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June 30, 2021

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Ms. Duff, Mr. Edwards, and Ms. Freeman,


SUBMITTAL OF THE NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS ANNUAL REPORT FOR 2020 U.S. DEPARTMENT OF ENERGY RADIOLOGICAL EMISSIONS AT THE PADUCAH GASEOUS DIFFUSION PLANT, FRNP-RPT-0195

Enclosed is the calendar year 2020 Annual National Emissions Standards for Hazardous Air Pollutants Report, required by 40 *CFR* Part 61, Subpart H. This report summarizes airborne radionuclide emissions from the U.S. Department of Energy (DOE) Paducah Site. The total 2020 effective dose equivalent from DOE emissions was 0.0000615 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,

**Jennifer R.
Woodard**

 Digitally signed by Jennifer R. Woodard
Date: 2021.06.29 18:18:20 -05'00'

Jennifer Woodard
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Enclosures:

1. Certification Pages
2. National Emissions Standards for Hazardous Air Pollutants Annual Report for 2020

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CERTIFICATION

Document Identification: *National Emissions Standards for Hazardous Air Pollutants Annual Report for 2020 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant, FRNP-RPT-0195*

This certification pertains to the following emission source:

Paducah Deactivation Project

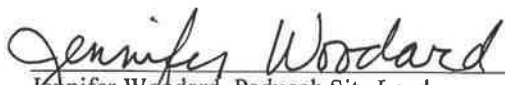
I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware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



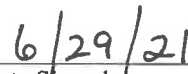
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Four Rivers Nuclear Partnership, LLC



Date Signed



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U.S. Department of Energy



Date Signed

CERTIFICATION


Document Identification: *National Emissions Standards for Hazardous Air Pollutants Annual Report for 2020 U.S. Department of Energy Radiological Emissions at the Paducah Gaseous Diffusion Plant, FRNP-RPT-0195*

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)

**T. Zack Smith
(Seconded)**

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Date Signed

**National Emission Standards for Hazardous Air Pollutants
Annual Report for 2020 U.S. Department of Energy
Radiological Emissions at the
Paducah Gaseous Diffusion Plant**



This document is approved for public release per review by:

David Hayden
FRNP Classification Support

06-28-2021
Date

**National Emission Standards for Hazardous Air Pollutants
Annual Report for 2020 U.S. Department of Energy
Radiological Emissions at the
Paducah Gaseous Diffusion Plant**

Date Issued—June 2021

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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ACRONYMS

AIRDOS	Atmospheric Dispersion of Radionuclides
CAP-88 PC	Clean Air Act Assessment Package-1988 Version 4
<i>CFR</i>	<i>Code of Federal Regulations</i>
DOE	U.S. Department of Energy
EDE	effective dose equivalent
EPA	U.S. Environmental Protection Agency
EW	extraction well
HEPA	high-efficiency particulate air
<i>KAR</i>	<i>Kentucky Administrative Regulations</i>
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 0.0000615 mrem for calendar year 2020. 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

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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 (DUF₆) conversion facility. The DUF₆ 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 3,500 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 (2020) 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 DUF₆ conversion facility has operated since 2011. The facility converts DUF₆ stored in cylinders to a more stable uranium oxide powder. The form of uranium oxide is primarily U₃O₈. 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 A—the C-400 Group

This grouping includes all of the C-400 sources. Deactivation of the C-400 facility began in 2016.

4.2.1.1 C-400 laundry

The C-400 laundry washed and dried protective clothing used to prevent skin contamination on personnel working in radiological areas. The driers were equipped with lint filters. Emissions from the laundry are estimated using data from health physics lint filter surveys. Alpha radiation is assumed to be 10% Np-237 and 90% uranium. Beta emissions are assumed to be Tc-99. The emission factor for cloth filters in 40 *CFR* Part 61, Appendix D, is used to estimate the emissions. The C-400 laundry was removed from service in June 2016. The source was not operational during 2020; therefore, it is not included in the summary tables.

The C-400 Laundry has not been operational since June 2016 and it is not anticipated to have any further emissions; therefore, this section will be removed from subsequent reports.

4.2.2 Group D—C-709/C-710 Laboratory Hoods

The C-709/C-710 laboratories are the main facilities for sample analysis and research at the Paducah Site. During 2020 there were no functioning fume hoods in the C-709 laboratory facility; therefore, none of them contributed to emissions of radionuclides. There were five functioning fume hoods in the C-710 laboratory facility. Radioactive material operations were not conducted using these hoods.

There was no radioactive contribution from this emission source during 2020; therefore, it is noted as zero emissions in the enclosed tables. The C-709/C-710 laboratory is in the process of being shut down, and it is not anticipated to have any further emissions; therefore, this section will be removed from subsequent reports.

4.2.3 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 inactive in 2020; therefore, the stack is not included in the summary tables.

4.2.4 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.

4.2.4.1 Seal exhaust systems

Emissions from the SX systems are routed through alumina traps and pump oil prior to venting. Seals on the UF₆ compressors are supplied with an intricate array of air pressures to minimize releases during seal failure. A seal failure allows UF₆ to enter the SX system. If UF₆ 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 UF₆ 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 September 2017. The operations from the SX/WA system have not changed since the stack test was performed. To better detail any possible emissions from site sources, Four Rivers Nuclear Partnership, LLC, used the actual results for any nondetects shown on Oak Ridge Environmental Information System report for the SX/WA Stack Test Performed in 2017 to calculate the average concentration. During this calculation, the average concentration for Pu-239/240 netted a negative value. Clean Air Act Assessment Package-1988 Version 4 PC model (CAP-88) will not allow a negative value as an input; therefore, the emission rate of zero was used for the calculation for Pu-239/240.

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.

4.2.4.2 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)

4.2.4.3 CFC-114/UF₆ separation system

The chlorofluorocarbon (CFC)-114/UF₆ separation system is located in C-335 and is used to freeze out UF₆ from cascade gas that has been contaminated significantly with CFC-114 coolant. Such mixtures usually result from equipment failure, but also may result from abnormal cascade operation. Surge drums are used to store these mixtures until they can be separated. The primary purpose of the CFC-114/UF₆ separation system is to remove the coolant and return the UF₆ to the cascade.

The separation system operates by freezing out the UF₆ from the cascade gas. To freeze out the UF₆, the UF₆/CFC-114 mixture is transferred from the surge drum through a refrigerated set of favorable geometry cold traps. The gas stream then passes through sodium fluoride traps and alumina traps to absorb any residual UF₆. Typically the gas stream flows through the alumina traps, although these traps can be bypassed. The trap discharge is connected to the SX/WA pump system and to atmosphere through the existing common discharge header. The UF₆ is sublimed back to cascade after the processing of the contaminated gas has been completed.

To improve nuclear criticality safety, modification of the CFC-114/UF₆ separation system was made, and initial baseline emissions testing completed in 2004. The modification reduced potential radionuclide emissions. The CFC-114/UF₆ separation system has been inactive since 2014; therefore, the stack is not included in the summary tables.

The CFC-114/UF₆ separation system has not been operational since 2014 and it is not anticipated to have any further emissions; therefore, this section will be removed from subsequent reports.

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 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 104,574,926 gal during calendar year 2020. 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 50,243,624 gal and 39,450,349 gal, respectively, during the 2020 calendar year.

Emissions of Tc-99 were estimated using 40 *CFR* Part 61, Appendix D, emission factors and the analysis of the groundwater. 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 2020, the Paducah Site had no unplanned airborne releases. Analyses of ambient air monitoring results for 2020 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 D C-709/710 Laboratory Hoods	None	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 D C-709/710 Laboratory Hoods	2,458	2,692	3,968	1,935
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 D C-709/710 Laboratory Hoods	Point	7.09	0.50	0.00	Ambient	N/A
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 D C-709/C-710	Group F SX/WA	Northwest Plume	Northeast Plume C-765	Northeast Plume C-765-A	DUF ₆ Conversion Facility	Total Site Emissions
U-234	0	5.43E-07	0	0	0	2.69E-07	8.12E-07
U-235	0	2.93E-08	0	0	0	1.23E-08	4.16E-08
U-238	0	2.17E-07	0	0	0	6.61E-07	8.78E-07
Tc-99	0	9.04E-08	8.72E-05	1.10E-05	4.47E-06	0	1.03E-04
Th-230	0	4.84E-10	0	0	0	0	4.84E-10
Th-231	0	0	0	0	0	2.21E-07	2.21E-07
Th-234	0	0	0	0	0	2.02E-05	2.02E-05
Np-237	0	2.07E-10	0	0	0	0	2.07E-10
Pu-239	0	0	0	0	0	0	0
Pa-234m	0	0	0	0	0	2.02E-05	2.02E-05
Total Curies/Year	0	8.80E-07	8.72E-05	1.10E-05	4.47E-06	4.16E-05	1.45E-04

7. DOSE ASSESSMENT

7.1 DESCRIPTION OF DOSE MODEL

The 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 2020 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 2020 (148.11 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 2020 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: 148.11 cm/year

Average air temperature: 15°C

Average mixing layer height: 542 m

Fraction of foodstuffs from (rural default values):

	<u>Local Area</u>	<u>50-Mile Radius</u>	<u>Beyond 50 Miles</u>
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.

The maximally exposed individual from all facility emissions is located 1,149 m north-northeast of the Northwest Plume Treatment System. The total annual EDE to the maximally exposed member of the public from Paducah Site emissions of 0.0000615 mrem for calendar year 2020 was lower than in calendar year 2019.

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 D— C-709/C-710 Laboratory Hoods	0	0	0
Group F—SX/WA Group	3.10E-07	2.50E-07	2.81E-06
Northwest Plume Treatment System	5.80E-05	5.80E-05	2.26E-04
Northeast Plume Treatment Unit C-765	5.50E-06	2.10E-06	2.84E-05
Northeast Plume Treatment Unit C-765-A	2.00E-06	7.90E-07	1.15E-05
DUF ₆ Conversion Facility	5.20E-07	3.30E-07	5.11E-06
Total from All Sources		6.15E-05	2.74E-04

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-arcsecond 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 0.000274 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 2020.

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 2020 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 2020. 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

CP2-EC-0002, *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*.

DOE (U.S. Department of Energy) 2015. Part 8.5.2 of DOE-HDBK-1216-2015, *Environmental Radiological Effluent Monitoring and Environmental Surveillance*, pp. 143–145, March.

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.

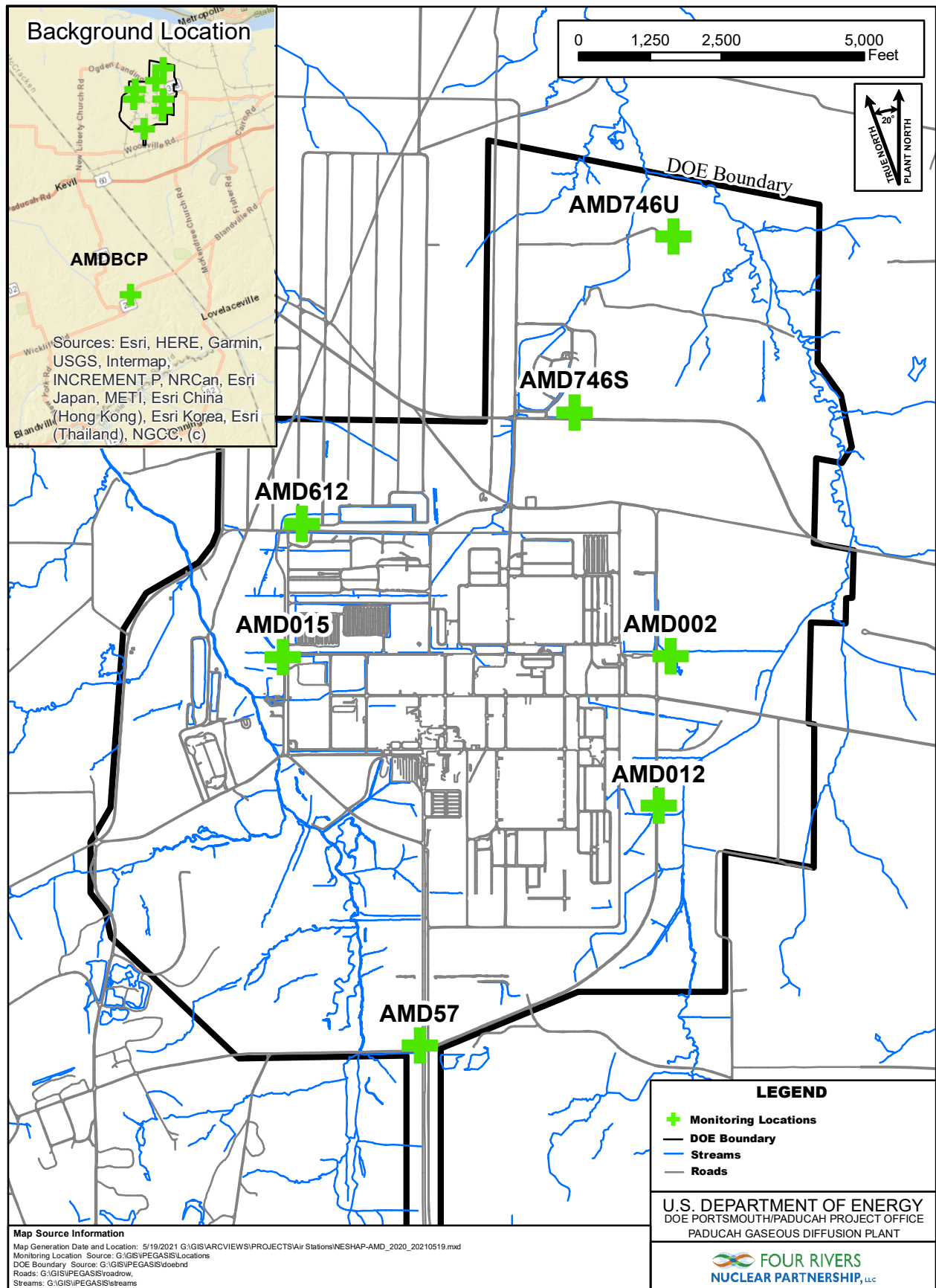


Figure 1. Location of Paducah Site Ambient Air Monitoring Stations

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
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1st Quarter January through March

Quarter Air Flow		7192	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q2AMD0022-20	14-Apr-20	Americium-241	0.035	pCi/sample	4.87E-06	4.87E-18	1.90E-15	2.56E-03	U
AMD002	Q2AMD0022-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD002	Q2AMD0022-20	14-Apr-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD002	Q2AMD0022-20	14-Apr-20	Plutonium-239/240	0.00274	pCi/Sample	3.81E-07	3.81E-19	2.00E-15	1.90E-04	U
AMD002	Q2AMD0022-20	14-Apr-20	Technetium-99	14.4	pCi/Sample	2.00E-03	2.00E-15	1.40E-13	1.43E-02	U
AMD002	Q2AMD0022-20	14-Apr-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD002	Q2AMD0022-20	14-Apr-20	Uranium-234	2.21	pCi/Sample	3.07E-04	3.07E-16	7.70E-15	3.99E-02	
AMD002	Q2AMD0022-20	14-Apr-20	Uranium-235	0.167	pCi/Sample	2.32E-05	2.32E-17	7.10E-15	3.27E-03	U
AMD002	Q2AMD0022-20	14-Apr-20	Uranium-238	1.78	pCi/Sample	2.47E-04	2.47E-16	8.30E-15	2.98E-02	
Sum of the Fractions of the Standard									9.01E-02	

