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June 21, 2023

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Ms. Caroline Freeman, Director
Air and Radiation Division
U.S. Environmental Protection Agency, Region 4
61 Forsythe, SW
Atlanta, Georgia 30303-3104

Mr. Kennedy, Mr. Edwards, and Ms. Freeman,

SUBMITTAL OF THE NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS ANNUAL REPORT FOR 2022 U.S. DEPARTMENT OF ENERGY RADIOLOGICAL EMISSIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT, FRNP-RPT-0301

Enclosed is the calendar year 2022 Annual National Emission Standards for Hazardous Air Pollutants Report, required by 40 Code of Federal Regulations (CFR) Part 61, Subpart H. This report summarizes airborne radionuclide emissions from the U.S. Department of Energy (DOE) Paducah Site. The total 2022 effective dose equivalent from DOE emissions was 0.00143 millirem (mrem). This is below the annual effective dose equivalent limit of 10 mrem per year established in 40 CFR § 61.92.

If you have any questions or require additional information, please contact Gilbert Whitehurst at (740) 897-2948.

Sincerely,

APRIL LADD Digitally signed by APRIL LADD
Date: 2023.06.21 14:00:05 -05'00'

April Ladd
Paducah Site Lead
Portsmouth/Paducah Project Office

Enclosures:
1. Certification Pages
2. *National Emission Standards for Hazardous Air Pollutants Annual Report for 2022 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant*

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CERTIFICATION

Document Identification: *National Emissions Standards for Hazardous Air Pollutants Annual Report for 2022 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant*, **FRNP-RPT-0301**

This certification pertains to the following emission source:

Paducah Deactivation Project

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. (See 18 *U.S.C.* 1001)

Myrna E. Redfield, Program Manager
Four Rivers Nuclear Partnership, LLC

6/21/23
Date Signed

A. Ladd
April Ladd, Paducah Site Lead
U.S. Department of Energy

6/21/23
Date Signed

CERTIFICATION

Document Identification: ***National Emissions Standards for Hazardous Air Pollutants Annual Report for 2022 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant*, FRNP-RPT-0301**

This certification pertains to the following emission source:

Depleted Uranium Hexafluoride Conversion Facility (MCS)

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. (See 18 *U.S.C.* 1001)

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Dutch Conrad, President and Project Manager
Mid-America Conversion Services, LLC

Date Signed

FRNP-RPT-0301

National Emission Standards for Hazardous Air Pollutants Annual Report for 2022 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant

FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

This document is approved for public release per review by:

JACKIE THOMPSON (Affiliate)

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Date: 2023.06.14 07:20:15 -05'00'

FRNP Classification Support

Date

FRNP-RPT-0301

National Emission Standards for Hazardous Air Pollutants Annual Report for 2022 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant

Date Issued—June 2023

U.S. DEPARTMENT OF ENERGY
Office of Environmental Management

Prepared by
Four Rivers Nuclear Partnership, LLC,
managing the
Deactivation and Remediation Project at the
Paducah Gaseous Diffusion Plant
under Contract DE-EM0004895

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TABLES

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ACRONYMS

AIRDOS	Atmospheric Dispersion of Radionuclides
CAP-88 PC	Clean Air Act Assessment Package-1988 Personal Computer
CFR	*Code of Federal Regulations*
DOE	U.S. Department of Energy
EDE	effective dose equivalent
EPA	U.S. Environmental Protection Agency
EW	extraction well
HEPA	high-efficiency particulate air
KAR	*Kentucky Administrative Regulations*
NEPCS	Northeast Plume Containment System
NESHAP	National Emission Standards for Hazardous Air Pollutants
PGDP	Paducah Gaseous Diffusion Plant
SX	seal exhaust
WA	wet air

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EXECUTIVE SUMMARY

The Kentucky Division for Air Quality regulates air emissions of radionuclides, other than radon, from the U.S. Department of Energy (DOE) Paducah Site under 401 *KAR* 57:002 and 40 *CFR* Part 61, Subparts A and H. Submission of this report fulfills the annual reporting requirements of 40 *CFR* § 61.94.

Paducah Site radionuclide emissions include emissions from the depleted uranium hexafluoride (DUF_6) conversion facility, which began operation in 2011. The DUF_6 facility converts by-product that was generated by the uranium enrichment process to a more stable uranium oxide compound. Other emission sources include deactivation and remediation of the Paducah Gaseous Diffusion Plant activities, waste management facilities, inactive buildings, and environmental restoration operations.

DOE emissions were used to estimate the Paducah Site dose to the public. The dose to the public is calculated using the computer modeling program (Clean Air Act Assessment Package-1988, Version 4) specified in 40 *CFR* § 61.93. Inputs to the computer program are obtained through continuous monitoring, engineering estimates, emission factors, and other U.S. Environmental Protection Agency-approved methods. This report meets the annual reporting requirements and establishes the total annual effective dose equivalent (EDE) to the maximally exposed member of the public from the Paducah Site emissions to be 0.00143 mrem for calendar year 2022. This is below the annual EDE limit of 10 mrem per year set forth in 40 *CFR* § 61.92.

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1. FACILITY DESCRIPTION

Site Name: Paducah Site

Location: Paducah, Kentucky

Owner: U.S. Department of Energy
Portsmouth/Paducah Project Office
5501 Hobbs Road
Kevil, Kentucky 42053
April Ladd, Paducah Site Lead
(270) 441-6800

Operators: Four Rivers Nuclear Partnership, LLC
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(270) 441-5113

Mid-America Conversion Services, LLC (Paducah Office)
5509 Hobbs Rd
Kevil, Kentucky 42053
Dutch Conrad, President and Project Manager
(859) 685-9272

2. INTRODUCTION

The U.S. Department of Energy (DOE) owns the Paducah Site, which has radionuclide air emissions. The site was established to enrich uranium and was known as the Paducah Gaseous Diffusion Plant (PGDP). When enrichment activities ceased in 2014, DOE subsequently began deactivation and remediation of the enrichment facilities, and the entire DOE-owned area was identified as the Paducah Site.

Paducah Site emissions include emissions from deactivation and remediation activities, waste management facilities, inactive buildings, environmental restoration operations, and the depleted uranium hexafluoride (DUF_6) conversion facility. The DUF_6 facility, which began operations in 2011, converts by-products that were generated by the enrichment process to a more stable uranium oxide compound.

Emissions from all of these sources were analyzed together and used to calculate the resultant dose.

3. SITE DESCRIPTION

The Paducah Site was established to support the nation's nuclear program. The Paducah Site, consisting of approximately 3,556 acres, is located in western McCracken County, 10 miles west of Paducah, Kentucky, and 3.5 miles south of the Ohio River. Roughly 600 acres of the site are enclosed within a fenced security area. During World War II, Kentucky Ordnance Works, a trinitrotoluene production facility, was operated

in an area southwest of the plant on what is now a wildlife management area. Kentucky Ordnance Works was not located on the Paducah Site.

Construction of the PGDP facility began in 1951. The plant was fully operational by 1955, supplying enriched uranium for commercial reactors and defense uses. Enriched uranium is defined as uranium in which the concentration of the fissionable uranium-235 (U-235) isotope has been increased from its natural assay. Natural uranium is primarily uranium-238 (U-238), with about 0.71% U-235 and 0.0055% uranium-234 (U-234). Uranium mills process the ores to produce concentrated uranium oxide [triuranium octoxide (U_3O_8)], which then is converted commercially to uranium hexafluoride (UF_6). The UF_6 then was sent to PGDP for enrichment. One by-product of the enrichment process is DUF_6, which is stored at PGDP. In 2011, DOE began operation of a facility to convert the stored DUF_6 to a more stable uranium oxide, primarily U_3O_8.

The radioactive materials used at PGDP are associated with enrichment of the uranium isotope U-235 using a gaseous diffusion process. During enriching operations from 1953 to 1975, UF_6 feed material was derived from recycled uranium (called "reactor tails") from government reactors; "work for others" material also was used intermittently; and UF_6 processed from uranium ore, which typically was used. Reactor tails were the spent fuel from nuclear reactors that was depleted of U-235 content that had been reprocessed to remove most of the fission products. The reactor fuel assemblies were processed at other DOE facilities (where most of the fission products were removed). The enriched uranium and the remaining fission products were fed into the PGDP cascade system in the chemical form of UF_6. Use of the reactor tails resulted in the introduction of technetium-99 (Tc-99), a fission by-product, and transuranics, most notably neptunium-237 (Np-237) and plutonium-239 (Pu-239), into the cascade.

The West Kentucky Wildlife Management Area and lightly populated farmlands are in the immediate environs of PGDP. Based on population data from the 2010 census, the population within a 50-mile radius is approximately 534,000 persons. Of these, 89,000 live within 10 miles of the plant and 104,000 live within 20 miles of the plant. The unincorporated communities of Grahamville and Heath are 1.24 and 1.86 miles east of the plant, respectively. Portions of 28 counties—11 of which are in Kentucky, 4 in Missouri, 10 in Illinois, and 3 in Tennessee—are located within the 50-mile radius of the plant. Larger cities in the region include Paducah, Kentucky, located 10 air miles east of the plant; Cape Girardeau, Missouri, located 40 air miles to the west; and Metropolis, Illinois, located 6 air miles to the northeast. The nearest neighbor residences in each direction are observed and entered into the dose modeling software. The results of the dose modeling are presented in Section 6.

Paducah is located in the humid subtropical zone. Summers generally are dry; precipitation occurs mainly in the spring and fall. Winters are characterized by moderately cold days; the average temperature during the coldest month, January, is about 35°F. Summers are warm and humid; the average temperature in July is 79°F. Yearly precipitation averages about 49 inches. The prevailing wind direction is south to southwest.

4. PADUCAH SITE SOURCE HANDLING AND PROCESSING DESCRIPTION

Radioactive material handling and processing that occurred last year (2022) included conversion of DUF_6 to uranium oxides, clean out of the uranium enrichment processes, environmental remediation of hazardous and radioactive materials, and management of radioactive waste.

The point sources from shutdown and clean out of the enrichment processes are grouped as described in the following sections. Some of these activities will be reduced or may cease as deactivation of the enrichment facilities progresses.

4.1 DEPLETED URANIUM HEXAFLUORIDE CONVERSION FACILITY

The DUF_6 conversion facility has operated since 2011. The facility converts DUF_6 stored in cylinders to a more stable uranium oxide powder. The form of uranium oxide is primarily U_3O_8. Multiple prefilters and primary high-efficiency particulate air (HEPA) filter banks within the facility heating, ventilation, and air-conditioning system control particulate emissions of oxide powder. Prior to atmospheric venting of process off-gas through the stack, air passes through a secondary set of HEPA filter banks. The conversion building also is maintained at negative pressure to help eliminate the possibility of fugitive emissions. Radioactive emissions from the conversion operations are monitored continuously.

4.2 DEACTIVATION AND REMEDIATION OF THE PADUCAH GASEOUS DIFFUSION PLANT

The emission point sources previously analyzed during operation of PGDP also are emission sources for deactivation and remediation. These deactivation sources are grouped in the same manner as the enrichment source grouping. Groups no longer included were removed because their sources have been deactivated. The sources were grouped based on similar emissions, controls, and location.

4.2.1 Group E—C-310 Stack

The C-310 stack is located near the southwest corner of the C-310 Product Withdrawal Building. It was the primary emission point of potential radionuclide air emissions during uranium enrichment operations. The effluent is routed through alumina traps prior to being emitted via the C-310 stack. The stack was active beginning in 2021. The stack is used for wet air passivation of equipment located within the process buildings.

The wet air passivation process is not a continuous emissions process; therefore, alternate monitoring plans were requested and approved. Three gaseous samples from each piece of equipment were collected and analyzed for uranium isotopes prior to the introduction of wet air. The highest result per isotope was used to determine the worst-case emissions from the equipment. The stack emissions are included in the summary tables.

4.2.2 Group F—Seal Exhaust/Wet Air Group

The seal exhaust (SX) and wet air (WA) systems have been evaluated for air emissions. It was determined the alumina traps, which are designed to protect pump oil and not to control emissions, are not pollution control devices under 40 *CFR* Part 61, Subpart H. The determination was forwarded to the U.S. Environmental Protection Agency (EPA) January 28, 1994.

4.2.2.1 Seal exhaust systems

Emissions from the SX systems are routed through alumina traps and pump oil prior to venting. Seals on the UF_6 compressors are supplied with an intricate array of air pressures to minimize releases during seal failure. A seal failure allows UF_6 to enter the SX system. If UF_6 reaches the pump by virtue of trap breakthrough, it reacts with the pump oil creating a thick sludge that quickly causes pump failure. In turn,

pump failure limits the amount that can be emitted. Although the pump oil serves as an excellent uranium emission control device due to the reaction between UF_6 and pump oil, no credit is taken for it as a pollution control device.

There is one SX vent per cascade building, one on the C-310 Product Withdrawal Building, and one on the C-315 Tails Withdrawal Building. The locations of the six SX systems are as follows:

- C-310 Product Withdrawal Building
- C-315 Tails Withdrawal Building
- C-331 Cascade Building
- C-333 Cascade Building
- C-335 Cascade Building
- C-337 Cascade Building

Confirmatory measurements on a five-year basis are made on each type of SX/WA system to verify emissions. Emissions from these systems were estimated based on results from the latest measurement that was performed in during this reporting period in November 2022. The stack test resulted in nondetects for Np-237, Pu-239/240, and thorium-230 (Th-230). Using zeros for nondetect values is a standard for the industry, per the stack testing organization that performed the work.

Building ventilation and cylinder valve disconnection activities are grouped in with the SX/WA group because these sources are not serviced by a stack. Radiological areas within the cascade buildings at PGDP are established under radiological protection procedures, DOE Orders, and 10 *CFR* Part 835.

4.2.2.2 Wet air exhaust systems

When maintenance is required on cascade equipment, it is evacuated to other sections of the cascade or surge drums. The equipment is swept in a series of purges with dry plant air. After maintenance, the system is closed, and the ambient WA is pumped from the system by the WA pumps. During dry air purges and WA evacuations, air is routed through alumina traps for uranium trapping to protect the WA pump oil and then to an exhaust vent. In cascade buildings C-310, C-335, and C-337, the exhaust vent is shared with the SX system for those buildings. As discussed under SX systems, emissions from the WA exhaust systems are estimated based on the most recent Method 5 stack sampling results. The following are the locations of the five WA exhaust systems.

- C-310 Product Withdrawal Building (same as SX)
- C-331 Cascade Building
- C-333 Cascade Building
- C-335 Cascade Building (same as SX)
- C-337 Cascade Building (same as SX)

4.3 ENVIRONMENTAL REMEDIATION ACTIVITIES

DOE had three point sources for environmental remediation activities, C-612 Northwest Plume Interim Remedial Action Project and units C-765 and C-765-A as part of the Northeast Plume Containment System (NEPCS).

4.3.1 Northwest Plume Interim Remedial Action Project

On August 28, 1995, DOE began operation of a treatment system designed to remove trichloroethene (TCE) and Tc-99 from contaminated groundwater at PGDP. The facility, C-612, is located at the northwest corner of the PGDP site security area. The facility consists of an air stripper to remove volatile organics.

Historical sampling has shown very little change in the concentration of Tc-99 in the water when it passes through the air stripper. Emissions of Tc-99 were estimated using 40 *CFR* Part 61, Appendix D, emission factors and the analysis of the groundwater. The total amount of source inventory in curies was calculated using the following equation:

$$Q = V * V_{cf} * Conc * R_{cf}$$

Where:

Q = Source inventory, curies
V = Volume of water treated, gal
V_{cf} = Volume Conversion Factor (3.7854 L/gal)
C_{onc} = Tc-99 concentration, pCi/L
R_{cf} = pCi to Ci conversion factor (1.00E-12 Ci/pCi)

The calculation for the emissions then utilized the following equation:

$$E = Q * P_s * C_f$$

Where:

E = Emissions (source term), curies
Q = Source inventory, curies
P_s = Physical State factor, dimensionless
C_f = Effluent Control Factor adjustment, dimensionless.

The exhaust from the air stripper is passed through a carbon adsorption unit prior to release to the atmosphere. Historical data have shown that Tc-99 is not retained in the carbon; therefore, an ion exchange resin is in place to treat for Tc-99. However, for purposes of this report, it was assumed that 100% of the Tc-99 in the groundwater was emitted. The Northwest Plume Treatment System treated 97,717,155 gal during calendar year 2022. The results of the analysis of the estimated emissions are reported in Section 6.

4.3.2 Northeast Plume Containment System

DOE began normal operation of the original NEPCS (C-614 Northeast Plume Treatment System), a second treatment system, on February 28, 1997, as an interim remedial action also to treat contaminated groundwater. The C-614 system extracted contaminated groundwater and pumped it to an air stripper for removal of TCE. Tc-99 was not identified as a contaminant of concern as part of this interim remedial action; however, low concentration Tc-99 was detected in the groundwater and, consequently, could have been emitted into the air. The original NEPCS operated two extraction wells (EWs) (EW331 and EW332), which extracted the contaminated groundwater to treatment unit C-765, and the original NEPCS was operated until August 2017.

The NEPCS underwent an optimization and was fully operational in October 2017. The optimized NEPCS consists of two new EWs (EW234 and EW235), each of which has its own treatment unit capable of

operating independently. C-765 treatment unit is operated to treat water extracted from EW234, and the C-765-A treatment unit is operated to treat water extracted from EW235. The optimized C-765 and C-765-A units treated 39,937,145 gal and 39,221,476 gal, respectively, during the 2022 calendar year.

Emissions of Tc-99 were estimated using 40 *CFR* Part 61, Appendix D, emission factors and the analysis of the groundwater. The total amount of source inventory in curies was calculated using the following equation:

$$Q = V * V_{cf} * Conc * R_{cf}$$

Where:

Q = Source inventory, curies
V = Volume of water treated, gal
V_{cf} = Volume Conversion Factor (3.7854 L/gal)
Conc = Tc-99 concentration, pCi/L
R_{cf} = pCi to Ci conversion factor (1.00E-12 Ci/pCi)

The calculation for the emissions then utilized the following equation:

$$E = Q * P_s * C_f$$

Where:

E = Emissions (source term), curies
Q = Source inventory, curies
P_s = Physical State factor, dimensionless
C_f = Effluent Control Factor adjustment, dimensionless.

The results of the analysis of the estimated emissions are reported in Section 6.

4.4 FUGITIVE AND DIFFUSE SOURCES

Diffuse/fugitive emission sources include any source that is distributed spatially, diffused in nature, or not emitted with forced air from a stack, vent, or other confined conduit. In this case, radionuclides are transported entirely by diffusion and/or thermally-driven air currents. Typical examples of diffuse/fugitive emissions include emissions from building breathing; resuspension of contaminated soils, debris, or other materials; unventilated tanks; ponds, lakes, and streams; wastewater treatment systems; outdoor storage and processing areas; and leaks in piping, valves, or other cascade equipment. DOE has identified many potential fugitive and diffuse emission sources such as inactive facilities, building roofs, scrap metal storage yards, landfills, cylinder yards, and various contamination areas. Specific activities that could generate fugitive emissions include transport and disposal of waste, demolition of contaminated facilities, and most environmental remediation. The use of ambient air monitors to evaluate emissions from fugitive and diffuse sources is described in Section 9. In 2022, the Paducah Site had no unplanned airborne releases (see Section 8). Analyses of ambient air monitoring results for 2022 were compared using the methods in the EPA-approved National Emission Standards for Hazardous Air Pollutants (NESHAP) Management Plan. The analysis indicated that plant-derived radionuclides were not detected in concentrations greater than 40 *CFR* Part 61, Appendix E, Table 2, concentrations, as depicted in the tables provided in the appendix of this report. DOE utilizes ambient air monitoring to verify insignificant levels of radionuclides in off-site

ambient air. The ambient air monitors are not included in the annual dose calculation since it is not a point source.

