1.39E+01		4.32E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cerium-144	5.71E+00	5.06E+00	1.07E+01		5.06E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cerium-144	8.86E+00	7.56E+00	2.61E+01		7.84E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cerium-144	2.16E+00	3.58E+00	1.23E+01		3.62E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cerium-144	7.04E+00	3.37E+00	1.14E+01		3.75E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cerium-144	3.59E+00	2.94E+00	9.58E+00		3.06E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cerium-144	3.05E+00	3.56E+00	1.23E+01		3.63E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Cerium-144	-1.42E+01	4.56E+00	9.35E+00		5.65E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cerium-144	2.88E+00	3.24E+00	1.06E+01		3.31E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cesium-134	-3.75E-01	7.91E-01	2.21E+00	1.50E+01	7.96E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cesium-134	3.54E-01	4.79E-01	1.67E+00	1.50E+01	4.86E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cesium-134	1.59E+00	5.64E-01	2.06E+00	1.50E+01	6.75E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cesium-134	5.28E-01	7.81E-01	2.63E+00	1.50E+01	7.91E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cesium-134	1.79E-01	5.14E-01	1.68E+00	1.50E+01	5.15E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cesium-134	-1.67E-01	1.18E+00	3.77E+00	1.50E+01	1.18E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cesium-134	-4.96E-01	5.54E-01	1.72E+00	1.50E+01	5.66E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cesium-134	1.53E-01	6.63E-01	1.89E+00	1.50E+01	6.64E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cesium-134	9.81E-01	4.88E-01	1.75E+00	1.50E+01	5.39E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cesium-134	-6.64E-01	5.77E-01	1.83E+00	1.50E+01	5.98E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Cesium-134	1.18E+00	4.65E-01	1.68E+00	1.50E+01	5.41E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cesium-134	2.71E-01	4.51E-01	1.51E+00	1.50E+01	4.55E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cesium-137	1.09E+00	1.43E+00	2.11E+00	1.80E+01	1.43E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cesium-137	-5.48E-02	5.25E-01	1.66E+00	1.80E+01	5.25E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cesium-137	6.99E-01	5.62E-01	1.96E+00	1.80E+01	5.85E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cesium-137	-1.87E-01	7.21E-01	2.36E+00	1.80E+01	7.23E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cesium-137	1.82E-01	4.78E-01	1.43E+00	1.80E+01	4.80E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cesium-137	1.81E-02	1.08E+00	3.57E+00	1.80E+01	1.08E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cesium-137	6.74E-01	5.61E-01	1.91E+00	1.80E+01	5.83E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cesium-137	-8.10E-01	5.58E-01	1.69E+00	1.80E+01	5.89E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cesium-137	3.31E-01	4.45E-01	1.54E+00	1.80E+01	4.52E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cesium-137	1.17E+00	5.68E-01	2.04E+00	1.80E+01	6.30E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Cesium-137	-4.66E-01	7.04E-01	1.54E+00	1.80E+01	7.13E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cesium-137	2.90E-01	4.60E-01	1.55E+00	1.80E+01	4.65E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Chromium-51	1.13E+01	5.46E+00	1.87E+01		6.08E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Chromium-51	-3.01E+00	4.19E+00	1.35E+01		4.25E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Chromium-51	-6.75E+00	4.72E+00	1.49E+01		4.97E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Chromium-51	4.83E+00	5.90E+00	1.91E+01		6.01E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Chromium-51	-5.84E+00	4.40E+00	1.45E+01		4.61E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Chromium-51	9.57E+00	9.86E+00	3.28E+01		1.01E+01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Chromium-51	9.74E-01	5.00E+00	1.68E+01		5.01E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Chromium-51	-1.18E+01	4.94E+00	1.58E+01		5.66E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Chromium-51	-1.08E+00	4.28E+00	1.42E+01		4.29E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Chromium-51	2.92E+00	4.75E+00	1.58E+01		4.80E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Chromium-51	-1.97E+00	4.12E+00	1.33E+01		4.14E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Chromium-51	-1.34E+01	6.30E+00	1.42E+01		7.03E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cobalt-57	-1.52E-01	5.02E-01	1.54E+00		5.03E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cobalt-57	-2.37E-01	4.35E-01	1.46E+00		4.38E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cobalt-57	-3.74E-01	4.65E-01	1.57E+00		4.73E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cobalt-57	4.25E-01	5.50E-01	1.86E+00		5.59E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cobalt-57	2.53E-01	4.37E-01	1.43E+00		4.41E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cobalt-57	-4.56E-01	9.29E-01	3.06E+00		9.36E-01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cobalt-57	4.95E-03	4.88E-01	1.66E+00		4.88E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cobalt-57	1.87E-01	4.33E-01	1.43E+00		4.36E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cobalt-57	-5.17E-01	5.48E-01	1.28E+00		5.61E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cobalt-57	-2.05E-01	4.44E-01	1.50E+00		4.47E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Cobalt-57	7.46E-01	8.31E-01	1.28E+00		8.32E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cobalt-57	-1.47E-01	4.17E-01	1.34E+00		4.19E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cobalt-58	-1.02E+00	5.46E-01	1.54E+00	1.50E+01	5.96E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cobalt-58	-7.98E-01	4.72E-01	1.50E+00	1.50E+01	5.08E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cobalt-58	-8.58E-01	4.94E-01	1.51E+00	1.50E+01	5.33E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cobalt-58	-7.75E-01	7.53E-01	2.02E+00	1.50E+01	7.75E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cobalt-58	2.29E-01	4.46E-01	1.47E+00	1.50E+01	4.49E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cobalt-58	-3.23E-01	9.98E-01	3.13E+00	1.50E+01	1.00E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cobalt-58	-3.29E-01	5.43E-01	1.71E+00	1.50E+01	5.49E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cobalt-58	4.85E-01	5.69E-01	1.87E+00	1.50E+01	5.81E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Cobalt-58	-9.02E-01	5.41E-01	1.45E+00	1.50E+01	5.80E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cobalt-58	-9.04E-01	5.31E-01	1.64E+00	1.50E+01	5.71E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Cobalt-58	4.49E-01	4.18E-01	1.44E+00	1.50E+01	4.31E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cobalt-58	-1.41E-01	4.11E-01	1.32E+00	1.50E+01	4.12E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Cobalt-60	1.09E+00	6.29E-01	2.35E+00	1.50E+01	6.79E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Cobalt-60	-5.75E-01	5.14E-01	1.59E+00	1.50E+01	5.31E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Cobalt-60	3.06E-01	5.80E-01	1.99E+00	1.50E+01	5.84E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Cobalt-60	2.28E-01	7.25E-01	2.48E+00	1.50E+01	7.27E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Cobalt-60	6.45E-01	4.55E-01	1.65E+00	1.50E+01	4.80E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Cobalt-60	1.40E-01	1.18E+00	3.99E+00	1.50E+01	1.18E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Cobalt-60	1.92E+00	1.06E+00	2.35E+00	1.50E+01	1.16E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Cobalt-60	2.17E+00	8.63E-01	2.17E+00	1.50E+01	1.09E+00	pCi/L	UI
SW-3(522847005) - Surface Water	29-Sep-20	Cobalt-60	-1.89E-01	4.88E-01	1.62E+00	1.50E+01	4.90E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Cobalt-60	7.71E-01	5.68E-01	1.97E+00	1.50E+01	5.96E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Cobalt-60	-7.05E-02	4.58E-01	1.46E+00	1.50E+01	4.58E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Cobalt-60	-5.31E-01	5.83E-01	1.56E+00	1.50E+01	5.96E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Iodine-131	9.62E-02	1.06E+00	3.33E+00		1.06E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Iodine-131	-2.12E-01	5.81E-01	1.88E+00		5.83E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Iodine-131	1.60E-01	7.92E-01	2.58E+00		7.93E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Iodine-131	-2.62E-01	9.34E-01	2.88E+00		9.36E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Iodine-131	-1.03E-01	7.97E-01	2.69E+00		7.97E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Iodine-131	-1.30E+00	1.58E+00	4.65E+00		1.61E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Iodine-131	1.27E+00	1.03E+00	3.39E+00		1.07E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Iodine-131	2.69E+00	1.10E+00	3.95E+00		1.27E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Iodine-131	4.62E-01	9.00E-01	3.01E+00		9.06E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Iodine-131	7.73E-01	9.21E-01	3.07E+00		9.39E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Iodine-131	3.39E-01	8.57E-01	2.81E+00		8.60E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Iodine-131	-2.21E-01	7.42E-01	2.51E+00		7.44E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Iron-59	1.72E+00	1.06E+00	3.98E+00	3.00E+01	1.14E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Iron-59	7.34E-02	9.66E-01	3.23E+00	3.00E+01	9.66E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Iron-59	-1.89E-01	1.09E+00	3.50E+00	3.00E+01	1.10E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Iron-59	-2.88E-01	1.31E+00	4.41E+00	3.00E+01	1.32E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Iron-59	-1.37E+00	9.12E-01	2.84E+00	3.00E+01	9.68E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Iron-59	-8.13E-01	2.70E+00	7.76E+00	3.00E+01	2.71E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Iron-59	1.19E+00	1.13E+00	3.79E+00	3.00E+01	1.16E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Iron-59	4.68E-02	1.34E+00	3.92E+00	3.00E+01	1.34E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Iron-59	1.19E-01	9.96E-01	3.26E+00	3.00E+01	9.97E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Iron-59	-6.75E-01	1.10E+00	3.49E+00	3.00E+01	1.12E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Iron-59	-7.88E-01	8.51E-01	2.66E+00	3.00E+01	8.72E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Iron-59	-1.55E+00	8.97E-01	2.59E+00	3.00E+01	9.69E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Lanthanum-140	6.24E-01	8.70E-01	3.04E+00	1.50E+01	8.83E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Lanthanum-140	6.54E-01	9.15E-01	2.48E+00	1.50E+01	9.28E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Lanthanum-140	-4.27E-01	8.47E-01	2.73E+00	1.50E+01	8.53E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Lanthanum-140	-1.83E+00	9.39E-01	2.57E+00	1.50E+01	1.03E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Lanthanum-140	-9.85E-01	7.83E-01	2.35E+00	1.50E+01	8.16E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Lanthanum-140	-1.16E+00	1.45E+00	4.16E+00	1.50E+01	1.47E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Lanthanum-140	1.62E-01	8.95E-01	3.06E+00	1.50E+01	8.96E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Lanthanum-140	4.31E-01	1.10E+00	3.63E+00	1.50E+01	1.11E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Lanthanum-140	2.71E+00	3.11E+00	2.71E+00	1.50E+01	3.22E+00	pCi/L	UI
SW-3(525680005) - Surface Water	27-Oct-20	Lanthanum-140	-1.53E-02	9.84E-01	2.87E+00	1.50E+01	9.84E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Lanthanum-140	3.00E-01	7.55E-01	2.58E+00	1.50E+01	7.58E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Lanthanum-140	3.24E-01	6.63E-01	2.29E+00	1.50E+01	6.68E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Manganese-54	-8.11E-01	6.23E-01	1.86E+00	1.50E+01	6.51E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Manganese-54	6.44E-01	4.59E-01	1.63E+00	1.50E+01	4.83E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Manganese-54	3.06E-02	5.15E-01	1.70E+00	1.50E+01	5.15E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Manganese-54	9.61E-01	6.81E-01	2.36E+00	1.50E+01	7.17E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Manganese-54	-4.98E-01	4.66E-01	1.41E+00	1.50E+01	4.80E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Manganese-54	-1.67E+00	1.36E+00	3.32E+00	1.50E+01	1.42E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Manganese-54	4.38E-01	5.10E-01	1.71E+00	1.50E+01	5.21E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Manganese-54	1.26E-01	5.60E-01	1.92E+00	1.50E+01	5.60E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Manganese-54	-3.90E-01	4.63E-01	1.50E+00	1.50E+01	4.72E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Manganese-54	1.12E-01	5.21E-01	1.74E+00	1.50E+01	5.21E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Manganese-54	-5.66E-01	4.17E-01	1.32E+00	1.50E+01	4.37E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Manganese-54	-1.16E-02	4.28E-01	1.39E+00	1.50E+01	4.28E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Niobium-95	5.16E-01	5.78E-01	1.98E+00	1.50E+01	5.91E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Niobium-95	6.26E-01	4.89E-01	1.72E+00	1.50E+01	5.10E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Niobium-95	-2.61E-01	5.24E-01	1.70E+00	1.50E+01	5.27E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Niobium-95	-1.88E-01	6.98E-01	2.25E+00	1.50E+01	7.00E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Niobium-95	1.60E-01	7.91E-01	1.81E+00	1.50E+01	7.92E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Niobium-95	4.36E-01	1.19E+00	3.99E+00	1.50E+01	1.19E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Niobium-95	-7.03E-02	5.44E-01	1.76E+00	1.50E+01	5.44E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Niobium-95	-2.73E-01	8.99E-01	1.73E+00	1.50E+01	9.01E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Niobium-95	-7.91E-01	5.01E-01	1.59E+00	1.50E+01	5.34E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Niobium-95	-2.64E-01	5.43E-01	1.78E+00	1.50E+01	5.47E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Niobium-95	2.47E-01	4.35E-01	1.48E+00	1.50E+01	4.39E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Niobium-95	6.36E-02	4.35E-01	1.43E+00	1.50E+01	4.35E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Potassium-40	-8.43E+00	1.09E+01	2.96E+01		1.10E+01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Potassium-40	3.80E+00	1.44E+01	1.48E+01		1.44E+01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Potassium-40	1.23E+01	1.36E+01	1.77E+01		1.36E+01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Potassium-40	2.21E+01	1.81E+01	2.34E+01		1.81E+01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Potassium-40	-4.82E+00	9.63E+00	2.35E+01		9.70E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Potassium-40	3.05E+01	2.43E+01	4.44E+01		2.43E+01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Potassium-40	2.56E+01	1.27E+01	1.66E+01		1.27E+01	pCi/L	
SW-3(519832005) - Surface Water	25-Aug-20	Potassium-40	5.63E+00	1.31E+01	2.06E+01		1.31E+01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Potassium-40	5.35E+00	9.94E+00	1.55E+01		9.94E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Potassium-40	3.65E+01	1.36E+01	1.89E+01		1.37E+01	pCi/L	
SW-3(528777005) - Surface Water	24-Nov-20	Potassium-40	3.40E+00	1.10E+01	1.35E+01		1.11E+01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Potassium-40	-9.50E+00	9.76E+00	2.40E+01		1.00E+01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Ruthenium-103	-8.46E-01	6.32E-01	2.02E+00		6.62E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Ruthenium-103	-1.21E+00	5.40E-01	1.52E+00		6.09E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Ruthenium-103	-3.22E-01	5.91E-01	1.84E+00		5.96E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Ruthenium-103	-8.47E-01	7.08E-01	2.02E+00		7.36E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Ruthenium-103	-6.84E-01	5.08E-01	1.61E+00		5.33E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Ruthenium-103	-1.18E+00	1.24E+00	3.46E+00		1.27E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Ruthenium-103	-5.08E-01	5.62E-01	1.58E+00		5.74E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Ruthenium-103	-8.82E-01	5.76E-01	1.81E+00		6.12E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Ruthenium-103	9.79E-02	5.48E-01	1.59E+00		5.49E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Ruthenium-103	-1.14E+00	6.05E-01	1.81E+00		6.62E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Ruthenium-103	-4.62E-03	5.17E-01	1.47E+00		5.17E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Ruthenium-103	-7.05E-01	4.40E-01	1.40E+00		4.70E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Ruthenium-106	8.49E-01	4.93E+00	1.65E+01		4.94E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Ruthenium-106	8.40E+00	4.33E+00	1.48E+01		4.76E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Ruthenium-106	-6.32E+00	4.81E+00	1.55E+01		5.04E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Ruthenium-106	-4.15E+00	6.06E+00	1.95E+01		6.13E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Ruthenium-106	-4.36E+00	4.33E+00	1.19E+01		4.45E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Ruthenium-106	9.07E+00	9.47E+00	3.38E+01		9.70E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Ruthenium-106	-3.28E+00	4.55E+00	1.45E+01		4.62E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Ruthenium-106	-9.94E+00	4.81E+00	1.43E+01		5.35E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Ruthenium-106	1.59E+01	4.44E+00	1.59E+01		5.95E+00	pCi/L	UI
SW-3(525680005) - Surface Water	27-Oct-20	Ruthenium-106	3.97E+00	4.67E+00	1.62E+01		4.77E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Ruthenium-106	1.12E+00	3.95E+00	1.35E+01		3.96E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Ruthenium-106	8.81E+00	7.06E+00	1.24E+01		7.07E+00	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Selenium-75	-1.08E+00	8.24E-01	2.50E+00		8.62E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Selenium-75	6.14E-01	6.36E-01	2.14E+00		6.52E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Selenium-75	1.09E-01	6.98E-01	2.32E+00		6.99E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Selenium-75	-4.39E-01	9.17E-01	2.89E+00		9.23E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Selenium-75	9.62E-01	6.25E-01	2.23E+00		6.65E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Selenium-75	-2.13E-03	1.52E+00	4.84E+00		1.52E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Selenium-75	7.51E-01	7.54E-01	2.58E+00		7.75E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Selenium-75	-8.80E-01	7.09E-01	2.12E+00		7.38E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Selenium-75	6.91E-01	5.96E-01	2.06E+00		6.17E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Selenium-75	-1.72E-01	7.35E-01	2.41E+00		7.36E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Selenium-75	1.80E-01	5.84E-01	1.94E+00		5.86E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Selenium-75	-1.24E+00	6.96E-01	2.07E+00		7.54E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Silver-108m	-4.06E-01	5.15E-01	1.70E+00		5.24E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Silver-108m	3.05E-01	4.47E-01	1.48E+00		4.53E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Silver-108m	1.91E-01	4.75E-01	1.54E+00		4.78E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Silver-108m	-2.49E-01	5.78E-01	1.94E+00		5.81E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Silver-108m	-5.14E-01	4.01E-01	1.28E+00		4.19E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Silver-108m	-2.85E-01	9.99E-01	3.35E+00		1.00E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Silver-108m	-1.08E-01	4.33E-01	1.42E+00		4.33E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Silver-108m	-2.77E-01	4.83E-01	1.58E+00		4.87E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Silver-108m	-5.95E-02	3.94E-01	1.28E+00		3.94E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Silver-108m	8.63E-01	4.56E-01	1.56E+00		4.99E-01	pCi/L	U

SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Silver-108m	3.00E-01	3.95E-01	1.30E+00		4.01E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Silver-108m	4.20E-01	4.15E-01	1.44E+00		4.27E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Silver-110m	-1.45E+00	7.89E-01	2.21E+00		8.59E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Silver-110m	-5.24E-01	6.38E-01	2.08E+00		6.49E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Silver-110m	-1.69E-01	7.90E-01	2.24E+00		7.91E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Silver-110m	8.30E-01	9.03E-01	3.07E+00		9.24E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Silver-110m	2.42E-01	6.47E-01	2.11E+00		6.49E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Silver-110m	-1.93E+00	1.65E+00	4.69E+00		1.71E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Silver-110m	-5.32E-02	7.51E-01	2.15E+00		7.52E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Silver-110m	-1.10E-01	7.14E-01	2.40E+00		7.15E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Silver-110m	8.87E-01	6.38E-01	2.22E+00		6.71E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Silver-110m	-1.60E-01	7.01E-01	2.30E+00		7.02E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Silver-110m	5.43E-01	5.77E-01	1.97E+00		5.91E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Silver-110m	-3.74E-01	5.78E-01	1.82E+00		5.85E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Strontium-89	-1.65E+00	3.27E-01	1.56E+00	1.00E+01	6.10E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Strontium-89	-2.71E-01	4.84E-01	1.66E+00	1.00E+01	7.15E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Strontium-89	-5.81E-01	5.84E-01	2.05E+00	1.00E+01	7.05E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Strontium-89	-9.95E-01	4.30E-01	1.71E+00	1.00E+01	5.93E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Strontium-89	-7.42E-01	5.75E-01	2.06E+00	1.00E+01	8.11E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Strontium-89	5.10E-02	5.29E-01	1.73E+00	1.00E+01	6.81E-01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Strontium-89	-6.99E-01	7.36E-01	2.56E+00	1.00E+01	8.27E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Strontium-89	-5.54E-01	4.40E-01	1.59E+00	1.00E+01	6.40E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Strontium-89	1.00E+00	5.75E-01	1.69E+00	1.00E+01	6.69E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Strontium-89	9.06E-03	4.91E-01	1.61E+00	1.00E+01	5.92E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Strontium-89	-8.95E-01	4.80E-01	1.84E+00	1.00E+01	6.31E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Strontium-89	-1.25E+00	3.89E-01	1.65E+00	1.00E+01	4.75E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Strontium-90	8.22E-01	3.80E-01	1.48E+00	2.00E+00	5.15E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Strontium-90	1.66E-01	4.02E-01	1.76E+00	2.00E+00	5.45E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Strontium-90	2.35E-01	3.42E-01	1.64E+00	2.00E+00	5.02E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Strontium-90	-2.13E-01	3.20E-01	1.66E+00	2.00E+00	4.85E-01	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Strontium-90	8.75E-01	4.15E-01	1.65E+00	2.00E+00	5.64E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Strontium-90	-4.02E-01	3.23E-01	1.83E+00	2.00E+00	5.37E-01	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Strontium-90	-8.06E-01	2.92E-01	1.49E+00	2.00E+00	3.91E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Strontium-90	4.73E-01	3.92E-01	1.79E+00	2.00E+00	5.68E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Strontium-90	-9.32E-01	3.39E-01	1.69E+00	2.00E+00	4.48E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Strontium-90	3.16E-01	2.19E-01	1.58E+00	2.00E+00	5.03E-01	pCi/L	U



SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(528777005) - Surface Water	24-Nov-20	Strontium-90	-1.92E-01	3.71E-01	1.88E+00	2.00E+00	5.65E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Strontium-90	2.87E-01	2.08E-01	9.71E-01	2.00E+00	3.01E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Thorium-228	6.47E-02	2.27E+00	3.73E+00		2.27E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Thorium-228	-4.34E+00	1.98E+00	3.54E+00		2.23E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Thorium-228	2.44E+00	2.13E+00	4.19E+00		2.20E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Thorium-228	5.91E-01	2.71E+00	5.08E+00		2.71E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Thorium-228	1.00E+00	1.81E+00	3.90E+00		1.83E+00	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Thorium-228	4.26E+00	3.66E+00	6.36E+00		3.66E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Thorium-228	-8.20E-01	1.61E+00	4.05E+00		1.62E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Thorium-228	1.92E+00	1.72E+00	3.86E+00		1.78E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Thorium-228	2.26E+00	2.01E+00	3.34E+00		2.08E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Thorium-228	5.35E-01	2.06E+00	3.85E+00		2.07E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Thorium-228	-2.04E+00	1.47E+00	3.10E+00		1.54E+00	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Thorium-228	-1.09E+00	1.37E+00	3.27E+00		1.39E+00	pCi/L	U
SW-3(510616005) - Surface Water	31-Mar-20	Tritium	2.19E+02	1.18E+02	3.63E+02	5.00E+02	1.20E+02	pCi/L	U
SW-3(517031005) - Surface Water	28-Jun-20	Tritium	-1.15E+02	1.38E+02	4.66E+02	5.00E+02	1.38E+02	pCi/L	U
SW-3(526481005) - Surface Water	29-Sep-20	Tritium	-1.29E+02	1.29E+02	4.43E+02	5.00E+02	1.29E+02	pCi/L	U
SW-3(533264005) - Surface Water	29-Dec-20	Tritium	5.16E+01	1.04E+02	3.37E+02	5.00E+02	1.04E+02	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Zinc-65	-1.28E+00	1.11E+00	3.29E+00	3.00E+01	1.15E+00	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Zinc-65	1.39E+00	1.04E+00	3.65E+00	3.00E+01	1.09E+00	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Zinc-65	-2.64E+00	1.11E+00	3.13E+00	3.00E+01	1.27E+00	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Zinc-65	6.13E-01	1.22E+00	4.28E+00	3.00E+01	1.23E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Zinc-65	4.80E-01	9.14E-01	3.17E+00	3.00E+01	9.21E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Zinc-65	2.97E+00	2.47E+00	8.62E+00	3.00E+01	2.56E+00	pCi/L	U
SW-3(517328005) - Surface Water	29-Jul-20	Zinc-65	-9.66E-01	1.29E+00	3.48E+00	3.00E+01	1.31E+00	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Zinc-65	-1.94E+00	1.13E+00	3.42E+00	3.00E+01	1.22E+00	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Zinc-65	1.95E+00	1.09E+00	3.43E+00	3.00E+01	1.18E+00	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Zinc-65	5.00E-01	1.16E+00	3.40E+00	3.00E+01	1.16E+00	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Zinc-65	1.30E+00	9.07E-01	2.83E+00	3.00E+01	9.56E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Zinc-65	6.56E-01	9.00E-01	2.70E+00	3.00E+01	9.13E-01	pCi/L	U
SW-3(502529005) - Surface Water	28-Jan-20	Zirconium-95	-9.75E-02	9.57E-01	3.11E+00	1.50E+01	9.57E-01	pCi/L	U
SW-3(505311005) - Surface Water	25-Feb-20	Zirconium-95	4.75E-01	7.54E-01	2.62E+00	1.50E+01	7.62E-01	pCi/L	U
SW-3(508675005) - Surface Water	31-Mar-20	Zirconium-95	8.47E-01	9.63E-01	3.30E+00	1.50E+01	9.83E-01	pCi/L	U
SW-3(510297005) - Surface Water	28-Apr-20	Zirconium-95	-2.70E-01	1.56E+00	3.74E+00	1.50E+01	1.56E+00	pCi/L	U
SW-3(512281005) - Surface Water	26-May-20	Zirconium-95	1.09E+00	8.71E-01	2.98E+00	1.50E+01	9.08E-01	pCi/L	U
SW-3(514808005) - Surface Water	28-Jun-20	Zirconium-95	3.35E+00	2.23E+00	8.13E+00	1.50E+01	2.37E+00	pCi/L	U