Quarter Air Flow		7412	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q2AMD0122-20	14-Apr-20	Americium-241	0.0604	pCi/sample	8.15E-06	8.15E-18	1.90E-15	4.29E-03	U
AMD012	Q2AMD0122-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q2AMD0122-20	14-Apr-20	Plutonium-238	0.211	pCi/sample	2.85E-05	2.85E-17	2.10E-15	1.36E-02	U
AMD012	Q2AMD0122-20	14-Apr-20	Plutonium-239/240	0.147	pCi/sample	1.98E-05	1.98E-17	2.00E-15	9.92E-03	U
AMD012	Q2AMD0122-20	14-Apr-20	Technetium-99	56	pCi/sample	7.56E-03	7.56E-15	1.40E-13	5.40E-02	U
AMD012	Q2AMD0122-20	14-Apr-20	Thorium-234	33	pCi/sample	4.45E-03	4.45E-15	2.20E-12	2.02E-03	U
AMD012	Q2AMD0122-20	14-Apr-20	Uranium-234	1.24	pCi/sample	1.67E-04	1.67E-16	7.70E-15	2.17E-02	
AMD012	Q2AMD0122-20	14-Apr-20	Uranium-235	0.038	pCi/sample	5.13E-06	5.13E-18	7.10E-15	7.22E-04	U
AMD012	Q2AMD0122-20	14-Apr-20	Uranium-238	1.92	pCi/sample	2.59E-04	2.59E-16	8.30E-15	3.12E-02	
Sum of the Fractions of the Standard									1.37E-01	

Quarter Air Flow		7397	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q2AMD0152-20	14-Apr-20	Americium-241	0.124	pCi/sample	1.68E-05	1.68E-17	1.90E-15	8.82E-03	U
AMD015	Q2AMD0152-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q2AMD0152-20	14-Apr-20	Plutonium-238	0.0414	pCi/sample	5.60E-06	5.60E-18	2.10E-15	2.67E-03	U
AMD015	Q2AMD0152-20	14-Apr-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD015	Q2AMD0152-20	14-Apr-20	Technetium-99	37.8	pCi/sample	5.11E-03	5.11E-15	1.40E-13	3.65E-02	U
AMD015	Q2AMD0152-20	14-Apr-20	Thorium-234	16.2	pCi/sample	2.19E-03	2.19E-15	2.20E-12	9.95E-04	U
AMD015	Q2AMD0152-20	14-Apr-20	Uranium-234	1.96	pCi/sample	2.65E-04	2.65E-16	7.70E-15	3.44E-02	
AMD015	Q2AMD0152-20	14-Apr-20	Uranium-235	0.302	pCi/sample	4.08E-05	4.08E-17	7.10E-15	5.75E-03	U
AMD015	Q2AMD0152-20	14-Apr-20	Uranium-238	1.66	pCi/sample	2.24E-04	2.24E-16	8.30E-15	2.70E-02	
Sum of the Fractions of the Standard									1.16E-01	

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

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	6831	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q2AMD572-20	14-Apr-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD57	Q2AMD572-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q2AMD572-20	14-Apr-20	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q2AMD572-20	14-Apr-20	Plutonium-239/240	0.0177	pCi/sample	2.59E-06	2.59E-18	2.00E-15	1.30E-03	U
AMD57	Q2AMD572-20	14-Apr-20	Technetium-99	21.3	pCi/sample	3.12E-03	3.12E-15	1.40E-13	2.23E-02	U
AMD57	Q2AMD572-20	14-Apr-20	Thorium-234	1.29	pCi/sample	1.89E-04	1.89E-16	2.20E-12	8.58E-05	U
AMD57	Q2AMD572-20	14-Apr-20	Uranium-234	2.03	pCi/sample	2.97E-04	2.97E-16	7.70E-15	3.86E-02	
AMD57	Q2AMD572-20	14-Apr-20	Uranium-235	0.227	pCi/sample	3.32E-05	3.32E-17	7.10E-15	4.68E-03	U
AMD57	Q2AMD572-20	14-Apr-20	Uranium-238	1.41	pCi/sample	2.06E-04	2.06E-16	8.30E-15	2.49E-02	
Sum of the Fractions of the Standard									9.18E-02	
	Quarter Air Flow	7431	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q2AMD6122-20	14-Apr-20	Americium-241	0.56	pCi/sample	7.54E-05	7.54E-17	1.90E-15	3.97E-02	U
AMD612	Q2AMD6122-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q2AMD6122-20	14-Apr-20	Plutonium-238	0.0648	pCi/sample	8.72E-06	8.72E-18	2.10E-15	4.15E-03	U
AMD612	Q2AMD6122-20	14-Apr-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q2AMD6122-20	14-Apr-20	Technetium-99	41.9	pCi/sample	5.64E-03	5.64E-15	1.40E-13	4.03E-02	U
AMD612	Q2AMD6122-20	14-Apr-20	Thorium-234	2.28	pCi/sample	3.07E-04	3.07E-16	2.20E-12	1.39E-04	U
AMD612	Q2AMD6122-20	14-Apr-20	Uranium-234	1.59	pCi/sample	2.14E-04	2.14E-16	7.70E-15	2.78E-02	
AMD612	Q2AMD6122-20	14-Apr-20	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q2AMD6122-20	14-Apr-20	Uranium-238	2.04	pCi/sample	2.75E-04	2.75E-16	8.30E-15	3.31E-02	
Sum of the Fractions of the Standard									1.45E-01	
	Quarter Air Flow	6746	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q2AMD746S2-20	14-Apr-20	Americium-241	1.05	pCi/sample	1.56E-04	1.56E-16	1.90E-15	8.19E-02	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Technetium-99	27.8	pCi/sample	4.12E-03	4.12E-15	1.40E-13	2.94E-02	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Thorium-234	4.19	pCi/sample	6.21E-04	6.21E-16	2.20E-12	2.82E-04	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Uranium-234	1.57	pCi/sample	2.33E-04	2.33E-16	7.70E-15	3.02E-02	
AMD746S	Q2AMD746S2-20	14-Apr-20	Uranium-235	0.132	pCi/sample	1.96E-05	1.96E-17	7.10E-15	2.76E-03	U
AMD746S	Q2AMD746S2-20	14-Apr-20	Uranium-238	1.67	pCi/sample	2.48E-04	2.48E-16	8.30E-15	2.98E-02	
Sum of the Fractions of the Standard									1.74E-01	

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

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	7216	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q2AMD746U2-20	14-Apr-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Neptunium-237	0.257	pCi/sample	3.56E-05	3.56E-17	1.20E-15	2.97E-02	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Plutonium-238	0.0622	pCi/sample	8.62E-06	8.62E-18	2.10E-15	4.10E-03	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Technetium-99	11.2	pCi/sample	1.55E-03	1.55E-15	1.40E-13	1.11E-02	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Uranium-234	0.974	pCi/sample	1.35E-04	1.35E-16	7.70E-15	1.75E-02	
AMD746U	Q2AMD746U2-20	14-Apr-20	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD746U	Q2AMD746U2-20	14-Apr-20	Uranium-238	1.38	pCi/sample	1.91E-04	1.91E-16	8.30E-15	2.30E-02	
Sum of the Fractions of the Standard									8.54E-02	
	Quarter Air Flow	7395	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Neptunium-237	0.0118	pCi/sample	1.60E-06	1.60E-18	1.20E-15	1.33E-03	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Technetium-99	4.54	pCi/sample	6.14E-04	6.14E-16	1.40E-13	4.39E-03	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Uranium-234	1.27	pCi/sample	1.72E-04	1.72E-16	7.70E-15	2.23E-02	
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMDBCP	Q2AMDBCP2-20	14-Apr-20	Uranium-238	2.3	pCi/sample	3.11E-04	3.11E-16	8.30E-15	3.75E-02	
Sum of the Fractions of the Standard									6.55E-02	
	Quarter Air Flow	7391	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q2AMDNE2-20	14-Apr-20	Americium-241	0.187	pCi/sample	2.53E-05	2.53E-17	1.90E-15	1.33E-02	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Plutonium-239/240	0.124	pCi/sample	1.68E-05	1.68E-17	2.00E-15	8.39E-03	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Technetium-99	6.67	pCi/sample	9.02E-04	9.02E-16	1.40E-13	6.45E-03	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Thorium-234	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UX
AMDNE	Q2AMDNE2-20	14-Apr-20	Uranium-234	0.714	pCi/sample	9.66E-05	9.66E-17	7.70E-15	1.25E-02	
AMDNE	Q2AMDNE2-20	14-Apr-20	Uranium-235	0.0696	pCi/sample	9.42E-06	9.42E-18	7.10E-15	1.33E-03	U
AMDNE	Q2AMDNE2-20	14-Apr-20	Uranium-238	1.87	pCi/sample	2.53E-04	2.53E-16	8.30E-15	3.05E-02	
Sum of the Fractions of the Standard									7.25E-02	

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

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	7395	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q3AMD0023-20	23-Jul-20	Americium-241	0.869	pCi/sample	1.18E-04	1.18E-16	1.90E-15	6.18E-02	U
AMD002	Q3AMD0023-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD002	Q3AMD0023-20	23-Jul-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD002	Q3AMD0023-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD002	Q3AMD0023-20	23-Jul-20	Technetium-99	20.4	pCi/Sample	2.76E-03	2.76E-15	1.40E-13	1.97E-02	U
AMD002	Q3AMD0023-20	23-Jul-20	Thorium-234	0.599	pCi/sample	8.10E-05	8.10E-17	2.20E-12	3.68E-05	U
AMD002	Q3AMD0023-20	23-Jul-20	Uranium-234	1.16	pCi/Sample	1.57E-04	1.57E-16	7.70E-15	2.04E-02	U
AMD002	Q3AMD0023-20	23-Jul-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD002	Q3AMD0023-20	23-Jul-20	Uranium-238	2.4	pCi/Sample	3.25E-04	3.25E-16	8.30E-15	3.91E-02	
									Sum of the Fractions of the Standard	1.41E-01
	Quarter Air Flow	7267	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q3AMD0123-20	23-Jul-20	Americium-241	0.0597	pCi/sample	8.22E-06	8.22E-18	1.90E-15	4.32E-03	U
AMD012	Q3AMD0123-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q3AMD0123-20	23-Jul-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD012	Q3AMD0123-20	23-Jul-20	Plutonium-239/240	0.00749	pCi/Sample	1.03E-06	1.03E-18	2.00E-15	5.15E-04	U
AMD012	Q3AMD0123-20	23-Jul-20	Technetium-99	46.3	pCi/Sample	6.37E-03	6.37E-15	1.40E-13	4.55E-02	U
AMD012	Q3AMD0123-20	23-Jul-20	Thorium-234	14	pCi/sample	1.93E-03	1.93E-15	2.20E-12	8.76E-04	U
AMD012	Q3AMD0123-20	23-Jul-20	Uranium-234	1.81	pCi/Sample	2.49E-04	2.49E-16	7.70E-15	3.23E-02	
AMD012	Q3AMD0123-20	23-Jul-20	Uranium-235	0.349	pCi/Sample	4.80E-05	4.80E-17	7.10E-15	6.76E-03	U
AMD012	Q3AMD0123-20	23-Jul-20	Uranium-238	2.12	pCi/sample	2.92E-04	2.92E-16	8.30E-15	3.51E-02	
									Sum of the Fractions of the Standard	1.25E-01
	Quarter Air Flow	7380	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q3AMD0153-20	23-Jul-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD015	Q3AMD0153-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q3AMD0153-20	23-Jul-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD015	Q3AMD0153-20	23-Jul-20	Plutonium-239/240	0.232	pCi/Sample	3.14E-05	3.14E-17	2.00E-15	1.57E-02	U
AMD015	Q3AMD0153-20	23-Jul-20	Technetium-99	47.2	pCi/Sample	6.40E-03	6.40E-15	1.40E-13	4.57E-02	U
AMD015	Q3AMD0153-20	23-Jul-20	Thorium-234	8.39	pCi/sample	1.14E-03	1.14E-15	2.20E-12	5.17E-04	U
AMD015	Q3AMD0153-20	23-Jul-20	Uranium-234	0.999	pCi/Sample	1.35E-04	1.35E-16	7.70E-15	1.76E-02	U
AMD015	Q3AMD0153-20	23-Jul-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD015	Q3AMD0153-20	23-Jul-20	Uranium-238	1.52	pCi/Sample	2.06E-04	2.06E-16	8.30E-15	2.48E-02	
									Sum of the Fractions of the Standard	1.04E-01

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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	6764	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q3AMD573-20	23-Jul-20	Americium-241	0.00614	pCi/sample	9.08E-07	9.08E-19	1.90E-15	4.78E-04	U
AMD57	Q3AMD573-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q3AMD573-20	23-Jul-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q3AMD573-20	23-Jul-20	Plutonium-239/240	0.23	pCi/Sample	3.40E-05	3.40E-17	2.00E-15	1.70E-02	U
AMD57	Q3AMD573-20	23-Jul-20	Technetium-99	14.8	pCi/Sample	2.19E-03	2.19E-15	1.40E-13	1.56E-02	U
AMD57	Q3AMD573-20	23-Jul-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD57	Q3AMD573-20	23-Jul-20	Uranium-234	1.52	pCi/Sample	2.25E-04	2.25E-16	7.70E-15	2.92E-02	
AMD57	Q3AMD573-20	23-Jul-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD57	Q3AMD573-20	23-Jul-20	Uranium-238	1.02	pCi/Sample	1.51E-04	1.51E-16	8.30E-15	1.82E-02	U
Sum of the Fractions of the Standard									8.05E-02	
	Quarter Air Flow	7057	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q3AMD6123-20	23-Jul-20	Americium-241	0.349	pCi/sample	4.95E-05	4.95E-17	1.90E-15	2.60E-02	U
AMD612	Q3AMD6123-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q3AMD6123-20	23-Jul-20	Plutonium-238	0.00528	pCi/Sample	7.48E-07	7.48E-19	2.10E-15	3.56E-04	U
AMD612	Q3AMD6123-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q3AMD6123-20	23-Jul-20	Technetium-99	5.59	pCi/Sample	7.92E-04	7.92E-16	1.40E-13	5.66E-03	U
AMD612	Q3AMD6123-20	23-Jul-20	Thorium-234	3.74	pCi/sample	5.30E-04	5.30E-16	2.20E-12	2.41E-04	U
AMD612	Q3AMD6123-20	23-Jul-20	Uranium-234	0.825	pCi/Sample	1.17E-04	1.17E-16	7.70E-15	1.52E-02	U
AMD612	Q3AMD6123-20	23-Jul-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q3AMD6123-20	23-Jul-20	Uranium-238	0.868	pCi/Sample	1.23E-04	1.23E-16	8.30E-15	1.48E-02	U
Sum of the Fractions of the Standard									6.23E-02	
	Quarter Air Flow	7417	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q3AMD746S3-20	23-Jul-20	Americium-241	0.305	pCi/sample	4.11E-05	4.11E-17	1.90E-15	2.16E-02	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Plutonium-238	0.0749	pCi/Sample	1.01E-05	1.01E-17	2.10E-15	4.81E-03	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Technetium-99	41.1	pCi/Sample	5.54E-03	5.54E-15	1.40E-13	3.96E-02	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Thorium-234	21.2	pCi/sample	2.86E-03	2.86E-15	2.20E-12	1.30E-03	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Uranium-234	1.31	pCi/Sample	1.77E-04	1.77E-16	7.70E-15	2.29E-02	
AMD746S	Q3AMD746S3-20	23-Jul-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD746S	Q3AMD746S3-20	23-Jul-20	Uranium-238	1.17	pCi/Sample	1.58E-04	1.58E-16	8.30E-15	1.90E-02	
Sum of the Fractions of the Standard									1.09E-01	