5. WAIVER OF CONSTRUCTION AND MODIFICATION ACTIVITIES

No construction or modification activities occurred in this reporting period that were waived under 40 *CFR* § 61.96.

6. SOURCE CHARACTERISTICS AND AIR EMISSIONS DATA

Tables 1 through 4 contain specific emission information for each Paducah Site emission point. Table 1 lists the emission points and efficiency of control devices, as required by 40 *CFR* § 61.94 (b) (4) and (5). It is assumed that control for the Northwest Plume Treatment System has 0% efficiency because no credit is taken for any Tc-99 removal as a result of carbon filtration. Table 2 lists the distances from each emission point to receptors of concern, as listed in 40 *CFR* § 61.94 (b) (6). Table 3 contains emission point information required to estimate the resulting potential exposure, as required by 40 *CFR* § 61.94 (b) (7). Table 4 contains a list of Paducah Site radioactive materials, as required by 40 *CFR* § 61.94 (b) (2), their emission rates, and total Paducah Site emissions by nuclide.

Table 1. Emission Point Effluent Controls and Efficiencies

Emission Points	Type Control	Efficiency %
Group E C-310 Stack	Alumina Traps	90.0
Group F SX/WA Group	Alumina Traps	98.60
Northwest Plume Treatment System	Carbon	0
Northeast Plume Treatment Unit C-765	None	0
Northeast Plume Treatment Unit C-765-A	None	0
DUF_6 Conversion Facility	HEPA	99.90

NOTE: The building ventilation and cylinder valve connection activities not serviced by a stack are grouped with the SX/WA group or respective building.

Table 2. Distances to Selected Receptors

Emission Points	Distances (m) to Selected Receptors			
	Nearest Farm	Nearest Business	Nearest School	Nearest Residence
Group E C-310 Stack	2,512	2,660	3,834	1,741
Group F SX/WA Group	1,798	2,412	4,200	1,571
Northwest Plume Treatment System	1,761	1,290	5,455	1,149
Northeast Plume Treatment Unit C-765	1,327	2,196	3,769	1,003
Northeast Plume Treatment Unit C-765-A	1,488	2,054	3,514	944
DUF_6 Conversion Facility	2,143	2,849	3,516	2,143

Table 3. Characteristics of Stacks, Vents, or Other Emission Points that Emit Radionuclides

Emission Points	Type	Height (m)	Diameter (m)	Gas Exit Velocity (m/s)	Gas Exit Temp. (°C)	Distance (m) & Direction to Maximally Exposed Individual for Each Source
Group E C-310 Stack	Point	60.98	0.30	7.77	Ambient	3,131 NNE
Group F SX/WA Group	Point	21.00	0.50	0.00	Ambient	1,571 SE
Northwest Plume Treatment System	Point	7.00	0.36	9.45	Ambient	1,149 NNE
Northeast Plume Treatment Unit C-765	Point	5.94	0.19	10.76	Ambient	1,003 SE
Northeast Plume Treatment Unit C-765-A	Point	5.94	0.19	10.76	Ambient	944 ESE
DUF_6 Conversion Facility	Point	52.43	1.07	16.19	20	2,143 SSW

Table 4. Radionuclide Materials and Emissions Data (Curies)

Nuclide	Group E C-310 Stack	Group F SX/WA	Northwest Plume	Northeast Plume C-765	Northeast Plume C-765-A	DUF_6 Conversion Facility	Total Site Emissions
U-234	3.44E-03	4.60E-07	0	0	0	1.02E-07	3.44E-03
U-235	7.21E-05	2.43E-08	0	0	0	4.66E-09	7.21E-05
U-238	2.55E-03	2.42E-07	0	0	0	2.50E-07	2.55E-03
Tc-99	0.00	1.69E-07	9.58E-05	7.43E-06	3.60E-06	0	1.07E-04
Th-230	0	0	0	0	0	0	0
Th-231	0	0	0	0	0	3.65E-08	3.65E-08
Th-234	0	0	0	0	0	3.33E-06	3.33E-06
Np-237	0	0	0	0	0	0	0
Pu-239	0	0	0	0	0	0	0
Pa-234m	0	0	0	0	0	3.33E-06	3.33E-06
Total Curies/ Year	6.06E-03	8.95E-07	9.58E-05	7.43E-06	3.60E-06	7.05E-06	6.18E-03

7. DOSE ASSESSMENT

7.1 DESCRIPTION OF DOSE MODEL

The Clean Air Act Assessment Package-1988 Personal Computer (CAP-88 PC) is a set of computer programs, databases, and associated utility programs for estimation of dose and risk from radionuclide emissions to air. CAP-88 PC is composed of modified versions of the Atmospheric Dispersion of Radionuclides (AIRDOS)-EPA and Dose and Risk Assessment Tabulation (i.e., DARTAB) computer codes. CAP-88 PC contains EPA's version of the AIRDOS-EPA computer code, which implements a steady-state, Gaussian plume, atmospheric dispersion model to calculate environmental concentrations of released radionuclides; and then, food chain models are used to calculate human exposures, both internal and external, to the environmental concentrations.

CAP-88 PC incorporates age-dependent dose factors from DCFPAK-2.2 combined with factors and method of Federal Guidance Report 13. The Federal Guidance Report 13 dose factors are based on the methods in 1996 Publication 72 of the International Commission on Radiological Protection. The dose factors are used to calculate effective doses. The effective dose is the weighted sum of equivalent doses to 12 specific tissues and organs, plus a general category that accounts for the remaining organs and tissues.

7.2 SUMMARY OF INPUT PARAMETERS

Default input parameters are used except for those provided in Section 6 and immediately below.

Meteorological input information is from the National Weather Service at Paducah, except for the on-site joint frequency distribution information. The 2022 annual precipitation and average air temperature from the National Climatic Data Center "Climate Data Online" database were used to account for current rainfall and air temperatures. The rainfall rate in 2022 (125.48 cm) was less than the 1971–2000 average rainfall (149.8 cm). The mixing height of 542 m is based on evaluation of 2014 National Weather Service data for the Paducah area by K. Birdwell, Oak Ridge National Laboratory meteorologist (ORNL 2015). The mixing height from 2014 was used for the 2022 CAP-88 PC runs. Typically, mixing heights do not vary much from year-to-year; however, they can vary more over a period of years.

Joint frequency distribution:	Five-year stability array (STAR) distribution from 60-m station on PGDP meteorological tower for the years 1988 through 1992.
Rainfall rate:	146.10 cm/year
Average air temperature:	14.8°C
Average mixing layer height:	542 m

Fraction of foodstuffs from (rural default values):

	Local Area	50-Mile Radius	Beyond 50 Miles
Vegetables and produce:	0.70	0.30	0.00
Meat:	0.40	0.60	0.00
Milk:	0.44	0.56	0.00

7.3 DOSE ESTIMATE

Effective dose equivalent (EDE) to the maximally exposed individual for each individual point source at the Paducah Site, as well as the collective EDE to the 50-mile population, is provided in Table 5.

Table 5. Dose Analysis

Emission Sources	EDE to the Maximum Exposed Individual for Each Source (mrem)	EDE to the Maximum Exposed Individual for the Plant (mrem)	Collective EDE to the 50-mile Population (person-rem)
Group E—C-310 Stack	1.40E-03	1.40E-03	1.96E-02
Group F—SX/WA Group	3.20E-07	2.60E-07	2.89E-06
Northwest Plume Treatment System	6.40E-05	2.30E-05	2.47E-04
Northeast Plume Treatment Unit C-765	3.70E-06	1.50E-06	2.41E-05
Northeast Plume Treatment Unit C-765-A	1.80E-06	7.50E-07	1.05E-05
DUF_6 Conversion Facility	1.30E-07	9.20E-08	1.62E-06
Total from All Sources		1.43E-03	1.99E-02

The maximally exposed individual from all facility emissions is located 3,131 m north-northeast of the C-310 stack. The total annual EDE to the maximally exposed member of the public from Paducah Site emissions of 0.00143 mrem for calendar year 2022 was lower than in calendar year 2021.

U.S. Census (2010) counts population at the block level. These population counts were joined to their respective Census blocks, and then incorporated into a dasymetric computer model to distribute the counts spatially within each block. A dasymetric model uses a likelihood dataset (i.e., where the people are most likely to be located) to distribute the population mathematically. This likelihood dataset incorporated such things as land cover, distance to roads, building height, etc. The result was a 3-arc second gridded population database. This grid was intersected with the sector-annuli rose to tabulate the final population counts. The resulting population data then were converted into a population data file by CAP-88 PC. Based on population data from the 2010 census, the total collective EDE to the 50-mile population (i.e., approximately 534,000 persons) was 0.0199 person-rem. The total collective EDE to the 50-mile population is calculated by summing the total collective EDE from each source as generated from CAP-88 PC.

8. UNPLANNED RELEASES

There were no DOE unplanned radioactive airborne releases in 2022.

9. AMBIENT AIR MONITORING

In accordance with the *National Emission Standards for Hazardous Air Pollutants Management Plan for Emission of Radionuclides for the U.S. Department of Energy Operations at the Paducah Site, Paducah, Kentucky*, CP2-EC-0002, October 2019, DOE used ambient air monitoring data to verify insignificant levels of radionuclides in off-site ambient air. Ambient air stations collect radionuclide samples at sites surrounding the plant. The ambient air monitors capture airborne radionuclides emitted from all sources, including fugitive and diffuse sources. The locations of the ambient air monitoring stations are shown in Figure 1.

The ambient air monitoring stations operate continuously, drawing air through a paper filter to capture particles that may be radioactive. Filter paper is changed weekly and composited for three months. Composited filter papers are analyzed for radioactivity by a laboratory.

Analyses of ambient air monitoring results for 2022 were compared using the methods in the EPA-approved NESHAP Management Plan. The analysis indicated that plant-derived radionuclides were not detected in concentrations greater than 40 *CFR* Part 61, Appendix E, Table 2, concentrations, as depicted in the tables provided in the appendix of this report. As stated in Section 8, there were no unplanned radioactive airborne releases from the Paducah Site in 2022. The data presented in the appendix (Tables A.2 and A.3) of this report used all analytical results, positive and negative values, which is in accordance with Section 8.5.2 of DOE-HDBK-1216-2015 (DOE 2015), regarding the use of "Less-Than-Detectable-Values" for data reporting.

10. STATUS OF 40 *CFR* PART 61, SUBPART H, COMPLIANCE

DOE remains in compliance with 40 *CFR* Part 61, Subpart H. Kentucky Division for Air Quality has received a delegation of authority to administer the NESHAP program.

Ambient air monitors measure radionuclide emissions from Paducah Site point sources, fugitive air emission sources, and background levels of radionuclides. In accordance with the NESHAP Management Plan, ambient air monitors are used to confirm that radiological emissions from the site produce a dose less than the levels allowed by 40 *CFR* Part 61, Subpart H.

11. REFERENCES

DOE (U.S. Department of Energy) 2015. *Environmental Radiological Effluent Monitoring and Environmental Surveillance,* DOE-HDBK-1216-2015, U.S. Department of Energy, Washington, DC, March.

FRNP (Four Rivers Nuclear Partnership, LLC) 2019. *National Emission Standards for Hazardous Air Pollutants Management Plan for Emission of Radionuclides for the U.S. Department of Energy Operations at the Paducah Site, Paducah, Kentucky*, CP2-EC-0002, Four Rivers Nuclear Partnership, LLC, Paducah, KY, October.

ORNL (Oak Ridge National Laboratory) 2015. E-mail from P. Scofield, Oak Ridge National Laboratory, to S. Knaus, Fluor Federal Services, Inc., Paducah Deactivation Project, "2014 RadNeshaps Report and Tables," May 11.

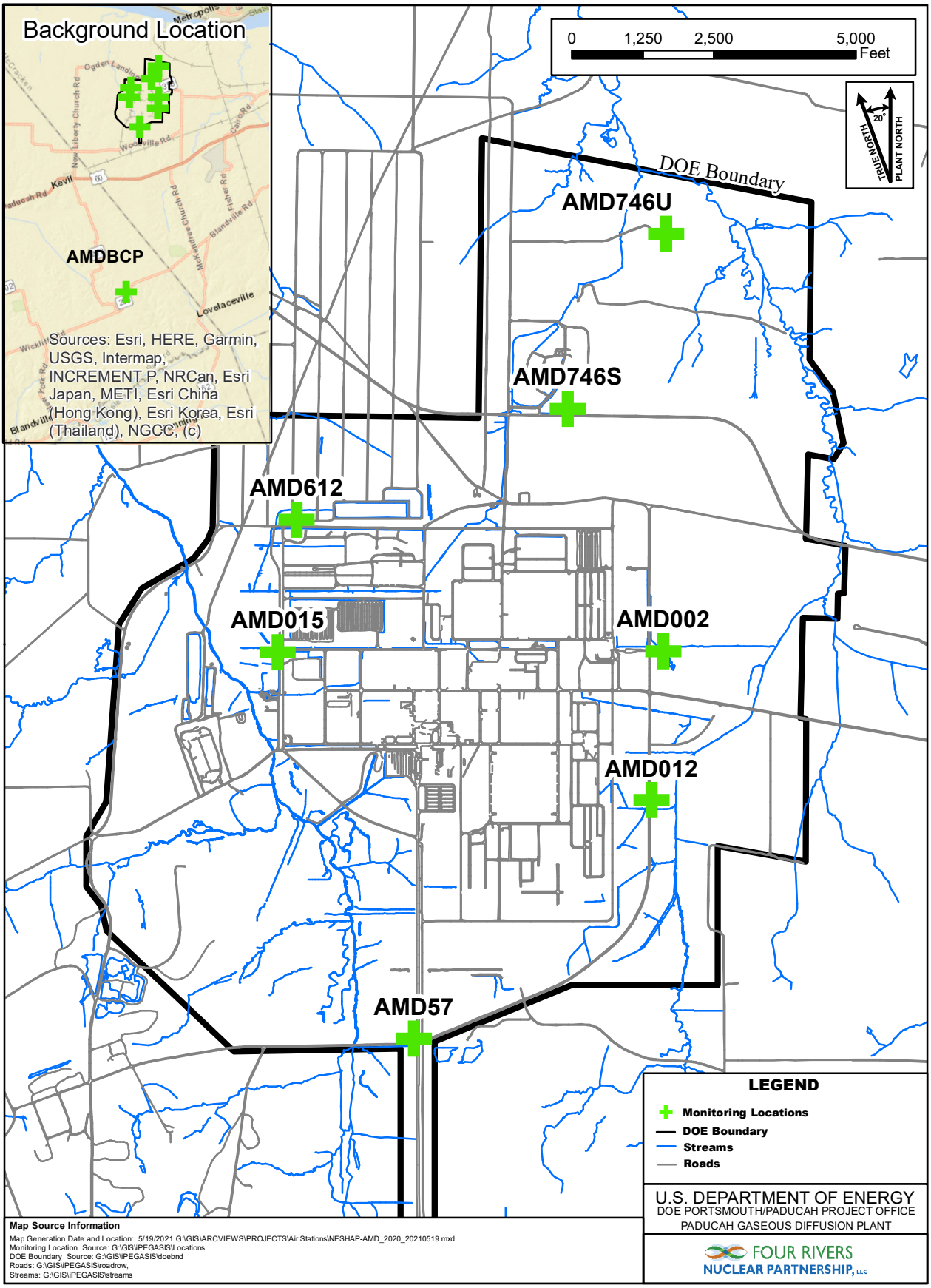

Figure 1. DOE Ambient Air Monitoring Stations

APPENDIX

AMBIENT AIR MONITORING DATA

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Table A.1. Sum of the Fractions Standard