## SW-3

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3(517328005) - Surface Water	29-Jul-20	Zirconium-95	7.13E-01	9.23E-01	3.10E+00	1.50E+01	9.38E-01	pCi/L	U
SW-3(519832005) - Surface Water	25-Aug-20	Zirconium-95	6.97E-01	9.31E-01	3.07E+00	1.50E+01	9.45E-01	pCi/L	U
SW-3(522847005) - Surface Water	29-Sep-20	Zirconium-95	-1.10E+00	8.17E-01	2.61E+00	1.50E+01	8.57E-01	pCi/L	U
SW-3(525680005) - Surface Water	27-Oct-20	Zirconium-95	-1.04E-01	8.84E-01	2.94E+00	1.50E+01	8.85E-01	pCi/L	U
SW-3(528777005) - Surface Water	24-Nov-20	Zirconium-95	-9.77E-01	7.71E-01	2.47E+00	1.50E+01	8.04E-01	pCi/L	U
SW-3(531066005) - Surface Water	29-Dec-20	Zirconium-95	-4.10E-01	7.29E-01	2.33E+00	1.50E+01	7.36E-01	pCi/L	U

## SW-3QC

## Surface Water

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(502529006) - Surface Water	28-Jan-20	Actinium-228	1.69E-01	3.75E+00	9.28E+00		3.75E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Actinium-228	-4.86E+00	2.94E+00	6.81E+00		3.15E+00	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Actinium-228	2.96E+00	3.30E+00	7.03E+00		3.37E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Actinium-228	-1.11E+00	3.99E+00	8.42E+00		4.00E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Actinium-228	-1.38E+00	4.55E+00	9.65E+00		4.56E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Actinium-228	-1.03E+01	3.57E+00	8.06E+00		4.31E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Actinium-228	4.32E+00	2.15E+00	7.50E+00		2.38E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Actinium-228	-2.73E+00	3.44E+00	7.63E+00		3.50E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Actinium-228	-5.59E+00	3.59E+00	7.83E+00		3.82E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Actinium-228	2.90E+00	3.68E+00	7.19E+00		3.74E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Actinium-228	-4.28E+00	3.08E+00	6.78E+00		3.24E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Actinium-228	-4.17E+00	2.60E+00	5.34E+00		2.78E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Antimony-124	-7.20E-01	1.44E+00	4.40E+00		1.45E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Antimony-124	7.79E-01	9.23E-01	3.27E+00		9.41E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Antimony-124	4.46E-01	1.03E+00	3.41E+00		1.04E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Antimony-124	-3.21E-01	1.23E+00	4.05E+00		1.24E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Antimony-124	3.12E-01	1.43E+00	4.86E+00		1.44E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Antimony-124	1.28E+00	1.22E+00	4.33E+00		1.26E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Antimony-124	-9.89E-01	1.33E+00	4.14E+00		1.35E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Antimony-124	-3.96E-01	1.27E+00	4.06E+00		1.28E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Antimony-124	-1.61E+00	2.33E+00	4.31E+00		2.36E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Antimony-124	-7.98E-01	1.16E+00	3.56E+00		1.17E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Antimony-124	5.59E-01	9.26E-01	3.20E+00		9.35E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Antimony-124	2.44E+00	1.01E+00	3.76E+00		1.16E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Antimony-125	-2.54E+00	1.53E+00	4.69E+00		1.64E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Antimony-125	1.52E+00	1.57E+00	3.89E+00		1.61E+00	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Antimony-125	-6.05E-01	1.18E+00	3.90E+00		1.19E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Antimony-125	-4.75E+00	2.47E+00	4.31E+00		2.71E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Antimony-125	1.51E+00	1.48E+00	4.99E+00		1.52E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Antimony-125	1.79E-01	1.33E+00	4.47E+00		1.33E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Antimony-125	-5.45E-01	1.40E+00	4.66E+00		1.41E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Antimony-125	-2.90E+00	1.78E+00	4.37E+00		1.90E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Antimony-125	-1.01E+00	1.50E+00	4.69E+00		1.52E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Antimony-125	2.49E-01	1.27E+00	4.30E+00		1.27E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Antimony-125	-3.27E-01	1.09E+00	3.65E+00		1.09E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Antimony-125	1.80E-01	1.01E+00	3.28E+00		1.02E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Barium-140	-1.46E+00	2.94E+00	9.36E+00	1.50E+01	2.96E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Barium-140	-2.63E+00	1.71E+00	5.28E+00	1.50E+01	1.82E+00	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Barium-140	5.20E+00	2.63E+00	6.63E+00	1.50E+01	2.89E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Barium-140	-8.55E-01	2.48E+00	6.91E+00	1.50E+01	2.48E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Barium-140	-3.58E+00	3.22E+00	9.84E+00	1.50E+01	3.33E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Barium-140	-3.39E+00	2.15E+00	6.57E+00	1.50E+01	2.29E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Barium-140	8.65E-01	2.65E+00	8.89E+00	1.50E+01	2.66E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Barium-140	-1.84E+00	2.94E+00	9.11E+00	1.50E+01	2.97E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Barium-140	3.73E+00	3.07E+00	1.02E+01	1.50E+01	3.19E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Barium-140	-2.62E+00	2.25E+00	7.10E+00	1.50E+01	2.33E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Barium-140	-1.53E+00	1.99E+00	6.48E+00	1.50E+01	2.02E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Barium-140	-3.80E+00	6.19E+00	1.93E+01	1.50E+01	6.25E+00	pCi/L	DLU
SW-3QC(502529006) - Surface Water	28-Jan-20	Beryllium-7	2.63E+00	4.94E+00	1.66E+01		4.97E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Beryllium-7	8.94E-01	3.58E+00	1.19E+01		3.59E+00	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Beryllium-7	-2.64E+00	3.35E+00	1.09E+01		3.41E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Beryllium-7	-1.38E+00	4.52E+00	1.44E+01		4.53E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Beryllium-7	4.69E+00	4.96E+00	1.66E+01		5.08E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Beryllium-7	2.56E+00	4.26E+00	1.45E+01		4.30E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Beryllium-7	2.51E+00	4.33E+00	1.47E+01		4.37E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Beryllium-7	-3.16E+00	4.53E+00	1.41E+01		4.59E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Beryllium-7	-4.68E+00	4.89E+00	1.51E+01		5.01E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Beryllium-7	-1.04E+00	4.02E+00	1.33E+01		4.03E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Beryllium-7	-5.43E+00	3.45E+00	1.11E+01		3.67E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Beryllium-7	1.02E+00	4.34E+00	1.40E+01		4.35E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cerium-141	6.90E-01	1.47E+00	3.08E+00		1.47E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cerium-141	1.26E+00	8.16E-01	2.50E+00		8.68E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Cerium-141	-6.86E-01	8.05E-01	2.36E+00		8.20E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cerium-141	-9.50E-01	7.23E-01	2.43E+00		7.56E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cerium-141	1.28E+00	9.03E-01	2.90E+00		9.51E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cerium-141	1.62E+00	8.86E-01	2.62E+00		8.88E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cerium-141	-1.87E+00	1.04E+00	3.22E+00		1.13E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cerium-141	-7.22E-01	9.74E-01	3.18E+00		9.88E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cerium-141	-3.66E+00	1.63E+00	3.62E+00		1.84E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cerium-141	-1.82E+00	8.88E-01	2.73E+00		9.84E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cerium-141	-1.12E+00	8.40E-01	2.62E+00		8.80E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cerium-141	1.70E+00	1.12E+00	3.51E+00		1.19E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cerium-144	9.76E+00	6.86E+00	1.26E+01		6.87E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cerium-144	3.28E+00	3.08E+00	1.01E+01		3.18E+00	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Cerium-144	-1.25E+00	2.79E+00	9.02E+00		2.81E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cerium-144	-2.18E+00	3.11E+00	9.51E+00		3.15E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cerium-144	-5.52E+00	3.37E+00	1.01E+01		3.61E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cerium-144	-1.47E+00	3.65E+00	1.15E+01		3.67E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cerium-144	-2.06E+00	3.76E+00	1.19E+01		3.79E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cerium-144	-1.76E+00	3.62E+00	1.19E+01		3.64E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cerium-144	1.01E+00	3.88E+00	1.29E+01		3.88E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cerium-144	-1.57E-01	3.14E+00	1.02E+01		3.14E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cerium-144	3.47E+00	3.04E+00	9.97E+00		3.15E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cerium-144	8.94E-02	2.66E+00	8.64E+00		2.66E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cesium-134	7.76E-01	7.21E-01	2.08E+00	1.50E+01	7.43E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cesium-134	4.36E-01	4.17E-01	1.48E+00	1.50E+01	4.29E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Cesium-134	9.17E-01	4.91E-01	1.69E+00	1.50E+01	5.35E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cesium-134	1.83E-01	6.64E-01	2.25E+00	1.50E+01	6.65E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cesium-134	7.00E-01	7.11E-01	2.33E+00	1.50E+01	7.29E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cesium-134	9.38E-01	6.06E-01	2.11E+00	1.50E+01	6.45E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cesium-134	-1.95E-01	5.57E-01	1.77E+00	1.50E+01	5.59E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cesium-134	8.75E-01	5.39E-01	1.92E+00	1.50E+01	5.76E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cesium-134	-2.21E-02	6.08E-01	2.04E+00	1.50E+01	6.08E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cesium-134	-6.77E-02	5.24E-01	1.68E+00	1.50E+01	5.25E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cesium-134	1.23E+00	8.14E-01	1.42E+00	1.50E+01	8.64E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cesium-134	-6.03E-01	8.81E-01	1.33E+00	1.50E+01	8.92E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cesium-137	1.65E+00	7.65E-01	2.14E+00	1.80E+01	7.68E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cesium-137	4.67E-01	4.60E-01	1.54E+00	1.80E+01	4.73E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Cesium-137	9.82E-01	1.00E+00	1.56E+00	1.80E+01	1.00E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cesium-137	1.29E+00	1.19E+00	1.94E+00	1.80E+01	1.19E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cesium-137	-4.94E-01	6.10E-01	2.00E+00	1.80E+01	6.20E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cesium-137	7.22E-01	5.53E-01	1.91E+00	1.80E+01	5.78E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cesium-137	-4.77E-01	5.21E-01	1.64E+00	1.80E+01	5.33E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cesium-137	-5.61E-01	5.12E-01	1.67E+00	1.80E+01	5.29E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cesium-137	4.87E-02	5.73E-01	1.95E+00	1.80E+01	5.73E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cesium-137	7.00E-01	1.19E+00	1.74E+00	1.80E+01	1.19E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cesium-137	6.74E-01	3.99E-01	1.39E+00	1.80E+01	4.29E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cesium-137	-3.02E-02	5.58E-01	1.36E+00	1.80E+01	5.58E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Chromium-51	3.39E+00	5.52E+00	1.89E+01		5.58E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Chromium-51	5.21E-01	3.72E+00	1.26E+01		3.72E+00	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Chromium-51	7.09E-01	3.70E+00	1.27E+01		3.70E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Chromium-51	3.06E-01	4.15E+00	1.38E+01		4.15E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Chromium-51	-3.75E+00	4.73E+00	1.52E+01		4.81E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Chromium-51	3.34E+00	4.44E+00	1.54E+01		4.51E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Chromium-51	-1.20E-01	4.72E+00	1.61E+01		4.72E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Chromium-51	2.24E-01	5.05E+00	1.64E+01		5.05E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Chromium-51	-5.12E+00	6.42E+00	1.80E+01		6.53E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Chromium-51	6.64E+00	4.37E+00	1.55E+01		4.64E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Chromium-51	5.08E-01	3.84E+00	1.32E+01		3.84E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Chromium-51	-8.46E+00	6.10E+00	1.94E+01		6.41E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cobalt-57	-8.11E-02	5.28E-01	1.67E+00		5.28E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cobalt-57	7.43E-02	4.15E-01	1.35E+00		4.16E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Cobalt-57	2.46E-01	3.68E-01	1.22E+00		3.72E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cobalt-57	-2.39E-01	3.82E-01	1.18E+00		3.86E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cobalt-57	-7.67E-02	4.12E-01	1.28E+00		4.13E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cobalt-57	1.02E+00	4.93E-01	1.65E+00		5.47E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cobalt-57	-3.54E-01	5.08E-01	1.61E+00		5.15E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cobalt-57	1.10E-01	4.58E-01	1.53E+00		4.58E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cobalt-57	3.70E-01	5.19E-01	1.74E+00		5.26E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cobalt-57	-3.50E-01	4.29E-01	1.37E+00		4.37E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cobalt-57	4.24E-01	4.05E-01	1.33E+00		4.17E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cobalt-57	-1.29E-01	3.27E-01	1.11E+00		3.29E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cobalt-58	2.63E-02	5.81E-01	1.98E+00	1.50E+01	5.81E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cobalt-58	-4.11E-02	4.16E-01	1.41E+00	1.50E+01	4.16E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Cobalt-58	6.06E-01	6.43E-01	1.47E+00	1.50E+01	6.44E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cobalt-58	-1.52E-02	6.24E-01	1.84E+00	1.50E+01	6.25E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cobalt-58	-7.37E-02	6.70E-01	1.96E+00	1.50E+01	6.70E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cobalt-58	-5.06E-01	5.58E-01	1.70E+00	1.50E+01	5.71E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cobalt-58	1.56E+00	6.97E-01	1.56E+00	1.50E+01	7.02E-01	pCi/L	UI
SW-3QC(519832006) - Surface Water	25-Aug-20	Cobalt-58	-2.26E-01	5.06E-01	1.68E+00	1.50E+01	5.09E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cobalt-58	-7.16E-01	5.51E-01	1.75E+00	1.50E+01	5.76E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cobalt-58	4.24E-01	4.95E-01	1.66E+00	1.50E+01	5.04E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cobalt-58	-5.31E-01	4.26E-01	1.25E+00	1.50E+01	4.43E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cobalt-58	-1.64E+00	6.13E-01	1.31E+00	1.50E+01	7.22E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Cobalt-60	1.82E-01	6.00E-01	2.01E+00	1.50E+01	6.01E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Cobalt-60	-7.38E-01	4.91E-01	1.47E+00	1.50E+01	5.21E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Cobalt-60	3.55E-01	4.38E-01	1.50E+00	1.50E+01	4.46E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Cobalt-60	-4.30E-01	6.52E-01	2.02E+00	1.50E+01	6.59E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Cobalt-60	-1.59E-01	6.75E-01	2.14E+00	1.50E+01	6.76E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Cobalt-60	5.41E-01	5.39E-01	1.92E+00	1.50E+01	5.54E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Cobalt-60	1.72E-01	5.91E-01	1.78E+00	1.50E+01	5.93E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Cobalt-60	2.57E-01	5.44E-01	1.83E+00	1.50E+01	5.47E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Cobalt-60	4.97E-01	5.66E-01	1.95E+00	1.50E+01	5.78E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Cobalt-60	-3.03E-02	5.33E-01	1.77E+00	1.50E+01	5.33E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Cobalt-60	5.33E-01	3.33E-01	1.54E+00	1.50E+01	3.56E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Cobalt-60	3.32E-01	3.79E-01	1.27E+00	1.50E+01	3.87E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Iodine-131	3.71E-02	9.88E-01	3.30E+00		9.88E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Iodine-131	4.76E-01	5.06E-01	1.74E+00		5.18E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Iodine-131	-9.31E-02	6.11E-01	2.06E+00		6.11E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Iodine-131	3.84E-02	6.42E-01	2.11E+00		6.42E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Iodine-131	2.60E+00	1.07E+00	3.01E+00		1.08E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Iodine-131	5.71E-01	6.44E-01	2.23E+00		6.57E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Iodine-131	-1.76E-01	1.01E+00	3.41E+00		1.01E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Iodine-131	-1.40E+00	1.14E+00	3.54E+00		1.18E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Iodine-131	-4.62E-01	1.10E+00	3.49E+00		1.10E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Iodine-131	-2.89E-01	7.74E-01	2.60E+00		7.77E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Iodine-131	4.05E-01	8.22E-01	2.71E+00		8.27E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Iodine-131	-1.08E+00	4.41E+00	1.42E+01		4.42E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Iron-59	7.84E-01	1.13E+00	3.89E+00	3.00E+01	1.14E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Iron-59	-9.40E-01	8.33E-01	2.62E+00	3.00E+01	8.62E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Iron-59	-2.25E-01	8.48E-01	2.80E+00	3.00E+01	8.49E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Iron-59	-1.16E+00	1.16E+00	3.61E+00	3.00E+01	1.19E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Iron-59	-4.22E-01	1.32E+00	4.25E+00	3.00E+01	1.33E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Iron-59	4.07E-01	1.06E+00	3.65E+00	3.00E+01	1.06E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Iron-59	7.32E-02	9.28E-01	3.15E+00	3.00E+01	9.28E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Iron-59	3.19E-01	1.02E+00	3.45E+00	3.00E+01	1.03E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Iron-59	5.53E-02	1.06E+00	3.52E+00	3.00E+01	1.06E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Iron-59	4.19E-01	1.01E+00	3.48E+00	3.00E+01	1.02E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Iron-59	-8.76E-01	8.52E-01	2.58E+00	3.00E+01	8.76E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Iron-59	2.44E+00	2.87E+00	3.41E+00	3.00E+01	2.93E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Lanthanum-140	-1.20E+00	8.44E-01	2.35E+00	1.50E+01	8.89E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Lanthanum-140	1.30E-01	5.89E-01	1.92E+00	1.50E+01	5.90E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Lanthanum-140	7.79E-01	7.00E-01	2.40E+00	1.50E+01	7.24E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Lanthanum-140	-1.61E+00	8.57E-01	2.57E+00	1.50E+01	9.36E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Lanthanum-140	8.34E-01	1.10E+00	3.86E+00	1.50E+01	1.12E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Lanthanum-140	-3.21E-01	6.69E-01	2.11E+00	1.50E+01	6.73E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Lanthanum-140	-4.32E-01	9.79E-01	3.14E+00	1.50E+01	9.84E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Lanthanum-140	1.16E+00	1.00E+00	3.47E+00	1.50E+01	1.04E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Lanthanum-140	-7.38E-02	1.06E+00	3.42E+00	1.50E+01	1.06E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Lanthanum-140	2.48E-02	7.82E-01	2.57E+00	1.50E+01	7.82E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Lanthanum-140	-1.72E+00	7.24E-01	2.11E+00	1.50E+01	8.29E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Lanthanum-140	6.28E+00	2.02E+00	7.59E+00	1.50E+01	2.50E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Manganese-54	-5.65E-01	6.99E-01	1.98E+00	1.50E+01	7.11E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Manganese-54	-5.65E-02	4.42E-01	1.49E+00	1.50E+01	4.42E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Manganese-54	4.32E-01	4.25E-01	1.28E+00	1.50E+01	4.36E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Manganese-54	-2.75E-02	5.42E-01	1.81E+00	1.50E+01	5.42E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Manganese-54	7.07E-02	6.07E-01	2.04E+00	1.50E+01	6.08E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Manganese-54	9.76E-03	6.16E-01	1.76E+00	1.50E+01	6.16E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Manganese-54	-2.70E-01	4.88E-01	1.53E+00	1.50E+01	4.93E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Manganese-54	9.62E-02	4.75E-01	1.61E+00	1.50E+01	4.76E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Manganese-54	-3.50E-01	6.27E-01	1.81E+00	1.50E+01	6.32E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Manganese-54	-2.36E-01	4.81E-01	1.50E+00	1.50E+01	4.84E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Manganese-54	1.84E-01	4.00E-01	1.33E+00	1.50E+01	4.03E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Manganese-54	-3.09E-01	3.60E-01	1.16E+00	1.50E+01	3.67E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Niobium-95	1.22E+00	6.75E-01	2.15E+00	1.50E+01	7.33E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Niobium-95	-1.58E-01	4.94E-01	1.55E+00	1.50E+01	4.95E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Niobium-95	5.16E-01	4.09E-01	1.38E+00	1.50E+01	4.26E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Niobium-95	2.01E-01	5.54E-01	1.89E+00	1.50E+01	5.56E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Niobium-95	-1.86E-01	6.56E-01	2.18E+00	1.50E+01	6.57E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Niobium-95	-1.10E+00	7.99E-01	1.77E+00	1.50E+01	8.40E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Niobium-95	4.77E-01	4.80E-01	1.63E+00	1.50E+01	4.93E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Niobium-95	-9.44E-02	7.64E-01	1.80E+00	1.50E+01	7.65E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Niobium-95	8.82E-01	5.75E-01	2.04E+00	1.50E+01	6.11E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Niobium-95	8.53E-01	4.71E-01	1.66E+00	1.50E+01	5.12E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Niobium-95	4.95E-01	8.49E-01	1.35E+00	1.50E+01	8.50E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Niobium-95	8.82E-01	4.77E-01	1.67E+00	1.50E+01	5.19E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Potassium-40	-1.66E+01	1.14E+01	3.07E+01		1.20E+01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Potassium-40	1.38E+01	1.16E+01	1.58E+01		1.16E+01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Potassium-40	-9.40E+00	8.69E+00	2.02E+01		8.96E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Potassium-40	5.70E+00	1.52E+01	1.72E+01		1.52E+01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Potassium-40	4.09E+00	1.77E+01	2.00E+01		1.77E+01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Potassium-40	9.25E+00	1.22E+01	1.65E+01		1.22E+01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Potassium-40	-3.90E+01	1.24E+01	2.84E+01		1.54E+01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Potassium-40	-8.67E+00	1.21E+01	2.41E+01		1.22E+01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Potassium-40	1.88E+01	1.14E+01	1.88E+01		1.15E+01	pCi/L	UI
SW-3QC(525680006) - Surface Water	27-Oct-20	Potassium-40	3.10E+01	8.29E+00	1.65E+01		8.46E+00	pCi/L	
SW-3QC(528777006) - Surface Water	24-Nov-20	Potassium-40	-2.07E+01	8.27E+00	2.18E+01		9.59E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Potassium-40	-1.04E+01	8.85E+00	1.75E+01		9.18E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Ruthenium-103	6.92E-01	6.93E-01	2.25E+00		7.12E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Ruthenium-103	6.32E-02	4.73E-01	1.40E+00		4.74E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Ruthenium-103	-2.99E-01	4.26E-01	1.38E+00		4.32E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Ruthenium-103	-1.04E+00	5.87E-01	1.77E+00		6.36E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Ruthenium-103	-8.50E-02	6.52E-01	2.09E+00		6.52E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Ruthenium-103	-6.87E-01	5.43E-01	1.71E+00		5.67E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Ruthenium-103	-5.29E-01	6.26E-01	1.80E+00		6.38E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Ruthenium-103	-2.03E-01	5.65E-01	1.78E+00		5.67E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Ruthenium-103	-8.30E-02	6.76E-01	1.90E+00		6.76E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Ruthenium-103	-9.29E-02	4.99E-01	1.65E+00		4.99E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Ruthenium-103	-3.34E-01	4.37E-01	1.44E+00		4.44E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Ruthenium-103	-1.45E-02	6.34E-01	1.80E+00		6.34E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Ruthenium-106	2.97E+00	5.41E+00	1.79E+01		5.45E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Ruthenium-106	1.00E+00	3.87E+00	1.26E+01		3.88E+00	pCi/L	U



## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Ruthenium-106	-3.85E+00	4.00E+00	1.26E+01		4.11E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Ruthenium-106	3.69E+00	5.92E+00	1.39E+01		5.99E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Ruthenium-106	-4.34E+00	5.54E+00	1.83E+01		5.63E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Ruthenium-106	-3.81E+00	4.06E+00	1.26E+01		4.16E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Ruthenium-106	-1.52E-01	4.50E+00	1.48E+01		4.50E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Ruthenium-106	4.54E+00	4.43E+00	1.55E+01		4.56E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Ruthenium-106	-2.56E+00	4.64E+00	1.54E+01		4.68E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Ruthenium-106	3.45E+00	4.08E+00	1.39E+01		4.16E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Ruthenium-106	1.41E+00	3.51E+00	1.18E+01		3.52E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Ruthenium-106	-7.49E+00	3.33E+00	1.06E+01		3.76E+00	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Selenium-75	-5.42E-01	7.74E-01	2.58E+00		7.84E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Selenium-75	-5.68E-01	5.73E-01	1.92E+00		5.88E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Selenium-75	2.09E-01	5.99E-01	1.89E+00		6.01E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Selenium-75	3.82E-01	6.12E-01	2.08E+00		6.18E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Selenium-75	8.34E-01	6.65E-01	2.30E+00		6.93E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Selenium-75	-1.43E+00	1.12E+00	2.28E+00		1.17E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Selenium-75	-2.69E-02	7.07E-01	2.43E+00		7.07E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Selenium-75	-2.21E+00	1.01E+00	2.19E+00		1.13E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Selenium-75	-9.36E-01	7.20E-01	2.27E+00		7.53E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Selenium-75	-6.42E-02	7.08E-01	2.21E+00		7.09E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Selenium-75	1.00E+00	7.79E-01	1.95E+00		8.14E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Selenium-75	1.87E-01	8.17E-01	1.94E+00		8.18E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Silver-108m	-7.47E-02	5.24E-01	1.72E+00		5.24E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Silver-108m	-1.92E-02	3.86E-01	1.28E+00		3.86E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Silver-108m	6.25E-01	3.67E-01	1.29E+00		3.95E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Silver-108m	-6.61E-02	4.44E-01	1.43E+00		4.44E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Silver-108m	4.50E-01	4.95E-01	1.66E+00		5.07E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Silver-108m	1.78E-01	4.38E-01	1.48E+00		4.39E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Silver-108m	-8.82E-02	5.21E-01	1.56E+00		5.22E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Silver-108m	-1.42E-01	4.64E-01	1.47E+00		4.65E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Silver-108m	2.78E-01	6.63E-01	1.63E+00		6.66E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Silver-108m	3.61E-01	4.15E-01	1.44E+00		4.24E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Silver-108m	2.80E-01	3.49E-01	1.20E+00		3.55E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Silver-108m	-5.60E-01	3.22E-01	9.89E-01		3.47E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Silver-110m	1.92E+00	7.00E-01	2.70E+00		8.32E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Silver-110m	-6.14E-01	5.18E-01	1.66E+00		5.38E-01	pCi/L	U

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Silver-110m	-1.21E-01	1.05E+00	1.85E+00		1.05E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Silver-110m	-7.39E-01	7.23E-01	2.29E+00		7.44E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Silver-110m	-4.95E-01	8.72E-01	2.82E+00		8.79E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Silver-110m	4.80E-01	6.49E-01	2.17E+00		6.59E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Silver-110m	-3.29E-01	6.80E-01	2.12E+00		6.84E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Silver-110m	-3.02E-01	6.82E-01	2.25E+00		6.86E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Silver-110m	-2.76E-01	7.57E-01	2.50E+00		7.60E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Silver-110m	9.77E-02	6.52E-01	2.10E+00		6.52E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Silver-110m	3.15E-01	5.41E-01	1.80E+00		5.46E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Silver-110m	-2.99E-02	5.54E-01	1.61E+00		5.55E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Strontium-89	7.28E-01	5.06E-01	1.48E+00	1.00E+01	7.05E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Strontium-89	5.47E-02	4.27E-01	1.39E+00	1.00E+01	6.36E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Strontium-89	-1.38E+00	3.58E-01	1.60E+00	1.00E+01	5.16E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Strontium-89	1.59E-02	7.67E-01	2.52E+00	1.00E+01	8.75E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Strontium-89	5.97E-01	5.43E-01	1.63E+00	1.00E+01	7.40E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Strontium-89	-1.70E+00	5.11E-01	2.10E+00	1.00E+01	6.82E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Strontium-89	-5.46E-01	9.30E-01	3.14E+00	1.00E+01	1.01E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Strontium-89	-8.13E-02	4.87E-01	1.62E+00	1.00E+01	6.22E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Strontium-89	-1.84E+00	4.53E-01	1.94E+00	1.00E+01	6.31E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Strontium-89	-2.02E+00	8.50E-01	3.13E+00	1.00E+01	8.89E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Strontium-89	-3.83E+00	2.91E-01	2.20E+00	1.00E+01	5.06E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Strontium-89	1.32E-01	6.82E-01	2.22E+00	1.00E+01	7.24E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Strontium-90	4.06E-01	3.70E-01	1.52E+00	2.00E+00	4.97E-01	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Strontium-90	-1.99E-01	3.82E-01	1.74E+00	2.00E+00	5.19E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Strontium-90	-9.21E-01	3.47E-01	1.72E+00	2.00E+00	5.02E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Strontium-90	-4.71E-01	3.28E-01	1.73E+00	2.00E+00	4.98E-01	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Strontium-90	6.88E-01	4.21E-01	1.65E+00	2.00E+00	5.68E-01	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Strontium-90	2.54E-01	3.51E-01	1.77E+00	2.00E+00	5.52E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Strontium-90	-3.62E-01	2.58E-01	1.22E+00	2.00E+00	3.46E-01	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Strontium-90	-7.03E-02	3.62E-01	1.73E+00	2.00E+00	5.22E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Strontium-90	1.03E+00	4.42E-01	1.73E+00	2.00E+00	5.92E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Strontium-90	1.84E-01	1.70E-01	8.46E-01	2.00E+00	2.62E-01	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Strontium-90	1.40E+00	4.01E-01	1.87E+00	2.00E+00	6.25E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Strontium-90	-1.21E+00	1.97E-01	1.02E+00	2.00E+00	2.84E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Thorium-228	1.76E+00	2.17E+00	3.42E+00		2.17E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Thorium-228	2.69E+00	1.85E+00	2.69E+00		1.85E+00	pCi/L	UI

## SW-3QC

## Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(508675006) - Surface Water	31-Mar-20	Thorium-228	1.93E-01	1.41E+00	3.34E+00		1.41E+00	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Thorium-228	1.27E+00	1.50E+00	3.44E+00		1.53E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Thorium-228	2.73E+00	2.09E+00	2.73E+00		2.09E+00	pCi/L	UI
SW-3QC(514808006) - Surface Water	28-Jun-20	Thorium-228	2.17E+00	2.17E+00	3.21E+00		2.17E+00	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Thorium-228	3.27E+00	2.15E+00	3.27E+00		2.16E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Thorium-228	-2.35E+00	1.55E+00	3.59E+00		1.64E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Thorium-228	6.81E-01	2.11E+00	4.00E+00		2.12E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Thorium-228	6.84E-01	1.84E+00	3.34E+00		1.85E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Thorium-228	1.10E+00	2.00E+00	3.26E+00		2.01E+00	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Thorium-228	-2.80E+00	1.55E+00	2.66E+00		1.68E+00	pCi/L	U
SW-3QC(510616006) - Surface Water	31-Mar-20	Tritium	1.30E+02	1.14E+02	3.58E+02	5.00E+02	1.14E+02	pCi/L	U
SW-3QC(517031006) - Surface Water	28-Jun-20	Tritium	3.46E+01	1.38E+02	4.51E+02	5.00E+02	1.38E+02	pCi/L	U
SW-3QC(526481006) - Surface Water	29-Sep-20	Tritium	6.20E+01	1.37E+02	4.44E+02	5.00E+02	1.37E+02	pCi/L	U
SW-3QC(533264006) - Surface Water	29-Dec-20	Tritium	8.55E+01	1.05E+02	3.36E+02	5.00E+02	1.05E+02	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Zinc-65	-3.24E+00	2.09E+00	3.94E+00	3.00E+01	2.22E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Zinc-65	1.16E+00	9.46E-01	3.30E+00	3.00E+01	9.85E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Zinc-65	2.51E-01	9.09E-01	2.72E+00	3.00E+01	9.11E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Zinc-65	-1.29E+00	1.20E+00	3.68E+00	3.00E+01	1.23E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Zinc-65	-1.81E+00	1.29E+00	3.85E+00	3.00E+01	1.36E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Zinc-65	8.22E-01	9.42E-01	3.35E+00	3.00E+01	9.61E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Zinc-65	-9.24E-01	1.14E+00	3.40E+00	3.00E+01	1.16E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Zinc-65	-2.01E-01	1.08E+00	3.54E+00	3.00E+01	1.08E+00	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Zinc-65	-1.44E+00	1.35E+00	3.65E+00	3.00E+01	1.39E+00	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Zinc-65	9.82E-01	1.17E+00	3.66E+00	3.00E+01	1.19E+00	pCi/L	U
SW-3QC(528777006) - Surface Water	24-Nov-20	Zinc-65	-1.38E-01	8.70E-01	2.76E+00	3.00E+01	8.71E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Zinc-65	4.57E-01	9.27E-01	2.70E+00	3.00E+01	9.33E-01	pCi/L	U
SW-3QC(502529006) - Surface Water	28-Jan-20	Zirconium-95	2.25E+00	9.82E-01	3.54E+00	1.50E+01	1.11E+00	pCi/L	U
SW-3QC(505311006) - Surface Water	25-Feb-20	Zirconium-95	-6.18E-01	8.08E-01	2.48E+00	1.50E+01	8.21E-01	pCi/L	U
SW-3QC(508675006) - Surface Water	31-Mar-20	Zirconium-95	-8.20E-01	7.75E-01	2.37E+00	1.50E+01	7.98E-01	pCi/L	U
SW-3QC(510297006) - Surface Water	28-Apr-20	Zirconium-95	1.13E+00	1.01E+00	3.52E+00	1.50E+01	1.04E+00	pCi/L	U
SW-3QC(512281006) - Surface Water	26-May-20	Zirconium-95	-1.08E+00	1.05E+00	3.36E+00	1.50E+01	1.08E+00	pCi/L	U
SW-3QC(514808006) - Surface Water	28-Jun-20	Zirconium-95	-1.05E-01	9.20E-01	2.95E+00	1.50E+01	9.20E-01	pCi/L	U
SW-3QC(517328006) - Surface Water	29-Jul-20	Zirconium-95	1.02E+00	1.03E+00	3.47E+00	1.50E+01	1.06E+00	pCi/L	U
SW-3QC(519832006) - Surface Water	25-Aug-20	Zirconium-95	2.46E-01	9.48E-01	3.00E+00	1.50E+01	9.50E-01	pCi/L	U
SW-3QC(522847006) - Surface Water	29-Sep-20	Zirconium-95	-1.12E+00	9.56E-01	3.07E+00	1.50E+01	9.91E-01	pCi/L	U
SW-3QC(525680006) - Surface Water	27-Oct-20	Zirconium-95	3.05E-01	8.73E-01	2.87E+00	1.50E+01	8.76E-01	pCi/L	U

SW-3QC

Surface Water - Continued

Sample Name	Date Collected	Nuclide	Result	1 Sigma Uncert	MDC	LLD	1 Sigma TPU	Units	Qual
SW-3QC(528777006) - Surface Water	24-Nov-20	Zirconium-95	8.31E-01	7.73E-01	2.39E+00	1.50E+01	7.97E-01	pCi/L	U
SW-3QC(531066006) - Surface Water	29-Dec-20	Zirconium-95	-1.12E+00	8.03E-01	2.57E+00	1.50E+01	8.45E-01	pCi/L	U

2020 Environmental Monitoring TLDs: Indicator (site boundary to 8 miles); Control (greater than 9 miles); and Onsite (up to 0.4 miles from plant)

ID	TYPE	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed
T1	Indicator	1	10.50	0.65	11-Jan-20	2	10.35	0.77	04-Apr-20	3	12.65	.61	12-Jul-20	4	11.29	0.57	10-Oct-20
T2	Indicator	1	11.53	0.48	11-Jan-20	2	11.66	0.53	04-Apr-20	3	12.68	.70	12-Jul-20	4	11.89	0.78	10-Oct-20
T3	Indicator	1	10.56	0.45	11-Jan-20	2	10.60	.70	04-Apr-20	3	12.57	0.55	12-Jul-20	4	10.71	0.61	10-Oct-20
T4	Indicator	1	12.40	0.56	11-Jan-20	2	11.44	1.00	04-Apr-20	3	14.59	0.71	12-Jul-20	4	13.05	.60	10-Oct-20
T5	Indicator	1	13.34	0.72	11-Jan-20	2	13.77	0.57	04-Apr-20	3	14.47	.50	12-Jul-20	4	14.66	0.72	10-Oct-20
T6	Indicator	1	10.41	0.55	11-Jan-20	2	9.13	0.46	04-Apr-20	3	11.59	0.64	12-Jul-20	4	12.30	0.74	10-Oct-20
T7	Control	1	13.73	0.84	11-Jan-20	2	13.34	1.13	04-Apr-20	3	16.14	0.88	12-Jul-20	4	14.55	0.73	10-Oct-20
T8	Indicator	1	14.19	0.71	11-Jan-20	2	14.36	0.93	04-Apr-20	3	16.12	0.72	12-Jul-20	4	14.14	0.62	10-Oct-20
T9	Indicator	1	13.08	0.60	11-Jan-20	2	11.57	0.49	04-Apr-20	3	14.46	0.61	12-Jul-20	4	14.91	0.83	10-Oct-20
T10	Indicator	1	13.85	0.71	11-Jan-20	2	13.90	0.91	04-Apr-20	3	15.05	0.73	12-Jul-20	4	14.64	.70	10-Oct-20
T11	Indicator	1	11.78	0.49	11-Jan-20	2	11.77	0.52	04-Apr-20	3	13.35	.50	12-Jul-20	4	11.70	0.59	10-Oct-20
T12	Indicator	1	10.96	0.46	11-Jan-20	2	10.79	0.55	04-Apr-20	3	13.42	.53	12-Jul-20	4	11.40	0.66	10-Oct-20
T13	Indicator	1	14.49	0.70	11-Jan-20	2	14.12	1.13	04-Apr-20	3	15.58	0.82	12-Jul-20	4	14.24	0.93	10-Oct-20
T14	Indicator	1	13.52	0.53	11-Jan-20	2	13.14	.60	04-Apr-20	3	15.21	0.59	12-Jul-20	4	14.44	0.68	10-Oct-20
T15	Indicator	1	11.92	0.80	11-Jan-20	2	11.72	0.73	04-Apr-20	3	12.94	0.62	12-Jul-20	4	12.03	.70	10-Oct-20
T16	Indicator	1	15.67	0.58	11-Jan-20	2	15.87	0.76	04-Apr-20	3	17.92	0.77	12-Jul-20	4	16.40	0.87	10-Oct-20
T17	Indicator	1	11.21	0.49	11-Jan-20	2	10.55	0.93	04-Apr-20	3	12.42	0.63	12-Jul-20	4	11.91	0.62	10-Oct-20
T18	Indicator	1	12.12	0.51	11-Jan-20	2	11.87	0.81	04-Apr-20	3	15.15	0.67	12-Jul-20	4	12.67	0.58	10-Oct-20
T19	Indicator	1	13.62	0.60	11-Jan-20	2	14.61	0.97	04-Apr-20	3	16.01	0.78	12-Jul-20	4	14.86	1.08	10-Oct-20
T20	Indicator	1	14.07	0.54	11-Jan-20	2	13.68	0.57	04-Apr-20	3	16.21	0.78	12-Jul-20	4	14.70	0.69	10-Oct-20
T21	Indicator	1	11.40	0.50	11-Jan-20	2	11.48	0.84	04-Apr-20	3	13.16	0.69	12-Jul-20	4	11.76	1.03	10-Oct-20
T22	Indicator	1	13.53	1.04	11-Jan-20	2	13.17	0.59	04-Apr-20	3	14.62	0.59	12-Jul-20	4	13.27	.70	10-Oct-20
T23	Indicator	1	11.96	0.62	11-Jan-20	2	14.28	0.61	04-Apr-20	3	13.99	0.56	12-Jul-20	4	12.49	0.83	10-Oct-20
T24	Indicator	1	11.68	0.65	11-Jan-20	2	11.07	0.48	04-Apr-20	3	12.62	0.82	12-Jul-20	4	11.59	0.54	10-Oct-20
T25	Indicator	1	14.21	0.57	11-Jan-20	2	14.51	0.75	04-Apr-20	3	15.75	.53	12-Jul-20	4	15.25	1.17	10-Oct-20
T26	Indicator	1	15.09	0.59	11-Jan-20	2	14.83	0.59	04-Apr-20	3	17.61	0.83	12-Jul-20	4	15.32	0.89	10-Oct-20
T27	Indicator	1	10.97	0.78	11-Jan-20	2	10.61	0.64	04-Apr-20	3	12.42	0.54	12-Jul-20	4	11.52	0.69	10-Oct-20
T28	Control	1	11.60	0.77	11-Jan-20	2	11.15	1.09	04-Apr-20	3	13.54	.70	12-Jul-20	4	11.66	0.57	10-Oct-20
T29	Control	1	11.92	0.69	11-Jan-20	2	12.80	1.01	04-Apr-20	3	13.60	0.84	12-Jul-20	4	12.00	0.64	10-Oct-20
T30	Indicator	1	11.77	0.95	11-Jan-20	2	11.45	0.71	04-Apr-20	3	12.72	0.77	12-Jul-20	4	12.00	0.63	10-Oct-20
T31	Control	1	13.04	0.53	11-Jan-20	2	12.28	0.52	04-Apr-20	3	14.59	0.75	12-Jul-20	4	13.52	0.85	10-Oct-20
T32	Control	1	13.08	0.51	11-Jan-20	2	12.90	0.71	04-Apr-20	3	16.24	0.54	12-Jul-20	4	13.85	.70	10-Oct-20
T33	Control	1	11.69	0.75	11-Jan-20	2	10.28	0.67	04-Apr-20	3	12.81	0.61	12-Jul-20	4	10.97	0.54	10-Oct-20
T34	Control	1	11.49	0.54	11-Jan-20	2	11.07	0.89	04-Apr-20	3	12.48	0.66	12-Jul-20	4	11.48	0.81	10-Oct-20
T35	Indicator	1	11.95	0.49	11-Jan-20	2	10.92	0.72	04-Apr-20	3	13.25	0.64	12-Jul-20	4	11.89	0.71	10-Oct-20

2020 Environmental Monitoring TLDs: Indicator (site boundary to 8 miles); Control (greater than 9 miles); and Onsite (up to 0.4 miles from plant)

ID	TYPE	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed
T36	Control	1	missing		11-Jan-20	2	11.57	0.66	04-Apr-20	3	13.89	0.96	12-Jul-20	4	12.27	0.56	10-Oct-20
T37	Control	1	11.51	0.48	11-Jan-20	2	10.75	0.62	04-Apr-20	3	12.92	0.52	12-Jul-20	4	11.24	0.54	10-Oct-20
T38	Indicator	1	14.05	.60	11-Jan-20	2	13.81	.90	04-Apr-20	3	16.21	0.56	12-Jul-20	4	14.85	0.68	10-Oct-20
T39	Onsite	1	15.40	0.91	11-Jan-20	2	9.79	0.69	04-Apr-20	3	14.88	0.79	12-Jul-20	4	15.77	0.67	10-Oct-20
T40	Onsite	1	12.85	0.51	11-Jan-20	2	10.41	0.65	04-Apr-20	3	14.50	0.79	12-Jul-20	4	16.11	1.19	10-Oct-20
T41	Onsite	1	20.08	1.86	11-Jan-20	2	10.23	0.51	04-Apr-20	3	21.01	1.27	12-Jul-20	4	24.96	1.82	10-Oct-20
T42	Onsite	1	20.71	1.35	11-Jan-20	2	16.66	1.00	04-Apr-20	3	23.40	1.35	12-Jul-20	4	24.97	1.00	10-Oct-20
T43	Onsite	1	22.15	0.77	11-Jan-20	2	12.78	0.87	04-Apr-20	3	25.36	1.26	12-Jul-20	4	29.46	1.50	10-Oct-20
T44	Onsite	1	21.40	1.11	11-Jan-20	2	13.57	0.96	04-Apr-20	3	24.36	1.80	12-Jul-20	4	29.40	1.12	10-Oct-20
T45	Onsite	1	16.49	.70	11-Jan-20	2	12.98	0.91	04-Apr-20	3	21.31	1.28	12-Jul-20	4	20.51	0.92	10-Oct-20
T46	Onsite	1	14.17	1.10	11-Jan-20	2	11.33	0.56	04-Apr-20	3	16.95	0.98	12-Jul-20	4	16.10	0.73	10-Oct-20
T47	Onsite	1	23.43	1.39	11-Jan-20	2	12.57	0.63	04-Apr-20	3	22.34	0.78	12-Jul-20	4	28.77	1.45	10-Oct-20
T48	Onsite	1	18.15	1.06	11-Jan-20	2	12.93	0.97	04-Apr-20	3	19.65	0.96	12-Jul-20	4	23.69	1.35	10-Oct-20
T49	Indicator	1	16.13	0.96	11-Jan-20	2	16.39	1.29	04-Apr-20	3	17.10	0.77	12-Jul-20	4	17.14	0.71	10-Oct-20
T50	Indicator	1	14.18	0.77	11-Jan-20	2	14.26	0.88	04-Apr-20	3	14.99	0.53	12-Jul-20	4	13.44	0.63	10-Oct-20
T51	Onsite	1	9.44	0.39	11-Jan-20	2	10.05	0.67	04-Apr-20	3	11.48	0.51	12-Jul-20	4	9.62	0.58	10-Oct-20
T52	Onsite	1	11.91	1.05	11-Jan-20	2	11.43	0.86	04-Apr-20	3	13.28	0.51	12-Jul-20	4	11.70	0.66	10-Oct-20
T53	Onsite	1	14.28	0.54	11-Jan-20	2	12.71	1.03	04-Apr-20	3	14.55	0.61	12-Jul-20	4	15.61	0.87	10-Oct-20
T54	Onsite	1	11.59	0.77	11-Jan-20	2	10.02	0.53	04-Apr-20	3	13.09	0.48	12-Jul-20	4	11.81	.70	10-Oct-20
T55	Indicator	1	13.97	0.72	11-Jan-20	2	14.05	1.01	04-Apr-20	3	15.27	0.59	12-Jul-20	4	13.62	0.65	10-Oct-20
T56	Indicator	1	13.05	0.53	11-Jan-20	2	12.86	0.74	04-Apr-20	3	13.86	0.87	12-Jul-20	4	13.76	0.86	10-Oct-20
T57	Indicator	1	15.23	0.83	11-Jan-20	2	15.59	0.69	04-Apr-20	3	16.17	.70	12-Jul-20	4	14.62	0.67	10-Oct-20
T58	Indicator	1	12.91	0.74	11-Jan-20	2	12.35	0.83	04-Apr-20	3	13.75	0.86	12-Jul-20	4	12.60	0.71	10-Oct-20
T59	Indicator	1	12.04	1.06	11-Jan-20	2	13.25	.70	04-Apr-20	3	13.51	0.51	12-Jul-20	4	12.59	0.61	10-Oct-20
T60	Indicator	1	13.70	0.64	11-Jan-20	2	14.30	0.79	04-Apr-20	3	15.60	0.68	12-Jul-20	4	13.94	.70	10-Oct-20
T61	Control	1	13.81	0.85	11-Jan-20	2	14.76	0.97	04-Apr-20	3	15.49	.90	12-Jul-20	4	14.53	0.66	10-Oct-20
T62	Control	1	14.24	0.83	11-Jan-20	2	13.60	0.73	04-Apr-20	3	15.22	1.15	12-Jul-20	4	14.50	0.71	10-Oct-20
T63	Control	1	11.98	0.46	11-Jan-20	2	12.26	0.96	04-Apr-20	3	13.36	0.52	12-Jul-20	4	12.48	0.61	10-Oct-20
T64	Onsite	1	19.21	1.25	11-Jan-20	2	19.26	1.29	04-Apr-20	3	20.06	0.65	12-Jul-20	4	21.65	1.28	10-Oct-20
T65	Onsite	1	34.90	1.67	11-Jan-20	2	60.52	2.36	04-Apr-20	3	32.99	1.40	12-Jul-20	4	36.43	1.42	10-Oct-20
T66	Onsite	1	28.48	0.92	11-Jan-20	2	15.16	0.63	04-Apr-20	3	32.12	1.29	12-Jul-20	4	37.86	2.34	10-Oct-20
T67	Onsite	1	11.41	0.62	11-Jan-20	2	11.56	0.67	04-Apr-20	3	12.27	0.58	12-Jul-20	4	11.96	0.63	10-Oct-20
T68	Indicator	1	14.65	0.55	11-Jan-20	2	15.06	.70	04-Apr-20	3	16.74	0.74	12-Jul-20	4	15.80	0.72	10-Oct-20
T69	Indicator	1	13.70	0.93	11-Jan-20	2	15.30	1.10	04-Apr-20	3	17.05	0.82	12-Jul-20	4	15.50	1.08	10-Oct-20
T70	Indicator	1	13.68	0.61	11-Jan-20	2	12.20	0.93	04-Apr-20	3	14.05	0.61	12-Jul-20	4	14.21	0.88	10-Oct-20

2020 Environmental Monitoring TLDs: Indicator (site boundary to 8 miles); Control (greater than 9 miles); and Onsite (up to 0.4 miles from plant)

ID	TYPE	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed	Q	DOSE (mR/qtr)	+/- 1 S.D.	Date Placed
T71	Indicator	1	14.84	0.58	11-Jan-20	2	15.07	1.19	04-Apr-20	3	16.02	0.71	12-Jul-20	4	15.75	.90	10-Oct-20
ISFSI-1	Onsite	1	84.84	2.74	11-Jan-20	2	88.67	2.86	04-Apr-20	3	91.95	2.23	12-Jul-20	4	92.89	3.75	10-Oct-20
ISFSI-2	Onsite	1	30.65	1.14	11-Jan-20	2	35.50	1.27	04-Apr-20	3	30.60	1.05	12-Jul-20	4	31.98	1.22	10-Oct-20
ISFSI-3	Onsite	1	43.91	1.78	11-Jan-20	2	54.22	2.24	04-Apr-20	3	41.49	1.41	12-Jul-20	4	46.89	2.21	10-Oct-20
ISFSI-4	Onsite	1	39.06	1.30	11-Jan-20	2	69.61	3.51	04-Apr-20	3	36.73	1.45	12-Jul-20	4	43.10	1.60	10-Oct-20
ISFSI-5	Onsite	1	112.86	3.72	11-Jan-20	2	149.23	7.33	04-Apr-20	3	110.14	3.85	12-Jul-20	4	123.06	5.65	10-Oct-20
ISFSI-6	Onsite	1	49.90	2.38	11-Jan-20	2	56.11	2.05	04-Apr-20	3	47.91	1.53	12-Jul-20	4	50.79	1.96	10-Oct-20
ISFSI-7	Onsite	1	114.94	3.57	11-Jan-20	2	118.45	6.82	04-Apr-20	3	115.87	3.58	12-Jul-20	4	122.77	4.27	10-Oct-20
ISFSI-8	Onsite	1	41.28	1.46	11-Jan-20	2	40.89	1.50	04-Apr-20	3	41.44	1.44	12-Jul-20	4	42.98	1.58	10-Oct-20

Appendix D  
Environmental Program Exceptions



On occasions, samples cannot be collected. This can be due to a variety of events, such as equipment malfunction, loss of electrical power, severe weather, or vandalism. In 2020, a missed sample was a result of a missing field TLD. The following sections list missed samples, anomalous results, sampling discrepancies, and changes and corrective actions taken during 2020. These missed samples and anomalies did not have a significant impact on the execution of the REMP.