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Bold = Detection above MDC

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X = See Laboratory report

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	7398	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q3AMD746U3-20	23-Jul-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Plutonium-238	0.195	pCi/Sample	2.64E-05	2.64E-17	2.10E-15	1.26E-02	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Technetium-99	43.4	pCi/Sample	5.87E-03	5.87E-15	1.40E-13	4.19E-02	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Uranium-234	0.778	pCi/Sample	1.05E-04	1.05E-16	7.70E-15	1.37E-02	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Uranium-235	0.211	pCi/Sample	2.85E-05	2.85E-17	7.10E-15	4.02E-03	U
AMD746U	Q3AMD746U3-20	23-Jul-20	Uranium-238	0.811	pCi/Sample	1.10E-04	1.10E-16	8.30E-15	1.32E-02	U
Sum of the Fractions of the Standard									8.53E-02	
	Quarter Air Flow	7402	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Americium-241	0.0744	pCi/sample	1.01E-05	1.01E-17	1.90E-15	5.29E-03	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Plutonium-238	0.0251	pCi/Sample	3.39E-06	3.39E-18	2.10E-15	1.61E-03	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Thorium-234	14.9	pCi/sample	2.01E-03	2.01E-15	2.20E-12	9.15E-04	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Uranium-234	2.3	pCi/Sample	3.11E-04	3.11E-16	7.70E-15	4.04E-02	
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Uranium-235	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMDBCP	Q3AMDBCP3-20	23-Jul-20	Uranium-238	1.67	pCi/Sample	2.26E-04	2.26E-16	8.30E-15	2.72E-02	
Sum of the Fractions of the Standard									7.54E-02	
	Quarter Air Flow	7407	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q3AMDNE3-20	23-Jul-20	Americium-241	0.157	pCi/sample	2.12E-05	2.12E-17	1.90E-15	1.12E-02	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Technetium-99	20.6	pCi/Sample	2.78E-03	2.78E-15	1.40E-13	1.99E-02	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Thorium-234	6.04	pCi/sample	8.15E-04	8.15E-16	2.20E-12	3.71E-04	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Uranium-234	1.92	pCi/Sample	2.59E-04	2.59E-16	7.70E-15	3.37E-02	
AMDNE	Q3AMDNE3-20	23-Jul-20	Uranium-235	0.142	pCi/Sample	1.92E-05	1.92E-17	7.10E-15	2.70E-03	U
AMDNE	Q3AMDNE3-20	23-Jul-20	Uranium-238	1.56	pCi/Sample	2.11E-04	2.11E-16	8.30E-15	2.54E-02	
Sum of the Fractions of the Standard									9.31E-02	

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* = Negative result replaced with a zero for calculation
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 U = Value reported is less than the MDA and/or TPU
 X = See Laboratory report

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	7399	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q4AMD0024-20	13-Oct-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD002	Q4AMD0024-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD002	Q4AMD0024-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD002	Q4AMD0024-20	13-Oct-20	Plutonium-239/240	0.0415	pCi/Sample	5.61E-06	5.61E-18	2.00E-15	2.80E-03	U
AMD002	Q4AMD0024-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD002	Q4AMD0024-20	13-Oct-20	Thorium-234	10.2	pCi/sample	1.38E-03	1.38E-15	2.20E-12	6.27E-04	U
AMD002	Q4AMD0024-20	13-Oct-20	Uranium-234	1.47	pCi/Sample	1.99E-04	1.99E-16	7.70E-15	2.58E-02	
AMD002	Q4AMD0024-20	13-Oct-20	Uranium-235	0.307	pCi/Sample	4.15E-05	4.15E-17	7.10E-15	5.84E-03	U
AMD002	Q4AMD0024-20	13-Oct-20	Uranium-238	1.31	pCi/Sample	1.77E-04	1.77E-16	8.30E-15	2.13E-02	
									Sum of the Fractions of the Standard	5.64E-02
	Quarter Air Flow	7420	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q4AMD0124-20	13-Oct-20	Americium-241	0.336	pCi/sample	4.53E-05	4.53E-17	1.90E-15	2.38E-02	U
AMD012	Q4AMD0124-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q4AMD0124-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD012	Q4AMD0124-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD012	Q4AMD0124-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD012	Q4AMD0124-20	13-Oct-20	Thorium-234	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UX
AMD012	Q4AMD0124-20	13-Oct-20	Uranium-234	1.6	pCi/Sample	2.16E-04	2.16E-16	7.70E-15	2.80E-02	
AMD012	Q4AMD0124-20	13-Oct-20	Uranium-235	0.201	pCi/Sample	2.71E-05	2.71E-17	7.10E-15	3.82E-03	U
AMD012	Q4AMD0124-20	13-Oct-20	Uranium-238	1.41	pCi/Sample	1.90E-04	1.90E-16	8.30E-15	2.29E-02	
									Sum of the Fractions of the Standard	7.85E-02
	Quarter Air Flow	7400	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q4AMD0154-20	13-Oct-20	Americium-241	0.943	pCi/sample	1.27E-04	1.27E-16	1.90E-15	6.71E-02	U
AMD015	Q4AMD0154-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q4AMD0154-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD015	Q4AMD0154-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD015	Q4AMD0154-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD015	Q4AMD0154-20	13-Oct-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD015	Q4AMD0154-20	13-Oct-20	Uranium-234	1.88	pCi/Sample	2.54E-04	2.54E-16	7.70E-15	3.30E-02	
AMD015	Q4AMD0154-20	13-Oct-20	Uranium-235	0.00594	pCi/Sample	8.03E-07	8.03E-19	7.10E-15	1.13E-04	U
AMD015	Q4AMD0154-20	13-Oct-20	Uranium-238	1.15	pCi/Sample	1.55E-04	1.55E-16	8.30E-15	1.87E-02	
									Sum of the Fractions of the Standard	1.19E-01

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

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	7403	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q4AMD574-20	13-Oct-20	Americium-241	0.39	pCi/sample	5.27E-05	5.27E-17	1.90E-15	2.77E-02	U
AMD57	Q4AMD574-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q4AMD574-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD57	Q4AMD574-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD57	Q4AMD574-20	13-Oct-20	Technetium-99	0.516	pCi/Sample	6.97E-05	6.97E-17	1.40E-13	4.98E-04	U
AMD57	Q4AMD574-20	13-Oct-20	Thorium-234	22.9	pCi/sample	3.09E-03	3.09E-15	2.20E-12	1.41E-03	U
AMD57	Q4AMD574-20	13-Oct-20	Uranium-234	1.23	pCi/Sample	1.66E-04	1.66E-16	7.70E-15	2.16E-02	U
AMD57	Q4AMD574-20	13-Oct-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD57	Q4AMD574-20	13-Oct-20	Uranium-238	0.384	pCi/Sample	5.19E-05	5.19E-17	8.30E-15	6.25E-03	U
Sum of the Fractions of the Standard									5.75E-02	
	Quarter Air Flow	7399	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q4AMD6124-20	13-Oct-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD612	Q4AMD6124-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q4AMD6124-20	13-Oct-20	Plutonium-238	0.201	pCi/Sample	2.72E-05	2.72E-17	2.10E-15	1.29E-02	U
AMD612	Q4AMD6124-20	13-Oct-20	Plutonium-239/240	0.476	pCi/Sample	6.43E-05	6.43E-17	2.00E-15	3.22E-02	U
AMD612	Q4AMD6124-20	13-Oct-20	Technetium-99	9.08	pCi/Sample	1.23E-03	1.23E-15	1.40E-13	8.77E-03	U
AMD612	Q4AMD6124-20	13-Oct-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMD612	Q4AMD6124-20	13-Oct-20	Uranium-234	1.51	pCi/Sample	2.04E-04	2.04E-16	7.70E-15	2.65E-02	
AMD612	Q4AMD6124-20	13-Oct-20	Uranium-235*	0	pCi/Sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD612	Q4AMD6124-20	13-Oct-20	Uranium-238	1.44	pCi/Sample	1.95E-04	1.95E-16	8.30E-15	2.34E-02	
Sum of the Fractions of the Standard									1.04E-01	
	Quarter Air Flow	7421	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q4AMD746S4-20	13-Oct-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Thorium-234	17.7	pCi/sample	2.39E-03	2.39E-15	2.20E-12	1.08E-03	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Uranium-234	1.93	pCi/Sample	2.60E-04	2.60E-16	7.70E-15	3.38E-02	
AMD746S	Q4AMD746S4-20	13-Oct-20	Uranium-235	0.604	pCi/Sample	8.14E-05	8.14E-17	7.10E-15	1.15E-02	U
AMD746S	Q4AMD746S4-20	13-Oct-20	Uranium-238	1.43	pCi/Sample	1.93E-04	1.93E-16	8.30E-15	2.32E-02	
Sum of the Fractions of the Standard									6.95E-02	

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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	7402	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q4AMD746U4-20	13-Oct-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Thorium-234	5.81	pCi/sample	7.85E-04	7.85E-16	2.20E-12	3.57E-04	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Uranium-234	0.504	pCi/Sample	6.81E-05	6.81E-17	7.70E-15	8.84E-03	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Uranium-235	0.0071	pCi/Sample	9.59E-07	9.59E-19	7.10E-15	1.35E-04	U
AMD746U	Q4AMD746U4-20	13-Oct-20	Uranium-238	1.58	pCi/Sample	2.13E-04	2.13E-16	8.30E-15	2.57E-02	
									Sum of the Fractions of the Standard	3.51E-02
	Quarter Air Flow	7392	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Neptunium-237	0.735	pCi/sample	9.94E-05	9.94E-17	1.20E-15	8.29E-02	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Plutonium-238	0.0619	pCi/Sample	8.37E-06	8.37E-18	2.10E-15	3.99E-03	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Thorium-234	16.3	pCi/sample	2.21E-03	2.21E-15	2.20E-12	1.00E-03	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Uranium-234	3.24	pCi/Sample	4.38E-04	4.38E-16	7.70E-15	5.69E-02	
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Uranium-235	0.943	pCi/Sample	1.28E-04	1.28E-16	7.10E-15	1.80E-02	U
AMDBCP	Q4AMDBCP4-20	13-Oct-20	Uranium-238	2.46	pCi/Sample	3.33E-04	3.33E-16	8.30E-15	4.01E-02	
									Sum of the Fractions of the Standard	2.03E-01
	Quarter Air Flow	7403	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q4AMDNE4-20	13-Oct-20	Americium-241	0.633	pCi/sample	8.55E-05	8.55E-17	1.90E-15	4.50E-02	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	TU
AMDNE	Q4AMDNE4-20	13-Oct-20	Plutonium-238*	0	pCi/Sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Plutonium-239/240*	0	pCi/Sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Technetium-99*	0	pCi/Sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Thorium-234*	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Uranium-234	0.372	pCi/Sample	5.02E-05	5.02E-17	7.70E-15	6.53E-03	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Uranium-235	0.103	pCi/Sample	1.39E-05	1.39E-17	7.10E-15	1.96E-03	U
AMDNE	Q4AMDNE4-20	13-Oct-20	Uranium-238	0.926	pCi/Sample	1.25E-04	1.25E-16	8.30E-15	1.51E-02	U
									Sum of the Fractions of the Standard	6.86E-02

* = Negative result replaced with a zero for calculation

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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	7893	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD002	Q1AMD0021-21	30-Dec-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMD002	Q1AMD0021-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD002	Q1AMD0021-21	30-Dec-20	Plutonium-238	0.0296	pCi/sample	3.75E-06	3.75E-18	2.10E-15	1.79E-03	U
AMD002	Q1AMD0021-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD002	Q1AMD0021-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD002	Q1AMD0021-21	30-Dec-20	Thorium-234	17.1	pCi/sample	2.17E-03	2.17E-15	2.20E-12	9.85E-04	U
AMD002	Q1AMD0021-21	30-Dec-20	Uranium-234	1.52	pCi/sample	1.93E-04	1.93E-16	7.70E-15	2.50E-02	
AMD002	Q1AMD0021-21	30-Dec-20	Uranium-235	0.0336	pCi/sample	4.26E-06	4.26E-18	7.10E-15	6.00E-04	U
AMD002	Q1AMD0021-21	30-Dec-20	Uranium-238	1.92	pCi/sample	2.43E-04	2.43E-16	8.30E-15	2.93E-02	
Sum of the Fractions of the Standard									5.77E-02	
	Quarterly Air Flow	7900	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD012	Q1AMD0121-21	30-Dec-20	Americium-241	0.00233	pCi/sample	2.95E-07	2.95E-19	1.90E-15	1.55E-04	U
AMD012	Q1AMD0121-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD012	Q1AMD0121-21	30-Dec-20	Plutonium-238	0.118	pCi/sample	1.49E-05	1.49E-17	2.10E-15	7.11E-03	U
AMD012	Q1AMD0121-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD012	Q1AMD0121-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD012	Q1AMD0121-21	30-Dec-20	Thorium-234	6.19	pCi/sample	7.84E-04	7.84E-16	2.20E-12	3.56E-04	U
AMD012	Q1AMD0121-21	30-Dec-20	Uranium-234	1.62	pCi/sample	2.05E-04	2.05E-16	7.70E-15	2.66E-02	
AMD012	Q1AMD0121-21	30-Dec-20	Uranium-235*	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD012	Q1AMD0121-21	30-Dec-20	Uranium-238	2.44	pCi/sample	3.09E-04	3.09E-16	8.30E-15	3.72E-02	
Sum of the Fractions of the Standard									7.15E-02	
	Quarterly Air Flow	7893	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD015	Q1AMD0151-21	30-Dec-20	Americium-241	0.124	pCi/sample	1.57E-05	1.57E-17	1.90E-15	8.27E-03	U
AMD015	Q1AMD0151-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD015	Q1AMD0151-21	30-Dec-20	Plutonium-238	0.00472	pCi/sample	5.98E-07	5.98E-19	2.10E-15	2.85E-04	U
AMD015	Q1AMD0151-21	30-Dec-20	Plutonium-239/240	0.0612	pCi/sample	7.75E-06	7.75E-18	2.00E-15	3.88E-03	U
AMD015	Q1AMD0151-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD015	Q1AMD0151-21	30-Dec-20	Thorium-234	16.1	pCi/sample	2.04E-03	2.04E-15	2.20E-12	9.27E-04	U
AMD015	Q1AMD0151-21	30-Dec-20	Uranium-234	1.68	pCi/sample	2.13E-04	2.13E-16	7.70E-15	2.76E-02	
AMD015	Q1AMD0151-21	30-Dec-20	Uranium-235	0.317	pCi/sample	4.02E-05	4.02E-17	7.10E-15	5.66E-03	U
AMD015	Q1AMD0151-21	30-Dec-20	Uranium-238	2.27	pCi/sample	2.88E-04	2.88E-16	8.30E-15	3.47E-02	
Sum of the Fractions of the Standard									8.13E-02	