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
1st Quarter January through March										
	Quarter Air Flow	7485	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q2AMD0022-22	01-Apr-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD002	Q2AMD0022-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	UJ
AMD002	Q2AMD0022-22	01-Apr-22	Plutonium-238	0.0529	pCi/Sample	7.07E-06	7.07E-18	2.10E-15	3.37E-03	U
AMD002	Q2AMD0022-22	01-Apr-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD002	Q2AMD0022-22	01-Apr-22	Technetium-99	27.4	pCi/Sample	3.66E-03	3.66E-15	1.40E-13	2.61E-02	U
AMD002	Q2AMD0022-22	01-Apr-22	Thorium-234	2.55	pCi/sample	3.41E-04	3.41E-16	2.20E-12	1.55E-04	U
AMD002	Q2AMD0022-22	01-Apr-22	Uranium-234	0.82	pCi/Sample	1.10E-04	1.10E-16	7.70E-15	1.42E-02	U
AMD002	Q2AMD0022-22	01-Apr-22	Uranium-235	0.153	pCi/Sample	2.04E-05	2.04E-17	7.10E-15	2.88E-03	U
AMD002	Q2AMD0022-22	01-Apr-22	**Uranium-238**	**1.14**	pCi/Sample	1.52E-04	1.52E-16	8.30E-15	1.83E-02	
								Sum of the Fractions of the Standard	6.51E-02	
	Quarter Air Flow	6955	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q2AMD0122-22	01-Apr-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD012	Q2AMD0122-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q2AMD0122-22	01-Apr-22	Plutonium-238	0.0446	pCi/sample	6.41E-06	6.41E-18	2.10E-15	3.05E-03	U
AMD012	Q2AMD0122-22	01-Apr-22	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	UJ
AMD012	Q2AMD0122-22	01-Apr-22	Technetium-99	6.1	pCi/sample	8.77E-04	8.77E-16	1.40E-13	6.26E-03	U
AMD012	Q2AMD0122-22	01-Apr-22	Thorium-234	11.4	pCi/sample	1.64E-03	1.64E-15	2.20E-12	7.45E-04	U
AMD012	Q2AMD0122-22	01-Apr-22	**Uranium-234**	**2.06**	pCi/sample	2.96E-04	2.96E-16	7.70E-15	3.85E-02	
AMD012	Q2AMD0122-22	01-Apr-22	Uranium-235	0.152	pCi/sample	2.19E-05	2.19E-17	7.10E-15	3.08E-03	U
AMD012	Q2AMD0122-22	01-Apr-22	**Uranium-238**	**1.09**	pCi/sample	1.57E-04	1.57E-16	8.30E-15	1.89E-02	
								Sum of the Fractions of the Standard	7.05E-02	
	Quarter Air Flow	7506	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q2AMD0152-22	01-Apr-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD015	Q2AMD0152-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q2AMD0152-22	01-Apr-22	Plutonium-238	0.219	pCi/sample	2.92E-05	2.92E-17	2.10E-15	1.39E-02	U
AMD015	Q2AMD0152-22	01-Apr-22	Plutonium-239/240	0.0944	pCi/sample	1.26E-05	1.26E-17	2.00E-15	6.29E-03	U
AMD015	Q2AMD0152-22	01-Apr-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	UJ
AMD015	Q2AMD0152-22	01-Apr-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD015	Q2AMD0152-22	01-Apr-22	**Uranium-234**	**1.11**	pCi/sample	1.48E-04	1.48E-16	7.70E-15	1.92E-02	
AMD015	Q2AMD0152-22	01-Apr-22	**Uranium-235**	**0.368**	pCi/sample	4.90E-05	4.90E-17	7.10E-15	6.91E-03	
AMD015	Q2AMD0152-22	01-Apr-22	**Uranium-238**	**1.63**	pCi/sample	2.17E-04	2.17E-16	8.30E-15	2.62E-02	
								Sum of the Fractions of the Standard	7.25E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
1st Quarter January through March										
	Quarter Air Flow	7484	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q2AMD572-22	01-Apr-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD57	Q2AMD572-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	UJ
AMD57	Q2AMD572-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q2AMD572-22	01-Apr-22	Plutonium-239/240	0.0681	pCi/sample	9.10E-06	9.10E-18	2.00E-15	4.55E-03	U
AMD57	Q2AMD572-22	01-Apr-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD57	Q2AMD572-22	01-Apr-22	Thorium-234	3.46	pCi/sample	4.62E-04	4.62E-16	2.20E-12	2.10E-04	U
AMD57	Q2AMD572-22	01-Apr-22	**Uranium-234**	**1.35**	pCi/sample	1.80E-04	1.80E-16	7.70E-15	2.34E-02	
AMD57	Q2AMD572-22	01-Apr-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD57	Q2AMD572-22	01-Apr-22	**Uranium-238**	**1.66**	pCi/sample	2.22E-04	2.22E-16	8.30E-15	2.67E-02	
								Sum of the Fractions of the Standard	5.49E-02	
	Quarter Air Flow	7485	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q2AMD6122-22	01-Apr-22	Americium-241	2.21	pCi/sample	2.95E-04	2.95E-16	1.90E-15	1.55E-01	UJ
AMD612	Q2AMD6122-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q2AMD6122-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD612	Q2AMD6122-22	01-Apr-22	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q2AMD6122-22	01-Apr-22	Technetium-99	19.5	pCi/sample	2.61E-03	2.61E-15	1.40E-13	1.86E-02	U
AMD612	Q2AMD6122-22	01-Apr-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD612	Q2AMD6122-22	01-Apr-22	**Uranium-234**	**0.838**	pCi/sample	1.12E-04	1.12E-16	7.70E-15	1.45E-02	
AMD612	Q2AMD6122-22	01-Apr-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q2AMD6122-22	01-Apr-22	**Uranium-238**	**1.34**	pCi/sample	1.79E-04	1.79E-16	8.30E-15	2.16E-02	
								Sum of the Fractions of the Standard	2.10E-01	
	Quarter Air Flow	7480	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q2AMD746S2-22	01-Apr-22	Americium-241	0.846	pCi/sample	1.13E-04	1.13E-16	1.90E-15	5.95E-02	U
AMD746S	Q2AMD746S2-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q2AMD746S2-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746S	Q2AMD746S2-22	01-Apr-22	Plutonium-239/240	0.185	pCi/sample	2.47E-05	2.47E-17	2.00E-15	1.24E-02	U
AMD746S	Q2AMD746S2-22	01-Apr-22	Technetium-99	0.0292	pCi/sample	3.90E-06	3.90E-18	1.40E-13	2.79E-05	U
AMD746S	Q2AMD746S2-22	01-Apr-22	Thorium-234	19	pCi/sample	2.54E-03	2.54E-15	2.20E-12	1.15E-03	U
AMD746S	Q2AMD746S2-22	01-Apr-22	**Uranium-234**	**1.69**	pCi/sample	2.26E-04	2.26E-16	7.70E-15	2.93E-02	
AMD746S	Q2AMD746S2-22	01-Apr-22	Uranium-235	0.188	pCi/sample	2.51E-05	2.51E-17	7.10E-15	3.54E-03	U
AMD746S	Q2AMD746S2-22	01-Apr-22	**Uranium-238**	**0.893**	pCi/sample	1.19E-04	1.19E-16	8.30E-15	1.44E-02	
								Sum of the Fractions of the Standard	1.20E-01	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
1st Quarter January through March										
	Quarter Air Flow	7484	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q2AMD746U2-22	01-Apr-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	UJ
AMD746U	Q2AMD746U2-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746U	Q2AMD746U2-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746U	Q2AMD746U2-22	01-Apr-22	Plutonium-239/240	0.0605	pCi/sample	8.08E-06	8.08E-18	2.00E-15	4.04E-03	U
AMD746U	Q2AMD746U2-22	01-Apr-22	Technetium-99	10	pCi/sample	1.34E-03	1.34E-15	1.40E-13	9.54E-03	U
AMD746U	Q2AMD746U2-22	01-Apr-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746U	Q2AMD746U2-22	01-Apr-22	**Uranium-234**	**1.1**	pCi/sample	1.47E-04	1.47E-16	7.70E-15	1.91E-02	
AMD746U	Q2AMD746U2-22	01-Apr-22	Uranium-235	0.114	pCi/sample	1.52E-05	1.52E-17	7.10E-15	2.15E-03	U
AMD746U	Q2AMD746U2-22	01-Apr-22	**Uranium-238**	**1.11**	pCi/sample	1.48E-04	1.48E-16	8.30E-15	1.79E-02	
								Sum of the Fractions of the Standard	5.27E-02	
	Quarter Air Flow	7508	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Americium-241	1.02	pCi/sample	1.36E-04	1.36E-16	1.90E-15	7.15E-02	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Neptunium-237	0.0225	pCi/sample	3.00E-06	3.00E-18	1.20E-15	2.50E-03	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Plutonium-239/240	0.283	pCi/sample	3.77E-05	3.77E-17	2.00E-15	1.88E-02	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Thorium-234	6.39	pCi/sample	8.51E-04	8.51E-16	2.20E-12	3.87E-04	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Uranium-234	0.905	pCi/sample	1.21E-04	1.21E-16	7.70E-15	1.57E-02	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	Uranium-235	0.0609	pCi/sample	8.11E-06	8.11E-18	7.10E-15	1.14E-03	U
AMDBCP	Q2AMDBCP2-22	01-Apr-22	**Uranium-238**	**1.1**	pCi/sample	1.47E-04	1.47E-16	8.30E-15	1.77E-02	
								Sum of the Fractions of the Standard	1.28E-01	
	Quarter Air Flow	7487	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q2AMDNE2-22	01-Apr-22	Americium-241	0.647	pCi/sample	8.64E-05	8.64E-17	1.90E-15	4.55E-02	U
AMDNE	Q2AMDNE2-22	01-Apr-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q2AMDNE2-22	01-Apr-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDNE	Q2AMDNE2-22	01-Apr-22	Plutonium-239/240	0.0366	pCi/sample	4.89E-06	4.89E-18	2.00E-15	2.44E-03	U
AMDNE	Q2AMDNE2-22	01-Apr-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDNE	Q2AMDNE2-22	01-Apr-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDNE	Q2AMDNE2-22	01-Apr-22	**Uranium-234**	**1.81**	pCi/sample	2.42E-04	2.42E-16	7.70E-15	3.14E-02	
AMDNE	Q2AMDNE2-22	01-Apr-22	Uranium-235	0.524	pCi/sample	7.00E-05	7.00E-17	7.10E-15	9.86E-03	U
AMDNE	Q2AMDNE2-22	01-Apr-22	**Uranium-238**	**1.36**	pCi/sample	1.82E-04	1.82E-16	8.30E-15	2.19E-02	
								Sum of the Fractions of the Standard	1.11E-01	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
2nd Quarter April through June										
	Quarter Air Flow	7403	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q3AMD0023-22	20-Jul-22	Americium-241	0.27	pCi/sample	3.65E-05	3.65E-17	1.90E-15	1.92E-02	U
AMD002	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD002	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD002	Q3AMD0023-22	20-Jul-22	Plutonium-239/240	0.0911	pCi/Sample	1.23E-05	1.23E-17	2.00E-15	6.15E-03	U
AMD002	Q3AMD0023-22	20-Jul-22	Technetium-99	8.56	pCi/Sample	1.16E-03	1.16E-15	1.40E-13	8.26E-03	U
AMD002	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UJ
AMD002	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.08**	pCi/Sample	1.46E-04	1.46E-16	7.70E-15	1.89E-02	
AMD002	Q3AMD0023-22	20-Jul-22	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD002	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**1.3**	pCi/Sample	1.76E-04	1.76E-16	8.30E-15	2.12E-02	
								Sum of the Fractions of the Standard	7.37E-02	
	Quarter Air Flow	7404	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q3AMD0023-22	20-Jul-22	Americium-241	0.25	pCi/sample	3.38E-05	3.38E-17	1.90E-15	1.78E-02	U
AMD012	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q3AMD0023-22	20-Jul-22	Plutonium-238	0.359	pCi/Sample	4.85E-05	4.85E-17	2.10E-15	2.31E-02	U
AMD012	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD012	Q3AMD0023-22	20-Jul-22	Technetium-99	18.3	pCi/Sample	2.47E-03	2.47E-15	1.40E-13	1.77E-02	U
AMD012	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UJ
AMD012	Q3AMD0023-22	20-Jul-22	Uranium-234	0.639	pCi/Sample	8.63E-05	8.63E-17	7.70E-15	1.12E-02	U
AMD012	Q3AMD0023-22	20-Jul-22	Uranium-235	0.114	pCi/Sample	1.54E-05	1.54E-17	7.10E-15	2.17E-03	U
AMD012	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**0.847**	pCi/sample	1.14E-04	1.14E-16	8.30E-15	1.38E-02	
								Sum of the Fractions of the Standard	8.57E-02	
	Quarter Air Flow	7412	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q3AMD0023-22	20-Jul-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD015	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD015	Q3AMD0023-22	20-Jul-22	Plutonium-239/240	0.0997	pCi/Sample	1.35E-05	1.35E-17	2.00E-15	6.73E-03	U
AMD015	Q3AMD0023-22	20-Jul-22	Technetium-99	1.37	pCi/Sample	1.85E-04	1.85E-16	1.40E-13	1.32E-03	U
AMD015	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD015	Q3AMD0023-22	20-Jul-22	Uranium-234	0.706	pCi/Sample	9.53E-05	9.53E-17	7.70E-15	1.24E-02	U
AMD015	Q3AMD0023-22	20-Jul-22	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD015	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**1.2**	pCi/Sample	1.62E-04	1.62E-16	8.30E-15	1.95E-02	
								Sum of the Fractions of the Standard	3.99E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
2nd Quarter April through June										
	Quarter Air Flow	7402	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q3AMD0023-22	20-Jul-22	Americium-241	0.268	pCi/sample	3.62E-05	3.62E-17	1.90E-15	1.91E-02	U
AMD57	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD57	Q3AMD0023-22	20-Jul-22	Technetium-99	8.59	pCi/Sample	1.16E-03	1.16E-15	1.40E-13	8.29E-03	U
AMD57	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD57	Q3AMD0023-22	20-Jul-22	Uranium-234	0.736	pCi/Sample	9.94E-05	9.94E-17	7.70E-15	1.29E-02	U
AMD57	Q3AMD0023-22	20-Jul-22	Uranium-235	0.115	pCi/Sample	1.55E-05	1.55E-17	7.10E-15	2.19E-03	U
AMD57	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**1.51**	pCi/Sample	2.04E-04	2.04E-16	8.30E-15	2.46E-02	
								Sum of the Fractions of the Standard	6.70E-02	
	Quarter Air Flow	7403	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q3AMD0023-22	20-Jul-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD612	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD612	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q3AMD0023-22	20-Jul-22	Technetium-99	14.5	pCi/Sample	1.96E-03	1.96E-15	1.40E-13	1.40E-02	U
AMD612	Q3AMD0023-22	20-Jul-22	Thorium-234	13.4	pCi/sample	1.81E-03	1.81E-15	2.20E-12	8.23E-04	U
AMD612	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.4**	pCi/Sample	1.89E-04	1.89E-16	7.70E-15	2.46E-02	
AMD612	Q3AMD0023-22	20-Jul-22	Uranium-235	0.216	pCi/Sample	2.92E-05	2.92E-17	7.10E-15	4.11E-03	U
AMD612	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**2.11**	pCi/Sample	2.85E-04	2.85E-16	8.30E-15	3.43E-02	
								Sum of the Fractions of the Standard	7.78E-02	
	Quarter Air Flow	7403	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q3AMD0023-22	20-Jul-22	Americium-241	0.0458	pCi/sample	6.19E-06	6.19E-18	1.90E-15	3.26E-03	U
AMD746S	Q3AMD0023-22	20-Jul-22	Neptunium-237	0.0296	pCi/sample	4.00E-06	4.00E-18	1.20E-15	3.33E-03	U
AMD746S	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746S	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q3AMD0023-22	20-Jul-22	Technetium-99	11.8	pCi/Sample	1.59E-03	1.59E-15	1.40E-13	1.14E-02	U
AMD746S	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746S	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.36**	pCi/Sample	1.84E-04	1.84E-16	7.70E-15	2.39E-02	
AMD746S	Q3AMD0023-22	20-Jul-22	Uranium-235	0.281	pCi/Sample	3.80E-05	3.80E-17	7.10E-15	5.35E-03	U
AMD746S	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**2.36**	pCi/Sample	3.19E-04	3.19E-16	8.30E-15	3.84E-02	
								Sum of the Fractions of the Standard	8.56E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
2nd Quarter April through June										
	Quarter Air Flow	7407	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q3AMD0023-22	20-Jul-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746U	Q3AMD0023-22	20-Jul-22	Neptunium-237	0.766	pCi/sample	1.03E-04	1.03E-16	1.20E-15	8.62E-02	U
AMD746U	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746U	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q3AMD0023-22	20-Jul-22	Technetium-99	4.65	pCi/Sample	6.28E-04	6.28E-16	1.40E-13	4.48E-03	U
AMD746U	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746U	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.67**	pCi/Sample	2.25E-04	2.25E-16	7.70E-15	2.93E-02	
AMD746U	Q3AMD0023-22	20-Jul-22	Uranium-235	0.0762	pCi/Sample	1.03E-05	1.03E-17	7.10E-15	1.45E-03	U
AMD746U	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**0.834**	pCi/Sample	1.13E-04	1.13E-16	8.30E-15	1.36E-02	
								Sum of the Fractions of the Standard	1.35E-01	
	Quarter Air Flow	7422	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q3AMD0023-22	20-Jul-22	Americium-241	0.166	pCi/sample	2.24E-05	2.24E-17	1.90E-15	1.18E-02	U
AMDBCP	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDBCP	Q3AMD0023-22	20-Jul-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDBCP	Q3AMD0023-22	20-Jul-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q3AMD0023-22	20-Jul-22	Technetium-99	3.66	pCi/Sample	4.93E-04	4.93E-16	1.40E-13	3.52E-03	U
AMDBCP	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDBCP	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.41**	pCi/Sample	1.90E-04	1.90E-16	7.70E-15	2.47E-02	
AMDBCP	Q3AMD0023-22	20-Jul-22	Uranium-235	0.064	pCi/Sample	8.62E-06	8.62E-18	7.10E-15	1.21E-03	U
AMDBCP	Q3AMD0023-22	20-Jul-22	**Uranium-238**	**1.27**	pCi/Sample	1.71E-04	1.71E-16	8.30E-15	2.06E-02	
								Sum of the Fractions of the Standard	6.18E-02	
	Quarter Air Flow	7407	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q3AMD0023-22	20-Jul-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMDNE	Q3AMD0023-22	20-Jul-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q3AMD0023-22	20-Jul-22	Plutonium-238	0.164	pCi/Sample	2.21E-05	2.21E-17	2.10E-15	1.05E-02	U
AMDNE	Q3AMD0023-22	20-Jul-22	Plutonium-239/240	0.0411	pCi/Sample	5.55E-06	5.55E-18	2.00E-15	2.77E-03	U
AMDNE	Q3AMD0023-22	20-Jul-22	Technetium-99	19.8	pCi/Sample	2.67E-03	2.67E-15	1.40E-13	1.91E-02	U
AMDNE	Q3AMD0023-22	20-Jul-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDNE	Q3AMD0023-22	20-Jul-22	**Uranium-234**	**1.7**	pCi/Sample	2.30E-04	2.30E-16	7.70E-15	2.98E-02	
AMDNE	Q3AMD0023-22	20-Jul-22	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMDNE	Q3AMD0023-22	20-Jul-22	Uranium-238	0.93	pCi/Sample	1.26E-04	1.26E-16	8.30E-15	1.51E-02	U
								Sum of the Fractions of the Standard	7.73E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
3rd Quarter July through September										
	Quarter Air Flow	7420	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q4AMD0024-22	02-Nov-22	Americium-241	0.133	pCi/sample	1.79E-05	1.79E-17	1.90E-15	9.43E-03	U
AMD002	Q4AMD0024-22	02-Nov-22	Neptunium-237	0.0296	pCi/sample	3.99E-06	3.99E-18	1.20E-15	3.32E-03	TU
AMD002	Q4AMD0024-22	02-Nov-22	Plutonium-238	0.478	pCi/Sample	6.44E-05	6.44E-17	2.10E-15	3.07E-02	U
AMD002	Q4AMD0024-22	02-Nov-22	Plutonium-239/240	0.0556	pCi/Sample	7.49E-06	7.49E-18	2.00E-15	3.75E-03	U
AMD002	Q4AMD0024-22	02-Nov-22	Technetium-99	40.8	pCi/Sample	5.50E-03	5.50E-15	1.40E-13	3.93E-02	U
AMD002	Q4AMD0024-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD002	Q4AMD0024-22	02-Nov-22	**Uranium-234**	**1.28**	pCi/Sample	1.73E-04	1.73E-16	7.70E-15	2.24E-02	
AMD002	Q4AMD0024-22	02-Nov-22	Uranium-235	0.0378	pCi/Sample	5.09E-06	5.09E-18	7.10E-15	7.18E-04	U
AMD002	Q4AMD0024-22	02-Nov-22	**Uranium-238**	**1.9**	pCi/Sample	2.56E-04	2.56E-16	8.30E-15	3.09E-02	
							Sum of the Fractions of the Standard		1.40E-01	
	Quarter Air Flow	7409	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q4AMD0124-22	02-Nov-22	Americium-241	0.844	pCi/sample	1.14E-04	1.14E-16	1.90E-15	6.00E-02	U
AMD012	Q4AMD0124-22	02-Nov-22	Neptunium-237	0.333	pCi/sample	4.49E-05	4.49E-17	1.20E-15	3.75E-02	U
AMD012	Q4AMD0124-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD012	Q4AMD0124-22	02-Nov-22	Plutonium-239/240	0.268	pCi/Sample	3.62E-05	3.62E-17	2.00E-15	1.81E-02	U
AMD012	Q4AMD0124-22	02-Nov-22	Technetium-99	17.7	pCi/Sample	2.39E-03	2.39E-15	1.40E-13	1.71E-02	U
AMD012	Q4AMD0124-22	02-Nov-22	Thorium-234	14.6	pCi/sample	1.97E-03	1.97E-15	2.20E-12	8.96E-04	U
AMD012	Q4AMD0124-22	02-Nov-22	**Uranium-234**	**1.27**	pCi/Sample	1.71E-04	1.71E-16	7.70E-15	2.23E-02	
AMD012	Q4AMD0124-22	02-Nov-22	Uranium-235	0.0241	pCi/Sample	3.25E-06	3.25E-18	7.10E-15	4.58E-04	U
AMD012	Q4AMD0124-22	02-Nov-22	**Uranium-238**	**1.69**	pCi/Sample	2.28E-04	2.28E-16	8.30E-15	2.75E-02	
							Sum of the Fractions of the Standard		1.84E-01	
	Quarter Air Flow	7408	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q4AMD0154-22	02-Nov-22	Americium-241	0.489	pCi/sample	6.60E-05	6.60E-17	1.90E-15	3.47E-02	U
AMD015	Q4AMD0154-22	02-Nov-22	Neptunium-237	0.0109	pCi/sample	1.47E-06	1.47E-18	1.20E-15	1.23E-03	U
AMD015	Q4AMD0154-22	02-Nov-22	Plutonium-238	0.0357	pCi/Sample	4.82E-06	4.82E-18	2.10E-15	2.29E-03	U
AMD015	Q4AMD0154-22	02-Nov-22	Plutonium-239/240	0.174	pCi/Sample	2.35E-05	2.35E-17	2.00E-15	1.17E-02	U
AMD015	Q4AMD0154-22	02-Nov-22	Technetium-99	33	pCi/Sample	4.45E-03	4.45E-15	1.40E-13	3.18E-02	U
AMD015	Q4AMD0154-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD015	Q4AMD0154-22	02-Nov-22	**Uranium-234**	**2.78**	pCi/Sample	3.75E-04	3.75E-16	7.70E-15	4.87E-02	
AMD015	Q4AMD0154-22	02-Nov-22	Uranium-235	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD015	Q4AMD0154-22	02-Nov-22	**Uranium-238**	**2.3**	pCi/Sample	3.10E-04	3.10E-16	8.30E-15	3.74E-02	
							Sum of the Fractions of the Standard		1.68E-01	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
3rd Quarter July through September										
	Quarter Air Flow	7406	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q4AMD574-22	02-Nov-22	Americium-241	0.637	pCi/sample	8.60E-05	8.60E-17	1.90E-15	4.53E-02	U
AMD57	Q4AMD574-22	02-Nov-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q4AMD574-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q4AMD574-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD57	Q4AMD574-22	02-Nov-22	Technetium-99	37.7	pCi/Sample	5.09E-03	5.09E-15	1.40E-13	3.64E-02	U
AMD57	Q4AMD574-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD57	Q4AMD574-22	02-Nov-22	**Uranium-234**	**1.64**	pCi/Sample	2.21E-04	2.21E-16	7.70E-15	2.88E-02	
AMD57	Q4AMD574-22	02-Nov-22	Uranium-235	0.036	pCi/Sample	4.86E-06	4.86E-18	7.10E-15	6.85E-04	U
AMD57	Q4AMD574-22	02-Nov-22	**Uranium-238**	**2.41**	pCi/Sample	3.25E-04	3.25E-16	8.30E-15	3.92E-02	
							Sum of the Fractions of the Standard		1.50E-01	
	Quarter Air Flow	7406	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q4AMD6124-22	02-Nov-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	Technetium-99	48.5	pCi/Sample	6.55E-03	6.55E-15	1.40E-13	4.68E-02	U
AMD612	Q4AMD6124-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	**Uranium-234**	**1.62**	pCi/Sample	2.19E-04	2.19E-16	7.70E-15	2.84E-02	
AMD612	Q4AMD6124-22	02-Nov-22	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q4AMD6124-22	02-Nov-22	**Uranium-238**	**1.2**	pCi/Sample	1.62E-04	1.62E-16	8.30E-15	1.95E-02	
							Sum of the Fractions of the Standard		9.47E-02	
	Quarter Air Flow	7405	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q4AMD746S4-22	02-Nov-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746S	Q4AMD746S4-22	02-Nov-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q4AMD746S4-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746S	Q4AMD746S4-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q4AMD746S4-22	02-Nov-22	Technetium-99	43.5	pCi/Sample	5.87E-03	5.87E-15	1.40E-13	4.20E-02	U
AMD746S	Q4AMD746S4-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746S	Q4AMD746S4-22	02-Nov-22	**Uranium-234**	**1.31**	pCi/Sample	1.77E-04	1.77E-16	7.70E-15	2.30E-02	
AMD746S	Q4AMD746S4-22	02-Nov-22	Uranium-235	0.193	pCi/Sample	2.61E-05	2.61E-17	7.10E-15	3.67E-03	U
AMD746S	Q4AMD746S4-22	02-Nov-22	**Uranium-238**	**1.46**	pCi/Sample	1.97E-04	1.97E-16	8.30E-15	2.38E-02	
							Sum of the Fractions of the Standard		9.24E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
3rd Quarter July through September										
	Quarter Air Flow	6947	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q4AMD746U4-22	02-Nov-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746U	Q4AMD746U4-22	02-Nov-22	Neptunium-237	0.00454	pCi/sample	6.54E-07	6.54E-19	1.20E-15	5.45E-04	U
AMD746U	Q4AMD746U4-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746U	Q4AMD746U4-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q4AMD746U4-22	02-Nov-22	Technetium-99	28.9	pCi/Sample	4.16E-03	4.16E-15	1.40E-13	2.97E-02	U
AMD746U	Q4AMD746U4-22	02-Nov-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746U	Q4AMD746U4-22	02-Nov-22	**Uranium-234**	**2.59**	pCi/Sample	3.73E-04	3.73E-16	7.70E-15	4.84E-02	
AMD746U	Q4AMD746U4-22	02-Nov-22	Uranium-235	0.142	pCi/Sample	2.04E-05	2.04E-17	7.10E-15	2.88E-03	U
AMD746U	Q4AMD746U4-22	02-Nov-22	**Uranium-238**	**1.49**	pCi/Sample	2.14E-04	2.14E-16	8.30E-15	2.58E-02	
								Sum of the Fractions of the Standard	1.07E-01	
	Quarter Air Flow	7431	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Americium-241	0.586	pCi/sample	7.89E-05	7.89E-17	1.90E-15	4.15E-02	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Technetium-99	17.2	pCi/Sample	2.31E-03	2.31E-15	1.40E-13	1.65E-02	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Thorium-234	2.05	pCi/sample	2.76E-04	2.76E-16	2.20E-12	1.25E-04	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	**Uranium-234**	**2.05**	pCi/Sample	2.76E-04	2.76E-16	7.70E-15	3.58E-02	
AMDBCP	Q4AMDBCP4-22	02-Nov-22	Uranium-235	0.144	pCi/Sample	1.94E-05	1.94E-17	7.10E-15	2.73E-03	U
AMDBCP	Q4AMDBCP4-22	02-Nov-22	**Uranium-238**	**1.46**	pCi/Sample	1.96E-04	1.96E-16	8.30E-15	2.37E-02	
								Sum of the Fractions of the Standard	1.20E-01	
	Quarter Air Flow	7407	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q4AMDNE4-22	02-Nov-22	Americium-241	0.272	pCi/sample	3.67E-05	3.67E-17	1.90E-15	1.93E-02	U
AMDNE	Q4AMDNE4-22	02-Nov-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q4AMDNE4-22	02-Nov-22	Plutonium-238	0.0482	pCi/Sample	6.51E-06	6.51E-18	2.10E-15	3.10E-03	U
AMDNE	Q4AMDNE4-22	02-Nov-22	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDNE	Q4AMDNE4-22	02-Nov-22	Technetium-99	30.2	pCi/Sample	4.08E-03	4.08E-15	1.40E-13	2.91E-02	U
AMDNE	Q4AMDNE4-22	02-Nov-22	Thorium-234	1.44	pCi/sample	1.94E-04	1.94E-16	2.20E-12	8.84E-05	U
AMDNE	Q4AMDNE4-22	02-Nov-22	**Uranium-234**	**1.25**	pCi/Sample	1.69E-04	1.69E-16	7.70E-15	2.19E-02	
AMDNE	Q4AMDNE4-22	02-Nov-22	Uranium-235	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMDNE	Q4AMDNE4-22	02-Nov-22	**Uranium-238**	**1.97**	pCi/Sample	2.66E-04	2.66E-16	8.30E-15	3.20E-02	
								Sum of the Fractions of the Standard	1.06E-01	