### ***Direct Radiation Monitoring***

All TLDs are placed in the field in inconspicuous locations to minimize the loss of TLDs due to vandalism. During 2020, 212 offsite TLDs were placed in the field for the REMP program and all but one TLD were collected and processed.

During a first quarter mid-quarter check, control TLD T-36 was found to be missing and was replaced.

No other TLDs were found missing in 2020. This is an improvement over 2019, in which five TLDs were found missing.

### ***Atmospheric Monitoring***

5/26/20 – API-6 no power – used timer reading for volume (1,738 ft<sup>3</sup>) – reset, repaired by facilities.

5/20/2020 – API-6 no power – used timer reading for volume (1,839 ft<sup>3</sup>) – reset breaker

5/13/2020 – API-6 no power – used timer reading for volume (11,484 ft<sup>3</sup>) – reset breaker

May 2020 – For API-6 there were two gross beta analyses with “DL” flags, meaning that the MDC for these samples was higher than the specified LLD. The DL qualifier in both of these cases is due to a lower volume of air flowing through the filter due to a mechanical issue. This did not result in non-detection of gross beta activity, since all the gross beta air sample analyses in 2020 were positive.

### ***Milk Sampling***

In 2020, there were a few instances of analyses performed by GEL Laboratories which were reported as not achieving the desired sensitivity, as shown in Appendix C. These cases were investigated, with the following results:

In ten milk sample analyses, the I-131 MDC was greater than the specified LLD. This was determined to be due to these samples not being counted in a timely manner, resulting in a longer sample to count time than is normally seen. Due to the volume received (1 gallon), the volume for gamma analysis on these particular milk samples is reused for I-131 analysis. This contributed to the analyst’s error in not notifying the data reviewer to check the gamma results so that the same sample volume could be used for I-131 analysis for these samples. To prevent this from happening again, GEL has added a step in the process which will be noted by the analyst, data reviewer and count room.

Results for Sr-89 and Sr-90 on July 23 in milk sample M-8 were reported positive with an “M” flag, meaning that the result was greater than the MDC but less than the LLD. However, in sample M-8QC on that date, Sr-89 and Sr-90 were not detected. This is a low level anomalous result which is not verified by the QC sample, as noted. Also, due to the low concentration detected, the usual non-detection of Sr-89 and Sr-90 in plant effluent samples, and the large dilution between the plant and this control milk location (10.9 miles from the reactor), this result is not attributed to plant effluents.

### ***Vegetation Sampling***

Only six vegetation samples were obtained in 2020. This low number has been noted, and the rate of vegetation sampling is expected to increase in 2021, in accordance with Appendix A, which requires monthly sampling at each location, when available.

### ***Groundwater Sampling - None***

### ***Drinking Water Sampling***

11/3/2020 – DW-1 power off – took grab sample  
10/6/2020 – DW-1 water off – no grab sample – turned water back on  
10/6/2020 – SW-2 unable to perform flow check – open grating.  
9/15/2020 – DW-1 water off – took grab sample – turned water back on  
6/24/2020 – DW-1 water line disconnected – no grab sample (collection week) – reconnected line

### ***Surface Water Sampling***

2/25/2020 - SW-3 As found 0 ml - no grab sample (collection week) - adjust flow to 25 ml  
1/21/2020 – SW-2 sample line frozen - no grab sample - container volume normal  
1/14/2020 – SW-3 breaker tripped - took grab sample – Ops reset breaker

12/29/2020 – For sample SW-3QC on this date, the reported MDC for Ba-140 was greater than the specified LLD. When originally counted the LLD for Ba-140 was met. However, after a recount to verify activity, the LLD was not met due to the short half-life of Ba-140.

### ***Sediment Sampling - None***

### ***Fish Sampling - None***

### ***Program Changes - None***

Appendix E  
Interlaboratory Comparison Data  
GEL Laboratories'  
Quality Assurance Programs  
and the  
Annual Quality Assurance Status Report  
Environmental Dosimetry Company

*Interlaboratory Comparison Program for 2020*

In an interlaboratory comparison program, participant laboratories receive from a commerce source, environmental samples of known activity concentration for analysis. After the samples have been analyzed by the laboratory, the manufacturer of the sample reports the known activity concentration of the samples to the laboratory. The laboratory compares its results to the reported concentrations to determine any significant deviations, investigates such deviations if found, and initiates corrective action if necessary. Participation in this program provides assurance that the contract laboratory is capable of meeting accepted criteria for radioactivity analysis. The following is GEL Laboratories' participation in an interlaboratory comparison program and the Annual Quality Assurance Status Report for the Environmental Dosimetry Company.



# **2020 ANNUAL QUALITY ASSURANCE REPORT**

## **FOR THE**


### **RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM (REMP)**

**2020 ANNUAL QUALITY ASSURANCE REPORT**

**FOR THE**

**RADIOLOGICAL ENVIRONMENTAL**

**MONITORING PROGRAM (REMP)**

Approved By  February 26, 2021  
Robert L. Pullano Date  
Director, Quality Systems

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## **2020 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 2020. 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 2020.
- Inter-laboratory QC results analyzed during 2020 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 supplier, 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 17025:2005
- 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 (20-RAD-001) was conducted in August and September, 2020. There were no findings or observations and two 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 2020, 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 2020. Of the four hundred fifty-six (456) total results, 97.1% (443 of 456) 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 ninety-one (91) 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 42 and 43 were analyzed by the laboratory. Of the one hundred twenty-eight (128) analyses, 99% (127 out of 128) 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-32 and MRAD-33) for one hundred ninety-eight (198) individual environmental analyses. Of the 198 analyses, 98% (194 out of 198) fell within the PT provider's acceptance criteria.

## 11. Summary of Participation in the ERA PT Program

The ERA program provided samples (RAD-120, RAD-121, and RAD-122) for forty (40) individual environmental analyses. Of the 40 analyses, 80% (32 out of 40) fell within the PT provider's acceptance criteria.

All corrective actions 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 2020. **It has been determined that causes of the unacceptable results did not impact any data reported to our clients.**

- CARR200224-1274 of PT Failures in RAD-120 for Drinking Water Sr-89, H-3, I-131
- CARR 200902-1278 of PT Failure in MRAD – 32 for: U-238 filter, Total U (mass) filter, U-234 water, Total U water
- CARR 200902-1287 of PT Failure in RAD-122 in drinking water for: Ba-133 and Co-60
- CARR 201214-1296 of PT Failure in MAPEP 43: Fe-55 in soil

### 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. 2003 NELAC Standard, National Environmental Laboratory Accreditation Program
11. 2009 TNI Standard, The NELAC Institute, National Environmental Accreditation Program
12. MARLAP, Multi-Agency Radiological Laboratory Analytical Protocols
13. 10 CFR Part 21, Reporting of Defects and Noncompliance
14. 10 CFR Part 50 Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants
15. 10 CFR Part 61, Licensing Requirements for Land Disposal and Radioactive Waste
16. NRC REG Guide 4.15 and NRC REG Guide 4.8

**TABLE 1**

**2020 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
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Barium-133	59.2	64.5	53.7 - 71.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-134	21.5	22.9	17.5 - 25.6	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-137	217	220	198 - 244	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cobalt-60	97.7	91.2	82.1 - 103	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Zinc-65	332	298	268 - 348	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	67.1	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	55.4	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Beta	20	21	12.6 - 29.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-226	15.6	17.4	12.9 - 19.9	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.71	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.68	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Uranium (Nat)	64.8	68.2	55.7 - 75.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	15200	17800	15600 - 19600	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	17700	17800	15600 - 19600	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	73.3	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	70.8	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	38.3	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	30.6	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	23.7*	29.9	24.9 - 34.9	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	31.8	29.9	24.9 - 34.9	Acceptable
EZA	1st/2020	05/08/20	E13167	Cartridge	pCi	Iodine-131	9.37E+01	9.12E+01	1.03	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-89	9.15E+01	9.55E+01	0.96	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-90	1.51E+02	1.43E+02	0.62	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cerium-141	1.99E+02	1.84E+02	1.08	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-58	1.96E+02	1.89E+02	1.03	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-60	2.33E+02	2.29E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Chromium-51	3.84E+02	3.76E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-134	1.36E+02	1.49E+02	0.91	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-137	1.91E+02	1.80E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Manganese-54	2.31E+02	2.10E+02	1.1	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Iron-59	1.82E+02	1.63E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Zinc-65	2.69E+02	2.52E+02	1.07	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cerium-141	2.11E+02	1.90E+02	1.11	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-134	1.53E+02	1.54E+02	0.99	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-137	2.08E+02	1.85E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Chromium-51	4.34E+02	3.88E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-58	2.21E+02	1.96E+02	1.13	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-60	2.59E+02	2.36E+02	1.10	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iodine-131	1.02E+02	9.29E+01	1.1	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iron-59	1.79E+02	1.68E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Manganese-54	2.48E+02	2.16E+02	1.15	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Zinc-65	3.05E+02	2.61E+02	1.17	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Americium-241	1410	1730	934 - 2450	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable



ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-238	951	1010	504 - 1540	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-239	1020	1240	676 - 1780	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3330	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3910	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	3490	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	2950	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6980	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6995	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	10500	10700	4830 - 14400	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	8830	10700	4830 - 14400	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Americium-241	3470	3950	2440 - 5580	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Curium-244	881	1050	592 - 1310	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-238	1070	1150	796 - 1480	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-239	227	232	160 - 294	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-234	1750	1900	1330 - 2420	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-238	1780	1880	1330 - 2350	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-Total	3620	3870	2470 - 5220	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	µg/kg	Uranium-Total (mass)	5330	5640	4330 - 6990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Americium-241	64.9	74.7	53.3 - 99.6	Acceptable

ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Iron-55	1150	1260	460 - 2010	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-238	21.9	28	21.1 - 34.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-239	30.6	40.1	30.0 - 48.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Strontium-90	181	175	111 - 238	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	45.7	56.2	41.7 - 65.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	46.7	56.2	41.7 - 65.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	46	55.7	42.1 - 66.5	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	39.6	55.7	42.1 - 66.5	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	94.5	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	88.1	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	138	167	134 - 196	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	118	167	134 - 196	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Alpha	34.4	29.3	15.3 - 48.3	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Beta	61.1	66.4	40.3 - 100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Americium-241	47.9	45.3	31.1 - 57.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Iron-55	140	152	89.3 - 221	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-238	32.5	36.4	21.9 - 47.2	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-239	29.7	33.6	20.8 - 41.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Strontium-90	426	447	322 - 552	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	187	186	142 - 213	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	226*	186	142 - 213	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	191	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	199	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	387	378	295 - 431	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	434.3*	378	295 - 431	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	572	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	595	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable

ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Tritium	5990	6280	4730 - 7640	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Tritium	13100	14100	12300 - 15500	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	68.8	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	71.6	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Iodine-131	27.5	28.9	24.1 - 33.8	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrF42	Filter	Bq/sample	Gross alpha	0.79	1.24	0.37-2.11	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrF42	Filter	Bq/sample	Gross beta	1.84	2.00	1.00-3.00	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross alpha	1.01	1.03	0.31-1.75	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross beta	4.18	4.24	2.12-6.36	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Americium-241	43.0	40.9	28.6-53.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cesium-134	984	1114	780-1448	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cesium-137	1060	1020	714-1326	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cobalt-57	1200.000	1071	750-1392	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cobalt-60	0.366		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Iron-55	950.0	1096	767-1425	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Manganese-54	961	945	662-1229	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Nickel-63	-0.727		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Plutonium-238	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Plutonium-239/240	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Potassium-40	618	625	438-813	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Strontium-90	286	340	238-442	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Technetium-99	728	706	494-918	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	U-234/233	43.2	40.3	28.2-52.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Uranium-238	64.6	68.0	48-88	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Zinc-65	784	751	526-976	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Americium-241	0.545	0.547	0.383-0.711	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-134	17.0	18.5	13.0-24.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-137	12.0	11.3	7.9-14.7	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cobalt-57	19.7	19.7	13.8-25.6	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cobalt-60	11.0	10.6	7.4-13.8	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Hydrogen-3	193	196	137-255	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Iron-55	18.2	17.8	12.5-23.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Manganese-54	20.6	19.6	13.7-25.5	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Nickel-63	14.1	11.1	7.8-14.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Plutonium-238	0.822	0.940	0.66-1.22	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Plutonium-239/240	0.686	0.737	0.516-0.958	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Potassium-40	-0.0485		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Radium-226	0.366	0.365	0.256-0.475	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Strontium-90	0.0122		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Technetium-99	3.72	3.63	2.54-4.72	Acceptable

MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Uranium-234	1.02	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Uranium-238	0.98	0.95	0.67-1.24	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Zinc-65	23.9	22.2	15.5-28.9	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-XaW42	Alk. Water	Bq/L	Iodine-129	1.01	1.001	0.701-1.301	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-235	0.0438	0.0460	0.0322-0.0598	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-238	6.39	6.3	4.4-8.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-Total	6.43	6.3	4.4-8.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Americium-241	0.0671	0.0675	0.0473-0.0878	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-134	0.626	0.600	0.420-0.780	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-137	0.802	0.735	0.515-0.956	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cobalt-57	1.54	1.50	1.05-1.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cobalt-60	1.29	1.23	0.86-1.60	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Manganese-54	0.0065		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-238	0.0341	0.0348	0.0244-0.0452	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-239/240	0.0395	0.0379	0.0265-0.0493	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Strontium-90	0.884	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Uranium-234	0.0788	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Uranium-238	0.0801	0.078	0.055-0.101	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Zinc-65	1.43	1.18	0.83-1.53	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Americium-241	0.0761	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-134	3.55	3.82	2.67-4.97	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-137	2.83	2.77	1.94-3.60	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cobalt-57	0.00561		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cobalt-60	2.84	2.79	1.95-3.63	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Manganese-54	4.74	4.58	3.21-5.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Plutonium-238	0.0447	0.0472	0.0330-0.0614	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Plutonium-239/240	0.06950	0.0772	0.0540-0.1004	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Strontium-90	0.361	0.492	0.344-0.640	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Uranium-234	0.1070	0.102	0.071-0.133	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Uranium-238	0.1150	0.103	0.072-0.134	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Zinc-65	4.14	3.79	2.65-4.93	Acceptable
EZA	2nd/2020	07/31/20	E13171	Cartridge	pCi	Iodine-131	9.68E+01	9.19E+01	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-89	8.67E+01	8.81E+01	0.98	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-90	1.06E+01	1.27E+01	0.83	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cerium-141	1.29E+02	1.16E+02	1.11	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-58	1.04E+02	1.00E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-60	2.00E+02	1.95E+02	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Chromium-51	2.91E+02	2.56E+02	1.14	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-134	1.40E+02	1.46E+02	0.96	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-137	1.09E+02	1.04E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iron-59	1.09E+02	1.01E+02	1.08	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iodine-131	8.31E+01	8.15E+01	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Manganese-54	1.41E+02	1.34E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Zinc-65	2.48E+02	2.25E+02	1.10	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cerium-141	1.23E+02	1.17E+02	1.05	Acceptable

EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-58	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-60	2.05E+02	1.98E+02	1.04	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Chromium-51	2.76E+02	2.59E+02	1.06	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-134	1.36E+02	1.48E+02	0.92	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-137	1.04E+02	1.05E+02	0.99	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iron-59	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iodine-131	9.10E+01	8.05E+01	1.13	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Zinc-65	2.49E+02	2.27E+02	1.10	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Barium-133	64.7	58.6	48.6 - 64.6	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-134	23	22.3	17.0 - 25.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-137	76.5	73	65.7 - 83.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cobalt-60	97.9	86.1	77.5 - 97.0	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Zinc-65	96.3	82.9	74.6 - 99.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Alpha	54.3	52.4	27.3 - 65.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Beta	24.7	24.3	15.0 - 32.3	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-226	9.42	10.8	8.08 - 12.5	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-228	5.55	5.42	3.28 - 7.19	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat)	28.9	29.3	23.7 - 32.5	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat) mass	41.3	42.7	34.5 - 47.4	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Tritium	17800	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	µg/L	Tritium	20200	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-89	61.7	68.9	56.2 - 77.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-90	18.2	19.5	13.9 - 23.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Iodine-131	29.9	26.1	21.7 - 30.8	Acceptable
EZA	3rd/2020	11/10/20	E13175	Cartridge	pCi	Iodine-131	7.96E+01	7.67E+01	1.04	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-89	1.13E+02	9.54E+01	1.18	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-90	9.47E+01	1.28E+02	0.74	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cerium-141	1.47E+02	1.50E+02	0.98	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-58	1.81E+02	1.80E+02	1.01	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-60	3.85E+02	3.79E+02	1.02	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Chromium-51	4.11E+02	3.72E+02	1.10	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-134	1.82E+02	2.00E+02	0.91	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-137	2.58E+02	2.50E+02	1.03	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iron-59	2.29E+02	2.00E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iodine-131	9.49E+01	9.50E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Manganese-54	1.96E+02	1.80E+02	1.09	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Zinc-65	3.04E+02	2.70E+02	1.13	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cerium-141	1.58E+02	1.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-58	1.90E+02	1.80E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-60	4.04E+02	3.80E+02	1.06	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Chromium-51	3.45E+02	3.73E+02	0.92	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-134	1.81E+02	2.01E+02	0.9	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-137	2.63E+02	2.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iron-59	2.26E+02	2.01E+02	1.12	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iodine-131	9.80E+01	9.82E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Manganese-54	2.06E+02	1.81E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Zinc-65	3.02E+02	2.71E+02	1.12	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Actinium-228	3530	3290	2170 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Americium-241	780	677	366 - 959	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-212	3780	3290	942 - 4900	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-214	2970	3790	1820 - 5640	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-134	3760	4180	2860 - 5000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-137	6890	6940	5250 - 8780	Acceptable

ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cobalt-60	2280	2520	1980 - 3110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3680	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3720	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Manganese-54	<23.9	<1000	<1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Plutonium-238	1460	1670	833 - 2540	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Potassium-40	24600	24700	17000 - 29500	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Strontium-90	5110	4980	1550 - 7760	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Thorium-234	5370	4740	1790 - 8120	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	4550	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	5100	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4800	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4870	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	9590	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	10189	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total (mass)	14400	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total (mass)	14600	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Zinc-65	1220	1120	895 - 1530	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Americium-241	2680	2940	1820 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-134	862	945	627 - 1260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-137	735	823	633 - 1110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cobalt-60	663	691	542 - 903	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Curium-244	3100	3400	1920 - 4230	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Manganese-54	<47.5	<300	<300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-238	4470	4590	3180 - 5920	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-239	838	768	531 - 972	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Potassium-40	33500	34500	25900 - 43700	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Strontium-90	8790	8690	4900 - 11300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-234	2650	2920	2050 - 3720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-238	2720	2900	2050 - 3630	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-Total	5510	5950	3800 - 8020	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	µg/kg	Uranium-Total (mass)	8150	8680	6660 - 10800	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Zinc-65	1640	1580	1180 - 2340	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Americium-241	22.3	22.2	15.8 - 29.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-134	268	296	192 - 363	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-137	407	413	339 - 542	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cobalt-60	507	497	422 - 631	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Iron-55	361	407	149 - 649	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Manganese-54	<3.82	<50.0	<50.0	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-238	25.3	28.8	21.7 - 35.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-239	31	33.7	25.2 - 40.7	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Strontium-90	30.5	36.2	22.9 - 49.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	16.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	19.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.5	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.2	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-Total	35.8	37.2	27.2 - 44.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total (mass)	55.3	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total (mass)	54.4	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Zinc-65	540	500	410 - 764	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Alpha	32.2	26.1	13.6 - 43.0	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Beta	94.2	85.9	52.1 - 130	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Americium-241	185	176	121 - 225	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-134	849	911	688 - 1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-137	1540	1510	1290 - 1720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cobalt-60	1660	1560	1350 - 1790	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Iron-55	267	298	175 - 433	Acceptable

ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Manganese-54	<4.61	<100	<100	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-238	160	191	115 - 247	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-239	81.7	100	61.9 - 123	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Strontium-90	917	787	567 - 973	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	33.8	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	39.2	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	34.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	32.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	37.3	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	70.4	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	78.2	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total (mass)	104	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total (mass)	112	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Zinc-65	1010	917	816 - 1160	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Alpha	100	111	40.5 - 153	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Beta	181	194	97.0 - 267	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Tritium	11600	12000	9040 - 14600	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Americium-241	1.2		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cesium-134	625	710	497-923	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cesium-137	0.87		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cobalt-57	1260	1100	770-1430	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cobalt-60	998	1000	700-1300	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Iron-55	811	577	404-750	Not Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Manganese-54	661	610	427-793	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Nickel-63	840	980	686-1274	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Plutonium-238	53.1	57.7	40.4-75	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Plutonium-239/240	68.1	79.0	55-103	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Potassium-40	704	622	435-809	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Strontium-90	434	487	341-633	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Technetium-99	5		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	U-234/233	51	48	33.7-62.5	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Uranium-238	126	128	90-166	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Zinc-65	531	470	329-611	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Americium-241	0.942	0.922	0.645-1.199	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cesium-134	13.9	15.2	10.6-19.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cesium-137	15.10	14.3	10.0-18.6	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cobalt-57	-0.0072		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cobalt-60	12.90	12.2	8.5-15.9	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Hydrogen-3	330	360	252-468	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Iron-55	29.20	32.9	23.0-42.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Manganese-54	-0.0032		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Nickel-63	-0.93		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Plutonium-238	0.6430	0.7040	0.493-0.915	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Plutonium-239/240	0.001	0.009	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Potassium-40	-0.763		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Radium-226	1.020	1.250	0.88-1.63	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Strontium-90	9.97	11.60	8.1-15.1	Acceptable

MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Technetium-99	8.720	9.40	6.6-12.2	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-234/233	1.27	1.26	0.88-1.64	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-238	1.31	1.30	0.9-1.7	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Zinc-65	18.9	16.9	11.8-22	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-235	0.0920	0.1020	0.071-0.133	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-238	13.1	14.6	10.2-19	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-Total	13.2	14.7	10.3-19.1	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Americium-241	0.129	0.134	0.094-0.174	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-134	1.72	1.83	1.28-2.38	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-137	1.04	0.996	0.697-1.295	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cobalt-57	0.00126		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cobalt-60	1.85	1.73	1.21-2.25	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Manganese-54	1.64	1.40	0.98-1.82	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-238	0.0917	0.0867	0.0607-0.1127	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-239/240	0.0019	0.0017	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Strontium-90	1.790	2.080	1.46-2.70	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Uranium-234/233	0.1820	0.175	0.123-0.228	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Uranium-238	0.1860	0.182	0.127-0.237	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Zinc-65	2.29	2.00	1.40-2.60	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Americium-241	0.1040	0.103	0.072-0.134	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-134	4.5	4.94	3.46-6.42	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-137	0.0134		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cobalt-57	6.70	6.67	4.67-8.67	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cobalt-60	4.27	4.13	2.89-5.37	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Manganese-54	6.04	5.84	4.09-7.59	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Plutonium-238	0.0002	0.001	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Plutonium-239/240	0.05370	0.0624	0.0437-0.0811	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Strontium-90	1.07	1.39	0.97-1.81	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Uranium-234/233	0.1270	0.1150	0.081-0.150	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Uranium-238	0.1260	0.1200	0.084-0.156	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Zinc-65	7.04	6.38	4.47-8.29	Acceptable
EZA	4th/2020	2/1/2021	E13179	Cartridge	pCi	Iodine-131	7.58E+01	7.81E+01	0.97	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-89	8.41E+01	8.97E+01	0.94	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-90	1.13E+01	1.30E+01	0.87	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cerium-141	9.76E+01	1.00E+01	0.98	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-58	8.58E+01	8.43E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-60	1.66E+02	1.52E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Chromium-51	2.68E+02	2.53E+02	1.06	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-134	1.03E+02	1.08E+02	0.96	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-137	1.33E+02	1.27E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iron-59	1.28E+02	1.12E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iodine-131	9.44E+01	9.19E+01	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Manganese-54	1.49E+02	1.43E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Zinc-65	2.17E+02	1.90E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cerium-141	1.18E+02	1.06E+02	1.11	Acceptable



EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-58	9.54E+01	8.92E+01	1.07	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-60	1.74E+02	1.61E+02	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Chromium-51	3.05E+02	2.68E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-134	1.14E+02	1.14E+02	1.00	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-137	1.37E+02	1.35E+02	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iron-59	1.37E+02	1.19E+02	1.16	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iodine-131	9.72E+01	9.57E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Manganese-54	1.65E+02	1.51E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Zinc-65	2.29E+02	2.01E+02	1.14	Acceptable

**TABLE 2**  
**2020 ECKERT & ZIEGLER ANALYTICS PERFORMANCE EVALUATION RESULTS**

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
EZA	1st/2020	05/08/20	E13167	Cartridge	pCi	Iodine-131	9.37E+01	9.12E+01	1.03	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-89	9.15E+01	9.55E+01	0.96	Acceptable
EZA	1st/2020	05/08/20	E13168	Milk	pCi/L	Strontium-90	1.51E+02	1.43E+02	0.62	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cerium-141	1.99E+02	1.84E+02	1.08	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-58	1.96E+02	1.89E+02	1.03	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cobalt-60	2.33E+02	2.29E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Chromium-51	3.84E+02	3.76E+02	1.02	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-134	1.36E+02	1.49E+02	0.91	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Cesium-137	1.91E+02	1.80E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Manganese-54	2.31E+02	2.10E+02	1.1	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Iron-59	1.82E+02	1.63E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13169	Milk	pCi/L	Zinc-65	2.69E+02	2.52E+02	1.07	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cerium-141	2.11E+02	1.90E+02	1.11	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-134	1.53E+02	1.54E+02	0.99	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cesium-137	2.08E+02	1.85E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Chromium-51	4.34E+02	3.88E+02	1.12	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-58	2.21E+02	1.96E+02	1.13	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Cobalt-60	2.59E+02	2.36E+02	1.10	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iodine-131	1.02E+02	9.29E+01	1.1	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Iron-59	1.79E+02	1.68E+02	1.06	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Manganese-54	2.48E+02	2.16E+02	1.15	Acceptable
EZA	1st/2020	05/08/20	E13170	Water	pCi/L	Zinc-65	3.05E+02	2.61E+02	1.17	Acceptable
EZA	2nd/2020	07/31/20	E13171	Cartridge	pCi	Iodine-131	9.68E+01	9.19E+01	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-89	8.67E+01	8.81E+01	0.98	Acceptable
EZA	2nd/2020	07/31/20	E13172	Milk	pCi/L	Strontium-90	1.06E+01	1.27E+01	0.83	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cerium-141	1.29E+02	1.16E+02	1.11	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-58	1.04E+02	1.00E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cobalt-60	2.00E+02	1.95E+02	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Chromium-51	2.91E+02	2.56E+02	1.14	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-134	1.40E+02	1.46E+02	0.96	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Cesium-137	1.09E+02	1.04E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iron-59	1.09E+02	1.01E+02	1.08	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Iodine-131	8.31E+01	8.15E+01	1.02	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Manganese-54	1.41E+02	1.34E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13173	Milk	pCi/L	Zinc-65	2.48E+02	2.25E+02	1.10	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cerium-141	1.23E+02	1.17E+02	1.05	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-58	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cobalt-60	2.05E+02	1.98E+02	1.04	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Chromium-51	2.76E+02	2.59E+02	1.06	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-134	1.36E+02	1.48E+02	0.92	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Cesium-137	1.04E+02	1.05E+02	0.99	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iron-59	1.05E+02	1.02E+02	1.03	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Iodine-131	9.10E+01	8.05E+01	1.13	Acceptable
EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Manganese-54	1.47E+02	1.35E+02	1.09	Acceptable

EZA	2nd/2020	07/31/20	E13174	Water	pCi/L	Zinc-65	2.49E+02	2.27E+02	1.10	Acceptable
EZA	3rd/2020	11/10/20	E13175	Cartridge	pCi	Iodine-131	7.96E+01	7.67E+01	1.04	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-89	1.13E+02	9.54E+01	1.18	Acceptable
EZA	3rd/2020	11/10/20	E13176	Milk	pCi/L	Strontium-90	9.47E+01	1.28E+02	0.74	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cerium-141	1.47E+02	1.50E+02	0.98	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-58	1.81E+02	1.80E+02	1.01	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cobalt-60	3.85E+02	3.79E+02	1.02	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Chromium-51	4.11E+02	3.72E+02	1.10	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-134	1.82E+02	2.00E+02	0.91	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Cesium-137	2.58E+02	2.50E+02	1.03	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iron-59	2.29E+02	2.00E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Iodine-131	9.49E+01	9.50E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Manganese-54	1.96E+02	1.80E+02	1.09	Acceptable
EZA	3rd/2020	11/10/20	E13177	Milk	pCi/L	Zinc-65	3.04E+02	2.70E+02	1.13	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cerium-141	1.58E+02	1.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-58	1.90E+02	1.80E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cobalt-60	4.04E+02	3.80E+02	1.06	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Chromium-51	3.45E+02	3.73E+02	0.92	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-134	1.81E+02	2.01E+02	0.9	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Cesium-137	2.63E+02	2.51E+02	1.05	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iron-59	2.26E+02	2.01E+02	1.12	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Iodine-131	9.80E+01	9.82E+01	1.00	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Manganese-54	2.06E+02	1.81E+02	1.14	Acceptable
EZA	3rd/2020	11/10/20	E13178	Water	pCi/L	Zinc-65	3.02E+02	2.71E+02	1.12	Acceptable
EZA	4th/2020	2/1/2021	E13179	Cartridge	pCi	Iodine-131	7.58E+01	7.81E+01	0.97	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-89	8.41E+01	8.97E+01	0.94	Acceptable
EZA	4th/2020	2/1/2021	E13180	Milk	pCi/L	Strontium-90	1.13E+01	1.30E+01	0.87	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cerium-141	9.76E+01	1.00E+01	0.98	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-58	8.58E+01	8.43E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cobalt-60	1.66E+02	1.52E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Chromium-51	2.68E+02	2.53E+02	1.06	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-134	1.03E+02	1.08E+02	0.96	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Cesium-137	1.33E+02	1.27E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iron-59	1.28E+02	1.12E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Iodine-131	9.44E+01	9.19E+01	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Manganese-54	1.49E+02	1.43E+02	1.04	Acceptable
EZA	4th/2020	2/1/2021	E13181	Milk	pCi/L	Zinc-65	2.17E+02	1.90E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cerium-141	1.18E+02	1.06E+02	1.11	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-58	9.54E+01	8.92E+01	1.07	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cobalt-60	1.74E+02	1.61E+02	1.08	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Chromium-51	3.05E+02	2.68E+02	1.14	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-134	1.14E+02	1.14E+02	1.00	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Cesium-137	1.37E+02	1.35E+02	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iron-59	1.37E+02	1.19E+02	1.16	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Iodine-131	9.72E+01	9.57E+01	1.02	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Manganese-54	1.65E+02	1.51E+02	1.09	Acceptable
EZA	4th/2020	2/1/2021	E13182	Water	pCi/L	Zinc-65	2.29E+02	2.01E+02	1.14	Acceptable

**TABLE 3**

**2020 DEPARTMENT OF ENERGY MIXED ANALYTE PERFORMANCE EVALUATION PROGRAM (MAPEP) RESULTS**

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrF42	Filter	Bq/sample	Gross alpha	0.79	1.24	0.37-2.11	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrF42	Filter	Bq/sample	Gross beta	1.84	2.00	1.00-3.00	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross alpha	1.01	1.03	0.31-1.75	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-GrW42	Water	Bq/L	Gross beta	4.18	4.24	2.12-6.36	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Americium-241	43.0	40.9	28.6-53.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cesium-134	984	1114	780-1448	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cesium-137	1060	1020	714-1326	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cobalt-57	1200.000	1071	750-1392	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Cobalt-60	0.366		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Iron-55	950.0	1096	767-1425	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Manganese-54	961	945	662-1229	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Nickel-63	-0.727		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Plutonium-238	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Plutonium-239/240	38.0	41.8	29.3-54.3	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Potassium-40	618	625	438-813	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Strontium-90	286	340	238-442	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Technetium-99	728	706	494-918	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	U-234/233	43.2	40.3	28.2-52.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Uranium-238	64.6	68.0	48-88	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaS42	Soil	Bq/Kg	Zinc-65	784	751	526-976	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Americium-241	0.545	0.547	0.383-0.711	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-134	17.0	18.5	13.0-24.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cesium-137	12.0	11.3	7.9-14.7	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cobalt-57	19.7	19.7	13.8-25.6	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Cobalt-60	11.0	10.6	7.4-13.8	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Hydrogen-3	193	196	137-255	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Iron-55	18.2	17.8	12.5-23.1	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Manganese-54	20.6	19.6	13.7-25.5	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Nickel-63	14.1	11.1	7.8-14.4	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Plutonium-238	0.822	0.940	0.66-1.22	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Plutonium-239/240	0.686	0.737	0.516-0.958	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Potassium-40	-0.0485		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Radium-226	0.366	0.365	0.256-0.475	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Strontium-90	0.0122		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Technetium-99	3.72	3.63	2.54-4.72	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Uranium-234	1.02	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Uranium-238	0.98	0.95	0.67-1.24	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-MaW42	Water	Bq/L	Zinc-65	23.9	22.2	15.5-28.9	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-XaW42	Alk. Water	Bq/L	Iodine-129	1.01	1.001	0.701-1.301	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-235	0.0438	0.0460	0.0322-0.0598	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-238	6.39	6.3	4.4-8.2	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	ug/sample	Uranium-Total	6.43	6.3	4.4-8.2	Acceptable

MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Americium-241	0.0671	0.0675	0.0473-0.0878	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-134	0.626	0.600	0.420-0.780	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cesium-137	0.802	0.735	0.515-0.956	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cobalt-57	1.54	1.50	1.05-1.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Cobalt-60	1.29	1.23	0.86-1.60	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Manganese-54	0.0065		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-238	0.0341	0.0348	0.0244-0.0452	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Plutonium-239/240	0.0395	0.0379	0.0265-0.0493	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Strontium-90	0.884	0.97	0.68-1.26	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Uranium-234	0.0788	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Uranium-238	0.0801	0.078	0.055-0.101	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdF42	Filter	Bq/sample	Zinc-65	1.43	1.18	0.83-1.53	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Americium-241	0.0761	0.075	0.053-0.098	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-134	3.55	3.82	2.67-4.97	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cesium-137	2.83	2.77	1.94-3.60	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cobalt-57	0.00561		False Pos Test	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Cobalt-60	2.84	2.79	1.95-3.63	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Manganese-54	4.74	4.58	3.21-5.95	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Plutonium-238	0.0447	0.0472	0.0330-0.0614	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Plutonium-239/240	0.06950	0.0772	0.0540-0.1004	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Strontium-90	0.361	0.492	0.344-0.640	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Uranium-234	0.1070	0.102	0.071-0.133	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Uranium-238	0.1150	0.103	0.072-0.134	Acceptable
MAPEP	2nd/2020	07/02/20	MAPEP-20-RdV42	Vegetation	Bq/sample	Zinc-65	4.14	3.79	2.65-4.93	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Americium-241	1.2		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cesium-134	625	710	497-923	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cesium-137	0.87		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cobalt-57	1260	1100	770-1430	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Cobalt-60	998	1000	700-1300	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Iron-55	811	577	404-750	Not Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Manganese-54	661	610	427-793	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Nickel-63	840	980	686-1274	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Plutonium-238	53.1	57.7	40.4-75	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Plutonium-239/240	68.1	79.0	55-103	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Potassium-40	704	622	435-809	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Strontium-90	434	487	341-633	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Technetium-99	5		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	U-234/233	51	48	33.7-62.5	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Uranium-238	126	128	90-166	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaS43	Soil	Bq/Kg	Zinc-65	531	470	329-611	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Americium-241	0.942	0.922	0.645-1.199	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cesium-134	13.9	15.2	10.6-19.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cesium-137	15.10	14.3	10.0-18.6	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cobalt-57	-0.0072		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Cobalt-60	12.90	12.2	8.5-15.9	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Hydrogen-3	330	360	252-468	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Iron-55	29.20	32.9	23.0-42.8	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Manganese-54	-0.0032		False Pos Test	Acceptable

MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Nickel-63	-0.93		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Plutonium-238	0.6430	0.7040	0.493-0.915	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Plutonium-239/240	0.001	0.009	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Potassium-40	-0.763		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Radium-226	1.020	1.250	0.88-1.63	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Strontium-90	9.97	11.60	8.1-15.1	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Technetium-99	8.720	9.40	6.6-12.2	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-234/233	1.27	1.26	0.88-1.64	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Uranium-238	1.31	1.30	0.9-1.7	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-MaW43	Water	Bq/L	Zinc-65	18.9	16.9	11.8-22	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-235	0.0920	0.1020	0.071-0.133	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-238	13.1	14.6	10.2-19	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	ug/sample	Uranium-Total	13.2	14.7	10.3-19.1	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Americium-241	0.129	0.134	0.094-0.174	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-134	1.72	1.83	1.28-2.38	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cesium-137	1.04	0.996	0.697-1.295	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cobalt-57	0.00126		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Cobalt-60	1.85	1.73	1.21-2.25	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Manganese-54	1.64	1.40	0.98-1.82	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-238	0.0917	0.0867	0.0607-0.1127	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Plutonium-239/240	0.0019	0.0017	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Strontium-90	1.790	2.080	1.46-2.70	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Uranium-234/233	0.1820	0.175	0.123-0.228	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Uranium-238	0.1860	0.182	0.127-0.237	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdF43	Filter	Bq/sample	Zinc-65	2.29	2.00	1.40-2.60	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Americium-241	0.1040	0.103	0.072-0.134	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-134	4.5	4.94	3.46-6.42	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cesium-137	0.0134		False Pos Test	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cobalt-57	6.70	6.67	4.67-8.67	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Cobalt-60	4.27	4.13	2.89-5.37	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Manganese-54	6.04	5.84	4.09-7.59	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Plutonium-238	0.0002	0.001	Sens. Evaluation	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Plutonium-239/240	0.05370	0.0624	0.0437-0.0811	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Strontium-90	1.07	1.39	0.97-1.81	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Uranium-234/233	0.1270	0.1150	0.081-0.150	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Uranium-238	0.1260	0.1200	0.084-0.156	Acceptable
MAPEP	4th/2020	12/14/20	MAPEP-20-RdV43	Vegetation	Bq/sample	Zinc-65	7.04	6.38	4.47-8.29	Acceptable

**TABLE 4**  
**2020 ERA PROGRAM PERFORMANCE EVALUATION RESULTS**

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range	Evaluation
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Barium-133	59.2	64.5	53.7 - 71.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-134	21.5	22.9	17.5 - 25.6	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cesium-137	217	220	198 - 244	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Cobalt-60	97.7	91.2	82.1 - 103	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Zinc-65	332	298	268 - 348	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	67.1	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Alpha	55.4	58.9	30.8 - 73.3	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Gross Beta	20	21	12.6 - 29.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-226	15.6	17.4	12.9 - 19.9	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.71	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Radium-228	5.68	7.95	5.06 - 10.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Uranium (Nat)	64.8	68.2	55.7 - 75.0	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	15200	17800	15600 - 19600	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Tritium	17700	17800	15600 - 19600	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	73.3	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-89	70.8	59.3	47.6 - 67.1	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	38.3	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Strontium-90	30.6	36.5	26.8 - 42.1	Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	23.7*	29.9	24.9 - 34.9	Not Acceptable
ERA	1st/2020	2/24/20	RAD-120	Water	pCi/L	Iodine-131	31.8	29.9	24.9 - 34.9	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Tritium	13100	14100	12300 - 15500	Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	68.8	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Strontium-89	71.6	60.1	48.3 - 67.9	Not Acceptable
ERA	2nd/2020	05/26/20	RAD-121	Water	pCi/L	Iodine-131	27.5	28.9	24.1 - 33.8	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Barium-133	64.7	58.6	48.6 - 64.6	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-134	23	22.3	17.0 - 25.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cesium-137	76.5	73	65.7 - 83.0	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Cobalt-60	97.9	86.1	77.5 - 97.0	Not Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Zinc-65	96.3	82.9	74.6 - 99.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Alpha	54.3	52.4	27.3 - 65.6	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Gross Beta	24.7	24.3	15.0 - 32.3	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-226	9.42	10.8	8.08 - 12.5	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Radium-228	5.55	5.42	3.28 - 7.19	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat)	28.9	29.3	23.7 - 32.5	Acceptable

ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Uranium (Nat) mass	41.3	42.7	34.5 - 47.4	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Tritium	17800	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	µg/L	Tritium	20200	20300	17800 - 22300	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-89	61.7	68.9	56.2 - 77.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Strontium-90	18.2	19.5	13.9 - 23.1	Acceptable
ERA	3rd /2020	08/24/20	RAD - 122	Water	pCi/L	Iodine-131	29.9	26.1	21.7 - 30.8	Acceptable



**TABLE 5**  
**2020 ERA PROGRAM (MRAD) PERFORMANCE EVALUATION RESULTS**

PT Provider	Quarter / Year	Report Received Date	Sample Number	Sample Media	Unit	Analyte / Nuclide	GEL Value	Known value	Acceptance Range/ Ratio	Evaluation
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Actinium-228	3200	3170	2090 - 3990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Americium-241	1410	1730	934 - 2450	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-212	3160	3280	939 - 4890	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Bismuth-214	1870	2270	1090 - 3380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-134	5040	6200	4240 - 7410	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cesium-137	6830	7280	5510 - 9210	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Cobalt-60	4840	5170	4070 - 6380	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-212	3580	3280	2290 - 4150	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Lead-214	2380	2330	979 - 3660	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Manganese-54	<25.4	<1000	<1000	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-238	951	1010	504 - 1540	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Plutonium-239	1020	1240	676 - 1780	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Potassium-40	26000	24700	17000 - 29500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Strontium-90	1980	2550	794 - 3970	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Thorium-234	5090	4010	1510 - 6870	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3330	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-234	3910	3600	1690 - 4720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	3490	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-238	2950	3570	1960 - 4790	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6980	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Uranium-Total	6995	7340	4070 - 9490	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	10500	10700	4830 - 14400	Acceptable

ERA	2nd/2020	05/19/20	MRAD-32	Soil	µg/kg	Uranium-Total (mass)	8830	10700	4830 - 14400	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Soil	pCi/kg	Zinc-65	1070	1100	879 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Americium-241	3470	3950	2440 - 5580	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-134	1780	2150	1430 - 2860	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cesium-137	942	1030	792 - 1390	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Cobalt-60	987	997	783 - 1300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Curium-244	881	1050	592 - 1310	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Manganese-54	<39.6	<300	<300	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-238	1070	1150	796 - 1480	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Plutonium-239	227	232	160 - 294	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Potassium-40	35700	39300	29500 - 49800	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Strontium-90	1720	1720	970 - 2240	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-234	1750	1900	1330 - 2420	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-238	1780	1880	1330 - 2350	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Uranium-Total	3620	3870	2470 - 5220	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	µg/kg	Uranium-Total (mass)	5330	5640	4330 - 6990	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Vegetation	pCi/kg	Zinc-65	2740	2750	2050 - 4080	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Americium-241	64.9	74.7	53.3 - 99.6	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-134	1360	1390	902 - 1700	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cesium-137	370	351	288 - 460	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Cobalt-60	459	422	359 - 536	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Iron-55	1150	1260	460 - 2010	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Manganese-54	<3.87	<50.0	<50.0	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-238	21.9	28	21.1 - 34.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Plutonium-239	30.6	40.1	30.0 - 48.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Strontium-90	181	175	111 - 238	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	45.7	56.2	41.7 - 65.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-234	46.7	56.2	41.7 - 65.9	Acceptable

ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	46	55.7	42.1 - 66.5	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-238	39.6	55.7	42.1 - 66.5	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	94.5	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Uranium-Total	88.1	114	83.2 - 135	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	138	167	134 - 196	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	µg/Filter	Uranium-Total (mass)	118	167	134 - 196	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Zinc-65	798	694	569 - 1060	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Alpha	34.4	29.3	15.3 - 48.3	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Air Filter	pCi/Filter	Gross Beta	61.1	66.4	40.3 - 100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Americium-241	47.9	45.3	31.1 - 57.9	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-134	1420	1520	1150 - 1670	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cesium-137	2440	2390	2050 - 2720	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Cobalt-60	2890	2760	2380 - 3170	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Iron-55	140	152	89.3 - 221	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Manganese-54	<6.25	<100	<100	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-238	32.5	36.4	21.9 - 47.2	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Plutonium-239	29.7	33.6	20.8 - 41.4	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Strontium-90	426	447	322 - 552	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	187	186	142 - 213	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-234	226*	186	142 - 213	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	191	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-238	199	184	143 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	387	378	295 - 431	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Uranium-Total	434.3*	378	295 - 431	Not Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	572	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	µg/L	Uranium-Total (mass)	595	551	446 - 625	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Zinc-65	1330	1190	1060 - 1500	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Alpha	67.6	165	60.2 - 228	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable

ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Gross Beta	143	158	79.0 - 217	Acceptable
ERA	2nd/2020	05/19/20	MRAD-32	Water	pCi/L	Tritium	5990	6280	4730 - 7640	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Actinium-228	3530	3290	2170 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Americium-241	780	677	366 - 959	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-212	3780	3290	942 - 4900	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Bismuth-214	2970	3790	1820 - 5640	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-134	3760	4180	2860 - 5000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cesium-137	6890	6940	5250 - 8780	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Cobalt-60	2280	2520	1980 - 3110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3680	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Lead-214	3720	4080	1710 - 6410	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Manganese-54	<23.9	<1000	<1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Plutonium-238	1460	1670	833 - 2540	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Potassium-40	24600	24700	17000 - 29500	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Strontium-90	5110	4980	1550 - 7760	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Thorium-234	5370	4740	1790 - 8120	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	4550	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-234	5100	4780	2240 - 6260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4800	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-238	4870	4740	2600 - 6360	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	9590	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Uranium-Total	10189	9730	5400 - 12600	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total (mass)	14400	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	µg/kg	Uranium-Total (mass)	14600	14200	6410 - 19200	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Soil	pCi/kg	Zinc-65	1220	1120	895 - 1530	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Americium-241	2680	2940	1820 - 4150	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-134	862	945	627 - 1260	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cesium-137	735	823	633 - 1110	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Cobalt-60	663	691	542 - 903	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Curium-244	3100	3400	1920 - 4230	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Manganese-54	<47.5	<300	<300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-238	4470	4590	3180 - 5920	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Plutonium-239	838	768	531 - 972	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Potassium-40	33500	34500	25900 - 43700	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Strontium-90	8790	8690	4900 - 11300	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-234	2650	2920	2050 - 3720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-238	2720	2900	2050 - 3630	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Uranium-Total	5510	5950	3800 - 8020	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	µg/kg	Uranium-Total (mass)	8150	8680	6660 - 10800	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Vegetation	pCi/kg	Zinc-65	1640	1580	1180 - 2340	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Americium-241	22.3	22.2	15.8 - 29.6	Acceptable

ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-134	268	296	192 - 363	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cesium-137	407	413	339 - 542	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Cobalt-60	507	497	422 - 631	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Iron-55	361	407	149 - 649	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Manganese-54	<3.82	<50.0	<50.0	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-238	25.3	28.8	21.7 - 35.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Plutonium-239	31	33.7	25.2 - 40.7	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Strontium-90	30.5	36.2	22.9 - 49.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	16.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-234	19.5	18.3	13.6 - 21.4	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.5	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-238	18.2	18.1	13.7 - 21.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Uranium-Total	35.8	37.2	27.2 - 44.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total (mass)	55.3	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	µg/Filter	Uranium-Total (mass)	54.4	54.3	43.6 - 63.6	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Zinc-65	540	500	410 - 764	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Alpha	32.2	26.1	13.6 - 43.0	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Air Filter	pCi/Filter	Gross Beta	94.2	85.9	52.1 - 130	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Americium-241	185	176	121 - 225	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-134	849	911	688 - 1000	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cesium-137	1540	1510	1290 - 1720	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Cobalt-60	1660	1560	1350 - 1790	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Iron-55	267	298	175 - 433	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Manganese-54	<4.61	<100	<100	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-238	160	191	115 - 247	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Plutonium-239	81.7	100	61.9 - 123	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Strontium-90	917	787	567 - 973	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	33.8	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-234	39.2	35.2	26.8 - 40.3	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	34.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	32.7	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-238	37.3	34.9	27.0 - 41.1	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	70.4	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Uranium-Total	78.2	71.8	56.0 - 81.9	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total (mass)	104	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	µg/L	Uranium-Total (mass)	112	105	85.0 - 119	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Zinc-65	1010	917	816 - 1160	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Alpha	100	111	40.5 - 153	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Gross Beta	181	194	97.0 - 267	Acceptable
ERA	4th/2020	11/16/20	MRAD-33	Water	pCi/L	Tritium	11600	12000	9040 - 14600	Acceptable