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Bold = Detection above MDC

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

X = See Laboratory report

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	7897	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD57	Q1AMD571-21	30-Dec-20	Americium-241	0.0161	pCi/sample	2.04E-06	2.04E-18	1.90E-15	1.07E-03	U
AMD57	Q1AMD571-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD57	Q1AMD571-21	30-Dec-20	Plutonium-238	0.0563	pCi/sample	7.13E-06	7.13E-18	2.10E-15	3.39E-03	U
AMD57	Q1AMD571-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD57	Q1AMD571-21	30-Dec-20	Technetium-99	8.06	pCi/sample	1.02E-03	1.02E-15	1.40E-13	7.29E-03	U
AMD57	Q1AMD571-21	30-Dec-20	Thorium-234	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UX
AMD57	Q1AMD571-21	30-Dec-20	Uranium-234	1.62	pCi/sample	2.05E-04	2.05E-16	7.70E-15	2.66E-02	
AMD57	Q1AMD571-21	30-Dec-20	Uranium-235	0.0595	pCi/sample	7.53E-06	7.53E-18	7.10E-15	1.06E-03	U
AMD57	Q1AMD571-21	30-Dec-20	Uranium-238	1.51	pCi/sample	1.91E-04	1.91E-16	8.30E-15	2.30E-02	
Sum of the Fractions of the Standard									6.25E-02	
	Quarterly Air Flow	8202	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD612	Q1AMD6121-21	30-Dec-20	Americium-241	0.0168	pCi/sample	2.05E-06	2.05E-18	1.90E-15	1.08E-03	U
AMD612	Q1AMD6121-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD612	Q1AMD6121-21	30-Dec-20	Plutonium-238	0.00239	pCi/sample	2.91E-07	2.91E-19	2.10E-15	1.39E-04	U
AMD612	Q1AMD6121-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD612	Q1AMD6121-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD612	Q1AMD6121-21	30-Dec-20	Thorium-234	12.1	pCi/sample	1.48E-03	1.48E-15	2.20E-12	6.71E-04	U
AMD612	Q1AMD6121-21	30-Dec-20	Uranium-234	1.73	pCi/sample	2.11E-04	2.11E-16	7.70E-15	2.74E-02	
AMD612	Q1AMD6121-21	30-Dec-20	Uranium-235	0.272	pCi/sample	3.32E-05	3.32E-17	7.10E-15	4.67E-03	U
AMD612	Q1AMD6121-21	30-Dec-20	Uranium-238	3.24	pCi/sample	3.95E-04	3.95E-16	8.30E-15	4.76E-02	
Sum of the Fractions of the Standard									8.15E-02	
	Quarter Air Flow	7911	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746S	Q1AMD746S1-21	30-Dec-20	Americium-241	0.0333	pCi/sample	4.21E-06	4.21E-18	1.90E-15	2.22E-03	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Plutonium-238	0.00515	pCi/sample	6.51E-07	6.51E-19	2.10E-15	3.10E-04	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Thorium-234	0	pCi/sample	0.00E+00	0.00E+00	2.20E-12	0.00E+00	UX
AMD746S	Q1AMD746S1-21	30-Dec-20	Uranium-234	2.02	pCi/sample	2.55E-04	2.55E-16	7.70E-15	3.32E-02	
AMD746S	Q1AMD746S1-21	30-Dec-20	Uranium-235	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD746S	Q1AMD746S1-21	30-Dec-20	Uranium-238	1.03	pCi/sample	1.30E-04	1.30E-16	8.30E-15	1.57E-02	
Sum of the Fractions of the Standard									5.14E-02	

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

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	7892	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMD746U	Q1AMD746U1-21	30-Dec-20	Americium-241	0.113	pCi/sample	1.43E-05	1.43E-17	1.90E-15	7.54E-03	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Neptunium-237	0.104	pCi/sample	1.32E-05	1.32E-17	1.20E-15	1.10E-02	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Plutonium-238	0.0805	pCi/sample	1.02E-05	1.02E-17	2.10E-15	4.86E-03	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Thorium-234	10.7	pCi/sample	1.36E-03	1.36E-15	2.20E-12	6.16E-04	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Uranium-234	1.51	pCi/sample	1.91E-04	1.91E-16	7.70E-15	2.48E-02	
AMD746U	Q1AMD746U1-21	30-Dec-20	Uranium-235	0	pCi/sample	0.00E+00	0.00E+00	7.10E-15	0.00E+00	U
AMD746U	Q1AMD746U1-21	30-Dec-20	Uranium-238	1.37	pCi/sample	1.74E-04	1.74E-16	8.30E-15	2.09E-02	
Sum of the Fractions of the Standard									6.98E-02	
	Quarterly Air Flow	7895	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Americium-241	0.063	pCi/sample	7.98E-06	7.98E-18	1.90E-15	4.20E-03	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Plutonium-238	0.003	pCi/sample	3.80E-07	3.80E-19	2.10E-15	1.81E-04	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Plutonium-239/240	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Thorium-234	16.5	pCi/sample	2.09E-03	2.09E-15	2.20E-12	9.50E-04	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Uranium-234	2.38	pCi/sample	3.01E-04	3.01E-16	7.70E-15	3.92E-02	
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Uranium-235	0.235	pCi/sample	2.98E-05	2.98E-17	7.10E-15	4.19E-03	U
AMDBCP	Q1AMDBCP1-21	30-Dec-20	Uranium-238	1.8	pCi/sample	2.28E-04	2.28E-16	8.30E-15	2.75E-02	
Sum of the Fractions of the Standard									7.61E-02	
	Quarterly Air Flow	7895	m3			pCi/m3	Ci/m3	Ci/m3	fraction	
AMDNE	Q1AMDNE1-21	30-Dec-20	Americium-241*	0	pCi/sample	0.00E+00	0.00E+00	1.90E-15	0.00E+00	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Neptunium-237*	0	pCi/sample	0.00E+00	0.00E+00	1.20E-15	0.00E+00	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Plutonium-238*	0	pCi/sample	0.00E+00	0.00E+00	2.10E-15	0.00E+00	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Plutonium-239/240*	0	pCi/sample	0.00E+00	0.00E+00	2.00E-15	0.00E+00	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Technetium-99*	0	pCi/sample	0.00E+00	0.00E+00	1.40E-13	0.00E+00	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Thorium-234	1.55	pCi/sample	1.96E-04	1.96E-16	2.20E-12	8.92E-05	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Uranium-234	1.44	pCi/sample	1.82E-04	1.82E-16	7.70E-15	2.37E-02	
AMDNE	Q1AMDNE1-21	30-Dec-20	Uranium-235	0.156	pCi/sample	1.98E-05	1.98E-17	7.10E-15	2.78E-03	U
AMDNE	Q1AMDNE1-21	30-Dec-20	Uranium-238	1.7	pCi/sample	2.15E-04	2.15E-16	8.30E-15	2.59E-02	
Sum of the Fractions of the Standard									5.25E-02	

* = Negative result replaced with a zero for calculation

Bold = Detection above MDC

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

X = See Laboratory report

Table A.2. Ambient Air Data

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD002	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	0.035	pCi/sample	U	0.763	0.366	0.366
AMD002	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.106	pCi/sample	U	1.5	0.593	0.594
AMD002	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0329	pCi/Sample	U	0.38	0.146	0.146
AMD002	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.00274	pCi/Sample	U	0.452	0.203	0.204
AMD002	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	14.4	pCi/Sample	U	67.8	39.5	39.5
AMD002	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	-1.47	pCi/sample	U	47.8	41.2	41.2
AMD002	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	2.21	pCi/Sample		0.565	0.799	0.864
AMD002	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.167	pCi/Sample	U	0.251	0.286	0.287
AMD002	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.78	pCi/Sample		0.524	0.719	0.764
AMD002	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	-1.47	pCi/sample	U	47.8	41.2	41.2
AMD002	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.869	pCi/sample	U	1.05	0.848	0.857
AMD002	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.378	pCi/sample	U	2.08	0.834	0.834
AMD002	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.289	pCi/Sample	U	1.33	0.408	0.409
AMD002	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0344	pCi/Sample	U	1.21	0.516	0.517
AMD002	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	20.4	pCi/Sample	U	64.1	37.6	37.7
AMD002	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	0.599	pCi/sample	U	34.6	29.7	29.7
AMD002	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	1.16	pCi/Sample	U	1.51	1.1	1.12
AMD002	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	-0.196	pCi/Sample	U	1.34	0.453	0.454
AMD002	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	0.599	pCi/sample	U	34.6	29.7	29.7
AMD002	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	2.4	pCi/Sample		1.22	1.35	1.4
AMD002	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	-0.658	pCi/sample	U	3.85	1.25	1.25
AMD002	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.192	pCi/sample	U	2.72	1.08	1.08
AMD002	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0311	pCi/Sample	U	1.09	0.516	0.518
AMD002	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0415	pCi/Sample	U	1.6	0.739	0.74
AMD002	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-1.57	pCi/Sample	U	84.1	48.4	48.4
AMD002	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	10.2	pCi/sample	U	34.5	37.4	37.7
AMD002	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.47	pCi/Sample		1.03	1.01	1.03
AMD002	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.307	pCi/Sample	U	0.836	0.603	0.605
AMD002	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	10.2	pCi/sample	U	34.5	37.4	37.7
AMD002	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.31	pCi/Sample		0.862	0.926	0.947
AMD002	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	-0.0504	pCi/sample	U	0.428	0.152	0.153
AMD002	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.37	pCi/sample	U	0.98	0.265	0.266
AMD002	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0296	pCi/Sample	U	0.315	0.165	0.165
AMD002	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.025	pCi/Sample	U	0.421	0.173	0.173
AMD002	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-49.3	pCi/Sample	U	86.5	49.1	49.1
AMD002	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	17.1	pCi/sample	U	22.9	40.8	41
AMD002	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.52	pCi/Sample		0.467	0.593	0.628
AMD002	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.0336	pCi/Sample	U	0.358	0.187	0.187
AMD002	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	17.1	pCi/sample	U	22.9	40.8	41
AMD002	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.92	pCi/Sample		0.367	0.643	0.69

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

X = See Laboratory report

Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD012	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	0.0604	pCi/sample	U	0.643	0.335	0.336
AMD012	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.442	pCi/sample	U	2.2	0.656	0.657
AMD012	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	0.211	pCi/Sample	U	0.493	0.317	0.318
AMD012	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.147	pCi/Sample	U	0.492	0.291	0.292
AMD012	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	56	pCi/Sample	U	75.5	45.6	45.9
AMD012	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	33	pCi/sample	U	34.1	62.8	63.2
AMD012	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	1.24	pCi/Sample		0.536	0.585	0.612
AMD012	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.038	pCi/Sample	U	0.404	0.211	0.211
AMD012	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.92	pCi/Sample		0.327	0.677	0.726
AMD012	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	33	pCi/sample	U	34.1	62.8	63.2
AMD012	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.0597	pCi/sample	U	1.44	0.68	0.68
AMD012	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.426	pCi/sample	U	1.44	0.411	0.412
AMD012	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.405	pCi/Sample	U	1.57	0.461	0.462
AMD012	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.00749	pCi/Sample	U	1.23	0.555	0.556
AMD012	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	46.3	pCi/Sample	U	58.6	35.5	35.8
AMD012	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	14	pCi/sample	U	54.1	53.1	53.6
AMD012	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	1.81	pCi/Sample		1.15	1.12	1.15
AMD012	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	0.349	pCi/Sample	U	0.523	0.598	0.6
AMD012	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	2.12	pCi/Sample		0.93	1.15	1.19
AMD012	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	14	pCi/sample	U	54.1	53.1	53.6
AMD012	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	0.336	pCi/sample	U	3.58	1.87	1.87
AMD012	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.278	pCi/sample	U	3.13	1.17	1.18
AMD012	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.371	pCi/Sample	U	2.73	0.913	0.919
AMD012	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.159	pCi/Sample	U	2.24	0.889	0.895
AMD012	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-41.5	pCi/Sample	U	85.3	47.6	47.6
AMD012	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	0	pCi/sample	UX	19	19.7	20.5
AMD012	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.6	pCi/Sample		1.07	1.01	1.04
AMD012	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.201	pCi/Sample	U	0.958	0.553	0.553
AMD012	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.41	pCi/Sample		1.02	0.948	0.969
AMD012	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	0	pCi/sample	UX	19	19.7	20.5
AMD012	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.00233	pCi/sample	U	0.383	0.173	0.173
AMD012	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.115	pCi/sample	U	0.921	0.384	0.384
AMD012	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.118	pCi/Sample	U	0.321	0.231	0.232
AMD012	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.174	pCi/Sample	U	0.665	0.224	0.224
AMD012	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-26.6	pCi/Sample	U	79.9	45.8	45.8
AMD012	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	6.19	pCi/sample	U	20.7	11	11.5
AMD012	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.62	pCi/Sample		0.703	0.811	0.854
AMD012	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	-0.106	pCi/Sample	U	0.73	0.246	0.247
AMD012	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	2.44	pCi/Sample		0.547	0.949	1.03
AMD012	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	6.19	pCi/sample	U	20.7	11	11.5

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

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD015	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	0.124	pCi/sample	U	0.924	0.477	0.477
AMD015	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.29	pCi/sample	U	1.77	0.562	0.563
AMD015	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0414	pCi/Sample	U	0.363	0.185	0.186
AMD015	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0248	pCi/Sample	U	0.286	0.11	0.11
AMD015	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	37.8	pCi/Sample	U	66	39.4	39.6
AMD015	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	16.2	pCi/sample	U	23.7	36.2	36.4
AMD015	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	1.96	pCi/Sample		0.507	0.736	0.789
AMD015	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.302	pCi/Sample	U	0.386	0.357	0.359
AMD015	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.66	pCi/Sample		0.481	0.68	0.719
AMD015	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	16.2	pCi/sample	U	23.7	36.2	36.4
AMD015	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	-0.409	pCi/sample	U	1.24	0.345	0.346
AMD015	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.745	pCi/sample	U	2.5	0.934	0.935
AMD015	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.33	pCi/Sample	U	1.28	0.376	0.377
AMD015	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.232	pCi/Sample	U	0.845	0.533	0.534
AMD015	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	47.2	pCi/Sample	U	59.1	35.8	36.1
AMD015	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	8.39	pCi/sample	U	18	19.2	19.3
AMD015	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	0.999	pCi/Sample	U	1.27	0.935	0.949
AMD015	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	-0.125	pCi/Sample	U	1.06	0.378	0.378
AMD015	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	8.39	pCi/sample	U	18	19.2	19.3
AMD015	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	1.52	pCi/Sample		0.985	1.01	1.03
AMD015	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	0.943	pCi/sample	U	2.57	1.85	1.86
AMD015	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.186	pCi/sample	U	2.63	1.04	1.04
AMD015	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0536	pCi/Sample	U	1.88	0.888	0.894
AMD015	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.107	pCi/Sample	U	2.1	0.893	0.899
AMD015	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-31.9	pCi/Sample	U	87.3	49.2	49.2
AMD015	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	-22.1	pCi/sample	U	31.3	37.1	38.7
AMD015	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.88	pCi/Sample		1.15	1.07	1.11
AMD015	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.00594	pCi/Sample	U	0.979	0.441	0.441
AMD015	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.15	pCi/Sample		1.04	0.87	0.885
AMD015	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	-22.1	pCi/sample	U	31.3	37.1	38.7
AMD015	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.124	pCi/sample	U	0.333	0.22	0.22
AMD015	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.191	pCi/sample	U	0.74	0.217	0.217
AMD015	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.00472	pCi/Sample	U	0.476	0.217	0.217
AMD015	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0612	pCi/Sample	U	0.388	0.209	0.209
AMD015	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-16.8	pCi/Sample	U	75.1	43.2	43.2
AMD015	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	16.1	pCi/sample	U	32.9	61.3	61.4
AMD015	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.68	pCi/Sample		0.571	0.713	0.756
AMD015	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.317	pCi/Sample	U	0.404	0.374	0.377
AMD015	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	16.1	pCi/sample	U	32.9	61.3	61.4
AMD015	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	2.27	pCi/Sample		0.529	0.807	0.872