Table A.1. Sum of the Fractions Standard

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
4th Quarter October through December										
	Quarterly Air Flow	6880	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q1AMD0021-23	29-Dec-22	Americium-241	0.0431	pCi/sample	6.26E-06	6.26E-18	1.90E-15	3.30E-03	U
AMD002	Q1AMD0021-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	TU
AMD002	Q1AMD0021-23	29-Dec-22	Plutonium-238	0.0318	pCi/sample	4.62E-06	4.62E-18	2.10E-15	2.20E-03	U
AMD002	Q1AMD0021-23	29-Dec-22	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD002	Q1AMD0021-23	29-Dec-22	Technetium-99	36.3	pCi/sample	5.28E-03	5.28E-15	1.40E-13	3.77E-02	U
AMD002	Q1AMD0021-23	29-Dec-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD002	Q1AMD0021-23	29-Dec-22	**Uranium-234**	**2.01**	pCi/sample	2.92E-04	2.92E-16	7.70E-15	3.79E-02	
AMD002	Q1AMD0021-23	29-Dec-22	Uranium-235	0.0397	pCi/sample	5.77E-06	5.77E-18	7.10E-15	8.13E-04	U
AMD002	Q1AMD0021-23	29-Dec-22	**Uranium-238**	**1.52**	pCi/sample	2.21E-04	2.21E-16	8.30E-15	2.66E-02	
								Sum of the Fractions of the Standard	1.09E-01	
	Quarterly Air Flow	4850	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q1AMD0121-23	29-Dec-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD012	Q1AMD0121-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q1AMD0121-23	29-Dec-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD012	Q1AMD0121-23	29-Dec-22	Plutonium-239/240	0.117	pCi/sample	2.41E-05	2.41E-17	2.00E-15	1.21E-02	U
AMD012	Q1AMD0121-23	29-Dec-22	Technetium-99	19.3	pCi/sample	3.98E-03	3.98E-15	1.40E-13	2.84E-02	U
AMD012	Q1AMD0121-23	29-Dec-22	Thorium-234	11	pCi/sample	2.27E-03	2.27E-15	2.20E-12	1.03E-03	U
AMD012	Q1AMD0121-23	29-Dec-22	**Uranium-234**	**1.18**	pCi/sample	2.43E-04	2.43E-16	7.70E-15	3.16E-02	
AMD012	Q1AMD0121-23	29-Dec-22	Uranium-235	0.119	pCi/sample	2.45E-05	2.45E-17	7.10E-15	3.46E-03	U
AMD012	Q1AMD0121-23	29-Dec-22	**Uranium-238**	**1.85**	pCi/sample	3.81E-04	3.81E-16	8.30E-15	4.60E-02	
								Sum of the Fractions of the Standard	1.23E-01	
	Quarterly Air Flow	6912	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q1AMD0151-23	29-Dec-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD015	Q1AMD0151-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q1AMD0151-23	29-Dec-22	Plutonium-238	0.111	pCi/sample	1.61E-05	1.61E-17	2.10E-15	7.65E-03	U
AMD015	Q1AMD0151-23	29-Dec-22	Plutonium-239/240	0.264	pCi/sample	3.82E-05	3.82E-17	2.00E-15	1.91E-02	U
AMD015	Q1AMD0151-23	29-Dec-22	Technetium-99	0.899	pCi/sample	1.30E-04	1.30E-16	1.40E-13	9.29E-04	U
AMD015	Q1AMD0151-23	29-Dec-22	Thorium-234	32	pCi/sample	4.63E-03	4.63E-15	2.20E-12	2.10E-03	U
AMD015	Q1AMD0151-23	29-Dec-22	**Uranium-234**	**1.98**	pCi/sample	2.86E-04	2.86E-16	7.70E-15	3.72E-02	
AMD015	Q1AMD0151-23	29-Dec-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD015	Q1AMD0151-23	29-Dec-22	**Uranium-238**	**1.72**	pCi/sample	2.49E-04	2.49E-16	8.30E-15	3.00E-02	
								Sum of the Fractions of the Standard	9.70E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
4th Quarter October through December										
	Quarterly Air Flow	6938	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q1AMD571-23	29-Dec-22	Americium-241	0.0994	pCi/sample	1.43E-05	1.43E-17	1.90E-15	7.54E-03	U
AMD57	Q1AMD571-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q1AMD571-23	29-Dec-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q1AMD571-23	29-Dec-22	Plutonium-239/240	0.675	pCi/sample	9.73E-05	9.73E-17	2.00E-15	4.86E-02	U
AMD57	Q1AMD571-23	29-Dec-22	Technetium-99	24.7	pCi/sample	3.56E-03	3.56E-15	1.40E-13	2.54E-02	U
AMD57	Q1AMD571-23	29-Dec-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD57	Q1AMD571-23	29-Dec-22	**Uranium-234**	**1.49**	pCi/sample	2.15E-04	2.15E-16	7.70E-15	2.79E-02	
AMD57	Q1AMD571-23	29-Dec-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD57	Q1AMD571-23	29-Dec-22	**Uranium-238**	**1.99**	pCi/sample	2.87E-04	2.87E-16	8.30E-15	3.46E-02	
								Sum of the Fractions of the Standard	1.44E-01	
	Quarterly Air Flow	6848	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q1AMD6121-23	29-Dec-22	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD612	Q1AMD6121-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q1AMD6121-23	29-Dec-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD612	Q1AMD6121-23	29-Dec-22	Plutonium-239/240	0.482	pCi/sample	7.04E-05	7.04E-17	2.00E-15	3.52E-02	U
AMD612	Q1AMD6121-23	29-Dec-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD612	Q1AMD6121-23	29-Dec-22	Thorium-234	30.9	pCi/sample	4.51E-03	4.51E-15	2.20E-12	2.05E-03	U
AMD612	Q1AMD6121-23	29-Dec-22	**Uranium-234**	**1.71**	pCi/sample	2.50E-04	2.50E-16	7.70E-15	3.24E-02	
AMD612	Q1AMD6121-23	29-Dec-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q1AMD6121-23	29-Dec-22	**Uranium-238**	**2.05**	pCi/sample	2.99E-04	2.99E-16	8.30E-15	3.61E-02	
								Sum of the Fractions of the Standard	1.06E-01	
	Quarter Air Flow	6912	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q1AMD746S1-23	29-Dec-22	Americium-241	0.168	pCi/sample	2.43E-05	2.43E-17	1.90E-15	1.28E-02	U
AMD746S	Q1AMD746S1-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q1AMD746S1-23	29-Dec-22	Plutonium-238	0.104	pCi/sample	1.50E-05	1.50E-17	2.10E-15	7.16E-03	U
AMD746S	Q1AMD746S1-23	29-Dec-22	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q1AMD746S1-23	29-Dec-22	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD746S	Q1AMD746S1-23	29-Dec-22	Thorium-234	30.2	pCi/sample	4.37E-03	4.37E-15	2.20E-12	1.99E-03	U
AMD746S	Q1AMD746S1-23	29-Dec-22	**Uranium-234**	**0.833**	pCi/sample	1.21E-04	1.21E-16	7.70E-15	1.57E-02	
AMD746S	Q1AMD746S1-23	29-Dec-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD746S	Q1AMD746S1-23	29-Dec-22	**Uranium-238**	**0.862**	pCi/sample	1.25E-04	1.25E-16	8.30E-15	1.50E-02	
								Sum of the Fractions of the Standard	5.26E-02	

Table A.1. Sum of the Fractions Standard (Continued)

Station	Client Sample ID	Date Collected	Analysis	Result	Units	Concentration	Concentration	Standard	Fraction of Standard	Qualifier
4th Quarter October through December										
	Quarterly Air Flow	6929	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q1AMD746U1-23	29-Dec-22	Americium-241	0.0684	pCi/sample	9.87E-06	9.87E-18	1.90E-15	5.20E-03	U
AMD746U	Q1AMD746U1-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746U	Q1AMD746U1-23	29-Dec-22	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746U	Q1AMD746U1-23	29-Dec-22	Plutonium-239/240	0.162	pCi/sample	2.34E-05	2.34E-17	2.00E-15	1.17E-02	U
AMD746U	Q1AMD746U1-23	29-Dec-22	Technetium-99	24.8	pCi/sample	3.58E-03	3.58E-15	1.40E-13	2.56E-02	U
AMD746U	Q1AMD746U1-23	29-Dec-22	Thorium-234	17.8	pCi/sample	2.57E-03	2.57E-15	2.20E-12	1.17E-03	U
AMD746U	Q1AMD746U1-23	29-Dec-22	**Uranium-234**	**1.24**	pCi/sample	1.79E-04	1.79E-16	7.70E-15	2.32E-02	
AMD746U	Q1AMD746U1-23	29-Dec-22	Uranium-235	0.352	pCi/sample	5.08E-05	5.08E-17	7.10E-15	7.16E-03	U
AMD746U	Q1AMD746U1-23	29-Dec-22	**Uranium-238**	**1.67**	pCi/sample	2.41E-04	2.41E-16	8.30E-15	2.90E-02	
								Sum of the Fractions of the Standard	1.03E-01	
	Quarterly Air Flow	6446	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Americium-241	0.119	pCi/sample	1.85E-05	1.85E-17	1.90E-15	9.72E-03	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Neptunium-237	1.01	pCi/sample	1.57E-04	1.57E-16	1.20E-15	1.31E-01	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Plutonium-238	0.00657	pCi/sample	1.02E-06	1.02E-18	2.10E-15	4.85E-04	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Technetium-99	27.2	pCi/sample	4.22E-03	4.22E-15	1.40E-13	3.01E-02	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	**Uranium-234**	**1.87**	pCi/sample	2.90E-04	2.90E-16	7.70E-15	3.77E-02	
AMDBCP	Q1AMDBCP1-23	29-Dec-22	Uranium-235	0.136	pCi/sample	2.11E-05	2.11E-17	7.10E-15	2.97E-03	U
AMDBCP	Q1AMDBCP1-23	29-Dec-22	**Uranium-238**	**1.71**	pCi/sample	2.65E-04	2.65E-16	8.30E-15	3.20E-02	
								Sum of the Fractions of the Standard	2.44E-01	
	Quarterly Air Flow	6928	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q1AMDNE1-23	29-Dec-22	Americium-241	0.133	pCi/sample	1.92E-05	1.92E-17	1.90E-15	1.01E-02	U
AMDNE	Q1AMDNE1-23	29-Dec-22	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q1AMDNE1-23	29-Dec-22	Plutonium-238	0.152	pCi/sample	2.19E-05	2.19E-17	2.10E-15	1.04E-02	U
AMDNE	Q1AMDNE1-23	29-Dec-22	Plutonium-239/240	0.407	pCi/sample	5.87E-05	5.87E-17	2.00E-15	2.94E-02	U
AMDNE	Q1AMDNE1-23	29-Dec-22	Technetium-99	41	pCi/sample	5.92E-03	5.92E-15	1.40E-13	4.23E-02	U
AMDNE	Q1AMDNE1-23	29-Dec-22	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDNE	Q1AMDNE1-23	29-Dec-22	**Uranium-234**	**1.37**	pCi/sample	1.98E-04	1.98E-16	7.70E-15	2.57E-02	
AMDNE	Q1AMDNE1-23	29-Dec-22	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMDNE	Q1AMDNE1-23	29-Dec-22	**Uranium-238**	**2.09**	pCi/sample	3.02E-04	3.02E-16	8.30E-15	3.63E-02	
								Sum of the Fractions of the Standard	1.54E-01	

* = Negative result replaced with zero for calculation.