FIGURE 1

COBALT-60 PERFORMANCE EVALUATION RESULTS AND % BIAS

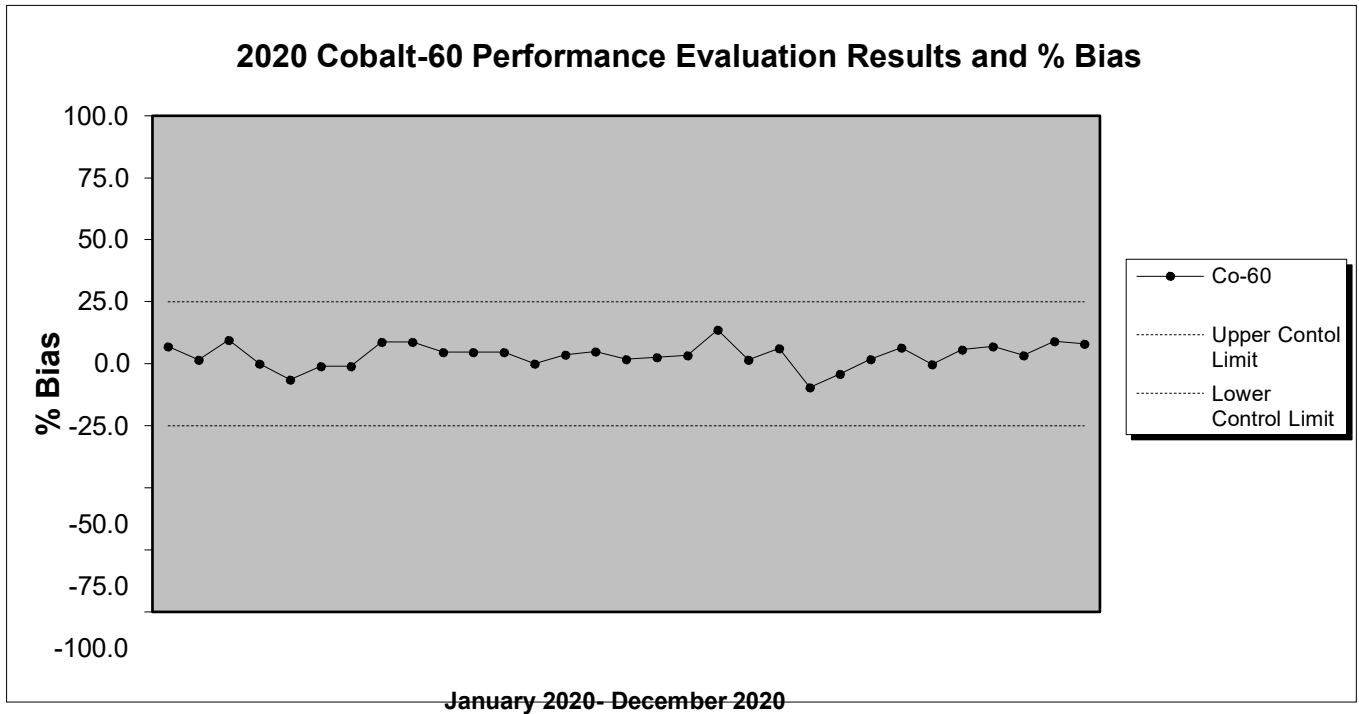


FIGURE 2

CESIUM-137 PERFORMANCE EVALUATION RESULTS AND % BIAS

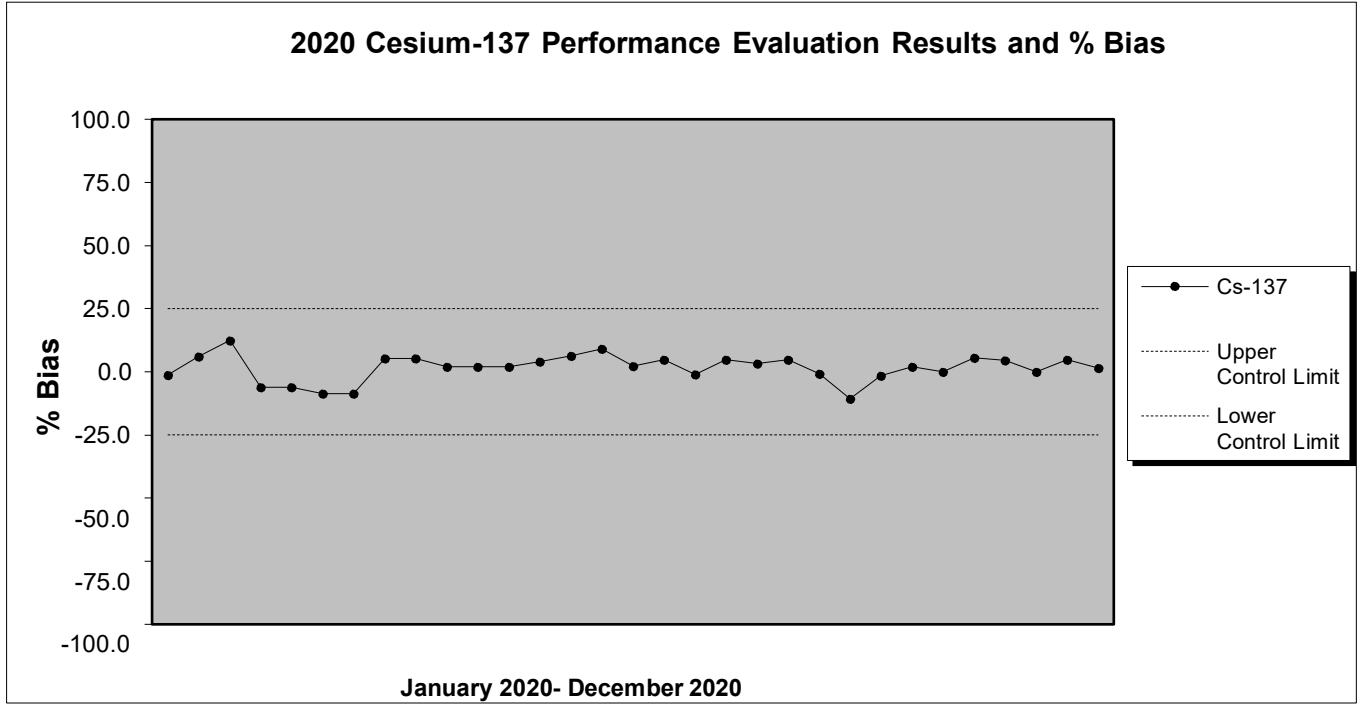


FIGURE 3

TRITIUM PERFORMANCE EVALUATION RESULTS AND % BIAS

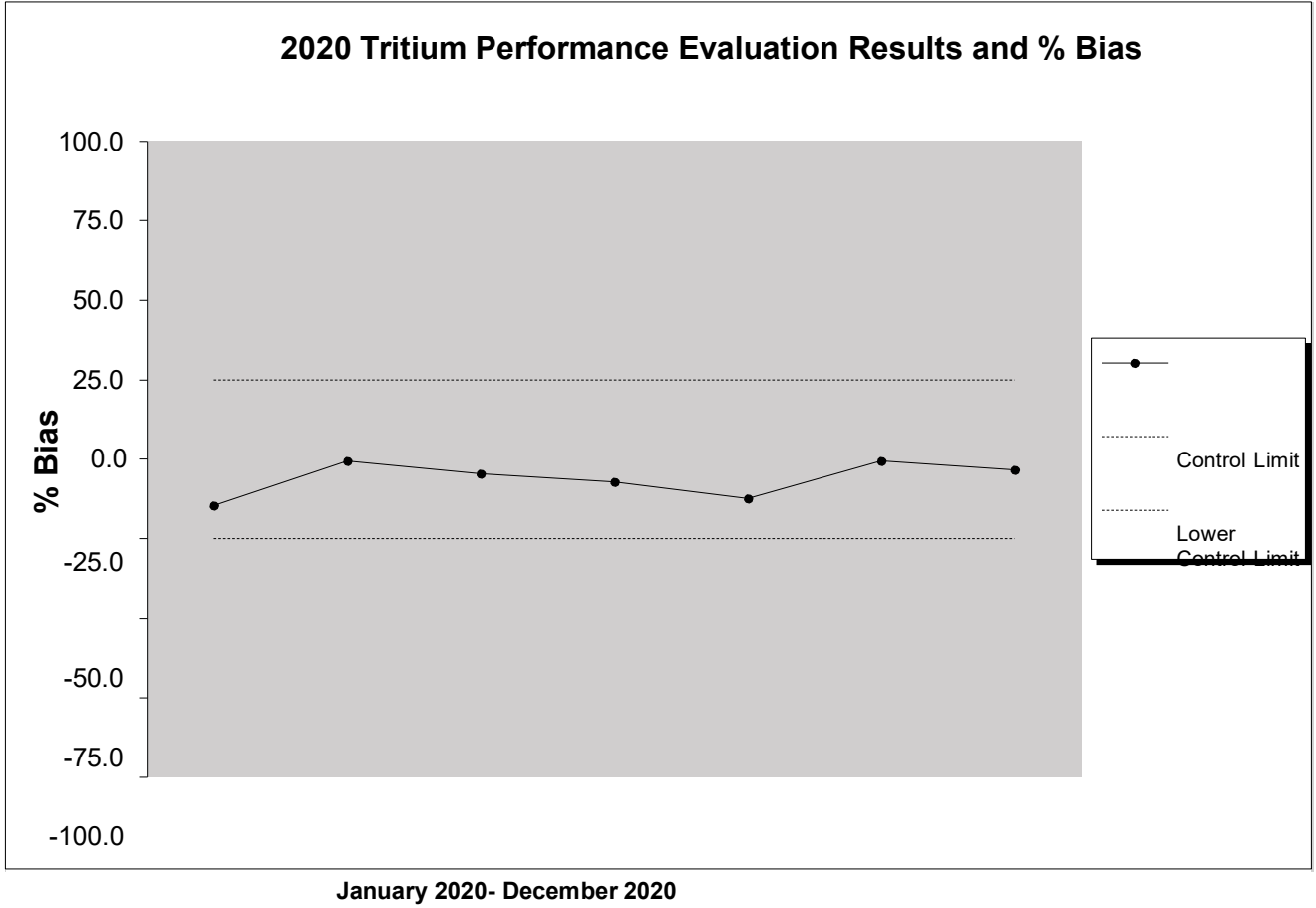




FIGURE 4

STRONTIUM-90 PERFORMANCE EVALUATION RESULTS AND % BIAS

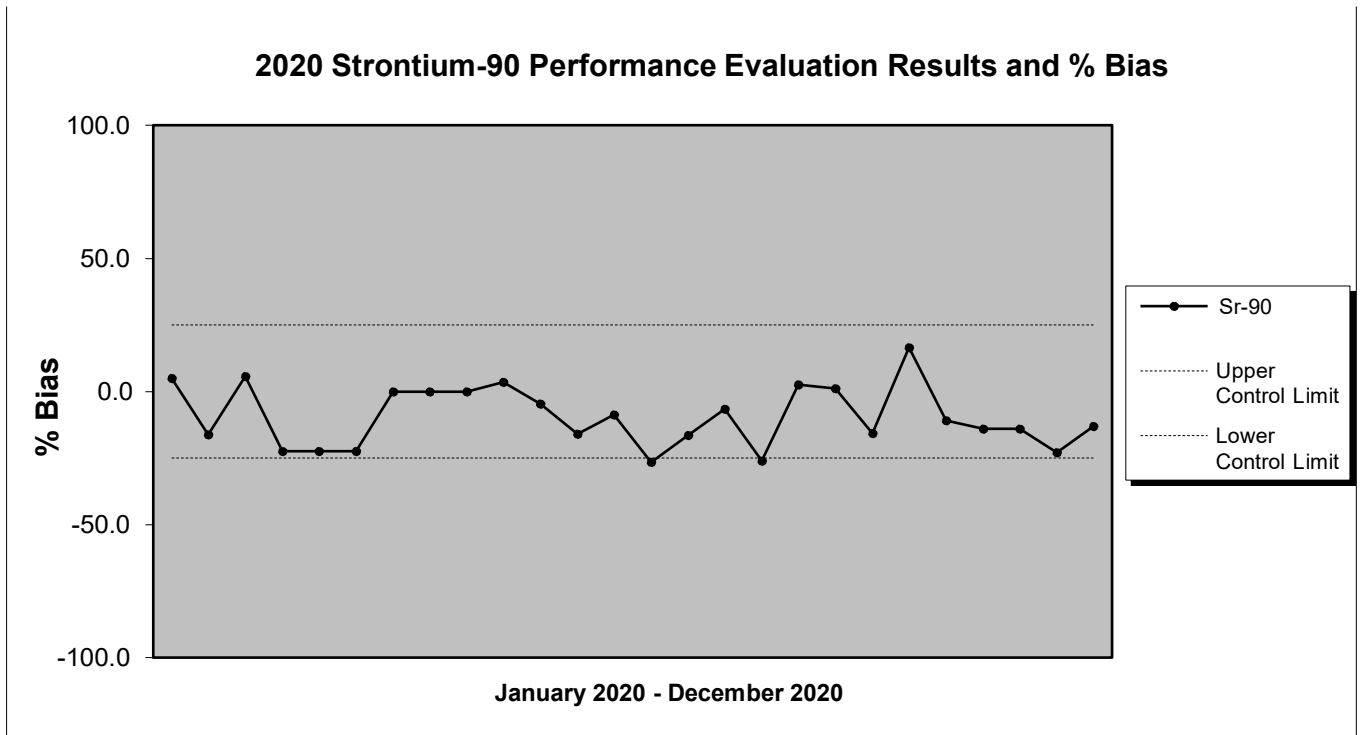


FIGURE 5

GROSS ALPHA PERFORMANCE EVALUATION RESULTS AND % BIAS

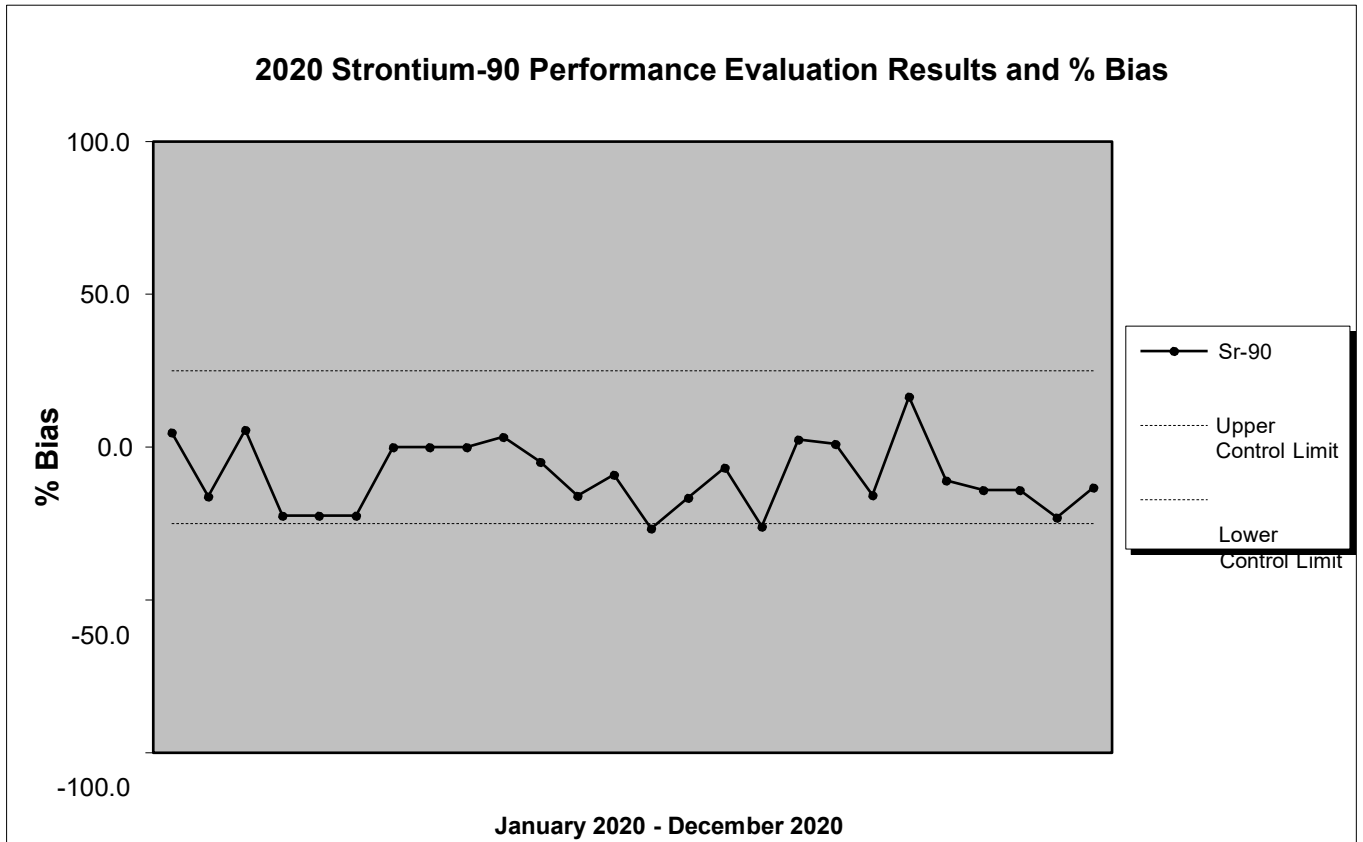


FIGURE 6

GROSS BETA PERFORMANCE EVALUATION RESULTS AND % BIAS

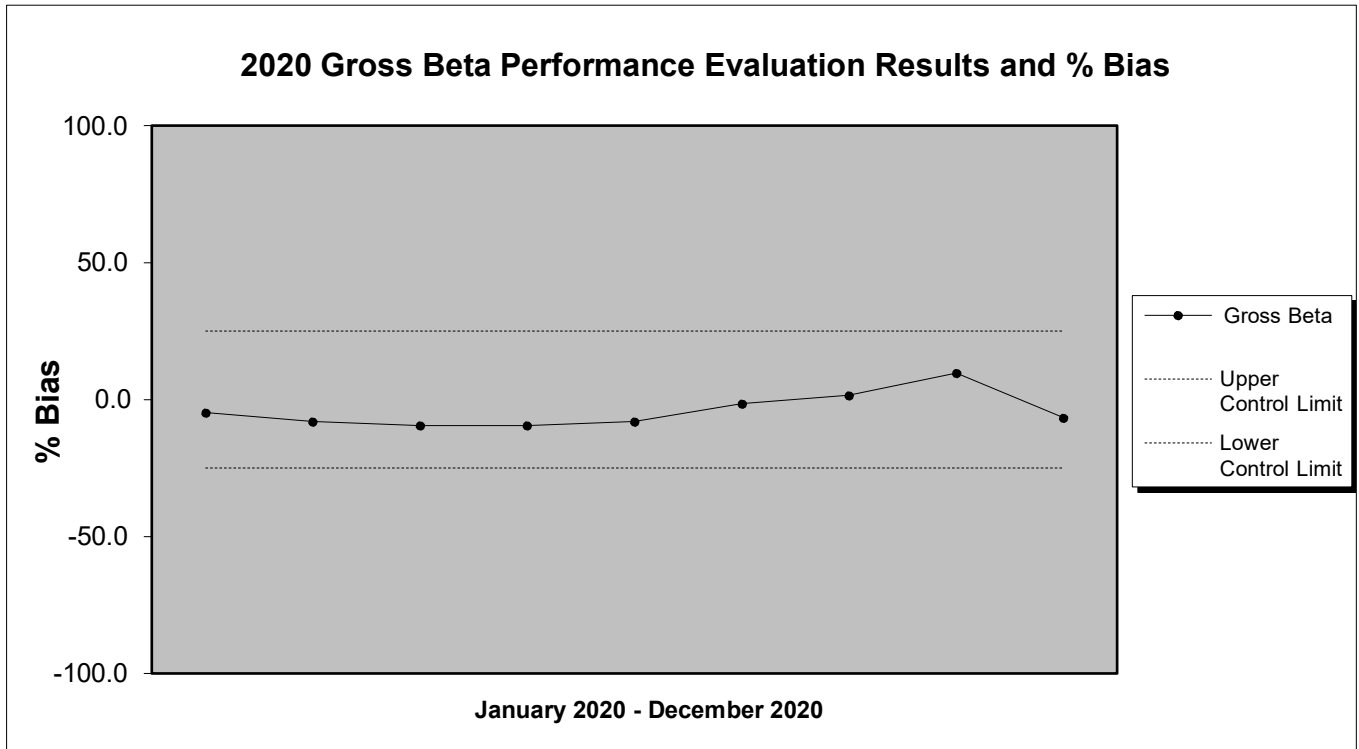


FIGURE 7

IODINE-131 PERFORMANCE EVALUATION RESULTS AND % BIAS

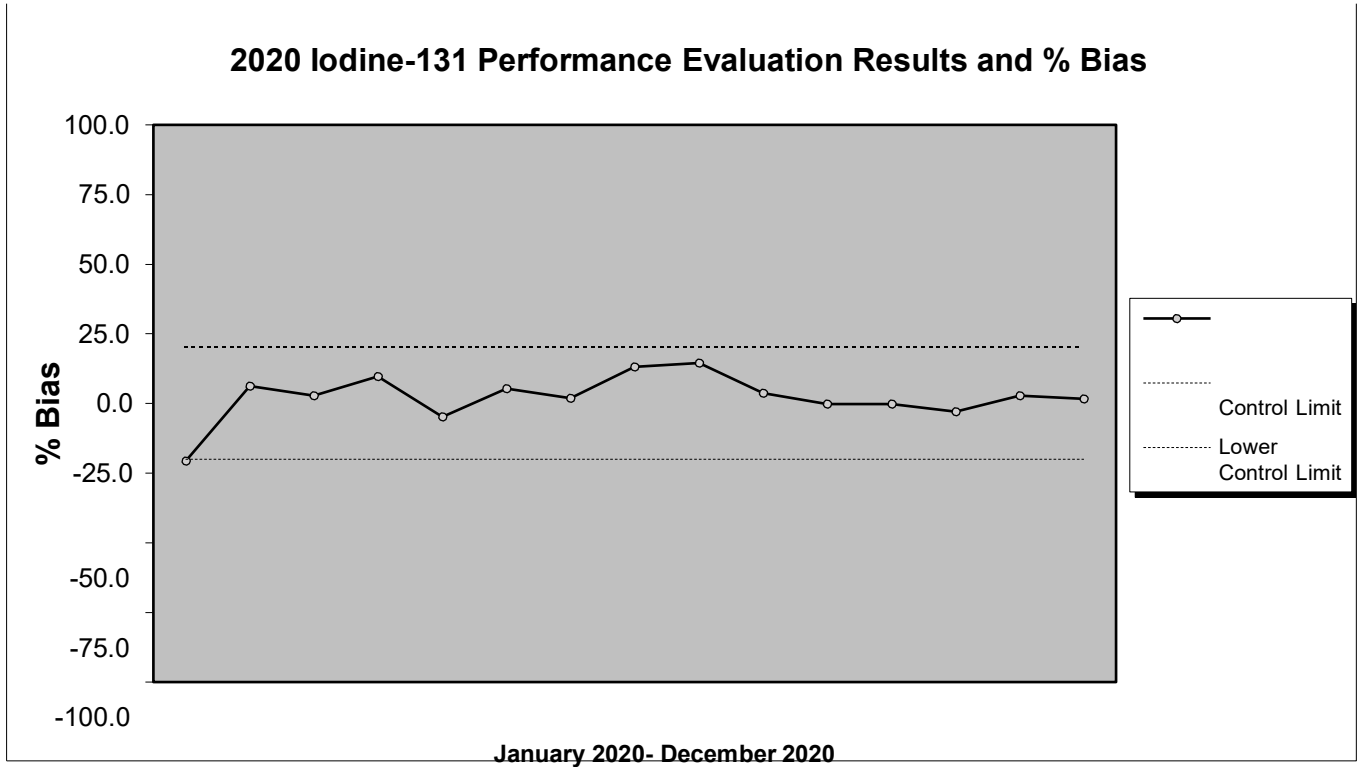


FIGURE 8

AMERICIUM-241 PERFORMANCE EVALUATION RESULTS AND % BIAS

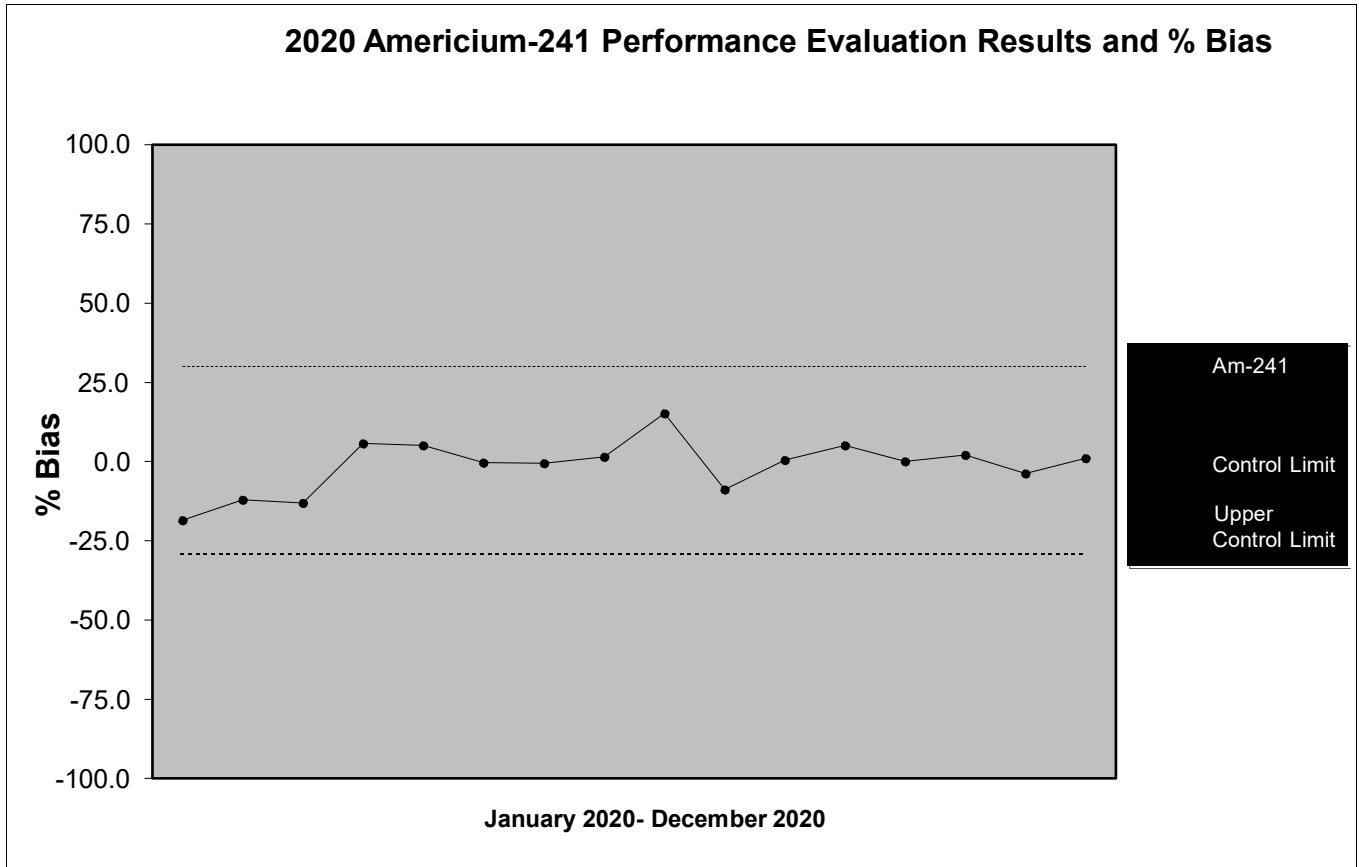
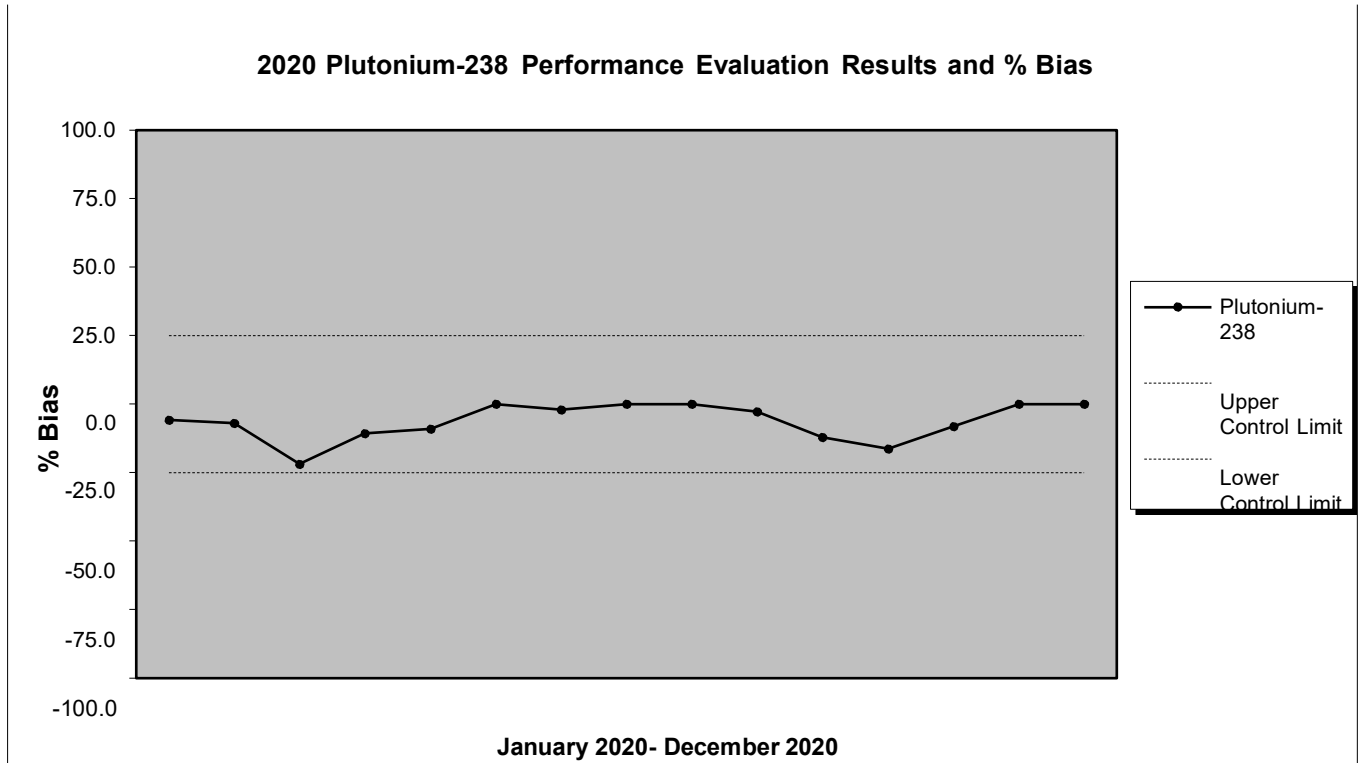


FIGURE 9

PLUTONIUM-238 PERFORMANCE EVALUATION RESULTS AND % BIAS



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

2020 Total REMP Intra-Laboratory Data	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
<b>MILK</b>				
Gas Flow Sr 2nd count	46	0	57	0
Gas Flow Total Strontium	16	0	16	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	82	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	3	0
<b>SOLID</b>				
Gamma Spec Solid RAD A-013	9	0	12	0
LSC Nickel 63	4	0	4	0
Gas Flow Sr 2nd count	4	0	7	0
Gas Flow Total Strontium	3	0	4	0
Gamma Spec Solid RAD A-013 with Iodine	22	0	48	0
<b>FILTER</b>				
Gross A & B	512	0	362	0
Gamma Spec Filter	43	0	83	0
<b>LIQUID</b>				
Alpha Spec Uranium	1	0	1	0
Tritium	212	0	271	0
LSC Iron-55	17	0	15	0
LSC Nickel 63	17	0	15	0
Gamma Iodine-131	6	0	7	0
Alpha Spec Plutonium	1	0	1	0
Gas Flow Sr 2nd count	2	0	3	0
Alpha Spec Am241 Curium	1	0	1	0
Gas Flow Total Strontium	16	0	14	0
Gross Alpha Non Vol Beta	33	0	71	0
Gamma Spec Liquid RAD A-013 with Ba, La	76	0	191	0
Gamma Spec Liquid RAD A-013 with Iodine	25	0	80	0
<b>TISSUE</b>				
Gamma Spec Solid RAD A-013	40	0	49	0
Gas Flow Sr 2nd count	12	0	10	0
Gas Flow Total Strontium	8	0	7	0
Gamma Spec Solid RAD A-013 with Iodine	21	0	21	0
<b>VEGETATION</b>				
Gamma Spec Solid RAD A-013	13	0	13	0
Gas Flow Sr 2nd count	10	0	11	0
Gamma Spec Solid RAD A-013 with Iodine	83	0	110	0
<b>AIR CHARCOAL</b>				
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	35	0	35	0

<b>DRINKING WATER</b>				
Tritium	36	0	39	0
LSC Iron-55	14	0	16	0
LSC Nickel 63	14	0	16	0
Gamma Iodine-131	31	0	22	0
Gas Flow Sr 2nd count	15	0	14	0
Gas Flow Total Strontium	13	0	15	0
Gross Alpha Non Vol Beta	77	0	82	0
Gamma Spec Liquid RAD A-013 with Ba, La	21	0	73	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	6	0
<b>Total</b>	<b>1537</b>		<b>1887</b>	

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:**

2020 Total All Intra-Laboratory Data	Bias Criteria (+ / - 25%)		Precision Criteria (Note 1)	
	WITHIN CRITERIA	OUTSIDE CRITERIA	WITHIN CRITERIA	OUTSIDE CRITERIA
<b>MILK</b>				
Gamma Spec Liquid RAD A-013	5	0	5	0
Gamma Iodine-129	6	0	6	0
Gamma Iodine-131	5	0	116	0
Gas Flow Sr 2nd count	46	0	57	0
Gas Flow Strontium 90	10	0	11	0
Gas Flow Total Strontium	16	0	16	0
Gamma Spec Liquid RAD A-013 with Ba, La	28	0	82	0
Gamma Spec Liquid RAD A-013 with Iodine	5	0	7	0
<b>SOLID</b>				
Gas Flow Radium 228	71	0	75	0
Alpha Spec Neptunium	471	0	455	0
Tritium	345	0	406	0
Tritium by Pyrolysis	0	0	1	0
Carbon-14	232	0	283	0
Carbon-14 by Pyrolysis	0	0	1	0
LSC Iron-55	135	0	146	0
Alpha Spec Polonium Solid	37	0	52	0
Gamma Nickel 59 RAD A-022	140	0	156	0
LSC Chlorine-36 in Solids	1	0	2	0
Gamma Spec Ra226 RAD A-013	22	0	25	0
Gamma Spec Solid RAD A-013	1122	0	1398	0
LSC Nickel 63	201	0	215	0
LSC Plutonium	219	0	234	0
Technetium-99	543	0	564	0
Gamma Spec Liquid RAD A-013	1	0	1	0
Gross Alpha Beta Soil Leach	31	0	31	0
ICP-MS Technetium-99 in Soil	6	0	3	0
LSC Selenium 79	15	0	19	0
Total Activity,	8	0	13	0
Tritium	26	0	27	0
Alpha Spec Am243	89	0	108	0
Gamma Iodine-129	93	0	160	0
Gas Flow Lead 210	19	0	23	0
Alpha Spec Uranium	746	0	900	0
LSC Promethium 147	1	0	4	0
LSC, Rapid Strontium 89 and 90	67	0	74	0

Alpha Spec Thorium	470	0	567	0
ICP-MS Uranium-233, 234 in Solid	55	0	57	0
LSC Sulfur 35	2	0	3	0
Alpha Spec Neptunium (pCi/Sample)	3	0	3	0
Alpha Spec Plutonium	509	0	486	0
ICP-MS Technetium-99 Prep in Soil	6	0	3	0
LSC Calcium 45	0	0	1	0
Alpha Spec Plutonium	158	0	232	0
Alpha Spec Radium 226	34	0	45	0
Dissolution Soil Prep	4	0	4	0
Gas Flow Sr 2nd count	27	0	35	0
Gas Flow Strontium 90	335	0	308	0
Gas Flow Total Radium	2	0	2	0
Lucas Cell Radium 226	98	0	116	0
Alpha Spec Am241 Curium	438	0	483	0
Alpha Spec Total Uranium	62	0	64	0
Gas Flow Total Strontium	51	0	53	0
ICP-MS Uranium-233, 234 Prep in Solid	57	0	59	0
ICP-MS Uranium-235, 236, 238 in Solid	57	0	65	0
Alpha Spec Polonium Solid	3	0	3	0
Gamma Spec Solid RAD A-013 with Iodine	22	0	48	0
GFC Chlorine-36 in Solids	13	0	19	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	6	0	5	0
Technetium-99	3	0	3	0
Tritium	1	0	3	0
Alpha Spec Am241 (pCi/Sample)	3	0	3	0
ICP-MS Uranium-234, 235, 236, 238 in Solid	223	0	264	0
ICP-MS Uranium-235, 236, 238 Prep in Solid	65	0	81	0
Alpha Spec Thorium	2	0	3	0
Gross Alpha/Beta (Am/Cs Calibration) Solid	0	0	2	0
ICP-MS U-234, 235, 236, 238 Prep per sample	13	0	13	0
Gross Alpha/Beta	403	0	502	0
Alpha Spec Plutonium	3	0	3	0
Gas Flow Strontium 90	3	0	3	0
Gross Alpha/Beta (Americium Calibration) Solid	1	0	1	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Solid	93	0	149	0
Gross Alpha Beta (F,U)	30	0	33	0
<b>FILTER</b>				
Alpha Spec Polonium	0	0	8	0
Gamma I-131, filter	5	0	5	0
Alpha Spec Neptunium	69	0	109	0
LSC Plutonium Filter	74	0	129	0
Tritium	34	0	242	0

Carbon-14 Direct Count	0	0	54	0
Carbon-14	1	0	97	0
ICP-MS Tc-99 in Filter	0	0	5	0
Nickel-63	0	0	25	0
LSC Iron-55	76	0	94	0
Gamma Nickel 59 RAD A-022	84	0	110	0
Alpha Spec Californium FPL	12	0	12	0
LSC Nickel 63	71	0	98	0
Technetium-99	7	0	103	0
Gamma Spec Filter RAD A-013	158	0	246	0
ICP-MS Tc-99 Prep in Filter	0	0	9	0
Alphaspec Np Filter per Liter	19	0	24	0
Alphaspec Pu Filter per Liter	19	0	33	0
Gamma Iodine-129	1	0	79	0
Alpha Spec Am243	17	0	38	0
Gas Flow Lead 210	1	0	6	0
Alpha Spec Uranium	49	0	118	0
LSC Promethium 147	0	0	1	0
LSC, Rapid Strontium 89 and 90	89	0	107	0
Alpha Spec Thorium	34	0	91	0
Gas Flow Radium 228	2	0	16	0
Alpha Spec Plutonium	48	0	121	0
ICP-MS Uranium-233, 234 in Filter	1	0	10	0
LSC Sulfur 35	0	0	1	0
Alpha Spec Plutonium	96	0	176	0
Alpha Spec Plutonium	11	0	11	0
Alpha Spec Polonium,(Filter/Liter)	0	0	2	0
Alpha Spec Radium 226	0	0	13	0
Gas Flow Sr 2nd Count	34	0	60	0
Gas Flow Strontium 90	57	0	101	0
Gas Flow Total Radium	1	0	5	0
LSC Plutonium 241 Filter per Liter	20	0	45	0
Lucas Cell Radium-226	0	0	12	0
Alpha Spec Am241Curium	101	0	181	0
ICP-MS Uranium-233, 234 Prep in Filter	1	0	9	0
ICP-MS Uranium-235, 236, 238 in Filter	4	0	13	0
Total Activity in Filter,	0	0	51	0
Alphaspec Am241 Curium Filter per Liter	33	0	76	0
Tritium	96	0	130	0
GFC Chlorine-36 in Filters	0	0	1	0
Gamma Spec Filter RAD A-013 Direct Count	3	0	9	0
Carbon-14	22	0	35	0
GFC Chlorine-36 in Filters PL	1	0	1	0
Gross A & B (Americium Calibration) Liquid	1	0	42	0
Direct Count-Gross Alpha/Beta	89	0	0	0
Gross Alpha/Beta	41	0	57	0

ICP-MS Uranium-234, 235, 236, 238 in Filter	7	0	55	0
ICP-MS Uranium-235, 236, 238 Prep in Filter	4	0	12	0
Alpha Spec U	33	0	77	0
Gross A & B	568	0	443	0
LSC Iron-55	8	0	17	0
Technetium-99	29	0	49	0
Gas Flow Sr-90	19	0	45	0
LSC Nickel 63	37	0	45	0
Gamma Spec Charcoal	11	0	11	0
Gas Flow Pb-210	13	0	34	0
Gas Flow Ra-228	13	0	28	0
Gross Alpha Beta (Flame, Unflame)	10	0	10	0
Direct Count- Alpha/Beta (Americium Calibration)	21	0	0	0
Gamma Iodine 129	8	0	8	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Filter	3	0	27	0
Gamma Spec Filter	99	0	154	0
Lucas Cell Ra-226	8	0	38	0
Alpha Spec Thorium	23	0	47	0
<b>LIQUID</b>				
Alpha Spec Uranium	496	0	756	0
Alpha Spec Polonium	19	0	20	0
Alpha Spec Neptunium	172	0	236	0
Tritium	1276	0	1383	0
Carbon-14	186	0	219	0
Plutonium	131	0	151	0
Chlorine-36 in Liquids	4	0	5	0
Iodine-131	6	0	4	0
LSC Iron-55	100	0	167	0
Gamma Nickel 59 RAD A-022	27	0	43	0
Gamma Iodine 131 RAD A-013	2	0	2	0
LSC Nickel 63	144	0	197	0
LSC Radon 222	18	0	22	0
Technetium-99	673	0	720	0
Gamma Spec Liquid RAD A-013	859	0	970	0
Alpha Spec Total U RAD A-011	24	0	40	0
LSC Selenium 79	38	0	38	0
Total Activity,	15	0	20	0
Alpha Spec Am243	20	0	26	0
Gamma Iodine-129	145	0	182	0
Gamma Iodine-131	6	0	7	0