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD57	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	-0.483	pCi/sample	U	1.29	0.404	0.404
AMD57	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.659	pCi/sample	U	2.39	0.643	0.644
AMD57	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0759	pCi/Sample	U	0.444	0.144	0.144
AMD57	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.0177	pCi/Sample	U	0.386	0.185	0.185
AMD57	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	21.3	pCi/Sample	U	63.2	37.1	37.2
AMD57	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	1.29	pCi/sample	U	20.7	12.6	12.7
AMD57	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	2.03	pCi/Sample		0.589	0.8	0.854
AMD57	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.227	pCi/Sample	U	0.499	0.361	0.362
AMD57	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	1.29	pCi/sample	U	20.7	12.6	12.7
AMD57	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.41	pCi/Sample		0.445	0.658	0.688
AMD57	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.00614	pCi/sample	U	1.01	0.455	0.456
AMD57	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.8	pCi/sample	U	2.32	0.739	0.74
AMD57	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.182	pCi/Sample	U	1.06	0.345	0.345
AMD57	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.23	pCi/Sample	U	0.839	0.529	0.53
AMD57	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	14.8	pCi/Sample	U	64.2	37.5	37.6
AMD57	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	-16.9	pCi/sample	U	47.1	42.6	43.5
AMD57	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	1.52	pCi/Sample		1.35	1.16	1.19
AMD57	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	-0.15	pCi/Sample	U	1.27	0.453	0.454
AMD57	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	1.02	pCi/Sample	U	1.11	0.951	0.964
AMD57	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	-16.9	pCi/sample	U	47.1	42.6	43.5
AMD57	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	0.39	pCi/sample	U	4.15	2.16	2.17
AMD57	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.154	pCi/sample	U	2.18	0.863	0.864
AMD57	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.281	pCi/Sample	U	1.87	0.609	0.612
AMD57	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.175	pCi/Sample	U	1.66	0.597	0.6
AMD57	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	0.516	pCi/Sample	U	80.2	46.2	46.2
AMD57	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	22.9	pCi/sample	U	36	41.2	42.9
AMD57	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.23	pCi/Sample	U	1.46	1.07	1.09
AMD57	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	-0.219	pCi/Sample	U	1.28	0.415	0.416
AMD57	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	0.384	pCi/Sample	U	1.28	0.746	0.748
AMD57	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	22.9	pCi/sample	U	36	41.2	42.9
AMD57	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.0161	pCi/sample	U	0.352	0.169	0.169
AMD57	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.17	pCi/sample	U	0.938	0.36	0.36
AMD57	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0563	pCi/Sample	U	0.357	0.192	0.192
AMD57	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.013	pCi/Sample	U	0.259	0.112	0.112
AMD57	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	8.06	pCi/Sample	U	79.5	46.4	46.4
AMD57	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	0	pCi/sample	UX	26	48.7	49.5
AMD57	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.62	pCi/Sample		0.535	0.673	0.713
AMD57	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.0595	pCi/Sample	U	0.375	0.223	0.223
AMD57	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	0	pCi/sample	UX	26	48.7	49.5
AMD57	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.51	pCi/Sample		0.444	0.637	0.671

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD612	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	0.56	pCi/sample	U	1	0.694	0.698
AMD612	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.281	pCi/sample	U	1.88	0.609	0.61
AMD612	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0648	pCi/Sample	U	0.411	0.221	0.222
AMD612	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0274	pCi/Sample	U	0.461	0.189	0.189
AMD612	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	41.9	pCi/Sample	U	74.2	44.3	44.5
AMD612	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	2.28	pCi/sample	U	27.2	47.7	47.7
AMD612	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	1.59	pCi/Sample		0.613	0.682	0.72
AMD612	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	-0.0372	pCi/Sample	U	0.43	0.165	0.165
AMD612	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	2.04	pCi/Sample		0.348	0.719	0.774
AMD612	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	2.28	pCi/sample	U	27.2	47.7	47.7
AMD612	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.349	pCi/sample	U	0.756	0.517	0.519
AMD612	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.477	pCi/sample	U	1.71	0.568	0.568
AMD612	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	0.00528	pCi/Sample	U	0.87	0.392	0.392
AMD612	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.507	pCi/Sample	U	1.34	0.364	0.364
AMD612	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	5.59	pCi/Sample	U	69.1	40	40
AMD612	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	3.74	pCi/sample	U	36.4	39.9	39.9
AMD612	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	0.825	pCi/Sample	U	1.62	1.05	1.06
AMD612	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	-0.204	pCi/Sample	U	1.4	0.473	0.474
AMD612	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	0.868	pCi/Sample	U	1.13	0.911	0.92
AMD612	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	3.74	pCi/sample	U	36.4	39.9	39.9
AMD612	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	-0.67	pCi/sample	U	3.44	1.08	1.08
AMD612	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.211	pCi/sample	U	2.38	0.891	0.893
AMD612	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	0.201	pCi/Sample	U	1.59	0.881	0.883
AMD612	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.476	pCi/Sample	U	1.69	1.08	1.08
AMD612	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	9.08	pCi/Sample	U	81.7	47.4	47.4
AMD612	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	-20.5	pCi/sample	U	30.4	36.1	37.5
AMD612	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.51	pCi/Sample		1.14	0.985	1.01
AMD612	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	-0.071	pCi/Sample	U	0.819	0.314	0.315
AMD612	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.44	pCi/Sample		0.788	0.886	0.909
AMD612	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	-20.5	pCi/sample	U	30.4	36.1	37.5
AMD612	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.0168	pCi/sample	U	0.367	0.176	0.176
AMD612	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.207	pCi/sample	U	0.793	0.267	0.267
AMD612	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.00239	pCi/Sample	U	0.394	0.177	0.177
AMD612	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.129	pCi/Sample	U	0.5	0.147	0.147
AMD612	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-35.2	pCi/Sample	U	78.3	44.6	44.6
AMD612	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	12.1	pCi/sample	U	22.6	38.1	38.2
AMD612	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.73	pCi/Sample		0.498	0.664	0.707
AMD612	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.272	pCi/Sample	U	0.347	0.321	0.323
AMD612	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	3.24	pCi/Sample		0.358	0.869	0.974
AMD612	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	12.1	pCi/sample	U	22.6	38.1	38.2

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD746S	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	1.05	pCi/sample	U	1.18	0.962	0.974
AMD746S	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.257	pCi/sample	U	1.9	0.634	0.635
AMD746S	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0961	pCi/Sample	U	0.443	0.136	0.136
AMD746S	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0663	pCi/Sample	U	0.479	0.18	0.18
AMD746S	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	27.8	pCi/Sample	U	75.4	44.4	44.4
AMD746S	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	4.19	pCi/sample	U	21	12.8	13
AMD746S	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	1.57	pCi/Sample		0.565	0.658	0.694
AMD746S	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.132	pCi/Sample	U	0.36	0.259	0.26
AMD746S	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.67	pCi/Sample		0.336	0.642	0.682
AMD746S	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	4.19	pCi/sample	U	21	12.8	13
AMD746S	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.305	pCi/sample	U	0.986	0.607	0.609
AMD746S	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.072	pCi/sample	U	1.56	0.672	0.673
AMD746S	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0749	pCi/Sample	U	0.798	0.416	0.417
AMD746S	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.104	pCi/Sample	U	0.879	0.313	0.314
AMD746S	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	41.1	pCi/Sample	U	68.3	40.8	41
AMD746S	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	21.2	pCi/sample	U	36.7	54.9	55.1
AMD746S	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	1.31	pCi/Sample		1.2	0.953	0.973
AMD746S	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	-0.141	pCi/Sample	U	0.967	0.327	0.327
AMD746S	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	21.2	pCi/sample	U	36.7	54.9	55.1
AMD746S	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	1.17	pCi/Sample		0.996	0.858	0.872
AMD746S	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	-0.221	pCi/sample	U	4.79	2.06	2.06
AMD746S	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.158	pCi/sample	U	2.24	0.885	0.887
AMD746S	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.177	pCi/Sample	U	2.5	0.989	0.996
AMD746S	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.353	pCi/Sample	U	2.92	1.01	1.02
AMD746S	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-15.2	pCi/Sample	U	84.2	48	48
AMD746S	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	17.7	pCi/sample	U	22.3	18	20.1
AMD746S	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	1.93	pCi/Sample		0.913	1.09	1.13
AMD746S	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.604	pCi/Sample	U	0.951	0.765	0.771
AMD746S	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	17.7	pCi/sample	U	22.3	18	20.1
AMD746S	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.43	pCi/Sample		0.849	0.952	0.975
AMD746S	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.0333	pCi/sample	U	0.354	0.185	0.185
AMD746S	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.151	pCi/sample	U	0.835	0.321	0.321
AMD746S	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.00515	pCi/Sample	U	0.52	0.237	0.237
AMD746S	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0231	pCi/Sample	U	0.625	0.278	0.278
AMD746S	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-17.9	pCi/Sample	U	86.4	49.8	49.8
AMD746S	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	0	pCi/sample	UX	31.1	36.1	40.6
AMD746S	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	2.02	pCi/Sample		0.487	0.699	0.753
AMD746S	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0	pCi/Sample	U	0.211	0.142	0.142
AMD746S	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	0	pCi/sample	UX	31.1	36.1	40.6
AMD746S	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.03	pCi/Sample		0.459	0.517	0.535

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMD746U	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	-0.159	pCi/sample	U	1.09	0.368	0.369
AMD746U	14-Apr-20	Neptunium-237	ASTM-1475-00M	0.257	pCi/sample	U	2.64	1.32	1.32
AMD746U	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0622	pCi/Sample	U	0.393	0.233	0.234
AMD746U	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0786	pCi/Sample	U	0.539	0.182	0.182
AMD746U	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	11.2	pCi/Sample	U	69.6	40.4	40.4
AMD746U	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	-4.32	pCi/sample	U	22	13.8	14
AMD746U	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	0.974	pCi/Sample		0.604	0.585	0.603
AMD746U	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	-0.0425	pCi/Sample	U	0.49	0.188	0.188
AMD746U	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	-4.32	pCi/sample	U	22	13.8	14
AMD746U	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.38	pCi/Sample		0.437	0.646	0.674
AMD746U	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	-0.1	pCi/sample	U	0.852	0.303	0.304
AMD746U	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.821	pCi/sample	U	2.62	0.853	0.853
AMD746U	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	0.195	pCi/Sample	U	1.38	0.717	0.718
AMD746U	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.161	pCi/Sample	U	1.16	0.437	0.437
AMD746U	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	43.4	pCi/Sample	U	66.7	40	40.3
AMD746U	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	-39.3	pCi/sample	U	45.3	42.1	46.7
AMD746U	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	0.778	pCi/Sample	U	1.64	1.04	1.05
AMD746U	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	0.211	pCi/Sample	U	0.632	0.592	0.593
AMD746U	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	-39.3	pCi/sample	U	45.3	42.1	46.7
AMD746U	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	0.811	pCi/Sample	U	0.817	0.826	0.835
AMD746U	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	-1.22	pCi/sample	U	4.75	1.4	1.4
AMD746U	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.206	pCi/sample	U	2.91	1.15	1.16
AMD746U	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.115	pCi/Sample	U	2.25	0.956	0.963
AMD746U	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.515	pCi/Sample	U	3.16	1	1.01
AMD746U	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-3.89	pCi/Sample	U	85.3	49	49
AMD746U	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	5.81	pCi/sample	U	25.5	44.3	44.3
AMD746U	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	0.504	pCi/Sample	U	1.23	0.768	0.774
AMD746U	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.0071	pCi/Sample	U	1.17	0.526	0.527
AMD746U	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	5.81	pCi/sample	U	25.5	44.3	44.3
AMD746U	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	1.58	pCi/Sample		0.946	1.03	1.05
AMD746U	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.113	pCi/sample	U	0.169	0.193	0.193
AMD746U	30-Dec-20	Neptunium-237	ASTM-1475-00M	0.104	pCi/sample	U	0.611	0.326	0.327
AMD746U	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0805	pCi/Sample	U	0.293	0.185	0.185
AMD746U	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0338	pCi/Sample	U	0.473	0.199	0.199
AMD746U	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-35.7	pCi/Sample	U	77	43.9	43.9
AMD746U	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	10.7	pCi/sample	U	33.4	33.5	34
AMD746U	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.51	pCi/Sample		0.479	0.648	0.685
AMD746U	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0	pCi/Sample	U	0.239	0.161	0.161
AMD746U	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	10.7	pCi/sample	U	33.4	33.5	34
AMD746U	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.37	pCi/Sample		0.394	0.61	0.64

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

X = See Laboratory report

Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMDBCP	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	-0.192	pCi/sample	U	1.54	0.643	0.644
AMDBCP	14-Apr-20	Neptunium-237	ASTM-1475-00M	0.0118	pCi/sample	U	1.9	0.847	0.848
AMDBCP	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0115	pCi/Sample	U	0.403	0.173	0.173
AMDBCP	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0138	pCi/Sample	U	0.276	0.119	0.119
AMDBCP	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	4.54	pCi/Sample	U	66.3	38.2	38.2
AMDBCP	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	-5.14	pCi/sample	U	49.8	43	43.1
AMDBCP	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	1.27	pCi/Sample		0.501	0.592	0.619
AMDBCP	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	-0.0182	pCi/Sample	U	0.363	0.157	0.157
AMDBCP	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	2.3	pCi/Sample		0.339	0.751	0.814
AMDBCP	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	-5.14	pCi/sample	U	49.8	43	43.1
AMDBCP	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.0744	pCi/sample	U	0.793	0.414	0.414
AMDBCP	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.45	pCi/sample	U	1.53	0.435	0.435
AMDBCP	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0251	pCi/Sample	U	1.93	0.892	0.893
AMDBCP	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.134	pCi/Sample	U	1.87	0.786	0.787
AMDBCP	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	-12.7	pCi/Sample	U	69.3	39.4	39.4
AMDBCP	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	14.9	pCi/sample	U	17.6	17.1	17.5
AMDBCP	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	2.3	pCi/Sample		1.51	1.5	1.55
AMDBCP	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	0	pCi/Sample	U	0.75	0.504	0.505
AMDBCP	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	14.9	pCi/sample	U	17.6	17.1	17.5
AMDBCP	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	1.67	pCi/Sample		1.23	1.27	1.3
AMDBCP	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	-1.5	pCi/sample	U	5.84	1.71	1.72
AMDBCP	13-Oct-20	Neptunium-237	ASTM-1475-00M	0.735	pCi/sample	U	3.51	2.33	2.33
AMDBCP	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	0.0619	pCi/Sample	U	2.4	1.1	1.11
AMDBCP	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.417	pCi/Sample	U	2.56	0.81	0.815
AMDBCP	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-36.5	pCi/Sample	U	85.9	48.2	48.2
AMDBCP	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	16.3	pCi/sample	U	21.7	37.5	37.7
AMDBCP	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	3.24	pCi/Sample		1.19	1.42	1.5
AMDBCP	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.943	pCi/Sample	U	0.946	0.896	0.907
AMDBCP	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	2.46	pCi/Sample		1.16	1.26	1.31
AMDBCP	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	16.3	pCi/sample	U	21.7	37.5	37.7
AMDBCP	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	0.063	pCi/sample	U	0.189	0.177	0.177
AMDBCP	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.0872	pCi/sample	U	0.913	0.376	0.376
AMDBCP	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	0.003	pCi/Sample	U	0.494	0.222	0.223
AMDBCP	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0	pCi/Sample	U	0.225	0.151	0.151
AMDBCP	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-54.3	pCi/Sample	U	91.3	51.7	51.7
AMDBCP	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	16.5	pCi/sample	U	47.8	46.7	47.5
AMDBCP	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	2.38	pCi/Sample		0.528	0.767	0.835
AMDBCP	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.235	pCi/Sample	U	0.438	0.321	0.323
AMDBCP	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.8	pCi/Sample		0.382	0.656	0.7
AMDBCP	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	16.5	pCi/sample	U	47.8	46.7	47.5