Bold = Detection above MDC.

U = Value reported is less than the MDA and/or TPU.

T = Tracer recovery outside control limits of 30-110%.

Table A.2. Ambient Air Data

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMD002	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	-0.182	pCi/sample	U	6.39	2.73	2.74
AMD002	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.644	pCi/sample	UJ	1.87	0.509	0.51
AMD002	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	0.0529	pCi/Sample	U	1.15	0.553	0.554
AMD002	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.181	pCi/Sample	U	1.24	0.419	0.421
AMD002	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	27.4	pCi/Sample	U	62.1	36.7	36.8
AMD002	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	2.55	pCi/sample	U	30.4	60.4	60.4
AMD002	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	0.82	pCi/Sample	U	0.943	0.703	0.715
AMD002	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.153	pCi/Sample	U	0.732	0.422	0.423
AMD002	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.14	pCi/Sample		0.465	0.688	0.708
AMD012	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	-1.73	pCi/sample	U	7.29	2.18	2.19
AMD012	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.25	pCi/sample	U	1.05	0.314	0.314
AMD012	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	0.0446	pCi/Sample	U	0.972	0.466	0.467
AMD012	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.496	pCi/Sample	UJ	1.51	0.419	0.42
AMD012	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	6.1	pCi/Sample	U	60.7	34.9	34.9
AMD012	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	11.4	pCi/sample	U	20.6	13.8	14.9
AMD012	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	2.06	pCi/Sample		0.938	0.975	1.02
AMD012	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.152	pCi/Sample	U	0.727	0.419	0.42
AMD012	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.09	pCi/Sample		0.862	0.748	0.764
AMD015	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	-0.394	pCi/sample	U	4.55	1.74	1.75
AMD015	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.226	pCi/sample	U	0.95	0.284	0.284
AMD015	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	0.219	pCi/Sample	U	0.596	0.43	0.431
AMD015	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0944	pCi/Sample	U	0.595	0.354	0.354
AMD015	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	-35.6	pCi/Sample	UJ	66.6	34.8	34.8
AMD015	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	-14.2	pCi/sample	U	26.3	25.4	26.4
AMD015	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	1.11	pCi/Sample		0.889	0.767	0.787
AMD015	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.368	pCi/Sample		0.368	0.485	0.488
AMD015	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.63	pCi/Sample		0.889	0.886	0.916
AMD57	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	-0.943	pCi/sample	U	6.48	2.19	2.19
AMD57	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.268	pCi/sample	UJ	0.908	0.259	0.259
AMD57	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.256	pCi/Sample	U	1.49	0.484	0.486
AMD57	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0681	pCi/Sample	U	1.65	0.776	0.777
AMD57	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	-22.5	pCi/Sample	U	68.5	38.8	38.8
AMD57	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	3.46	pCi/sample	U	28	34.2	34.2
AMD57	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	1.35	pCi/Sample		0.584	0.718	0.745
AMD57	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	-0.128	pCi/Sample	U	0.746	0.242	0.242
AMD57	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.66	pCi/Sample		0.667	0.8	0.832
AMD612	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	2.21	pCi/sample	UJ	7.12	4.39	4.41
AMD612	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.313	pCi/sample	U	1.2	0.403	0.403
AMD612	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.289	pCi/Sample	U	1.48	0.466	0.467
AMD612	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.136	pCi/Sample	U	1.55	0.616	0.617
AMD612	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	19.5	pCi/Sample	U	69.3	40.4	40.5
AMD612	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	-6.9	pCi/sample	U	48	35.8	36
AMD612	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	0.838	pCi/Sample		0.83	0.663	0.676
AMD612	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	-0.0819	pCi/Sample	U	0.695	0.247	0.248
AMD612	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.34	pCi/Sample		0.68	0.752	0.776
AMD746S	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	0.846	pCi/sample	U	4.04	2.33	2.33
AMD746S	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.253	pCi/sample	U	1.27	0.502	0.502
AMD746S	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0163	pCi/Sample	U	0.57	0.244	0.244
AMD746S	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.185	pCi/Sample	U	0.496	0.327	0.328
AMD746S	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	0.0292	pCi/Sample	U	65.2	37.2	37.2
AMD746S	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	19	pCi/sample	U	21.9	33.2	33.5
AMD746S	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	1.69	pCi/Sample		0.738	0.821	0.857
AMD746S	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.188	pCi/Sample	U	0.513	0.37	0.371
AMD746S	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	0.893	pCi/Sample		0.671	0.623	0.635
AMD746U	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	-0.266	pCi/sample	UJ	5.31	2.29	2.3
AMD746U	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.333	pCi/sample	U	1.31	0.478	0.479
AMD746U	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0191	pCi/Sample	U	0.382	0.165	0.165
AMD746U	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0605	pCi/Sample	U	0.382	0.227	0.227
AMD746U	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	10	pCi/Sample	U	69.3	40.3	40.3
AMD746U	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	-22.8	pCi/sample	U	26.8	25.7	28.2
AMD746U	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	1.1	pCi/Sample		0.753	0.71	0.73
AMD746U	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.114	pCi/Sample	U	0.343	0.321	0.322
AMD746U	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.11	pCi/Sample		0.278	0.655	0.674

Table A.2. Ambient Air Data (Continued)

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMDBCP	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	1.02	pCi/sample	U	4.88	2.81	2.82
AMDBCP	01-Apr-22	Neptunium-237	ASTM-1475-00M	0.0225	pCi/sample	U	1.24	0.593	0.593
AMDBCP	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0546	pCi/Sample	U	0.764	0.321	0.321
AMDBCP	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.283	pCi/Sample	U	0.661	0.425	0.426
AMDBCP	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	-31.3	pCi/Sample	U	71.3	40.1	40.1
AMDBCP	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	6.39	pCi/sample	U	30.7	62.5	62.5
AMDBCP	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	0.905	pCi/Sample	U	1.22	0.822	0.834
AMDBCP	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.0609	pCi/Sample	U	0.648	0.338	0.339
AMDBCP	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.1	pCi/Sample		0.92	0.762	0.778
AMDNE	01-Apr-22	Americium-241	HASL 300, Am-05-RC M	0.647	pCi/sample	U	4.08	2.42	2.43
AMDNE	01-Apr-22	Neptunium-237	ASTM-1475-00M	-0.18	pCi/sample	U	1.05	0.341	0.342
AMDNE	01-Apr-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0937	pCi/Sample	U	0.822	0.317	0.317
AMDNE	01-Apr-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0366	pCi/Sample	U	0.911	0.432	0.432
AMDNE	01-Apr-22	Technetium-99	HASL 300, Tc-02-RC M	-1.83	pCi/Sample	U	57.7	31.6	31.6
AMDNE	01-Apr-22	Thorium-234	HASL 300, 4.5.2.3	-16.9	pCi/sample	U	53.5	46.8	47.5
AMDNE	01-Apr-22	Uranium-234	HASL 300, U-02-RC M	1.81	pCi/Sample		0.7	0.866	0.907
AMDNE	01-Apr-22	Uranium-235	HASL 300, U-02-RC M	0.524	pCi/Sample	U	0.642	0.564	0.569
AMDNE	01-Apr-22	Uranium-238	HASL 300, U-02-RC M	1.36	pCi/Sample		0.693	0.766	0.79
AMD002	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	0.27	pCi/sample	U	1.29	0.743	0.744
AMD002	20-Jul-22	Neptunium-237	ASTM-1475-00M	-0.511	pCi/sample	U	2.71	0.822	0.824
AMD002	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.109	pCi/Sample	U	1.23	0.463	0.465
AMD002	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0911	pCi/Sample	U	1.3	0.645	0.646
AMD002	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	8.56	pCi/Sample	U	72.9	41.5	41.5
AMD002	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-41.3	pCi/sample	UJ	42.8	38.3	43.6
AMD002	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.08	pCi/Sample		0.939	0.787	0.803
AMD002	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	-0.0261	pCi/Sample	U	0.915	0.392	0.392
AMD002	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	1.3	pCi/Sample		0.818	0.814	0.833
AMD012	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	0.25	pCi/sample	U	1.36	0.727	0.728
AMD012	20-Jul-22	Neptunium-237	ASTM-1475-00M	-0.801	pCi/sample	U	3.26	0.912	0.914
AMD012	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	0.359	pCi/Sample	U	1.46	0.884	0.886
AMD012	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0205	pCi/Sample	U	1.7	0.736	0.737
AMD012	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	18.3	pCi/Sample	U	74.1	42.8	42.8
AMD012	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-148	pCi/sample	UJ	59.6	43.2	86.6
AMD012	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	0.639	pCi/Sample	U	1.19	0.775	0.782
AMD012	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.114	pCi/Sample	U	0.717	0.426	0.427
AMD012	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	0.847	pCi/Sample		0.363	0.673	0.683
AMD015	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	-0.175	pCi/sample	U	1.2	0.405	0.406
AMD015	20-Jul-22	Neptunium-237	ASTM-1475-00M	-1.29	pCi/sample	U	3.79	0.956	0.957
AMD015	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.00998	pCi/Sample	U	1.99	0.882	0.884
AMD015	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0997	pCi/Sample	U	1.42	0.705	0.707
AMD015	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	1.37	pCi/Sample	U	80.1	45.1	45.1
AMD015	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-16.4	pCi/sample	U	44.6	39	39.9
AMD015	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	0.706	pCi/Sample	U	1.17	0.781	0.79
AMD015	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	-0.103	pCi/Sample	U	0.878	0.313	0.313
AMD015	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	1.2	pCi/Sample		0.71	0.797	0.814
AMD57	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	0.268	pCi/sample	U	0.865	0.533	0.534
AMD57	20-Jul-22	Neptunium-237	ASTM-1475-00M	-1.44	pCi/sample	U	4.23	1.27	1.27
AMD57	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0852	pCi/Sample	U	1.86	0.769	0.771
AMD57	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.34	pCi/Sample	U	2.2	0.788	0.79
AMD57	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	8.59	pCi/Sample	U	71.1	40.5	40.5
AMD57	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-117	pCi/sample	U	56.8	40.6	72
AMD57	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	0.736	pCi/Sample	U	1.24	0.817	0.825
AMD57	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.115	pCi/Sample	U	1	0.514	0.514
AMD57	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	1.51	pCi/Sample		0.764	0.888	0.913
AMD612	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	-0.0653	pCi/sample	U	0.753	0.289	0.289
AMD612	20-Jul-22	Neptunium-237	ASTM-1475-00M	-1.33	pCi/sample	U	3.81	0.954	0.955
AMD612	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0277	pCi/Sample	U	0.972	0.459	0.461
AMD612	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0277	pCi/Sample	U	0.971	0.459	0.461
AMD612	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	14.5	pCi/Sample	U	82.7	47.4	47.4
AMD612	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	13.4	pCi/sample	U	25.4	47.6	47.7
AMD612	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.4	pCi/Sample		0.942	0.843	0.867
AMD612	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.216	pCi/Sample	U	0.842	0.49	0.491

Table A.2. Ambient Air Data (Continued)

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMD612	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	2.11	pCi/Sample		0.466	0.915	0.957
AMD746S	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	0.0458	pCi/sample	U	0.999	0.479	0.479
AMD746S	20-Jul-22	Neptunium-237	ASTM-1475-00M	0.0296	pCi/sample	U	2.89	1.3	1.31
AMD746S	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.154	pCi/Sample	U	1.46	0.523	0.526
AMD746S	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.215	pCi/Sample	U	1.58	0.53	0.532
AMD746S	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	11.8	pCi/Sample	U	73.9	42.3	42.3
AMD746S	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-49.1	pCi/sample	U	59.9	41.4	48.3
AMD746S	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.36	pCi/Sample		0.901	0.871	0.894
AMD746S	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.281	pCi/Sample	U	0.421	0.481	0.483
AMD746S	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	2.36	pCi/Sample		0.797	1.08	1.12
AMD746U	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	-0.153	pCi/sample	U	1.34	0.518	0.518
AMD746U	20-Jul-22	Neptunium-237	ASTM-1475-00M	0.766	pCi/sample	U	3.68	2.01	2.01
AMD746U	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.06	pCi/Sample	U	1.18	0.5	0.502
AMD746U	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.18	pCi/Sample	U	1.49	0.513	0.515
AMD746U	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	4.65	pCi/Sample	U	77.2	43.7	43.7
AMD746U	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-13.3	pCi/sample	U	44.4	38.6	39.2
AMD746U	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.67	pCi/Sample		1.07	1	1.03
AMD746U	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.0762	pCi/Sample	U	0.811	0.423	0.424
AMD746U	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	0.834	pCi/Sample		0.781	0.708	0.717
AMDBCP	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	0.166	pCi/sample	U	1.05	0.566	0.567
AMDBCP	20-Jul-22	Neptunium-237	ASTM-1475-00M	-0.671	pCi/sample	U	4.11	1.3	1.31
AMDBCP	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0896	pCi/Sample	U	1.27	0.502	0.504
AMDBCP	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.179	pCi/Sample	U	1.48	0.511	0.513
AMDBCP	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	3.66	pCi/Sample	U	79.2	44.7	44.7
AMDBCP	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-47.6	pCi/sample	U	60	41.4	47.9
AMDBCP	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.41	pCi/Sample		0.891	0.838	0.862
AMDBCP	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	0.064	pCi/Sample	U	0.681	0.355	0.356
AMDBCP	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	1.27	pCi/Sample		0.698	0.764	0.783
AMDNE	20-Jul-22	Americium-241	HASL 300, Am-05-RC M	-0.107	pCi/sample	U	1.24	0.475	0.477
AMDNE	20-Jul-22	Neptunium-237	ASTM-1475-00M	-0.354	pCi/sample	U	3.39	1.3	1.3
AMDNE	20-Jul-22	Plutonium-238	HASL 300, Pu-11-RC M	0.164	pCi/Sample	U	1.31	0.723	0.724
AMDNE	20-Jul-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0411	pCi/Sample	U	1.59	0.732	0.733
AMDNE	20-Jul-22	Technetium-99	HASL 300, Tc-02-RC M	19.8	pCi/Sample	U	80.4	46.4	46.5
AMDNE	20-Jul-22	Thorium-234	HASL 300, 4.5.2.3	-26.1	pCi/sample	U	43	38	40.2
AMDNE	20-Jul-22	Uranium-234	HASL 300, U-02-RC M	1.7	pCi/Sample		1.01	1.05	1.08
AMDNE	20-Jul-22	Uranium-235	HASL 300, U-02-RC M	-0.0811	pCi/Sample	U	0.936	0.359	0.36
AMDNE	20-Jul-22	Uranium-238	HASL 300, U-02-RC M	0.93	pCi/Sample	U	0.959	0.819	0.831
AMD002	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.133	pCi/sample	U	0.841	0.5	0.501
AMD002	02-Nov-22	Neptunium-237	ASTM-1475-00M	0.0296	pCi/sample	U	2.27	1.05	1.05
AMD002	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	0.478	pCi/Sample	U	0.698	0.529	0.534
AMD002	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0556	pCi/Sample	U	0.735	0.359	0.36
AMD002	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	40.8	pCi/Sample	U	60.9	36.7	37
AMD002	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-21.6	pCi/sample	U	44.2	37.1	38.6
AMD002	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.28	pCi/Sample		0.549	0.594	0.621
AMD002	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.0378	pCi/Sample	U	0.402	0.21	0.21
AMD002	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.9	pCi/Sample		0.359	0.674	0.722
AMD012	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.844	pCi/sample	U	1.23	0.934	0.941
AMD012	02-Nov-22	Neptunium-237	ASTM-1475-00M	0.333	pCi/sample	U	2.11	1.14	1.14
AMD012	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0507	pCi/Sample	U	0.348	0.117	0.118
AMD012	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.268	pCi/Sample	U	0.426	0.302	0.303
AMD012	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	17.7	pCi/Sample	U	54.2	31.6	31.7
AMD012	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	14.6	pCi/sample	U	22.2	32.5	32.7
AMD012	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.27	pCi/Sample		0.621	0.647	0.674
AMD012	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.0241	pCi/Sample	U	0.525	0.252	0.252
AMD012	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.69	pCi/Sample		0.425	0.698	0.739
AMD015	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.489	pCi/sample	U	2.03	1.12	1.13
AMD015	02-Nov-22	Neptunium-237	ASTM-1475-00M	0.0109	pCi/sample	U	1.8	0.809	0.809
AMD015	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	0.0357	pCi/Sample	U	0.863	0.406	0.407
AMD015	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.174	pCi/Sample	U	0.823	0.458	0.459
AMD015	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	33	pCi/Sample	U	58.1	34.7	34.8
AMD015	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-13.4	pCi/sample	U	29	33.3	34
AMD015	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	2.78	pCi/Sample	T	1.92	1.88	2.02

Table A.2. Ambient Air Data (Continued)