ICP-MS Technetium-99 in Water	8	0	9	0
Gas Flow Lead 210	11	0	16	0
Gross Alpha, Beta	5	0	5	0
LSC Promethium 147	22	0	22	0
LSC, Rapid Strontium 89 and 90	9	0	15	0

Alpha Spec Thorium	237	0	316	0
Gas Flow Radium 228	14	0	7	0
Gas Flow Radium 228	682	0	728	0
Alpha Spec Plutonium	354	0	482	0
LSC Sulfur 35	17	0	17	0
Alpha Spec Plutonium	41	0	51	0
Alpha Spec Radium 226	32	0	37	0
Gas Flow Sr 2nd count	102	0	161	0
Gas Flow Strontium 90	511	0	584	0
Gas Flow Strontium 90	5	0	5	0
Gas Flow Total Radium	428	0	328	0
ICP-MS Technetium-99 Prep in Water	8	0	9	0
ICP-MS Uranium-233, 234 in Liquid	7	0	11	0
LSC Calcium 45	15	0	15	0
Lucas Cell Radium 226	372	0	597	0
Lucas Cell Radium-226	12	0	13	0
Chlorine-36 in Liquids	19	0	21	0
Alpha Spec Am241 Curium	317	0	427	0
Gas Flow Total Strontium	100	0	103	0
Gross Alpha Non Vol Beta	868	0	1213	0
LSC Phosphorus-32	4	0	4	0
ICP-MS Uranium-233, 234 Prep in Liquid	5	0	9	0
Tritium in Drinking Water by EPA 906.0	5	0	5	0
Gamma Spec Liquid RAD A-013 with Ba, La	78	0	203	0
Gamma Spec Liquid RAD A-013 with Iodine	97	0	174	0
Gas Flow Strontium 89 & 90	2	0	3	0
ICP-MS Uranium-235, 236, 238 in Liquid	11	0	13	0
Gas Flow Total Alpha Radium	15	0	15	0
Gross Alpha Co-precipitation	3	0	28	0
ICP-MS Uranium-235, 236, 238 Prep in Liquid	7	0	11	0
Gross Alpha/Beta	0	0	1	0
ICP-MS Uranium-234, 235, 236, 238 in Liquid	147	0	132	0
Gross Alpha Beta (Flame, Unflame)	284	0	303	0
Gross Alpha Beta (Americium Calibration) Liquid	47	0	95	0
ICP-MS Uranium-234, 235, 236, 238 Prep in Liquid	69	0	66	0
Alpha/Beta (Americium Calibration) Drinking Water	38	0	37	0
<b>TISSUE</b>				
Gamma Spec Solid RAD A-013	48	0	63	0
Alpha Spec Uranium	5	0	6	0
Alpha Spec Plutonium	5	0	5	0
Gas Flow Sr 2nd count	12	0	10	0
Gas Flow Strontium 90	7	0	6	0
Alpha Spec Am241 Curium	3	0	3	0

Gas Flow Total Strontium	8	0	7	0
Gamma Spec Solid RAD A-013 with Iodine	21	0	21	0
Gross Alpha/Beta	3	0	3	0
<b>VEGETATION</b>				
Carbon-14	3	0	2	0
Gamma Spec Solid RAD A-013	39	0	36	0
Tritium	2	0	1	0
Gas Flow Lead 210	0	0	5	0
Alpha Spec Uranium	25	0	21	0
Alpha Spec Thorium	10	0	10	0
Alpha Spec Plutonium	24	0	17	0
Gas Flow Sr 2nd count	10	0	11	0
Gas Flow Strontium 90	21	0	14	0
Gas Flow Total Radium	3	0	5	0
Alpha Spec Am241 Curium	6	0	5	0
Gamma Spec Solid RAD A-013 with Iodine	83	0	110	0
Gamma Spec Solid RAD A-013 (pCi/Sample)	3	0	3	0
Alpha Spec Am241 (pCi/Sample)	3	0	3	0
Alpha Spec Uranium	0	0	3	0
Gross Alpha/Beta	5	0	8	0
Alpha Spec Plutonium	0	0	3	0
Gas Flow Strontium 90	6	0	3	0
<b>AIR CHARCOAL</b>				
Gamma Iodine-129	19	0	8	0
Carbon-14	15	0	15	0
Carbon-14 (Ascarite/Soda Lime Filter per Liter)	35	0	35	0
Gamma Spec Charcoal	15	0	15	0
Gamma Iodine 129	15	0	15	0
<b>DRINKING WATER</b>				
Alpha Spec Uranium	2	0	1	0
Tritium	38	0	41	0
LSC Iron-55	14	0	16	0
LSC Nickel 63	14	0	16	0
LSC Radon 222	9	0	10	0
Gamma Spec Liquid RAD A-013	4	0	4	0
Gamma Iodine-129	3	0	5	0
Gamma Iodine-131	31	0	22	0
Gas Flow Lead 210	1	0	1	0
Gas Flow Radium 228	43	0	46	0
Gas Flow Radium 226	0	0	3	0
Gas Flow Sr 2nd count	15	0	14	0
Gas Flow Strontium 90	12	0	13	0
Gas Flow Total Radium	2	0	1	0
Lucas Cell Radium 226	3	0	3	0
Lucas Cell Radium-226	48	0	46	0

Gamma Spec Drinking Water RAD A-013	35	0	28	0
Gas Flow Total Strontium	13	0	15	0
Gross Alpha Non Vol Beta	175	0	188	0
Tritium in Drinking Water by EPA 906.0	44	0	44	0
Gamma Spec Liquid RAD A-013 with Ba, La	21	0	73	0
Gamma Spec Liquid RAD A-013 with Iodine	0	0	6	0
Gas Flow Strontium 89 & 90	18	0	4	0
Alpha/Beta (Americium Calibration) Drinking Water	13	0	11	0
ECLS-R-GA NJ 48 Hr Rapid Gross Alpha	5	0	5	0
<b>Total</b>		<b>20799</b>		<b>26108</b>

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**  
**2020 CORRECTIVE ACTION REPORT SUMMARY**

CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
CORRECTIVE ACTION ID# & PE FAILURE	DISPOSITION
<p>CARR 201214-1296</p> <p>ISO Documentation of PT Failure in MAPEP 43:</p> <ul style="list-style-type: none"> <li>• Fe-55 in soil</li> </ul>	<p>Root Cause Analysis</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 the method. Additionally, all internal procedures and policies were performed as required. These failures were tracked through GEL's internal non-conformance system.</p> <p>Iron-55:</p> <p>The laboratory reviewed the data and noted that the tracer recoveries for this analysis were lower than typical soil tracer recoveries. The lower tracer recoveries contributed to an uncertainty of approximately 25%.</p> <p><b>The sample was recounted and recovered at 97% of the known value.</b></p> <p>Permanent Corrective/Preventive Actions or Improvements</p> <p>None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes.</p>
<p>CARR 200902-1287</p> <p>ISO Documentation of PT Failure in RAD-122 in drinking water for:</p> <ul style="list-style-type: none"> <li>• Ba-133</li> <li>• Co-60</li> </ul>	<p>Root Cause Analysis</p> <p>The data was reviewed and no anomalies were noted. The batch duplicate result from the original analysis met the acceptance criteria of the study and replication criteria of the laboratory with RPDs of &lt;10% for both isotopes. Laboratory processes were evaluated and no gross errors were found. The other reported analytes for this method were within the limits of the study. A definitive contributor to the slightly high bias could not be identified concluding that this was an isolated occurrence for these isotopes.</p> <p>Permanent Corrective/Preventive Actions or Improvements</p>



	<p>None at this time. The laboratory will continue to monitor the recoveries of these parameters to ensure that there are no continued issues in the processes</p>
<p>CARR 200902-1278</p> <p>ISO Documentation of PT Failure in MRAD – 32 for</p> <ul style="list-style-type: none"> <li>• U-238 filter</li> <li>• Total U (mass) filter</li>   <li>• U-234 water</li> <li>• Total U water</li> </ul>	<p>Root Cause Analysis</p> <p>Filter: The sample was analyzed at 20X. As part of the investigation, the sample was reanalyzed at 5X and the results were within acceptance limits.</p> <p>Water: The samples were reanalyzed, and the results were within the acceptance limits. In reviewing the data, the laboratory suspects a possible bias in the lower end of the calibration.</p> <p>Permanent Corrective/Preventive Actions or Improvements</p> <p>Filter: The laboratory will be analyzing the sample without dilutions. The dilutions will only be performed when necessary.</p> <p>Water: The laboratory will be adding another point to the lower end of the calibration to remove potential bias in that section of the calibration.</p> <p><b>The laboratory successfully analyzed these isotopes during the next round of MRAD samples.</b></p>
<p>CARR 200224-1274</p> <p>ISO Documentation of PT failures in drinking water of RAD-120 for</p> <ul style="list-style-type: none"> <li>• Sr-89</li> <li>• Tritium</li> <li>• I - 131</li> </ul>	<p>Root Cause Analysis</p> <p>Strontium-89-A review of the data and the preparation processes did not reveal any errors or possible contributors to the high bias. In addition, the reported values are 117% and 114% of the reference value which are with the laboratory's standard acceptance criteria of +/- 25% for Laboratory Control Samples.</p> <p>Tritium-All data and laboratory processes were evaluated, and no errors were found. The Laboratory has concluded that this low bias was an isolated occurrence and that the overall process is within control.</p> <p>Iodine-131- The laboratory has reviewed the data and found no errors. All batch QC samples including a duplicate, met acceptability criteria. The laboratory will continue to investigate all steps of the analytical process.</p> <p>Permanent Corrective/Preventive Actions or Improvements</p> <p>None needed at this time. The laboratory must assume unidentified random errors caused the biases because all quality control criteria were met in the batch.</p> <p>Subsequent analyses of these isotopes for drinking water were acceptable in other PT samples during the year.</p>

**ENVIRONMENTAL DOSIMETRY COMPANY**

**ANNUAL QUALITY ASSURANCE STATUS REPORT**

**January - December 2020**

Prepared By: Jim Smith Date: 3/22/21

Approved By: NCM [Signature] Date: 3/22/21

**Environmental Dosimetry Company  
10 Ashton Lane  
Sterling, MA 01564**

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## EXECUTIVE SUMMARY

Routine quality control (QC) testing was performed for dosimeters issued by the Environmental Dosimetry Company (EDC) .