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Table A.2. Ambient Air Data (Continued)

STA_NAME	D_COLLECTED	CHEMICAL_NAME	ANA_METHOD	RESULTS	UNITS	RSLTQUAL	DETECT_LIMIT	RAD_ERR	TPU
AMDNE	14-Apr-20	Americium-241	HASL 300, Am-05-RC M	0.187	pCi/sample	U	0.508	0.367	0.367
AMDNE	14-Apr-20	Neptunium-237	ASTM-1475-00M	-0.0934	pCi/sample	U	2.04	0.843	0.844
AMDNE	14-Apr-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0662	pCi/Sample	U	0.454	0.153	0.154
AMDNE	14-Apr-20	Plutonium-239/240	HASL 300, Pu-11-RC M	0.124	pCi/Sample	U	0.483	0.282	0.282
AMDNE	14-Apr-20	Technetium-99	HASL 300, Tc-02-RC M	6.67	pCi/Sample	U	69.8	40.3	40.3
AMDNE	14-Apr-20	Thorium-234	HASL 300, 4.5.2.3	0	pCi/sample	UX	24	37.2	37.8
AMDNE	14-Apr-20	Uranium-234	HASL 300, U-02-RC M	0.714	pCi/Sample		0.518	0.507	0.519
AMDNE	14-Apr-20	Uranium-235	HASL 300, U-02-RC M	0.0696	pCi/Sample	U	0.439	0.261	0.261
AMDNE	14-Apr-20	Uranium-238	HASL 300, U-02-RC M	1.87	pCi/Sample		0.453	0.758	0.804
AMDNE	14-Apr-20	Uranium-238	HASL 300, 4.5.2.3	0	pCi/sample	UX	24	37.2	37.8
AMDNE	23-Jul-20	Americium-241	HASL 300, Am-05-RC M	0.157	pCi/sample	U	0.995	0.537	0.537
AMDNE	23-Jul-20	Neptunium-237	ASTM-1475-00M	-0.258	pCi/sample	U	1.87	0.701	0.701
AMDNE	23-Jul-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.147	pCi/Sample	U	1.01	0.34	0.341
AMDNE	23-Jul-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0672	pCi/Sample	U	1.13	0.464	0.464
AMDNE	23-Jul-20	Technetium-99	HASL 300, Tc-02-RC M	20.6	pCi/Sample	U	65.5	38.5	38.5
AMDNE	23-Jul-20	Thorium-234	HASL 300, 4.5.2.3	6.04	pCi/sample	U	33.8	37.5	37.6
AMDNE	23-Jul-20	Uranium-234	HASL 300, U-02-RC M	1.92	pCi/Sample		1.27	1.2	1.24
AMDNE	23-Jul-20	Uranium-235	HASL 300, U-02-RC M	0.142	pCi/Sample	U	0.898	0.534	0.534
AMDNE	23-Jul-20	Uranium-238	HASL 300, U-02-RC M	1.56	pCi/Sample		0.925	1.04	1.06
AMDNE	23-Jul-20	Uranium-238	HASL 300, 4.5.2.3	6.04	pCi/sample	U	33.8	37.5	37.6
AMDNE	13-Oct-20	Americium-241	HASL 300, Am-05-RC M	0.633	pCi/sample	U	4.01	2.16	2.17
AMDNE	13-Oct-20	Neptunium-237	ASTM-1475-00M	-0.239	pCi/sample	TU	4.68	1.99	1.99
AMDNE	13-Oct-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.23	pCi/Sample	U	1.9	0.656	0.659
AMDNE	13-Oct-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.0638	pCi/Sample	U	2.17	0.918	0.92
AMDNE	13-Oct-20	Technetium-99	HASL 300, Tc-02-RC M	-52.2	pCi/Sample	U	88.4	49	49
AMDNE	13-Oct-20	Thorium-234	HASL 300, 4.5.2.3	-14.6	pCi/sample	U	30.5	28.8	29.7
AMDNE	13-Oct-20	Uranium-234	HASL 300, U-02-RC M	0.372	pCi/Sample	U	1.41	0.799	0.803
AMDNE	13-Oct-20	Uranium-235	HASL 300, U-02-RC M	0.103	pCi/Sample	U	1.09	0.57	0.571
AMDNE	13-Oct-20	Uranium-238	HASL 300, U-02-RC M	0.926	pCi/Sample	U	1.12	0.904	0.916
AMDNE	13-Oct-20	Uranium-238	HASL 300, 4.5.2.3	-14.6	pCi/sample	U	30.5	28.8	29.7
AMDNE	30-Dec-20	Americium-241	HASL 300, Am-05-RC M	-0.0355	pCi/sample	U	0.497	0.209	0.209
AMDNE	30-Dec-20	Neptunium-237	ASTM-1475-00M	-0.0581	pCi/sample	U	0.662	0.263	0.263
AMDNE	30-Dec-20	Plutonium-238	HASL 300, Pu-11-RC M	-0.0565	pCi/Sample	U	0.388	0.131	0.131
AMDNE	30-Dec-20	Plutonium-239/240	HASL 300, Pu-11-RC M	-0.28	pCi/Sample	U	0.693	0.214	0.214
AMDNE	30-Dec-20	Technetium-99	HASL 300, Tc-02-RC M	-26.7	pCi/Sample	U	84.1	48.2	48.2
AMDNE	30-Dec-20	Thorium-234	HASL 300, 4.5.2.3	1.55	pCi/sample	U	19.5	10.5	10.6
AMDNE	30-Dec-20	Uranium-234	HASL 300, U-02-RC M	1.44	pCi/Sample		0.464	0.621	0.655
AMDNE	30-Dec-20	Uranium-235	HASL 300, U-02-RC M	0.156	pCi/Sample	U	0.504	0.31	0.311
AMDNE	30-Dec-20	Uranium-238	HASL 300, U-02-RC M	1.7	pCi/Sample		0.457	0.668	0.709
AMDNE	30-Dec-20	Uranium-238	HASL 300, 4.5.2.3	1.55	pCi/sample	U	19.5	10.5	10.6