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMD015	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0	pCi/Sample	TU	0.974	0.655	0.66
AMD015	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	2.3	pCi/Sample	T	1.26	1.64	1.74
AMD57	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.637	pCi/sample	U	0.812	0.751	0.756
AMD57	02-Nov-22	Neptunium-237	ASTM-1475-00M	-0.0464	pCi/sample	U	1.63	0.697	0.698
AMD57	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0202	pCi/Sample	U	0.709	0.303	0.304
AMD57	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.117	pCi/Sample	U	0.847	0.318	0.318
AMD57	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	37.7	pCi/Sample	U	59.2	35.6	35.8
AMD57	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-13.8	pCi/sample	U	43.2	36	36.6
AMD57	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.64	pCi/Sample		0.6	0.657	0.696
AMD57	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.036	pCi/Sample	U	0.383	0.2	0.2
AMD57	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	2.41	pCi/Sample		0.369	0.738	0.806
AMD612	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	-0.076	pCi/sample	U	0.877	0.336	0.337
AMD612	02-Nov-22	Neptunium-237	ASTM-1475-00M	-0.209	pCi/sample	U	1.02	0.361	0.361
AMD612	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0108	pCi/Sample	U	0.569	0.251	0.251
AMD612	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.127	pCi/Sample	U	0.624	0.22	0.22
AMD612	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	48.5	pCi/Sample	U	65.6	39.8	40.1
AMD612	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-7.21	pCi/sample	U	27.4	21.6	21.9
AMD612	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.62	pCi/Sample		0.778	0.763	0.803
AMD612	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	-0.129	pCi/Sample	U	0.661	0.208	0.208
AMD612	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.2	pCi/Sample		0.535	0.624	0.649
AMD746S	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	-0.115	pCi/sample	U	0.977	0.348	0.348
AMD746S	02-Nov-22	Neptunium-237	ASTM-1475-00M	-0.34	pCi/sample	U	3.67	1.61	1.61
AMD746S	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.043	pCi/Sample	U	0.365	0.13	0.13
AMD746S	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.158	pCi/Sample	U	0.534	0.152	0.152
AMD746S	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	43.5	pCi/Sample	U	56.9	34.6	34.9
AMD746S	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-12.3	pCi/sample	U	28.6	33.1	33.7
AMD746S	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.31	pCi/Sample		0.559	0.613	0.641
AMD746S	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.193	pCi/Sample	U	0.424	0.306	0.307
AMD746S	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.46	pCi/Sample		0.343	0.609	0.641
AMD746U	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	-0.0755	pCi/sample	U	0.871	0.334	0.334
AMD746U	02-Nov-22	Neptunium-237	ASTM-1475-00M	0.00454	pCi/sample	U	0.748	0.337	0.337
AMD746U	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.102	pCi/Sample	U	0.429	0.128	0.129
AMD746U	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0616	pCi/Sample	U	0.445	0.167	0.167
AMD746U	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	28.9	pCi/Sample	U	50.4	30.1	30.2
AMD746U	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	-12.6	pCi/sample	U	34.8	24.1	24.9
AMD746U	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	2.59	pCi/Sample		0.619	0.854	0.933
AMD746U	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.142	pCi/Sample	U	0.386	0.279	0.28
AMD746U	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.49	pCi/Sample		0.457	0.643	0.677
AMDBCP	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.586	pCi/sample	U	1.37	0.88	0.883
AMDBCP	02-Nov-22	Neptunium-237	ASTM-1475-00M	-0.181	pCi/sample	U	1.59	0.612	0.613
AMDBCP	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0175	pCi/Sample	U	0.35	0.151	0.152
AMDBCP	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.137	pCi/Sample	U	0.673	0.237	0.237
AMDBCP	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	17.2	pCi/Sample	U	52.3	30.5	30.6
AMDBCP	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	2.05	pCi/sample	U	43.3	34.5	34.5
AMDBCP	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	2.05	pCi/Sample		0.512	0.716	0.771
AMDBCP	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0.144	pCi/Sample	U	0.216	0.246	0.247
AMDBCP	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.46	pCi/Sample		0.383	0.595	0.627
AMDNE	02-Nov-22	Americium-241	HASL 300, Am-05-RC M	0.272	pCi/sample	U	0.991	0.624	0.626
AMDNE	02-Nov-22	Neptunium-237	ASTM-1475-00M	-0.139	pCi/sample	U	1.18	0.42	0.421
AMDNE	02-Nov-22	Plutonium-238	HASL 300, Pu-11-RC M	0.0482	pCi/Sample	U	0.423	0.216	0.216
AMDNE	02-Nov-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.116	pCi/Sample	U	0.486	0.145	0.146
AMDNE	02-Nov-22	Technetium-99	HASL 300, Tc-02-RC M	30.2	pCi/Sample	U	61.6	36.5	36.6
AMDNE	02-Nov-22	Thorium-234	HASL 300, 4.5.2.3	1.44	pCi/sample	U	22.3	31.8	31.8
AMDNE	02-Nov-22	Uranium-234	HASL 300, U-02-RC M	1.25	pCi/Sample		0.506	0.603	0.63
AMDNE	02-Nov-22	Uranium-235	HASL 300, U-02-RC M	0	pCi/Sample	U	0.242	0.162	0.163
AMDNE	02-Nov-22	Uranium-238	HASL 300, U-02-RC M	1.97	pCi/Sample		0.505	0.738	0.789
AMD002	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.0431	pCi/sample	U	0.614	0.305	0.306
AMD002	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.233	pCi/sample	TU	1.93	0.665	0.667
AMD002	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	0.0318	pCi/Sample	U	1.23	0.567	0.569
AMD002	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0477	pCi/Sample	U	0.935	0.398	0.4
AMD002	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	36.3	pCi/Sample	U	59.3	35.6	35.8
AMD002	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	-1.71	pCi/sample	U	35	25	25

Table A.2. Ambient Air Data (Continued)

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMD002	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	2.01	pCi/Sample		0.819	1.01	1.07
AMD002	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	0.0397	pCi/Sample	U	0.845	0.403	0.404
AMD002	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.52	pCi/Sample		0.683	0.874	0.915
AMD012	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	-0.0611	pCi/sample	U	0.689	0.259	0.259
AMD012	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.436	pCi/sample	U	2.05	0.6	0.601
AMD012	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0553	pCi/Sample	U	0.782	0.31	0.311
AMD012	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.117	pCi/Sample	U	0.722	0.43	0.431
AMD012	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	19.3	pCi/Sample	U	73.8	42.9	43
AMD012	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	11	pCi/sample	U	25.4	49.7	49.8
AMD012	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.18	pCi/Sample		0.938	0.862	0.892
AMD012	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	0.119	pCi/Sample	U	0.734	0.437	0.438
AMD012	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.85	pCi/Sample		0.642	0.991	1.05
AMD015	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	-0.081	pCi/sample	U	0.913	0.342	0.344
AMD015	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.263	pCi/sample	U	1.61	0.511	0.512
AMD015	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	0.111	pCi/Sample	U	0.885	0.489	0.49
AMD015	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.264	pCi/Sample	U	0.94	0.596	0.599
AMD015	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	0.899	pCi/Sample	U	55.9	31.8	31.8
AMD015	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	32	pCi/sample	U	59.7	52.7	55.2
AMD015	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.98	pCi/Sample		0.731	0.973	1.04
AMD015	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	-0.0164	pCi/Sample	U	0.576	0.272	0.273
AMD015	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.72	pCi/Sample		0.599	0.897	0.946
AMD57	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.0994	pCi/sample	U	0.475	0.315	0.316
AMD57	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.194	pCi/sample	U	2.14	0.831	0.832
AMD57	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.161	pCi/Sample	U	1.53	0.548	0.552
AMD57	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.675	pCi/Sample	U	1.45	1.06	1.07
AMD57	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	24.7	pCi/Sample	U	71.1	41.6	41.7
AMD57	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	-8.31	pCi/sample	U	28.9	28.5	28.8
AMD57	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.49	pCi/Sample		0.792	0.89	0.932
AMD57	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	-0.0173	pCi/Sample	U	0.608	0.287	0.288
AMD57	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.99	pCi/Sample		0.351	0.972	1.03
AMD612	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	-0.122	pCi/sample	U	1.16	0.417	0.419
AMD612	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.178	pCi/sample	U	1.97	0.765	0.766
AMD612	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0659	pCi/Sample	U	0.931	0.369	0.371
AMD612	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.482	pCi/Sample	U	0.93	0.721	0.729
AMD612	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	-37.3	pCi/Sample	U	80.2	43.5	43.5
AMD612	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	30.9	pCi/sample	U	40.8	44.5	47.2
AMD612	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.71	pCi/Sample		0.891	0.971	1.02
AMD612	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	-0.124	pCi/Sample	U	0.915	0.306	0.307
AMD612	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	2.05	pCi/Sample		0.741	1.03	1.09
AMD746S	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.168	pCi/sample	U	0.598	0.38	0.381
AMD746S	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.055	pCi/sample	U	1.87	0.792	0.793
AMD746S	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	0.104	pCi/Sample	U	0.831	0.459	0.46
AMD746S	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0587	pCi/Sample	U	0.829	0.329	0.33
AMD746S	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	-2.56	pCi/Sample	U	67.1	38	38
AMD746S	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	30.2	pCi/sample	U	43.6	45.8	48.3
AMD746S	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	0.833	pCi/Sample		0.788	0.712	0.73
AMD746S	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	-0.0357	pCi/Sample	U	0.701	0.298	0.299
AMD746S	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	0.862	pCi/Sample		0.746	0.713	0.729
AMD746U	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.0684	pCi/sample	U	0.711	0.371	0.372
AMD746U	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.0501	pCi/sample	U	1.71	0.722	0.722
AMD746U	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	-0.0443	pCi/Sample	U	0.868	0.369	0.371
AMD746U	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.162	pCi/Sample	U	0.775	0.514	0.516
AMD746U	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	24.8	pCi/Sample	U	67.2	39.4	39.5
AMD746U	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	17.8	pCi/sample	U	28.4	53.2	53.4
AMD746U	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.24	pCi/Sample		0.776	0.794	0.825
AMD746U	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	0.352	pCi/Sample	U	0.678	0.526	0.53
AMD746U	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.67	pCi/Sample		0.583	0.873	0.92
AMDBCP	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.119	pCi/sample	U	0.57	0.378	0.379
AMDBCP	29-Dec-22	Neptunium-237	ASTM-1475-00M	1.01	pCi/sample	U	1.55	1.26	1.27
AMDBCP	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	0.00657	pCi/Sample	U	1.05	0.47	0.471
AMDBCP	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0131	pCi/Sample	U	1.09	0.471	0.472
AMDBCP	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	27.2	pCi/Sample	U	62.5	36.9	37

Table A.2. Ambient Air Data (Continued)

STATION NAME	DATE COLLECTED	CHEMICAL NAME	ANALYTICAL METHOD	RESULTS	UNITS	RESULT QUALIFIER	DETECTION LIMIT	RADIOLOGICAL ERROR	TPU*
AMDBCP	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	-22.9	pCi/sample	U	27.7	27.8	30.1
AMDBCP	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.87	pCi/Sample		0.816	1.01	1.07
AMDBCP	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	0.136	pCi/Sample	U	0.65	0.431	0.432
AMDBCP	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	1.71	pCi/Sample		0.636	0.951	1
AMDNE	29-Dec-22	Americium-241	HASL 300, Am-05-RC M	0.133	pCi/sample	U	0.638	0.423	0.424
AMDNE	29-Dec-22	Neptunium-237	ASTM-1475-00M	-0.632	pCi/sample	U	3	1.01	1.01
AMDNE	29-Dec-22	Plutonium-238	HASL 300, Pu-11-RC M	0.152	pCi/Sample	U	0.941	0.56	0.562
AMDNE	29-Dec-22	Plutonium-239/240	HASL 300, Pu-11-RC M	0.407	pCi/Sample	U	1.28	0.795	0.8
AMDNE	29-Dec-22	Technetium-99	HASL 300, Tc-02-RC M	41	pCi/Sample	U	67.3	40.3	40.5
AMDNE	29-Dec-22	Thorium-234	HASL 300, 4.5.2.3	-27.4	pCi/sample	U	29.2	28.7	31.9
AMDNE	29-Dec-22	Uranium-234	HASL 300, U-02-RC M	1.37	pCi/Sample		0.754	0.87	0.906
AMDNE	29-Dec-22	Uranium-235	HASL 300, U-02-RC M	-0.0547	pCi/Sample	U	0.773	0.306	0.307
AMDNE	29-Dec-22	Uranium-238	HASL 300, U-02-RC M	2.09	pCi/Sample		0.369	1.02	1.09

*TPU = total propagated uncertainty

U = Value reported is less than MDA and/or TPU.

T = Tracer recovery outside control limits of 30−110%.

Table A.3. Weekly Flow Data

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
1	20253	Flow-total	AMD002	ft3	05-Jan-22	W01AMD0022-22
1	22817	Flow-total	AMD002	ft3	13-Jan-22	W02AMD0022-22
1	20076	Flow-total	AMD002	ft3	20-Jan-22	W03AMD0022-22
1	20114	Flow-total	AMD002	ft3	27-Jan-22	W04AMD0022-22
1	17211	Flow-total	AMD002	ft3	02-Feb-22	W05AMD0022-22
1	22931	Flow-total	AMD002	ft3	10-Feb-22	W06AMD0022-22
1	20368	Flow-total	AMD002	ft3	17-Feb-22	W07AMD0022-22
1	19906	Flow-total	AMD002	ft3	24-Feb-22	W08AMD0022-22
1	20147	Flow-total	AMD002	ft3	03-Mar-22	W09AMD0022-22
1	20182	Flow-total	AMD002	ft3	10-Mar-22	W10AMD0022-22
1	20003	Flow-total	AMD002	ft3	17-Mar-22	W11AMD0022-22
1	19894	Flow-total	AMD002	ft3	24-Mar-22	W12AMD0022-22
1	20236	Flow-total	AMD002	ft3	31-Mar-22	W13AMD0022-22
Total (ft^3 & m^3)	**264138**	**7485**				
1	20268	Flow-total	AMD012	ft3	05-Jan-22	W01AMD0122-22
1	22826	Flow-total	AMD012	ft3	13-Jan-22	W02AMD0122-22
1	20079	Flow-total	AMD012	ft3	20-Jan-22	W03AMD0122-22
1	20124	Flow-total	AMD012	ft3	27-Jan-22	W04AMD0122-22
1	17225	Flow-total	AMD012	ft3	02-Feb-22	W05AMD0122-22
1	22940	Flow-total	AMD012	ft3	10-Feb-22	W06AMD0122-22
1	20374	Flow-total	AMD012	ft3	17-Feb-22	W07AMD0122-22
1	19905	Flow-total	AMD012	ft3	24-Feb-22	W08AMD0122-22
1	20192	Flow-total	AMD012	ft3	03-Mar-22	W09AMD0122-22
1	1429	Flow-total	AMD012	ft3	10-Mar-22	W10AMD0122-22
1	19913	Flow-total	AMD012	ft3	17-Mar-22	W11AMD0122-22
1	19908	Flow-total	AMD012	ft3	24-Mar-22	W12AMD0122-22
1	20251	Flow-total	AMD012	ft3	31-Mar-22	W13AMD0122-22
Total (ft^3 & m^3)	**245434**	**6955**				
1	20321	Flow-total	AMD015	ft3	05-Jan-22	W01AMD0152-22
1	22862	Flow-total	AMD015	ft3	13-Jan-22	W02AMD0152-22
1	20140	Flow-total	AMD015	ft3	20-Jan-22	W03AMD0152-22
1	20167	Flow-total	AMD015	ft3	27-Jan-22	W04AMD0152-22
1	17262	Flow-total	AMD015	ft3	02-Feb-22	W05AMD0152-22
1	22995	Flow-total	AMD015	ft3	10-Feb-22	W06AMD0152-22
1	20168	Flow-total	AMD015	ft3	17-Feb-22	W07AMD0152-22
1	20199	Flow-total	AMD015	ft3	24-Feb-22	W08AMD0152-22
1	20069	Flow-total	AMD015	ft3	03-Mar-22	W09AMD0152-22
1	20192	Flow-total	AMD015	ft3	10-Mar-22	W10AMD0152-22
1	20261	Flow-total	AMD015	ft3	17-Mar-22	W11AMD0152-22
1	19960	Flow-total	AMD015	ft3	24-Mar-22	W12AMD0152-22
1	20258	Flow-total	AMD015	ft3	31-Mar-22	W13AMD0152-22
Total (ft^3 & m^3)	**264854**	**7506**				
1	20256	Flow-total	AMD57	ft3	05-Jan-22	W01AMD572-22
1	22795	Flow-total	AMD57	ft3	13-Jan-22	W02AMD572-22
1	20074	Flow-total	AMD57	ft3	20-Jan-22	W03AMD572-22
1	20105	Flow-total	AMD57	ft3	27-Jan-22	W04AMD572-22
1	17221	Flow-total	AMD57	ft3	02-Feb-22	W05AMD572-22
1	22924	Flow-total	AMD57	ft3	10-Feb-22	W06AMD572-22
1	20360	Flow-total	AMD57	ft3	17-Feb-22	W07AMD572-22
1	19886	Flow-total	AMD57	ft3	24-Feb-22	W08AMD572-22
1	20019	Flow-total	AMD57	ft3	03-Mar-22	W09AMD572-22
1	20119	Flow-total	AMD57	ft3	10-Mar-22	W10AMD572-22
1	20205	Flow-total	AMD57	ft3	17-Mar-22	W11AMD572-22
1	19892	Flow-total	AMD57	ft3	24-Mar-22	W12AMD572-22
1	20231	Flow-total	AMD57	ft3	31-Mar-22	W13AMD572-22
Total (ft^3 & m^3)	**264087**	**7484**				
1	20268	Flow-total	AMD612	ft3	05-Jan-22	W01AMD6122-22
1	22798	Flow-total	AMD612	ft3	13-Jan-22	W02AMD6122-22
1	20085	Flow-total	AMD612	ft3	20-Jan-22	W03AMD6122-22
1	20118	Flow-total	AMD612	ft3	27-Jan-22	W04AMD6122-22
1	17212	Flow-total	AMD612	ft3	02-Feb-22	W05AMD6122-22
1	22933	Flow-total	AMD612	ft3	10-Feb-22	W06AMD6122-22
1	20108	Flow-total	AMD612	ft3	17-Feb-22	W07AMD6122-22
1	20133	Flow-total	AMD612	ft3	24-Feb-22	W08AMD6122-22