During this annual period 100% (72/72) of the individual dosimeters, evaluated against the EDC internal performance acceptance criteria (high-energy photons only), met the criterion for accuracy and 100% (72/72) met the criterion for precision (Table 1). In addition, 100% (12/12) of the dosimeter sets evaluated against the internal tolerance limits met EDC acceptance criteria (Table 2) and 100% (6/6) of independent testing passed the performance criteria (Table 3). Trending graphs, which evaluate performance statistic for high-energy photon irradiations and co-located stations are given in Appendix A.

One internal assessment and one external audit were performed in 2020. There was one deficiency issued in the external audit.

## I. INTRODUCTION

The TLD systems at the Environmental Dosimetry Company (EDC) are calibrated and operated to ensure consistent and accurate evaluation of TLDs. The quality of the dosimetric results reported to EDC clients is ensured by in-house performance testing and independent performance testing by EDC clients, and both internal and client directed program assessments.

The purpose of the dosimetry quality assurance program is to provide performance documentation of the routine processing of EDC dosimeters. Performance testing provides a statistical measure of the bias and precision of dosimetry processing against a reliable standard, which in turn points out any trends or performance changes. Two programs are used:

### A. QC Program

Dosimetry quality control tests are performed on EDC Panasonic 814 Environmental dosimeters. These tests include: (1) the in-house testing program coordinated by the EDC QA Officer and (2) independent test perform by EDC clients. In-house test are performed using six pairs of 814 dosimeters, a pair is reported as an individual result and six pairs are reported as the mean result. Results of these tests are described in this report.

Excluded from this report are instrumentation checks. Although instrumentation checks represent an important aspect of the quality assurance program, they are not included as process checks in this report. Instrumentation checks represent between 5-10% of the TLDs processed.

### B. QA Program

An internal assessment of dosimetry activities is conducted annually by the Quality Assurance Officer (Reference 1). The purpose of the assessment is to review procedures, results, materials or components to identify opportunities to improve or enhance processes and/or services.

## II. PERFORMANCE EVALUATION CRITERIA

### A. Acceptance Criteria for Internal Evaluations

#### 1. Bias

For each dosimeter tested, the measure of bias is the percent deviation of the reported result relative to the delivered exposure. The percent deviation relative to the delivered exposure is calculated as follows:

$$\frac{(H'_i - H_i)}{H_i} 100$$

where:

$H'_i$  = the corresponding reported exposure for the  $i^{\text{th}}$  dosimeter (i.e., the reported exposure)

$H_i$  = the exposure delivered to the  $i^{\text{th}}$  irradiated dosimeter (i.e., the delivered exposure)

## 2. Mean Bias

For each group of test dosimeters, the mean bias is the average percent deviation of the reported result relative to the delivered exposure. The mean percent deviation relative to the delivered exposure is calculated as follows:

$$\sum \left( \frac{(H'_i - H_i)}{H_i} \right) 100 \left( \frac{1}{n} \right)$$

where:

$H'_i$  = the corresponding reported exposure for the  $i^{\text{th}}$  dosimeter (i.e., the reported exposure)

$H_i$  = the exposure delivered to the  $i^{\text{th}}$  irradiated test dosimeter (i.e., the delivered exposure)

$n$  = the number of dosimeters in the test group

## 3. Precision

For a group of test dosimeters irradiated to a given exposure, the measure of precision is the percent deviation of individual results relative to the mean reported exposure. At least two values are required for the determination of precision. The measure of precision for the  $i^{\text{th}}$  dosimeter is:

$$\left( \frac{(H'_i - \bar{H})}{\bar{H}} \right) 100$$

where:

$H'_i$  = the reported exposure for the  $i^{\text{th}}$  dosimeter (i.e., the reported exposure)

$\bar{H}$  = the mean reported exposure; i.e.,  $\bar{H} = \sum H'_i \left( \frac{1}{n} \right)$

$n$  = the number of dosimeters in the test group

## 4. EDC Internal Tolerance Limits

All evaluation criteria are taken from the "EDC Quality System Manual," (Reference 2). These criteria are only applied to individual test dosimeters irradiated with high-energy photons (Cs-137) and are as follows for Panasonic Environmental dosimeters:  $\pm 15\%$  for bias and  $\pm 12.8\%$  for precision.

B. QC Investigation Criteria and Result Reporting

EDC Quality System Manual (Reference 2) specifies when an investigation is required due to a QC analysis that has failed the EDC bias criteria. The criteria are as follows:

1. No investigation is necessary when an individual QC result falls outside the QC performance criteria for accuracy.
2. Investigations are initiated when the mean of a QC processing batch is outside the performance criterion for bias.

C. Reporting of Environmental Dosimetry Results to EDC Customers

1. All results are to be reported in a timely fashion.
2. If the QA Officer determines that an investigation is required for a process, the results shall be issued as normal. If the QC results prompting the investigation have a mean bias from the known of greater than  $\pm 20\%$ , the results shall be issued with a note indicating that they may be updated in the future, pending resolution of a QA issue.
3. Environmental dosimetry results do not require updating if the investigation has shown that the mean bias between the original results and the corrected results, based on applicable correction factors from the investigation, does not exceed  $\pm 20\%$ .

III. DATA SUMMARY FOR ISSUANCE PERIOD JANUARY-DECEMBER 2020

A. General Discussion

Results of performance tests conducted are summarized and discussed in the following sections. Summaries of the performance tests for the reporting period are given in Tables 1 through 3 and Figures 1 through 4.

Table 1 provides a summary of individual dosimeter results evaluated against the EDC internal acceptance criteria for high-energy photons only. During this period 100% (72/72) of the individual dosimeters, evaluated against these criteria, met the tolerance limits for accuracy and 100% (72/72) met the criterion for precision. A graphical interpretation is provided in Figures 1 and 2.

Table 2 provides the bias and standard deviation results for each group (N=6) of dosimeters evaluated against the internal tolerance criteria. Overall, 100% (12/12) of the dosimeter sets, evaluated against the internal tolerance performance criteria, met these criteria. A graphical interpretation is provided in Figure 3.

Table 3 presents the independent blind spike results for dosimeters processed during this annual period. All results passed the performance acceptance criterion. Figure 4 is a graphical interpretation of Seabrook Station blind co-located station results.



## B. Result Trending

One of the main benefits of performing quality control tests on a routine basis is to identify trends or performance changes. The results of the Panasonic environmental dosimeter performance tests are presented in Appendix A. The results are evaluated against each of the performance criteria listed in Section II, namely: individual dosimeter accuracy, individual dosimeter precision, and mean bias.

All of the results presented in Appendix A are plotted sequentially by processing date.

## IV. STATUS OF EDC CONDITION REPORTS (CR)

During this annual period, one EDC Condition Report was issued. CR 1-2020 was issued to document the deficiency from the DTE Energy Audit 20-003.

## V. STATUS OF AUDITS/ASSESSMENTS

### 1. Internal

EDC Internal Quality Assurance Assessment was conducted during the fourth quarter 2020. There were no findings identified.

### 2. External

DTE Energy Audit 20-003 was conducted on July 28-30, 2020. There was one deficiency identified.

## VI. PROCEDURES AND MANUALS REVISED DURING JANUARY - DECEMBER 2020

Manual 1 was revised on September 28, 2020.

Several procedures were reissued with no changes as part of the 5 year review cycle.

## VII. CONCLUSION AND RECOMMENDATIONS

The quality control evaluations continue to indicate the dosimetry processing programs at the EDC satisfy the criteria specified in the Quality System Manual. The EDC demonstrated the ability to meet all applicable acceptance criteria.

## VIII. REFERENCES

1. EDC Quality Control and Audit Assessment Schedule, 2020.
2. EDC Manual 1, Quality System Manual, Rev. 4, September 28, 2020.

**TABLE 1**

**PERCENTAGE OF INDIVIDUAL DOSIMETERS THAT PASSED EDC INTERNAL CRITERIA  
JANUARY – DECEMBER 2020<sup>(1), (2)</sup>**

Dosimeter Type	Number Tested	% Passed Bias Criteria	% Passed Precision Criteria
Panasonic Environmental	72	100	100

<sup>(1)</sup>This table summarizes results of tests conducted by EDC.

<sup>(2)</sup>Environmental dosimeter results are free in air.

**TABLE 2**

**MEAN DOSIMETER ANALYSES (N=6)  
JANUARY – DECEMBER 2020<sup>(1), (2)</sup>**

Process Date	Exposure Level	Mean Bias %	Standard Deviation %	Tolerance Limit +/- 15%
4/28/2020	37	1.8	1.2	Pass
5/02/2020	94	2.9	1.4	Pass
5/20/2020	56	-0.5	1.4	Pass
7/28/2020	72	4.1	0.6	Pass
8/07/2020	111	4.0	1.3	Pass
9/24/2020	25	-4.6	1.2	Pass
10/24/2020	35	5.2	1.6	Pass
10/28/2020	60	1.6	0.7	Pass
11/18/2020	91	0.5	1.6	Pass
01/21/2021	31	3.8	1.7	Pass
02/09/2021	83	0.3	0.8	Pass
02/16/2021	46	5.3	1.5	Pass

<sup>(1)</sup>This table summarizes results of tests conducted by EDC for TLDs issued in 2020.

<sup>(2)</sup>Environmental dosimeter results are free in air.

**TABLE 3**

**SUMMARY OF INDEPENDENT DOSIMETER TESTING  
JANUARY – DECEMBER 2020<sup>(1), (2)</sup>**

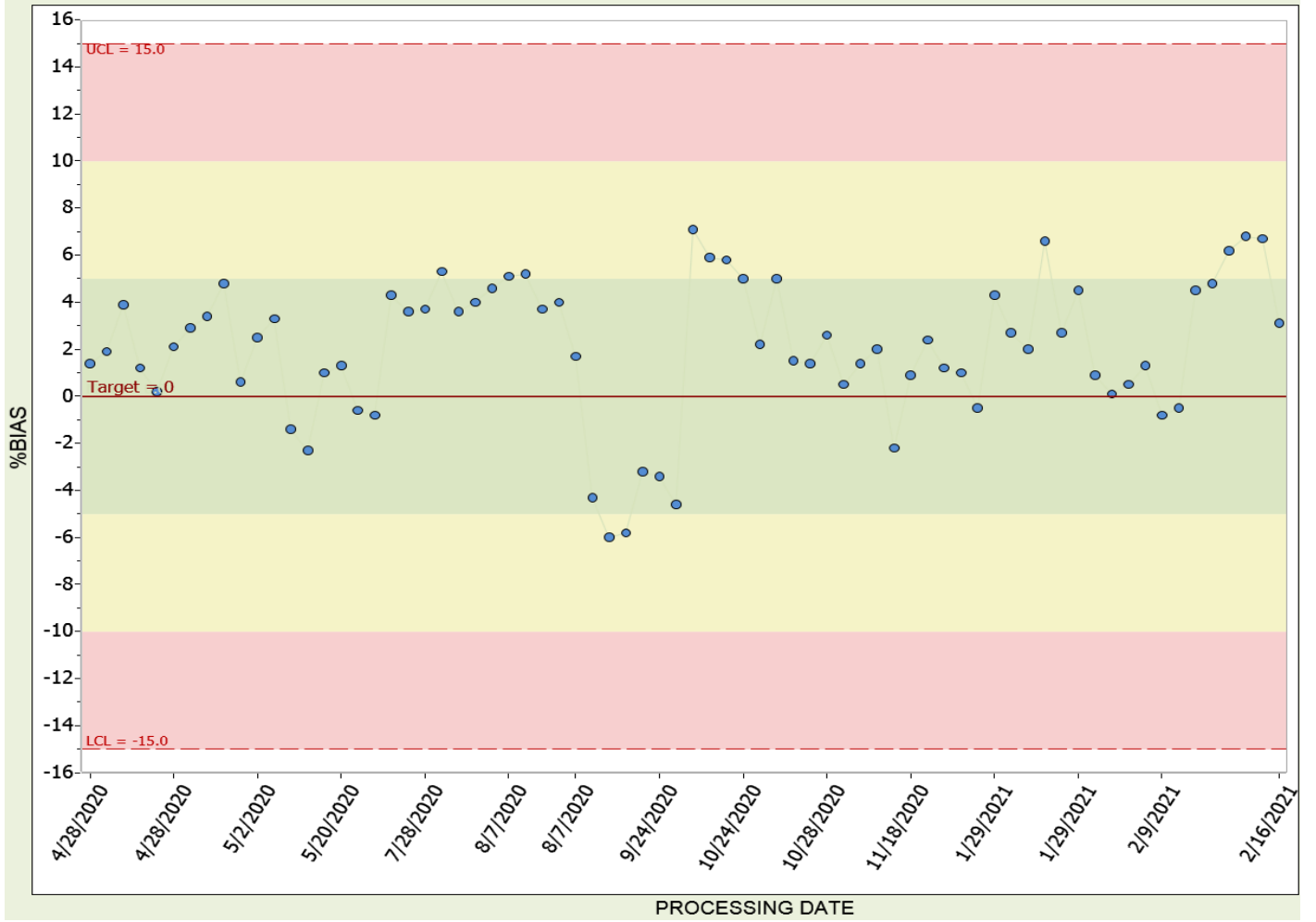
Issuance Period	Client	Mean Bias %	Standard Deviation %	Pass / Fail
1 <sup>st</sup> Qtr. 2020	Millstone	-3.8	3.0	Pass
2 <sup>nd</sup> Qtr. 2020	Seabrook	0.5	1.4	Pass
2 <sup>nd</sup> Qtr. 2020	Millstone	-3.0	1.6	Pass
3 <sup>rd</sup> Qtr. 2020	Millstone	0.4	2.6	Pass
4 <sup>th</sup> Qtr. 2020	PSEG(PNNL)	-3.2	0.9	Pass
4 <sup>th</sup> Qtr. 2020	Seabrook	6.9	1.9	Pass
4 <sup>th</sup> Qtr. 2020	SONGS	-8.4	1.3	Pass
4 <sup>th</sup> Qtr. 2020	Millstone	3.0	1.9	Pass

<sup>(1)</sup>Performance criteria are +/- 15%.

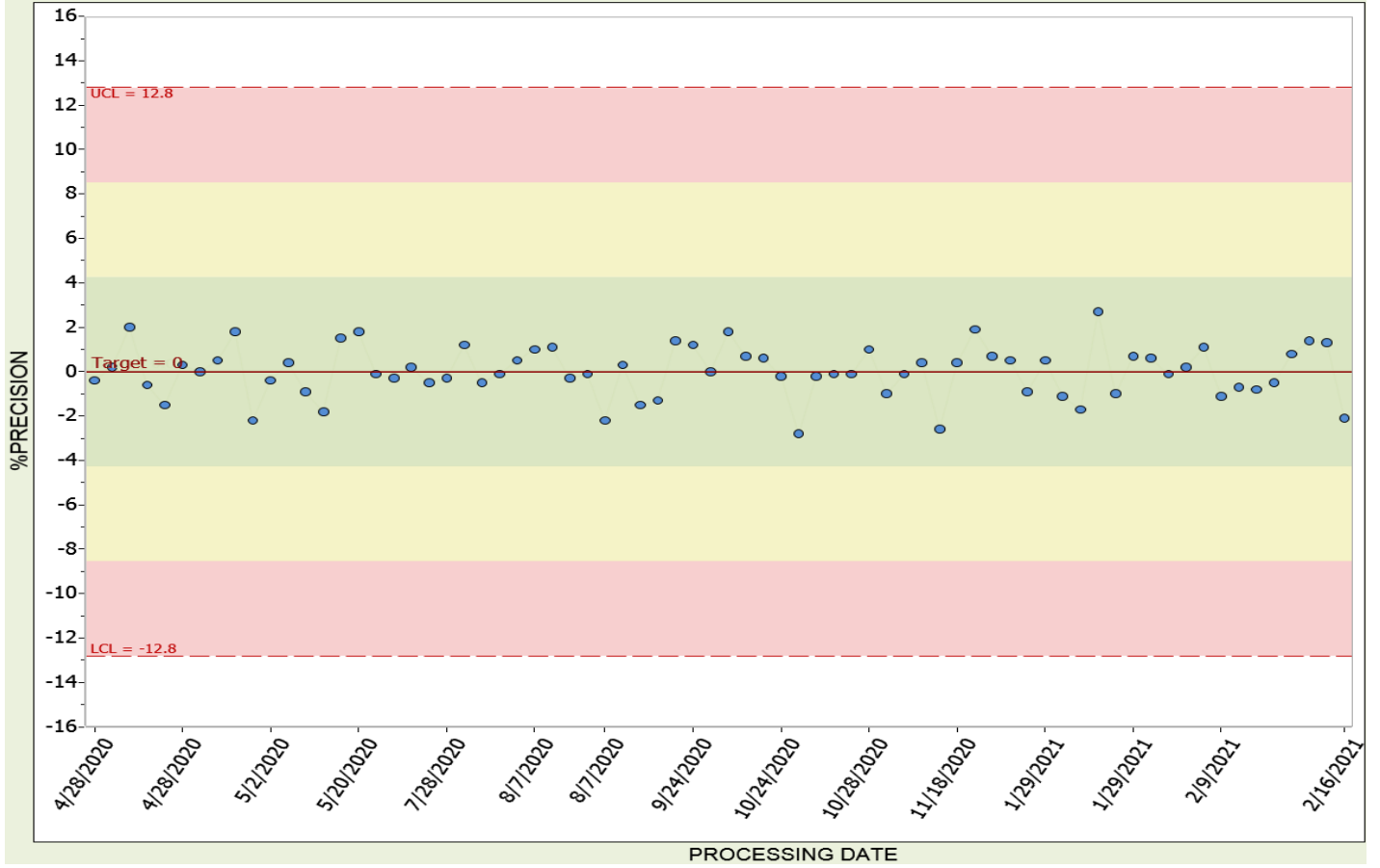
<sup>(2)</sup>Blind spike irradiations using Cs-137

APPENDIX A  
DOSIMETRY QUALITY CONTROL TRENDING GRAPHS  
ISSUE PERIOD JANUARY - DECEMBER 2020

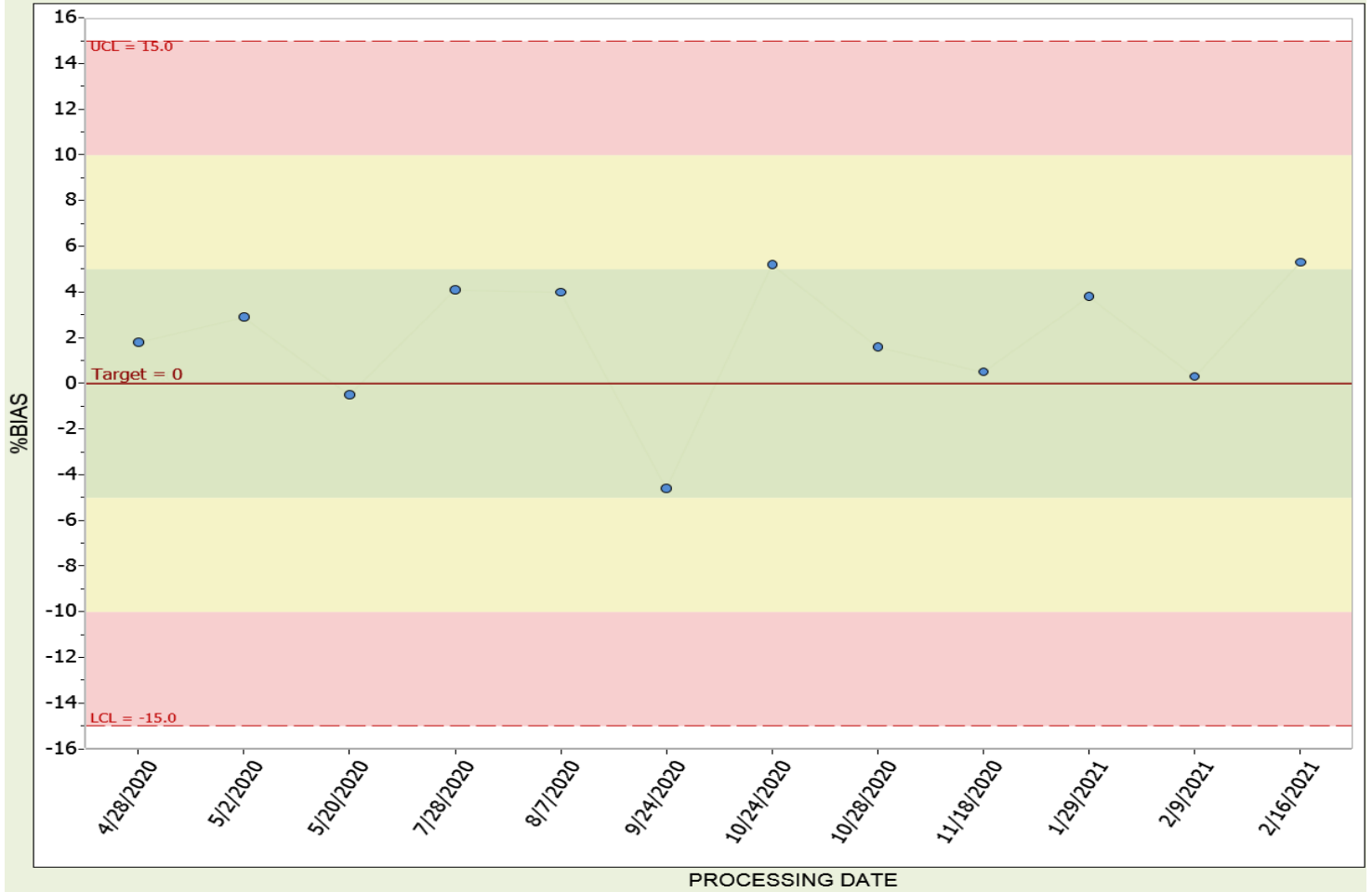
INDIVIDUAL ACCURACY ENVIRONMENTAL  
FIGURE 1



INDIVIDUAL PRECISION ENVIRONMENTAL  
FIGURE 2



MEAN ACCURACY ENVIRONMETAL  
FIGURE 3



SEABROOK CO-LOCATE ACCURACY  
FIGURE 4