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

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Table A.3. Weekly Flow Data

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
1	20356	Flow-total	AMD002	ft3	02-Jan-20	W01AMD0022-20
1	18327	Flow-total	AMD002	ft3	09-Jan-20	W02AMD0022-20
1	17628	Flow-total	AMD002	ft3	16-Jan-20	W03AMD0022-20
1	20141	Flow-total	AMD002	ft3	23-Jan-20	W04AMD0022-20
1	19280	Flow-total	AMD002	ft3	30-Jan-20	W05AMD0022-20
1	18991	Flow-total	AMD002	ft3	06-Feb-20	W06AMD0022-20
1	19154	Flow-total	AMD002	ft3	13-Feb-20	W07AMD0022-20
1	19993	Flow-total	AMD002	ft3	20-Feb-20	W08AMD0022-20
1	19828	Flow-total	AMD002	ft3	27-Feb-20	W09AMD0022-20
1	20051	Flow-total	AMD002	ft3	05-Mar-20	W10AMD0022-20
1	19986	Flow-total	AMD002	ft3	12-Mar-20	W11AMD0022-20
1	20205	Flow-total	AMD002	ft3	19-Mar-20	W12AMD0022-20
1	20059	Flow-total	AMD002	ft3	26-Mar-20	W13AMD0022-20
1	20416	Flow-total	AMD012	ft3	02-Jan-20	W01AMD0122-20
1	19962	Flow-total	AMD012	ft3	09-Jan-20	W02AMD0122-20
1	20045	Flow-total	AMD012	ft3	16-Jan-20	W03AMD0122-20
1	20196	Flow-total	AMD012	ft3	23-Jan-20	W04AMD0122-20
1	20138	Flow-total	AMD012	ft3	30-Jan-20	W05AMD0122-20
1	20065.4	Flow-total	AMD012	ft3	06-Feb-20	W06AMD0122-20
1	20023	Flow-total	AMD012	ft3	13-Feb-20	W07AMD0122-20
1	20043	Flow-total	AMD012	ft3	20-Feb-20	W08AMD0122-20
1	20232	Flow-total	AMD012	ft3	27-Feb-20	W09AMD0122-20
1	20110	Flow-total	AMD012	ft3	05-Mar-20	W10AMD0122-20
1	20115.7	Flow-total	AMD012	ft3	12-Mar-20	W11AMD0122-20
1	20266	Flow-total	AMD012	ft3	19-Mar-20	W12AMD0122-20
1	20139	Flow-total	AMD012	ft3	26-Mar-20	W13AMD0122-20
1	20389	Flow-total	AMD015	ft3	02-Jan-20	W01AMD0152-20
1	19902	Flow-total	AMD015	ft3	09-Jan-20	W02AMD0152-20
1	19979	Flow-total	AMD015	ft3	16-Jan-20	W03AMD0152-20
1	20134	Flow-total	AMD015	ft3	23-Jan-20	W04AMD0152-20
1	20155	Flow-total	AMD015	ft3	30-Jan-20	W05AMD0152-20
1	19882	Flow-total	AMD015	ft3	06-Feb-20	W06AMD0152-20
1	20089	Flow-total	AMD015	ft3	13-Feb-20	W07AMD0152-20
1	20060	Flow-total	AMD015	ft3	20-Feb-20	W08AMD0152-20
1	20184	Flow-total	AMD015	ft3	27-Feb-20	W09AMD0152-20
1	20047	Flow-total	AMD015	ft3	05-Mar-20	W10AMD0152-20
1	20067	Flow-total	AMD015	ft3	12-Mar-20	W11AMD0152-20
1	20174	Flow-total	AMD015	ft3	19-Mar-20	W12AMD0152-20
1	20163	Flow-total	AMD015	ft3	26-Mar-20	W13AMD0152-20
1	20362	Flow-total	AMD57	ft3	02-Jan-20	W01AMD572-20
1	19902	Flow-total	AMD57	ft3	09-Jan-20	W02AMD572-20
1	19986	Flow-total	AMD57	ft3	16-Jan-20	W03AMD572-20
1	20139	Flow-total	AMD57	ft3	23-Jan-20	W04AMD572-20
1	20176	Flow-total	AMD57	ft3	30-Jan-20	W05AMD572-20
1	20011	Flow-total	AMD57	ft3	06-Feb-20	W06AMD572-20
1	20097	Flow-total	AMD57	ft3	13-Feb-20	W07AMD572-20
1	20061	Flow-total	AMD57	ft3	20-Feb-20	W08AMD572-20
1	20170	Flow-total	AMD57	ft3	27-Feb-20	W09AMD572-20
1	20052	Flow-total	AMD57	ft3	05-Mar-20	W10AMD572-20
1	20058	Flow-total	AMD57	ft3	12-Mar-20	W11AMD572-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
1	20208	Flow-total	AMD57	ft3	19-Mar-20	W12AMD572-20
1	0*	Flow-total	AMD57	ft3	26-Mar-20	W13AMD572-20
1	20369	Flow-total	AMD612	ft3	02-Jan-20	W01AMD6122-20
1	19904	Flow-total	AMD612	ft3	09-Jan-20	W02AMD6122-20
1	19985	Flow-total	AMD612	ft3	16-Jan-20	W03AMD6122-20
1	20147	Flow-total	AMD612	ft3	23-Jan-20	W04AMD6122-20
1	20184	Flow-total	AMD612	ft3	30-Jan-20	W05AMD6122-20
1	20016	Flow-total	AMD612	ft3	06-Feb-20	W06AMD6122-20
1	20082	Flow-total	AMD612	ft3	13-Feb-20	W07AMD6122-20
1	20064	Flow-total	AMD612	ft3	20-Feb-20	W08AMD6122-20
1	20169	Flow-total	AMD612	ft3	27-Feb-20	W09AMD6122-20
1	20065	Flow-total	AMD612	ft3	05-Mar-20	W10AMD6122-20
1	20065	Flow-total	AMD612	ft3	12-Mar-20	W11AMD6122-20
1	20162	Flow-total	AMD612	ft3	19-Mar-20	W12AMD6122-20
1	21208	Flow-total	AMD612	ft3	26-Mar-20	W13AMD6122-20
1	0*	Flow-total	AMD746S	ft3	02-Jan-20	W01AMD746S2-20
1	16667	Flow-total	AMD746S	ft3	09-Jan-20	W02AMD746S2-20
1	20017	Flow-total	AMD746S	ft3	16-Jan-20	W03AMD746S2-20
1	20221	Flow-total	AMD746S	ft3	23-Jan-20	W04AMD746S2-20
1	20243	Flow-total	AMD746S	ft3	30-Jan-20	W05AMD746S2-20
1	20042	Flow-total	AMD746S	ft3	06-Feb-20	W06AMD746S2-20
1	20213	Flow-total	AMD746S	ft3	13-Feb-20	W07AMD746S2-20
1	20110	Flow-total	AMD746S	ft3	20-Feb-20	W08AMD746S2-20
1	20193	Flow-total	AMD746S	ft3	27-Feb-20	W09AMD746S2-20
1	20117	Flow-total	AMD746S	ft3	05-Mar-20	W10AMD746S2-20
1	20072	Flow-total	AMD746S	ft3	12-Mar-20	W11AMD746S2-20
1	20268	Flow-total	AMD746S	ft3	19-Mar-20	W12AMD746S2-20
1	20052	Flow-total	AMD746S	ft3	26-Mar-20	W13AMD746S2-20
1	19239	Flow-total	AMD746U	ft3	02-Jan-20	W01AMD746U2-20
1	17763	Flow-total	AMD746U	ft3	09-Jan-20	W02AMD746U2-20
1	17531	Flow-total	AMD746U	ft3	16-Jan-20	W03AMD746U2-20
1	20167	Flow-total	AMD746U	ft3	23-Jan-20	W04AMD746U2-20
1	19634	Flow-total	AMD746U	ft3	30-Jan-20	W05AMD746U2-20
1	20003	Flow-total	AMD746U	ft3	06-Feb-20	W06AMD746U2-20
1	20159	Flow-total	AMD746U	ft3	13-Feb-20	W07AMD746U2-20
1	20065	Flow-total	AMD746U	ft3	20-Feb-20	W08AMD746U2-20
1	20132	Flow-total	AMD746U	ft3	27-Feb-20	W09AMD746U2-20
1	20059	Flow-total	AMD746U	ft3	05-Mar-20	W10AMD746U2-20
1	19888	Flow-total	AMD746U	ft3	12-Mar-20	W11AMD746U2-20
1	20195	Flow-total	AMD746U	ft3	19-Mar-20	W12AMD746U2-20
1	20000	Flow-total	AMD746U	ft3	26-Mar-20	W13AMD746U2-20
1	20357	Flow-total	AMDBCP	ft3	02-Jan-20	W01AMDBCP2-20
1	20036	Flow-total	AMDBCP	ft3	09-Jan-20	W02AMDBCP2-20
1	19997	Flow-total	AMDBCP	ft3	16-Jan-20	W03AMDBCP2-20
1	20097	Flow-total	AMDBCP	ft3	23-Jan-20	W04AMDBCP2-20
1	20191	Flow-total	AMDBCP	ft3	30-Jan-20	W05AMDBCP2-20
1	19983	Flow-total	AMDBCP	ft3	06-Feb-20	W06AMDBCP2-20
1	19989	Flow-total	AMDBCP	ft3	13-Feb-20	W07AMDBCP2-20
1	20107	Flow-total	AMDBCP	ft3	20-Feb-20	W08AMDBCP2-20
1	20255	Flow-total	AMDBCP	ft3	27-Feb-20	W09AMDBCP2-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
1	20061	Flow-total	AMDBCP	ft3	05-Mar-20	W10AMDBCP2-20
1	20019	Flow-total	AMDBCP	ft3	12-Mar-20	W11AMDBCP2-20
1	20213	Flow-total	AMDBCP	ft3	19-Mar-20	W12AMDBCP2-20
1	19853	Flow-total	AMDBCP	ft3	26-Mar-20	W13AMDBCP2-20
1	20316	Flow-total	AMDNE	ft3	02-Jan-20	W01AMDNE2-20
1	19929	Flow-total	AMDNE	ft3	09-Jan-20	W02AMDNE2-20
1	19953	Flow-total	AMDNE	ft3	16-Jan-20	W03AMDNE2-20
1	20096	Flow-total	AMDNE	ft3	23-Jan-20	W04AMDNE2-20
1	20186	Flow-total	AMDNE	ft3	30-Jan-20	W05AMDNE2-20
1	20014	Flow-total	AMDNE	ft3	06-Feb-20	W06AMDNE2-20
1	20215	Flow-total	AMDNE	ft3	13-Feb-20	W07AMDNE2-20
1	19931	Flow-total	AMDNE	ft3	20-Feb-20	W08AMDNE2-20
1	20071	Flow-total	AMDNE	ft3	27-Feb-20	W09AMDNE2-20
1	20060	Flow-total	AMDNE	ft3	05-Mar-20	W10AMDNE2-20
1	20083	Flow-total	AMDNE	ft3	12-Mar-20	W11AMDNE2-20
1	20216	Flow-total	AMDNE	ft3	19-Mar-20	W12AMDNE2-20
1	19945	Flow-total	AMDNE	ft3	26-Mar-20	W13AMDNE2-20
2	20042	Flow-total	AMD002	ft3	02-Apr-20	W01AMD0023-20
2	17167	Flow-total	AMD002	ft3	08-Apr-20	W02AMD0023-20
2	22878	Flow-total	AMD002	ft3	16-Apr-20	W03AMD0023-20
2	20044	Flow-total	AMD002	ft3	23-Apr-20	W04AMD0023-20
2	20178	Flow-total	AMD002	ft3	30-Apr-20	W05AMD0023-20
2	20226	Flow-total	AMD002	ft3	07-May-20	W06AMD0023-20
2	19948	Flow-total	AMD002	ft3	14-May-20	W07AMD0023-20
2	20114	Flow-total	AMD002	ft3	21-May-20	W08AMD0023-20
2	20118	Flow-total	AMD002	ft3	28-May-20	W09AMD0023-20
2	20060	Flow-total	AMD002	ft3	04-Jun-20	W10AMD0023-20
2	20184	Flow-total	AMD002	ft3	11-Jun-20	W11AMD0023-20
2	20408	Flow-total	AMD002	ft3	18-Jun-20	W12AMD0023-20
2	19791	Flow-total	AMD002	ft3	25-Jun-20	W13AMD0023-20
2	20088	Flow-total	AMD012	ft3	02-Apr-20	W01AMD0123-20
2	12715	Flow-total	AMD012	ft3	08-Apr-20	W02AMD0123-20
2	22347	Flow-total	AMD012	ft3	16-Apr-20	W03AMD0123-20
2	20105	Flow-total	AMD012	ft3	23-Apr-20	W04AMD0123-20
2	20238	Flow-total	AMD012	ft3	30-Apr-20	W05AMD0123-20
2	20281	Flow-total	AMD012	ft3	07-May-20	W06AMD0123-20
2	20131	Flow-total	AMD012	ft3	14-May-20	W07AMD0123-20
2	19875	Flow-total	AMD012	ft3	21-May-20	W08AMD0123-20
2	20175	Flow-total	AMD012	ft3	28-May-20	W09AMD0123-20
2	20117	Flow-total	AMD012	ft3	04-Jun-20	W10AMD0123-20
2	20243	Flow-total	AMD012	ft3	11-Jun-20	W11AMD0123-20
2	20463	Flow-total	AMD012	ft3	18-Jun-20	W12AMD0123-20
2	19845	Flow-total	AMD012	ft3	25-Jun-20	W13AMD0123-20
2	19972	Flow-total	AMD015	ft3	02-Apr-20	W01AMD0153-20
2	17159	Flow-total	AMD015	ft3	08-Apr-20	W02AMD0153-20
2	22886	Flow-total	AMD015	ft3	16-Apr-20	W03AMD0153-20
2	20237	Flow-total	AMD015	ft3	23-Apr-20	W04AMD0153-20
2	19497	Flow-total	AMD015	ft3	30-Apr-20	W05AMD0153-20
2	20223	Flow-total	AMD015	ft3	07-May-20	W06AMD0153-20
2	19957	Flow-total	AMD015	ft3	14-May-20	W07AMD0153-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
2	20113	Flow-total	AMD015	ft3	21-May-20	W08AMD0153-20
2	20123	Flow-total	AMD015	ft3	28-May-20	W09AMD0153-20
2	20060	Flow-total	AMD015	ft3	04-Jun-20	W10AMD0153-20
2	20188	Flow-total	AMD015	ft3	11-Jun-20	W11AMD0153-20
2	20408	Flow-total	AMD015	ft3	18-Jun-20	W12AMD0153-20
2	19789	Flow-total	AMD015	ft3	25-Jun-20	W13AMD0153-20
2	3035	Flow-total	AMD57	ft3	02-Apr-20	W01AMD573-20
2	11769	Flow-total	AMD57	ft3	08-Apr-20	W02AMD573-20
2	22893	Flow-total	AMD57	ft3	16-Apr-20	W03AMD573-20
2	20057	Flow-total	AMD57	ft3	23-Apr-20	W04AMD573-20
2	20191	Flow-total	AMD57	ft3	30-Apr-20	W05AMD573-20
2	20232	Flow-total	AMD57	ft3	07-May-20	W06AMD573-20
2	19965	Flow-total	AMD57	ft3	14-May-20	W07AMD573-20
2	20123	Flow-total	AMD57	ft3	21-May-20	W08AMD573-20
2	20127	Flow-total	AMD57	ft3	28-May-20	W09AMD573-20
2	20066	Flow-total	AMD57	ft3	04-Jun-20	W10AMD573-20
2	20197	Flow-total	AMD57	ft3	11-Jun-20	W11AMD573-20
2	20410	Flow-total	AMD57	ft3	18-Jun-20	W12AMD573-20
2	19796	Flow-total	AMD57	ft3	25-Jun-20	W13AMD573-20
2	20907	Flow-total	AMD612	ft3	02-Apr-20	W01AMD6123-20
2	18024	Flow-total	AMD612	ft3	08-Apr-20	W02AMD6123-20
2	24026	Flow-total	AMD612	ft3	16-Apr-20	W03AMD6123-20
2	5453	Flow-total	AMD612	ft3	23-Apr-20	W04AMD6123-20
2	19968	Flow-total	AMD612	ft3	30-Apr-20	W05AMD6123-20
2	20239	Flow-total	AMD612	ft3	07-May-20	W06AMD6123-20
2	19964	Flow-total	AMD612	ft3	14-May-20	W07AMD6123-20
2	20105	Flow-total	AMD612	ft3	21-May-20	W08AMD6123-20
2	20118	Flow-total	AMD612	ft3	28-May-20	W09AMD6123-20
2	20052	Flow-total	AMD612	ft3	04-Jun-20	W10AMD6123-20
2	20180	Flow-total	AMD612	ft3	11-Jun-20	W11AMD6123-20
2	20406	Flow-total	AMD612	ft3	18-Jun-20	W12AMD6123-20
2	19778	Flow-total	AMD612	ft3	25-Jun-20	W13AMD6123-20
2	20147	Flow-total	AMD746S	ft3	02-Apr-20	W01AMD746S3-20
2	17229	Flow-total	AMD746S	ft3	08-Apr-20	W02AMD746S3-20
2	22946	Flow-total	AMD746S	ft3	16-Apr-20	W03AMD746S3-20
2	20100	Flow-total	AMD746S	ft3	23-Apr-20	W04AMD746S3-20
2	20233	Flow-total	AMD746S	ft3	30-Apr-20	W05AMD746S3-20
2	20302	Flow-total	AMD746S	ft3	07-May-20	W06AMD746S3-20
2	20038	Flow-total	AMD746S	ft3	14-May-20	W07AMD746S3-20
2	20061	Flow-total	AMD746S	ft3	21-May-20	W08AMD746S3-20
2	20167	Flow-total	AMD746S	ft3	28-May-20	W09AMD746S3-20
2	20117	Flow-total	AMD746S	ft3	04-Jun-20	W10AMD746S3-20
2	20399	Flow-total	AMD746S	ft3	11-Jun-20	W11AMD746S3-20
2	20311	Flow-total	AMD746S	ft3	18-Jun-20	W12AMD746S3-20
2	19869	Flow-total	AMD746S	ft3	25-Jun-20	W13AMD746S3-20
2	20102	Flow-total	AMD746U	ft3	02-Apr-20	W01AMD746U3-20
2	17183	Flow-total	AMD746U	ft3	08-Apr-20	W02AMD746U3-20
2	22866	Flow-total	AMD746U	ft3	16-Apr-20	W03AMD746U3-20
2	20050	Flow-total	AMD746U	ft3	23-Apr-20	W04AMD746U3-20
2	20180	Flow-total	AMD746U	ft3	30-Apr-20	W05AMD746U3-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
2	20229	Flow-total	AMD746U	ft3	07-May-20	W06AMD746U3-20
2	20058	Flow-total	AMD746U	ft3	14-May-20	W07AMD746U3-20
2	20005	Flow-total	AMD746U	ft3	21-May-20	W08AMD746U3-20
2	20123	Flow-total	AMD746U	ft3	28-May-20	W09AMD746U3-20
2	20060	Flow-total	AMD746U	ft3	04-Jun-20	W10AMD746U3-20
2	20364	Flow-total	AMD746U	ft3	11-Jun-20	W11AMD746U3-20
2	20230	Flow-total	AMD746U	ft3	18-Jun-20	W12AMD746U3-20
2	19809	Flow-total	AMD746U	ft3	25-Jun-20	W13AMD746U3-20
2	20212	Flow-total	AMDBCP	ft3	02-Apr-20	W01AMDBCP3-20
2	17194	Flow-total	AMDBCP	ft3	08-Apr-20	W02AMDBCP3-20
2	22883	Flow-total	AMDBCP	ft3	16-Apr-20	W03AMDBCP3-20
2	20044	Flow-total	AMDBCP	ft3	23-Apr-20	W04AMDBCP3-20
2	20173	Flow-total	AMDBCP	ft3	30-Apr-20	W05AMDBCP3-20
2	20318	Flow-total	AMDBCP	ft3	07-May-20	W06AMDBCP3-20
2	19820	Flow-total	AMDBCP	ft3	14-May-20	W07AMDBCP3-20
2	20175	Flow-total	AMDBCP	ft3	21-May-20	W08AMDBCP3-20
2	20100	Flow-total	AMDBCP	ft3	28-May-20	W09AMDBCP3-20
2	20059	Flow-total	AMDBCP	ft3	04-Jun-20	W10AMDBCP3-20
2	20174	Flow-total	AMDBCP	ft3	11-Jun-20	W11AMDBCP3-20
2	20469	Flow-total	AMDBCP	ft3	18-Jun-20	W12AMDBCP3-20
2	19774	Flow-total	AMDBCP	ft3	25-Jun-20	W13AMDBCP3-20
2	20139	Flow-total	AMDNE	ft3	02-Apr-20	W01AMDNE3-20
2	17187	Flow-total	AMDNE	ft3	08-Apr-20	W02AMDNE3-20
2	22890	Flow-total	AMDNE	ft3	16-Apr-20	W03AMDNE3-20
2	20047	Flow-total	AMDNE	ft3	23-Apr-20	W04AMDNE3-20
2	20180	Flow-total	AMDNE	ft3	30-Apr-20	W05AMDNE3-20
2	20319	Flow-total	AMDNE	ft3	07-May-20	W06AMDNE3-20
2	20117	Flow-total	AMDNE	ft3	14-May-20	W07AMDNE3-20
2	20074	Flow-total	AMDNE	ft3	21-May-20	W08AMDNE3-20
2	20116	Flow-total	AMDNE	ft3	28-May-20	W09AMDNE3-20
2	20067	Flow-total	AMDNE	ft3	04-Jun-20	W10AMDNE3-20
2	20260	Flow-total	AMDNE	ft3	11-Jun-20	W11AMDNE3-20
2	20362	Flow-total	AMDNE	ft3	18-Jun-20	W12AMDNE3-20
2	19807	Flow-total	AMDNE	ft3	25-Jun-20	W13AMDNE3-20
3	20162	Flow-total	AMD002	ft3	02-Jul-20	W01AMD0024-20
3	20086	Flow-total	AMD002	ft3	09-Jul-20	W02AMD0024-20
3	20039	Flow-total	AMD002	ft3	16-Jul-20	W03AMD0024-20
3	20114	Flow-total	AMD002	ft3	23-Jul-20	W04AMD0024-20
3	20161	Flow-total	AMD002	ft3	30-Jul-20	W05AMD0024-20
3	20611	Flow-total	AMD002	ft3	06-Aug-20	W06AMD0024-20
3	19550	Flow-total	AMD002	ft3	13-Aug-20	W07AMD0024-20
3	20085	Flow-total	AMD002	ft3	20-Aug-20	W08AMD0024-20
3	20082	Flow-total	AMD002	ft3	27-Aug-20	W09AMD0024-20
3	20086	Flow-total	AMD002	ft3	03-Sep-20	W10AMD0024-20
3	20209	Flow-total	AMD002	ft3	10-Sep-20	W11AMD0024-20
3	20204	Flow-total	AMD002	ft3	17-Sep-20	W12AMD0024-20
3	19897	Flow-total	AMD002	ft3	24-Sep-20	W13AMD0024-20
3	20248	Flow-total	AMD012	ft3	02-Jul-20	W01AMD0124-20
3	20147	Flow-total	AMD012	ft3	09-Jul-20	W02AMD0124-20
3	20074	Flow-total	AMD012	ft3	16-Jul-20	W03AMD0124-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
3	20165	Flow-total	AMD012	ft3	23-Jul-20	W04AMD0124-20
3	20229	Flow-total	AMD012	ft3	30-Jul-20	W05AMD0124-20
3	20633	Flow-total	AMD012	ft3	06-Aug-20	W06AMD0124-20
3	19617	Flow-total	AMD012	ft3	13-Aug-20	W07AMD0124-20
3	20149	Flow-total	AMD012	ft3	20-Aug-20	W08AMD0124-20
3	20142	Flow-total	AMD012	ft3	27-Aug-20	W09AMD0124-20
3	20144	Flow-total	AMD012	ft3	03-Sep-20	W10AMD0124-20
3	20273	Flow-total	AMD012	ft3	10-Sep-20	W11AMD0124-20
3	20264	Flow-total	AMD012	ft3	17-Sep-20	W12AMD0124-20
3	19960	Flow-total	AMD012	ft3	24-Sep-20	W13AMD0124-20
3	20071	Flow-total	AMD015	ft3	02-Jul-20	W01AMD0154-20
3	20108	Flow-total	AMD015	ft3	09-Jul-20	W02AMD0154-20
3	20130	Flow-total	AMD015	ft3	16-Jul-20	W03AMD0154-20
3	20103	Flow-total	AMD015	ft3	23-Jul-20	W04AMD0154-20
3	20177	Flow-total	AMD015	ft3	30-Jul-20	W05AMD0154-20
3	20609	Flow-total	AMD015	ft3	06-Aug-20	W06AMD0154-20
3	19555	Flow-total	AMD015	ft3	13-Aug-20	W07AMD0154-20
3	20100	Flow-total	AMD015	ft3	20-Aug-20	W08AMD0154-20
3	20087	Flow-total	AMD015	ft3	27-Aug-20	W09AMD0154-20
3	20082	Flow-total	AMD015	ft3	03-Sep-20	W10AMD0154-20
3	20215	Flow-total	AMD015	ft3	10-Sep-20	W11AMD0154-20
3	20205	Flow-total	AMD015	ft3	17-Sep-20	W12AMD0154-20
3	19885	Flow-total	AMD015	ft3	24-Sep-20	W13AMD0154-20
3	20074	Flow-total	AMD57	ft3	02-Jul-20	W01AMD574-20
3	20133	Flow-total	AMD57	ft3	09-Jul-20	W02AMD574-20
3	20120	Flow-total	AMD57	ft3	16-Jul-20	W03AMD574-20
3	20120	Flow-total	AMD57	ft3	23-Jul-20	W04AMD574-20
3	20184	Flow-total	AMD57	ft3	30-Jul-20	W05AMD574-20
3	20626	Flow-total	AMD57	ft3	06-Aug-20	W06AMD574-20
3	19568	Flow-total	AMD57	ft3	13-Aug-20	W07AMD574-20
3	20108	Flow-total	AMD57	ft3	20-Aug-20	W08AMD574-20
3	20097	Flow-total	AMD57	ft3	27-Aug-20	W09AMD574-20
3	20096	Flow-total	AMD57	ft3	03-Sep-20	W10AMD574-20
3	20228	Flow-total	AMD57	ft3	10-Sep-20	W11AMD574-20
3	20209	Flow-total	AMD57	ft3	17-Sep-20	W12AMD574-20
3	19869	Flow-total	AMD57	ft3	24-Sep-20	W13AMD574-20
3	20065	Flow-total	AMD612	ft3	02-Jul-20	W01AMD6124-20
3	20101	Flow-total	AMD612	ft3	09-Jul-20	W02AMD6124-20
3	20113	Flow-total	AMD612	ft3	16-Jul-20	W03AMD6124-20
3	20097	Flow-total	AMD612	ft3	23-Jul-20	W04AMD6124-20
3	20191	Flow-total	AMD612	ft3	30-Jul-20	W05AMD6124-20
3	20599	Flow-total	AMD612	ft3	06-Aug-20	W06AMD6124-20
3	19560	Flow-total	AMD612	ft3	13-Aug-20	W07AMD6124-20
3	20098	Flow-total	AMD612	ft3	20-Aug-20	W08AMD6124-20
3	20090	Flow-total	AMD612	ft3	27-Aug-20	W09AMD6124-20
3	20067	Flow-total	AMD612	ft3	03-Sep-20	W10AMD6124-20
3	20225	Flow-total	AMD612	ft3	10-Sep-20	W11AMD6124-20
3	20217	Flow-total	AMD612	ft3	17-Sep-20	W12AMD6124-20
3	19883	Flow-total	AMD612	ft3	24-Sep-20	W13AMD6124-20
3	20136	Flow-total	AMD746S	ft3	02-Jul-20	W01AMD746S4-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
3	20275	Flow-total	AMD746S	ft3	09-Jul-20	W02AMD746S4-20
3	20061	Flow-total	AMD746S	ft3	16-Jul-20	W03AMD746S4-20
3	20163	Flow-total	AMD746S	ft3	23-Jul-20	W04AMD746S4-20
3	20149	Flow-total	AMD746S	ft3	30-Jul-20	W05AMD746S4-20
3	20764	Flow-total	AMD746S	ft3	06-Aug-20	W06AMD746S4-20
3	19523	Flow-total	AMD746S	ft3	13-Aug-20	W07AMD746S4-20
3	20250	Flow-total	AMD746S	ft3	20-Aug-20	W08AMD746S4-20
3	20100	Flow-total	AMD746S	ft3	27-Aug-20	W09AMD746S4-20
3	20083	Flow-total	AMD746S	ft3	03-Sep-20	W10AMD746S4-20
3	20351	Flow-total	AMD746S	ft3	10-Sep-20	W11AMD746S4-20
3	20176	Flow-total	AMD746S	ft3	17-Sep-20	W12AMD746S4-20
3	20038	Flow-total	AMD746S	ft3	24-Sep-20	W13AMD746S4-20
3	20099	Flow-total	AMD746U	ft3	02-Jul-20	W01AMD746U4-20
3	20213	Flow-total	AMD746U	ft3	09-Jul-20	W02AMD746U4-20
3	19986	Flow-total	AMD746U	ft3	16-Jul-20	W03AMD746U4-20
3	20105	Flow-total	AMD746U	ft3	23-Jul-20	W04AMD746U4-20
3	20156	Flow-total	AMD746U	ft3	30-Jul-20	W05AMD746U4-20
3	20705	Flow-total	AMD746U	ft3	06-Aug-20	W06AMD746U4-20
3	19463	Flow-total	AMD746U	ft3	13-Aug-20	W07AMD746U4-20
3	20203	Flow-total	AMD746U	ft3	20-Aug-20	W08AMD746U4-20
3	19982	Flow-total	AMD746U	ft3	27-Aug-20	W09AMD746U4-20
3	20090	Flow-total	AMD746U	ft3	03-Sep-20	W10AMD746U4-20
3	20274	Flow-total	AMD746U	ft3	10-Sep-20	W11AMD746U4-20
3	20146	Flow-total	AMD746U	ft3	17-Sep-20	W12AMD746U4-20
3	19982	Flow-total	AMD746U	ft3	24-Sep-20	W13AMD746U4-20
3	19943	Flow-total	AMDBCP	ft3	02-Jul-20	W01AMDBCP4-20
3	20120	Flow-total	AMDBCP	ft3	09-Jul-20	W02AMDBCP4-20
3	20247	Flow-total	AMDBCP	ft3	16-Jul-20	W03AMDBCP4-20
3	20105	Flow-total	AMDBCP	ft3	23-Jul-20	W04AMDBCP4-20
3	20115	Flow-total	AMDBCP	ft3	30-Jul-20	W05AMDBCP4-20
3	20567	Flow-total	AMDBCP	ft3	06-Aug-20	W06AMDBCP4-20
3	19603	Flow-total	AMDBCP	ft3	13-Aug-20	W07AMDBCP4-20
3	20032	Flow-total	AMDBCP	ft3	20-Aug-20	W08AMDBCP4-20
3	20201	Flow-total	AMDBCP	ft3	27-Aug-20	W09AMDBCP4-20
3	20029	Flow-total	AMDBCP	ft3	03-Sep-20	W10AMDBCP4-20
3	20147	Flow-total	AMDBCP	ft3	10-Sep-20	W11AMDBCP4-20
3	20152	Flow-total	AMDBCP	ft3	17-Sep-20	W12AMDBCP4-20
3	19796	Flow-total	AMDBCP	ft3	24-Sep-20	W13AMDBCP4-20
3	20029	Flow-total	AMDNE	ft3	02-Jul-20	W01AMDNE4-20
3	20217	Flow-total	AMDNE	ft3	09-Jul-20	W02AMDNE4-20
3	20073	Flow-total	AMDNE	ft3	16-Jul-20	W03AMDNE4-20
3	20114	Flow-total	AMDNE	ft3	23-Jul-20	W04AMDNE4-20
3	20129	Flow-total	AMDNE	ft3	30-Jul-20	W05AMDNE4-20
3	20714	Flow-total	AMDNE	ft3	06-Aug-20	W06AMDNE4-20
3	19481	Flow-total	AMDNE	ft3	13-Aug-20	W07AMDNE4-20
3	20195	Flow-total	AMDNE	ft3	20-Aug-20	W08AMDNE4-20
3	20053	Flow-total	AMDNE	ft3	27-Aug-20	W09AMDNE4-20
3	20035	Flow-total	AMDNE	ft3	03-Sep-20	W10AMDNE4-20
3	20313	Flow-total	AMDNE	ft3	10-Sep-20	W11AMDNE4-20
3	20115	Flow-total	AMDNE	ft3	17-Sep-20	W12AMDNE4-20