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
1	20017	Flow-total	AMD612	ft3	03-Mar-22	W09AMD6122-22
1	20366	Flow-total	AMD612	ft3	10-Mar-22	W10AMD6122-22
1	19981	Flow-total	AMD612	ft3	17-Mar-22	W11AMD6122-22
1	19896	Flow-total	AMD612	ft3	24-Mar-22	W12AMD6122-22
1	20202	Flow-total	AMD612	ft3	31-Mar-22	W13AMD6122-22
Total (ft^3 & m^3)	**264117**	**7485**				
1	20243	Flow-total	AMD746S	ft3	05-Jan-22	W01AMD746S2-22
1	22816	Flow-total	AMD746S	ft3	13-Jan-22	W02AMD746S2-22
1	20079	Flow-total	AMD746S	ft3	20-Jan-22	W03AMD746S2-22
1	20159	Flow-total	AMD746S	ft3	27-Jan-22	W04AMD746S2-22
1	17302	Flow-total	AMD746S	ft3	02-Feb-22	W05AMD746S2-22
1	22863	Flow-total	AMD746S	ft3	10-Feb-22	W06AMD746S2-22
1	20255	Flow-total	AMD746S	ft3	17-Feb-22	W07AMD746S2-22
1	19906	Flow-total	AMD746S	ft3	24-Feb-22	W08AMD746S2-22
1	20060	Flow-total	AMD746S	ft3	03-Mar-22	W09AMD746S2-22
1	20045	Flow-total	AMD746S	ft3	10-Mar-22	W10AMD746S2-22
1	20185	Flow-total	AMD746S	ft3	17-Mar-22	W11AMD745S2-22
1	19881	Flow-total	AMD746S	ft3	24-Mar-22	W12AMD746S2-22
1	20162	Flow-total	AMD746S	ft3	31-Mar-22	W13AMD746S2-22
Total (ft^3 & m^3)	**263956**	**7480**				
1	20252	Flow-total	AMD746U	ft3	05-Jan-22	W01AMD746U2-22
1	22822	Flow-total	AMD746U	ft3	13-Jan-22	W02AMD746U2-22
1	20074	Flow-total	AMD746U	ft3	20-Jan-22	W03AMD746U2-22
1	20209	Flow-total	AMD746U	ft3	27-Jan-22	W04AMD746U2-22
1	17255	Flow-total	AMD746U	ft3	02-Feb-22	W05AMD746U2-22
1	22881	Flow-total	AMD746U	ft3	10-Feb-22	W06AMD746U2-22
1	20265	Flow-total	AMD746U	ft3	17-Feb-22	W07AMD746U2-22
1	19909	Flow-total	AMD746U	ft3	24-Feb-22	W08AMD746U2-22
1	20067	Flow-total	AMD746U	ft3	03-Mar-22	W09AMD746U2-22
1	20116	Flow-total	AMD746U	ft3	10-Mar-22	W10AMD746U2-22
1	20192	Flow-total	AMD746U	ft3	17-Mar-22	W11AMD746U2-22
1	19892	Flow-total	AMD746U	ft3	24-Mar-22	W12AMD746U2-22
1	20153	Flow-total	AMD746U	ft3	31-Mar-22	W13AMD746U2-22
Total (ft^3 & m^3)	**264087**	**7484**				
1	20374	Flow-total	AMDBCP	ft3	05-Jan-22	W01AMDBCP2-22
1	22819	Flow-total	AMDBCP	ft3	13-Jan-22	W02AMDBCP2-22
1	20173.4	Flow-total	AMDBCP	ft3	20-Jan-22	W03AMDBCP2-22
1	20077	Flow-total	AMDBCP	ft3	27-Jan-22	W04AMDBCP2-22
1	17258	Flow-total	AMDBCP	ft3	02-Feb-22	W05AMDBCP2-22
1	22994	Flow-total	AMDBCP	ft3	10-Feb-22	W06AMDBCP2-22
1	20504	Flow-total	AMDBCP	ft3	17-Feb-22	W07AMDBCP2-22
1	19970	Flow-total	AMDBCP	ft3	24-Feb-22	W08AMDBCP2-22
1	19968	Flow-total	AMDBCP	ft3	03-Mar-22	W09AMDBCP2-22
1	20176	Flow-total	AMDBCP	ft3	10-Mar-22	W10AMDBCP2-22
1	20317	Flow-total	AMDBCP	ft3	17-Mar-22	W11AMDBCP2-22
1	19932	Flow-total	AMDBCP	ft3	24-Mar-22	W12AMDBCP2-22
1	20387	Flow-total	AMDBCP	ft3	31-Mar-22	W13AMDBCP2-22
Total (ft^3 & m^3)	**264949.4**	**7508**				
1	20243	Flow-total	AMDNE	ft3	05-Jan-22	W01AMDNE2-22
1	22830	Flow-total	AMDNE	ft3	13-Jan-22	W02AMDNE2-22
1	20088	Flow-total	AMDNE	ft3	20-Jan-22	W03AMDNE2-22
1	20128	Flow-total	AMDNE	ft3	27-Jan-22	W04AMDNE2-22
1	17346	Flow-total	AMDNE	ft3	02-Feb-22	W05AMDNE2-22
1	22802	Flow-total	AMDNE	ft3	10-Feb-22	W06AMDNE2-22
1	20350	Flow-total	AMDNE	ft3	17-Feb-22	W07AMDNE2-22
1	19905	Flow-total	AMDNE	ft3	24-Feb-22	W08AMDNE2-22
1	20005	Flow-total	AMDNE	ft3	03-Mar-22	W09AMDNE2-22
1	20170	Flow-total	AMDNE	ft3	10-Mar-22	W10AMDNE2-22
1	20247	Flow-total	AMDNE	ft3	17-Mar-22	W11AMDNE2-22
1	19831	Flow-total	AMDNE	ft3	24-Mar-22	W12AMDNE2-22
1	20239	Flow-total	AMDNE	ft3	31-Mar-22	W13AMDNE2-22
Total (ft^3 & m^3)	**264184**	**7487**				
2	20213	Flow-total	AMD002	ft3	07-Apr-22	W01AMD0023-22
2	16987	Flow-total	AMD002	ft3	13-Apr-22	W02AMD0023-22

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
2	23032	Flow-total	AMD002	ft3	21-Apr-22	W03AMD0023-22
2	20065	Flow-total	AMD002	ft3	28-Apr-22	W04AMD0023-22
2	20230	Flow-total	AMD002	ft3	05-May-22	W05AMD0023-22
2	19880	Flow-total	AMD002	ft3	12-May-22	W06AMD0023-22
2	20188	Flow-total	AMD002	ft3	19-May-22	W07AMD0023-22
2	20163	Flow-total	AMD002	ft3	26-May-22	W08AMD0023-22
2	20331	Flow-total	AMD002	ft3	02-Jun-22	W09AMD0023-22
2	19816	Flow-total	AMD002	ft3	09-Jun-22	W10AMD0023-22
2	20126	Flow-total	AMD002	ft3	16-Jun-22	W11AMD0023-22
2	20002	Flow-total	AMD002	ft3	23-Jun-22	W12AMD0023-22
2	20194	Flow-total	AMD002	ft3	30-Jun-22	W13AMD0023-22
Total (ft^3 & m^3)	**261227**	**7403**				
2	20226	Flow-total	AMD012	ft3	07-Apr-22	W01AMD0123-22
2	16972	Flow-total	AMD012	ft3	13-Apr-22	W02AMD0123-22
2	23056	Flow-total	AMD012	ft3	21-Apr-22	W03AMD0123-22
2	20042	Flow-total	AMD012	ft3	28-Apr-22	W04AMD0123-22
2	20254	Flow-total	AMD012	ft3	05-May-22	W05AMD0123-22
2	19865	Flow-total	AMD012	ft3	12-May-22	W06AMD0123-22
2	20193	Flow-total	AMD012	ft3	19-May-22	W07AMD0123-22
2	20153	Flow-total	AMD012	ft3	26-May-22	W08AMD0123-22
2	20340	Flow-total	AMD012	ft3	02-Jun-22	W09AMD0123-22
2	19822	Flow-total	AMD012	ft3	09-Jun-22	W10AMD0123-22
2	20129	Flow-total	AMD012	ft3	16-Jun-22	W11AMD0123-22
2	20020	Flow-total	AMD012	ft3	23-Jun-22	W12AMD0123-22
2	20194	Flow-total	AMD012	ft3	30-Jun-22	W13AMD0123-22
Total (ft^3 & m^3)	**261266**	**7404**				
2	20200	Flow-total	AMD015	ft3	07-Apr-22	W01AMD0153-22
2	17137	Flow-total	AMD015	ft3	13-Apr-22	W02AMD0153-22
2	23119	Flow-total	AMD015	ft3	21-Apr-22	W03AMD0153-22
2	20121	Flow-total	AMD015	ft3	28-Apr-22	W04AMD0153-22
2	20116	Flow-total	AMD015	ft3	05-May-22	W05AMD0153-22
2	20059	Flow-total	AMD015	ft3	12-May-22	W06AMD0153-22
2	20186	Flow-total	AMD015	ft3	19-May-22	W07AMD0153-22
2	20132	Flow-total	AMD015	ft3	26-May-22	W08AMD0153-22
2	20349	Flow-total	AMD015	ft3	02-Jun-22	W09AMD0153-22
2	19813	Flow-total	AMD015	ft3	09-Jun-22	W10AMD0153-22
2	20123	Flow-total	AMD015	ft3	16-Jun-22	W11AMD0153-22
2	20005	Flow-total	AMD015	ft3	23-Jun-22	W12AMD0153-22
2	20206	Flow-total	AMD015	ft3	30-Jun-22	W13AMD0153-22
Total (ft^3 & m^3)	**261566**	**7412**				
2	20088	Flow-total	AMD57	ft3	07-Apr-22	W01AMD573-22
2	17108	Flow-total	AMD57	ft3	13-Apr-22	W02AMD573-22
2	23029	Flow-total	AMD57	ft3	21-Apr-22	W03AMD573-22
2	20055	Flow-total	AMD57	ft3	28-Apr-22	W04AMD573-22
2	20068	Flow-total	AMD57	ft3	05-May-22	W05AMD573-22
2	20040	Flow-total	AMD57	ft3	12-May-22	W06AMD573-22
2	20184	Flow-total	AMD57	ft3	19-May-22	W07AMD573-22
2	20136	Flow-total	AMD57	ft3	26-May-22	W08AMD573-22
2	20343	Flow-total	AMD57	ft3	02-Jun-22	W09AMD573-22
2	19809	Flow-total	AMD57	ft3	09-Jun-22	W10AMD573-22
2	20126	Flow-total	AMD57	ft3	16-Jun-22	W11AMD573-22
2	19999	Flow-total	AMD57	ft3	23-Jun-22	W12AMD573-22
2	20198	Flow-total	AMD57	ft3	30-Jun-22	W13AMD573-22
Total (ft^3 & m^3)	**261183**	**7402**				
2	20144	Flow-total	AMD612	ft3	07-Apr-22	W01AMD6123-22
2	17092	Flow-total	AMD612	ft3	13-Apr-22	W02AMD6123-22
2	23045	Flow-total	AMD612	ft3	21-Apr-22	W03AMD6123-22
2	20068	Flow-total	AMD612	ft3	28-Apr-22	W04AMD6123-22
2	20042	Flow-total	AMD612	ft3	05-May-22	W05AMD6123-22
2	20022	Flow-total	AMD612	ft3	12-May-22	W06AMD6123-22
2	20170	Flow-total	AMD612	ft3	19-May-22	W07AMD6123-22
2	20146	Flow-total	AMD612	ft3	26-May-22	W08AMD6123-22
2	20341	Flow-total	AMD612	ft3	02-Jun-22	W09AMD6123-22
2	19816	Flow-total	AMD612	ft3	09-Jun-22	W10AMD6123-22

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
2	20116	Flow-total	AMD612	ft3	16-Jun-22	W11AMD6123-22
2	20012	Flow-total	AMD612	ft3	23-Jun-22	W12AMD6123-22
2	20207	Flow-total	AMD612	ft3	30-Jun-22	W13AMD6123-22
Total (ft^3 & m^3)	**261221**	**7403**				
2	20099	Flow-total	AMD746S	ft3	07-Apr-22	W01AMD746S3-22
2	17041	Flow-total	AMD746S	ft3	13-Apr-22	W02AMD746S3-22
2	23090	Flow-total	AMD746S	ft3	21-Apr-22	W03AMD746S3-22
2	20117	Flow-total	AMD746S	ft3	28-Apr-22	W04AMD746S3-22
2	20036	Flow-total	AMD746S	ft3	05-May-22	W05AMD746S3-22
2	19935	Flow-total	AMD764S	ft3	12-May-22	W06AMD746S3-22
2	20227	Flow-total	AMD746S	ft3	19-May-22	W07AMD746S3-22
2	20250	Flow-total	AMD746S	ft3	26-May-22	W08AMD746S3-22
2	20203	Flow-total	AMD746S	ft3	02-Jun-22	W09AMD746S3-22
2	19837	Flow-total	AMD746S	ft3	09-Jun-22	W10AMD746S3-22
2	20081	Flow-total	AMD746S	ft3	16-Jun-22	W11AMD746S3-22
2	20009	Flow-total	AMD746S	ft3	23-Jun-22	W12AMD746S3-22
2	20308	Flow-total	AMD746S	ft3	30-Jun-22	W13AMD746S3-22
Total (ft^3 & m^3)	**261233**	**7403**				
2	20149	Flow-total	AMD746U	ft3	07-Apr-22	W01AMD746U3-22
2	17050	Flow-total	AMD746U	ft3	13-Apr-22	W02AMD746U3-22
2	23086	Flow-total	AMD746U	ft3	21-Apr-22	W03AMD746U3-22
2	20175	Flow-total	AMD746U	ft3	28-Apr-22	W04AMD746U3-22
2	19965	Flow-total	AMD746U	ft3	05-May-22	W05AMD746U3-22
2	19989	Flow-total	AMD746U	ft3	12-May-22	W06AMD746U3-22
2	20232	Flow-total	AMD746U	ft3	19-May-22	W07AMD746U3-22
2	20252	Flow-total	AMD746U	ft3	26-May-22	W08AMD746U3-22
2	20201	Flow-total	AMD746U	ft3	02-Jun-22	W09AMD746U3-22
2	19848	Flow-total	AMD746U	ft3	09-Jun-22	W10AMD746U3-22
2	20090	Flow-total	AMD746U	ft3	16-Jun-22	W11AMD746U3-22
2	20017	Flow-total	AMD746U	ft3	23-Jun-22	W12AMD746U3-22
2	20318	Flow-total	AMD746U	ft3	30-Jun-22	W13AMD746U3-22
Total (ft^3 & m^3)	**261372**	**7407**				
2	20054	Flow-total	AMDBCP	ft3	07-Apr-22	W01AMDBCP3-22
2	17236	Flow-total	AMDBCP	ft3	13-Apr-22	W02AMDBCP3-22
2	23162	Flow-total	AMDBCP	ft3	21-Apr-22	W03AMDBCP3-22
2	20054	Flow-total	AMDBCP	ft3	28-Apr-22	W04AMDBCP3-22
2	20053	Flow-total	AMDBCP	ft3	05-May-22	W05AMDBCP3-22
2	20171	Flow-total	AMDBCP	ft3	12-May-22	W06AMDBCP3-22
2	20309	Flow-total	AMDBCP	ft3	19-May-22	W07AMDBCP3-22
2	20135	Flow-total	AMDBCP	ft3	26-May-22	W08AMDBCP3-22
2	20482	Flow-total	AMDBCP	ft3	02-Jun-22	W09AMDBCP3-22
2	19864	Flow-total	AMDBCP	ft3	09-Jun-22	W10AMDBCP3-22
2	20137	Flow-total	AMDBCP	ft3	16-Jun-22	W11AMDBCP3-22
2	20066	Flow-total	AMDBCP	ft3	23-Jun-22	W12AMDBCP3-22
2	20178	Flow-total	AMDBCP	ft3	30-Jun-22	W13AMDBCP3-22
Total (ft^3 & m^3)	**261901**	**7422**				
2	20074	Flow-total	AMDNE	ft3	07-Apr-22	W01AMDNE3-22
2	17108	Flow-total	AMDNE	ft3	13-Apr-22	W02AMDNE3-22
2	23023	Flow-total	AMDNE	ft3	21-Apr-22	W03AMDNE3-22
2	20156	Flow-total	AMDNE	ft3	28-Apr-22	W04AMDNE3-22
2	19996	Flow-total	AMDNE	ft3	05-May-22	W05AMDNE3-22
2	20037	Flow-total	AMDNE	ft3	12-May-22	W06AMDNE3-22
2	20241	Flow-total	AMDNE	ft3	19-May-22	W07AMDNE3-22
2	20196	Flow-total	AMDNE	ft3	26-May-22	W08AMDNE3-22
2	20281	Flow-total	AMDNE	ft3	02-Jun-22	W09AMDNE3-22
2	19849	Flow-total	AMDNE	ft3	09-Jun-22	W10AMDNE3-22
2	20089	Flow-total	AMDNE	ft3	16-Jun-22	W11AMDNE3-22
2	19961	Flow-total	AMDNE	ft3	23-Jun-22	W12AMDNE3-22
2	20370	Flow-total	AMDNE	ft3	30-Jun-22	W13AMDNE3-22
Total (ft^3 & m^3)	**261381**	**7407**				
3	20124	Flow-total	AMD002	ft3	07-Jul-22	W01AMD0024-22
3	20206	Flow-total	AMD002	ft3	14-Jul-22	W02AMD0024-22
3	20602	Flow-total	AMD002	ft3	21-Jul-22	W03AMD0024-22
3	19557	Flow-total	AMD002	ft3	28-Jul-22	W04AMD0024-22

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
3	20059	Flow-total	AMD002	ft3	04-Aug-22	W05AMD0024-22
3	20182	Flow-total	AMD002	ft3	11-Aug-22	W06AMD0024-22
3	20350	Flow-total	AMD002	ft3	18-Aug-22	W07AMD0024-22
3	19897	Flow-total	AMD002	ft3	25-Aug-22	W08AMD0024-22
3	20144	Flow-total	AMD002	ft3	01-Sep-22	W09AMD0024-22
3	20182	Flow-total	AMD002	ft3	08-Sep-22	W10AMD0024-22
3	17655	Flow-total	AMD002	ft3	14-Sep-22	W11AMD0024-22
3	22663	Flow-total	AMD002	ft3	22-Sep-22	W12AMD0024-22
3	20227	Flow-total	AMD002	ft3	29-Sep-22	W13AMD0024-22
Total (ft^3 & m^3)	**261848**	**7420**				
3	20115	Flow-total	AMD012	ft3	07-Jul-22	W01AMD0124-22
3	20239	Flow-total	AMD012	ft3	14-Jul-22	W02AMD0124-22
3	20564	Flow-total	AMD012	ft3	21-Jul-22	W03AMD0124-00
3	19581	Flow-total	AMD012	ft3	28-Jul-22	W04AMD0124-22
3	20041	Flow-total	AMD012	ft3	04-Aug-22	W05AMD0124-22
3	20156	Flow-total	AMD012	ft3	11-Aug-22	W06AMD0124-22
3	20277	Flow-total	AMD012	ft3	18-Aug-22	W07AMD0124-22
3	19860	Flow-total	AMD012	ft3	25-Aug-22	W08AMD0124-22
3	20103	Flow-total	AMD012	ft3	01-Sep-22	W09AMD0124-22
3	20120	Flow-total	AMD012	ft3	08-Sep-22	W10AMD0124-22
3	17614	Flow-total	AMD012	ft3	14-Sep-22	W11AMD0124-22
3	22604	Flow-total	AMD012	ft3	22-Sep-22	W12AMD0124-22
3	20188	Flow-total	AMD012	ft3	29-Sep-22	W13AMD0124-22
Total (ft^3 & m^3)	**261462**	**7409**				
3	20110	Flow-total	AMD015	ft3	07-Jul-22	W01AMD0154-22
3	20295	Flow-total	AMD015	ft3	14-Jul-22	W02AMD0154-22
3	20496	Flow-total	AMD015	ft3	21-Jul-22	W03AMD0154-22
3	19581	Flow-total	AMD015	ft3	28-Jul-22	W04AMD0154-22
3	20043	Flow-total	AMD015	ft3	04-Aug-22	W05AMD0154-22
3	20141	Flow-total	AMD015	ft3	11-Aug-22	W06AMD0154-22
3	20284	Flow-total	AMD015	ft3	18-Aug-22	W07AMD0154-22
3	19856	Flow-total	AMD015	ft3	25-Aug-22	W08AMD0154-22
3	20097	Flow-total	AMD015	ft3	01-Sep-22	W09AMD0154-22
3	20116	Flow-total	AMD015	ft3	08-Sep-22	W10AMD0154-22
3	17606	Flow-total	AMD015	ft3	14-Sep-22	W11AMD0154-22
3	22598	Flow-total	AMD015	ft3	22-Sep-22	W12AMD0154-22
3	20172	Flow-total	AMD015	ft3	29-Sep-22	W13AMD0154-22
Total (ft^3 & m^3)	**261395**	**7408**				
3	20112	Flow-total	AMD57	ft3	07-Jul-22	W01AMD574-22
3	20252	Flow-total	AMD57	ft3	14-Jul-22	W02AMD574-22
3	20535	Flow-total	AMD57	ft3	21-Jul-22	W03AMD574-22
3	19679	Flow-total	AMD57	ft3	28-Jul-22	W04AMD574-22
3	19929	Flow-total	AMD57	ft3	04-Aug-22	W05AMD574-22
3	20142	Flow-total	AMD57	ft3	11-Aug-22	W06AMD574-22
3	20276	Flow-total	AMD57	ft3	18-Aug-22	W07AMD574-22
3	19848	Flow-total	AMD57	ft3	25-Aug-22	W08AMD574-22
3	20090	Flow-total	AMD57	ft3	01-Sep-22	W09AMD574-22
3	20114	Flow-total	AMD57	ft3	08-Sep-22	W10AMD574-22
3	17602	Flow-total	AMD57	ft3	14-Sep-22	W11AMD574-22
3	22590	Flow-total	AMD57	ft3	22-Sep-22	W12AMD574-22
3	20165	Flow-total	AMD57	ft3	29-Sep-22	W13AMD574-22
Total (ft^3 & m^3)	**261334**	**7406**				
3	20101	Flow-total	AMD612	ft3	07-Jul-22	W01AMD6124-22
3	20318	Flow-total	AMD612	ft3	14-Jul-22	W02AMD6124-22
3	20469	Flow-total	AMD612	ft3	21-Jul-22	W03AMD6124-22
3	19578	Flow-total	AMD612	ft3	28-Jul-22	W04AMD6124-22
3	20046	Flow-total	AMD612	ft3	04-Aug-22	W05AMD6124-22
3	20130	Flow-total	AMD612	ft3	11-Aug-22	W06AMD6124-22
3	20287	Flow-total	AMD612	ft3	18-Aug-22	W07AMD6124-22
3	19851	Flow-total	AMD612	ft3	25-Aug-22	W08AMD6124-22
3	20096	Flow-total	AMD612	ft3	01-Sep-22	W09AMD6124-22
3	20104	Flow-total	AMD612	ft3	08-Sep-22	W10AMD6124-22
3	17393	Flow-total	AMD612	ft3	14-Sep-22	W11AMD6124-22
3	22807	Flow-total	AMD612	ft3	22-Sep-22	W12AMD6124-22

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
3	20175	Flow-total	AMD612	ft3	29-Sep-22	W13AMD6124-22
Total (ft^3 & m^3)	**261355**	**7406**				
3	19976	Flow-total	AMD746S	ft3	07-Jul-22	W01AMD746S4-22
3	20129	Flow-total	AMD746S	ft3	14-Jul-22	W02AMD746S4-22
3	20658	Flow-total	AMD746S	ft3	21-Jul-22	W03AMD746S4-22
3	19695	Flow-total	AMD746S	ft3	28-Jul-22	W04AMD746S4-22
3	20000	Flow-total	AMD746S	ft3	04-Aug-22	W05AMD746S4-22
3	20055	Flow-total	AMD764S	ft3	11-Aug-22	W06AMD746S4-22
3	20274	Flow-total	AMD746S	ft3	18-Aug-22	W07AMD746S4-22
3	19840	Flow-total	AMD746S	ft3	25-Aug-22	W08AMD746S4-22
3	20193	Flow-total	AMD746S	ft3	01-Sep-22	W09AMD746S4-22
3	20148	Flow-total	AMD746S	ft3	08-Sep-22	W10AMD746S4-22
3	17455	Flow-total	AMD746S	ft3	14-Sep-22	W11AMD746S4-22
3	22611	Flow-total	AMD746S	ft3	22-Sep-22	W12AMD746S4-22
3	20273	Flow-total	AMD746S	ft3	29-Sep-22	W13AMD746S4-22
Total (ft^3 & m^3)	**261307**	**7405**				
3	20018	Flow-total	AMD746U	ft3	07-Jul-22	W01AMD746U4-22
3	20096	Flow-total	AMD746U	ft3	14-Jul-22	W02AMD746U4-22
3	20679	Flow-total	AMD746U	ft3	21-Jul-22	W03AMD746U4-22
3	19670	Flow-total	AMD746U	ft3	28-Jul-22	W04AMD746U4-22
3	18904	Flow-total	AMD746U	ft3	04-Aug-22	W05AMD746U4-22
3	20052	Flow-total	AMD746U	ft3	11-Aug-22	W06AMD746U4-22
3	20287	Flow-total	AMD746U	ft3	18-Aug-22	W07AMD746U4-22
3	19838	Flow-total	AMD746U	ft3	25-Aug-22	W08AMD746U4-22
3	20211	Flow-total	AMD746U	ft3	01-Sep-22	W09AMD746U4-22
3	20144	Flow-total	AMD746U	ft3	08-Sep-22	W10AMD746U4-22
3	17471	Flow-total	AMD746U	ft3	14-Sep-22	W11AMD746U4-22
3	22627	Flow-total	AMD746U	ft3	22-Sep-22	W12AMD746U4-22
3	5143	Flow-total	AMD746U	ft3	29-Sep-22	W13AMD746U4-22
Total (ft^3 & m^3)	**245140**	**6947**				
3	20284	Flow-total	AMDBCP	ft3	07-Jul-22	W01AMDBCP4-22
3	19979	Flow-total	AMDBCP	ft3	14-Jul-22	W02AMDBCP4-22
3	20890	Flow-total	AMDBCP	ft3	21-Jul-22	W03AMDBCP4-22
3	19799	Flow-total	AMDBCP	ft3	28-Jul-22	W04AMDBCP4-22
3	19934	Flow-total	AMDBCP	ft3	04-Aug-22	W05AMDBCP4-22
3	20254	Flow-total	AMDBCP	ft3	11-Aug-22	W06AMDBCP4-22
3	20331	Flow-total	AMDBCP	ft3	18-Aug-22	W07AMDBCP4-22
3	19904	Flow-total	AMDBCP	ft3	25-Aug-22	W08AMDBCP4-22
3	20139	Flow-total	AMDBCP	ft3	01-Sep-22	W09AMDBCP4-22
3	20168	Flow-total	AMDBCP	ft3	08-Sep-22	W10AMDBCP4-22
3	17780	Flow-total	AMDBCP	ft3	14-Sep-22	W11AMDBCP4-22
3	22580	Flow-total	AMDBCP	ft3	22-Sep-22	W12AMDBCP4-22
3	20168	Flow-total	AMDBCP	ft3	29-Sep-22	W13AMDBCP4-22
Total (ft^3 & m^3)	**262210**	**7431**				
3	20012	Flow-total	AMDNE	ft3	07-Jul-22	W01AMDNE4-22
3	20054	Flow-total	AMDNE	ft3	14-Jul-22	W02AMDNE4-22
3	20731	Flow-total	AMDNE	ft3	21-Jul-22	W03AMDNE4-22
3	19626	Flow-total	AMDNE	ft3	28-Jul-22	W04AMDNE4-22
3	20084	Flow-total	AMDNE	ft3	04-Aug-22	W05AMDNE4-22
3	20068	Flow-total	AMDNE	ft3	11-Aug-22	W06AMDNE4-22
3	20279	Flow-total	AMDNE	ft3	18-Aug-22	W07AMDNE4-22
3	19846	Flow-total	AMDNE	ft3	25-Aug-22	W08AMDNE4-22
3	20200	Flow-total	AMDNE	ft3	01-Sep-22	W09AMDNE4-22
3	20088	Flow-total	AMDNE	ft3	08-Sep-22	W10AMDNE4-22
3	17535	Flow-total	AMDNE	ft3	14-Sep-22	W11AMDNE4-22
3	22618	Flow-total	AMDNE	ft3	22-Sep-22	W12AMDNE4-22
3	20218	Flow-total	AMDNE	ft3	29-Sep-22	W13AMDNE4-22
Total (ft^3 & m^3)	**261359**	**7407**				
4	20156	Flow-total	AMD002	ft3	06-Oct-22	W01AMD0021-23
4	20167	Flow-total	AMD002	ft3	13-Oct-22	W13AMD0024-22
4	20131	Flow-total	AMD002	ft3	20-Oct-22	W13AMD0024-22
4	20188	Flow-total	AMD002	ft3	27-Oct-22	W04AMD0021-23
4	20118	Flow-total	AMD002	ft3	03-Nov-22	W05AMD0021-23
4	20437	Flow-total	AMD002	ft3	10-Nov-22	W06AMD0021-23

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
4	19997	Flow-total	AMD002	ft3	17-Nov-22	W07AMD0021-23
4	14441	Flow-total	AMD002	ft3	22-Nov-22	W08AMD0021-23
4	25689	Flow-total	AMD002	ft3	01-Dec-22	W09AMD0021-23
4	20653	Flow-total	AMD002	ft3	08-Dec-22	W10AMD0021-23
4	19542	Flow-total	AMD002	ft3	15-Dec-22	W11AMD0021-23
4	17488	Flow-total	AMD002	ft3	21-Dec-22	W11AMD0021-23
4	3789	Flow-total	AMD002	ft3	29-Dec-22	W13AMD0021-23
Total (ft^3 & m^3)	**242796**	**6880**				
4	20117	Flow-total	AMD012	ft3	06-Oct-22	W01AMD0121-23
4	20109	Flow-total	AMD012	ft3	13-Oct-22	W13AMD0124-22
4	19876	Flow-total	AMD012	ft3	20-Oct-22	W13AMD0124-22
4	20133	Flow-total	AMD012	ft3	27-Oct-22	W04AMD0121-23
4	20069	Flow-total	AMD012	ft3	03-Nov-22	W05AMD0121-23
4	19349	Flow-total	AMD012	ft3	10-Nov-22	W06AMD0121-23
4	19947	Flow-total	AMD012	ft3	17-Nov-22	W07AMD0121-23
4	14397	Flow-total	AMD012	ft3	22-Nov-22	W08AMD0121-23
4	5239	Flow-total	AMD012	ft3	01-Dec-22	W09AMD0121-23
4	0	Flow-total	AMD012	ft3	08-Dec-22	W10AMD0121-23
4	0	Flow-total	AMD012	ft3	15-Dec-22	W11AMD0121-23
4	5690	Flow-total	AMD012	ft3	21-Dec-22	W11AMD0121-23
4	6234	Flow-total	AMD012	ft3	29-Dec-22	W13AMD0121-23
Total (ft^3 & m^3)	**171160**	**4850**				
4	20108	Flow-total	AMD015	ft3	06-Oct-22	W01AMD0151-23
4	20102	Flow-total	AMD015	ft3	13-Oct-22	W13AMD0154-22
4	20382	Flow-total	AMD015	ft3	20-Oct-22	W13AMD0154-22
4	19820	Flow-total	AMD015	ft3	27-Oct-22	W04AMD0151-23
4	20068	Flow-total	AMD015	ft3	03-Nov-22	W05AMD0151-23
4	20356	Flow-total	AMD015	ft3	10-Nov-22	W06AMD0151-23
4	19965	Flow-total	AMD015	ft3	17-Nov-22	W07AMD0151-23
4	14395	Flow-total	AMD015	ft3	22-Nov-22	W08AMD0151-23
4	25717	Flow-total	AMD015	ft3	01-Dec-22	W09AMD0151-23
4	20632	Flow-total	AMD015	ft3	08-Dec-22	W10AMD0151-23
4	19486	Flow-total	AMD015	ft3	15-Dec-22	W11AMD0151-23
4	17433	Flow-total	AMD015	ft3	21-Dec-22	W11AMD0151-23
4	5456	Flow-total	AMD015	ft3	29-Dec-22	W13AMD0151-23
Total (ft^3 & m^3)	**243920**	**6912**				
4	20102	Flow-total	AMD57	ft3	06-Oct-22	W01AMD571-23
4	20097	Flow-total	AMD57	ft3	13-Oct-22	W13AMD574-22
4	20062	Flow-total	AMD57	ft3	20-Oct-22	W13AMD574-22
4	20138	Flow-total	AMD57	ft3	27-Oct-22	W04AMD571-23
4	20055	Flow-total	AMD57	ft3	03-Nov-22	W05AMD571-23
4	20354	Flow-total	AMD57	ft3	10-Nov-22	W06AMD571-23
4	19954	Flow-total	AMD57	ft3	17-Nov-22	W07AMD571-23
4	14394	Flow-total	AMD57	ft3	22-Nov-22	W08AMD571-23
4	25884	Flow-total	AMD57	ft3	01-Dec-22	W09AMD571-23
4	20631	Flow-total	AMD57	ft3	08-Dec-22	W10AMD571-23
4	19483	Flow-total	AMD57	ft3	15-Dec-22	W11AMD571-23
4	17433	Flow-total	AMD57	ft3	21-Dec-22	W11AMD571-23
4	6227	Flow-total	AMD57	ft3	29-Dec-22	W13AMD571-23
Total (ft^3 & m^3)	**244814**	**6938**				
4	20112	Flow-total	AMD612	ft3	06-Oct-22	W01AMD6121-23
4	20107	Flow-total	AMD612	ft3	13-Oct-22	W13AMD6124-22
4	20387	Flow-total	AMD612	ft3	20-Oct-22	W13AMD6124-22
4	19824	Flow-total	AMD612	ft3	27-Oct-22	W04AMD6121-23
4	19641	Flow-total	AMD612	ft3	03-Nov-22	W05AMD6121-23
4	20354	Flow-total	AMD612	ft3	10-Nov-22	W06AMD6121-23
4	19965	Flow-total	AMD612	ft3	17-Nov-22	W07AMD6121-23
4	14399	Flow-total	AMD612	ft3	22-Nov-22	W08AMD6121-23
4	25813	Flow-total	AMD612	ft3	01-Dec-22	W09AMD6121-23
4	20633	Flow-total	AMD612	ft3	08-Dec-22	W10AMD6121-23
4	19500	Flow-total	AMD612	ft3	15-Dec-22	W11AMD6121-23
4	17436	Flow-total	AMD612	ft3	21-Dec-22	W11AMD6121-23
4	3485	Flow-total	AMD612	ft3	29-Dec-22	W13AMD6121-23
Total (ft^3 & m^3)	**241656**	**6848**				

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STATION NAME	UNITS	DATE COLLECTED	PROJECT SAMPLE ID
4	20074	Flow-total	AMD746S	ft3	06-Oct-22	W01AMD746S1-23
4	20083	Flow-total	AMD746S	ft3	13-Oct-22	W13AMD746S4-22
4	20003	Flow-total	AMD746S	ft3	20-Oct-22	W13AMD746S4-22
4	20194	Flow-total	AMD746S	ft3	27-Oct-22	W04AMD746S1-23
4	20005	Flow-total	AMD746S	ft3	03-Nov-22	W05AMD746S1-23
4	20364	Flow-total	AMD746S	ft3	10-Nov-22	W06AMD746S1-23
4	20007	Flow-total	AMD746S	ft3	17-Nov-22	W07AMD746S1-23
4	14335	Flow-total	AMD746S	ft3	22-Nov-22	W08AMD746S1-23
4	25285	Flow-total	AMD746S	ft3	01-Dec-22	W09AMD746S1-23
4	20598	Flow-total	AMD746S	ft3	08-Dec-22	W10AMD746S1-23
4	19469	Flow-total	AMD746S	ft3	15-Dec-22	W11AMD746S1-23
4	17437	Flow-total	AMD746S	ft3	21-Dec-22	W11AMD746S1-23
4	6068	Flow-total	AMD746S	ft3	29-Dec-22	W13AMD746S1-23
Total (ft^3 & m^3)	**243922**	**6912**				
4	20080	Flow-total	AMD746U	ft3	06-Oct-22	W01AMD746U1-23
4	20073	Flow-total	AMD746U	ft3	13-Oct-22	W13AMD746U4-22
4	19988	Flow-total	AMD746U	ft3	20-Oct-22	W13AMD746U4-22
4	20204	Flow-total	AMD746U	ft3	27-Oct-22	W04AMD746U1-23
4	19995	Flow-total	AMD746U	ft3	03-Nov-22	W05AMD746U1-23
4	20356	Flow-total	AMD746U	ft3	10-Nov-22	W06AMD746U1-23
4	20011	Flow-total	AMD746U	ft3	17-Nov-22	W07AMD746U1-23
4	14329	Flow-total	AMD746U	ft3	22-Nov-22	W08AMD746U1-23
4	25890	Flow-total	AMD746U	ft3	01-Dec-22	W09AMD746U1-23
4	20587	Flow-total	AMD746U	ft3	08-Dec-22	W10AMD746U1-23
4	19474	Flow-total	AMD746U	ft3	15-Dec-22	W11AMD746U1-23
4	17430	Flow-total	AMD746U	ft3	21-Dec-22	W11AMD746U1-23
4	6077	Flow-total	AMD746U	ft3	29-Dec-22	W13AMD746U1-23
Total (ft^3 & m^3)	**244494**	**6929**				
4	20160	Flow-total	AMDBCP	ft3	06-Oct-22	W01AMDBCP1-23
4	20171	Flow-total	AMDBCP	ft3	13-Oct-22	W13AMDBCP4-22
4	20447	Flow-total	AMDBCP	ft3	20-Oct-22	W13AMDBCP4-22
4	19473	Flow-total	AMDBCP	ft3	27-Oct-22	W04AMDBCP1-23
4	20203	Flow-total	AMDBCP	ft3	03-Nov-22	W05AMDBCP1-23
4	20417	Flow-total	AMDBCP	ft3	10-Nov-22	W06AMDBCP1-23
4	19933	Flow-total	AMDBCP	ft3	17-Nov-22	W07AMDBCP1-23
4	14499	Flow-total	AMDBCP	ft3	22-Nov-22	W08AMDBCP1-23
4	26043	Flow-total	AMDBCP	ft3	01-Dec-22	W09AMDBCP1-23
4	20548	Flow-total	AMDBCP	ft3	08-Dec-22	W10AMDBCP1-23
4	19521	Flow-total	AMDBCP	ft3	15-Dec-22	W11AMDBCP1-23
4	499.6	Flow-total	AMDBCP	ft3	21-Dec-22	W11AMDBCP1-23
4	5551	Flow-total	AMDBCP	ft3	29-Dec-22	W13AMDBCP1-23
Total (ft^3 & m^3)	**227465.6**	**6446**				
4	20071	Flow-total	AMDNE	ft3	06-Oct-22	W01AMDNE1-23
4	20148	Flow-total	AMDNE	ft3	13-Oct-22	W13AMDNE4-22
4	20179	Flow-total	AMDNE	ft3	20-Oct-22	W13AMDNE4-22
4	20026	Flow-total	AMDNE	ft3	27-Oct-22	W04AMDNE1-23
4	19936	Flow-total	AMDNE	ft3	03-Nov-22	W05AMDNE1-23
4	20414	Flow-total	AMDNE	ft3	10-Nov-22	W06AMDNE1-23
4	20000	Flow-total	AMDNE	ft3	17-Nov-22	W07AMDNE1-23
4	14334	Flow-total	AMDNE	ft3	22-Nov-22	W08AMDNE1-23
4	25823	Flow-total	AMDNE	ft3	01-Dec-22	W09AMDNE1-23
4	20591	Flow-total	AMDNE	ft3	08-Dec-22	W10AMDNE1-23
4	19466	Flow-total	AMDNE	ft3	15-Dec-22	W11AMDNE1-23
4	17436	Flow-total	AMDNE	ft3	21-Dec-22	W11AMDNE1-23
4	6061	Flow-total	AMDNE	ft3	29-Dec-22	W13AMDNE1-23
Total (ft^3 & m^3)	**244485**	**6928**				