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
3	19957	Flow-total	AMDNE	ft3	24-Sep-20	W13AMDNE4-20
4	20125	Flow-total	AMD002	ft3	01-Oct-20	W01AMD0021-21
4	20189	Flow-total	AMD002	ft3	08-Oct-20	W02AMD0021-21
4	20058	Flow-total	AMD002	ft3	15-Oct-20	W03AMD0021-21
4	20267	Flow-total	AMD002	ft3	22-Oct-20	W04AMD0021-21
4	19906	Flow-total	AMD002	ft3	29-Oct-20	W05AMD0021-21
4	20127	Flow-total	AMD002	ft3	05-Nov-20	W06AMD0021-21
4	20115	Flow-total	AMD002	ft3	12-Nov-20	W07AMD0021-21
4	20070	Flow-total	AMD002	ft3	19-Nov-20	W08AMD0021-21
4	14406	Flow-total	AMD002	ft3	24-Nov-20	W09AMD0021-21
4	20864	Flow-total	AMD002	ft3	01-Dec-20	W10AMD0021-21
4	25110	Flow-total	AMD002	ft3	10-Dec-20	W11AMD0021-21
4	20167	Flow-total	AMD002	ft3	17-Dec-20	W12AMD0021-21
4	14297	Flow-total	AMD002	ft3	22-Dec-20	W13AMD0021-21
4	23026	Flow-total	AMD002	ft3	30-Dec-20	W14AMD0021-21
4	20185	Flow-total	AMD012	ft3	01-Oct-20	W01AMD0121-21
4	20156	Flow-total	AMD012	ft3	08-Oct-20	W02AMD0121-21
4	20217	Flow-total	AMD012	ft3	15-Oct-20	W03AMD0121-21
4	20349	Flow-total	AMD012	ft3	22-Oct-20	W04AMD0121-21
4	19969	Flow-total	AMD012	ft3	29-Oct-20	W05AMD0121-21
4	20201	Flow-total	AMD012	ft3	05-Nov-20	W06AMD0121-21
4	20176	Flow-total	AMD012	ft3	12-Nov-20	W07AMD0121-21
4	20122	Flow-total	AMD012	ft3	19-Nov-20	W08AMD0121-21
4	14446	Flow-total	AMD012	ft3	24-Nov-20	W09AMD0121-21
4	20327	Flow-total	AMD012	ft3	01-Dec-20	W10AMD0121-21
4	25180	Flow-total	AMD012	ft3	10-Dec-20	W11AMD0121-21
4	20217	Flow-total	AMD012	ft3	17-Dec-20	W12AMD0121-21
4	14346	Flow-total	AMD012	ft3	22-Dec-20	W13AMD0121-21
4	23092	Flow-total	AMD012	ft3	30-Dec-20	W14AMD0121-21
4	20126	Flow-total	AMD015	ft3	01-Oct-20	W01AMD0151-21
4	20093	Flow-total	AMD015	ft3	08-Oct-20	W02AMD0151-21
4	20164	Flow-total	AMD015	ft3	15-Oct-20	W03AMD0151-21
4	20288	Flow-total	AMD015	ft3	22-Oct-20	W04AMD0151-21
4	19897	Flow-total	AMD015	ft3	29-Oct-20	W05AMD0151-21
4	20149	Flow-total	AMD015	ft3	05-Nov-20	W06AMD0151-21
4	20126	Flow-total	AMD015	ft3	12-Nov-20	W07AMD0151-21
4	20052	Flow-total	AMD015	ft3	19-Nov-20	W08AMD0151-21
4	14406	Flow-total	AMD015	ft3	24-Nov-20	W09AMD0151-21
4	20872	Flow-total	AMD015	ft3	01-Dec-20	W10AMD0151-21
4	25098	Flow-total	AMD015	ft3	10-Dec-20	W11AMD0151-21
4	20156	Flow-total	AMD015	ft3	17-Dec-20	W12AMD0151-21
4	14309	Flow-total	AMD015	ft3	22-Dec-20	W13AMD0151-21
4	23001	Flow-total	AMD015	ft3	30-Dec-20	W14AMD0151-21
4	20136	Flow-total	AMD57	ft3	01-Oct-20	W01AMD571-21
4	20102	Flow-total	AMD57	ft3	08-Oct-20	W02AMD571-21
4	20165	Flow-total	AMD57	ft3	15-Oct-20	W03AMD571-21
4	20297	Flow-total	AMD57	ft3	22-Oct-20	W04AMD571-21
4	19908	Flow-total	AMD57	ft3	29-Oct-20	W05AMD571-21
4	20158	Flow-total	AMD57	ft3	05-Nov-20	W06AMD571-21
4	20279	Flow-total	AMD57	ft3	12-Nov-20	W07AMD571-21

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
4	19924	Flow-total	AMD57	ft3	19-Nov-20	W08AMD571-21
4	14412	Flow-total	AMD57	ft3	24-Nov-20	W09AMD571-21
4	20876	Flow-total	AMD57	ft3	01-Dec-20	W10AMD571-21
4	25116	Flow-total	AMD57	ft3	10-Dec-20	W11AMD571-21
4	20165	Flow-total	AMD57	ft3	17-Dec-20	W12AMD571-21
4	14311	Flow-total	AMD57	ft3	22-Dec-20	W13AMD571-21
4	23032	Flow-total	AMD57	ft3	30-Dec-20	W14AMD571-21
4	20116	Flow-total	AMD612	ft3	01-Oct-20	W01AMD6121-21
4	20090	Flow-total	AMD612	ft3	08-Oct-20	W02AMD6121-21
4	20156	Flow-total	AMD612	ft3	15-Oct-20	W03AMD6121-21
4	21302	Flow-total	AMD612	ft3	22-Oct-20	W04AMD6121-21
4	20890	Flow-total	AMD612	ft3	29-Oct-20	W05AMD6121-21
4	21151	Flow-total	AMD612	ft3	05-Nov-20	W06AMD6121-21
4	21141	Flow-total	AMD612	ft3	12-Nov-20	W07AMD6121-21
4	21054	Flow-total	AMD612	ft3	19-Nov-20	W08AMD6121-21
4	15133	Flow-total	AMD612	ft3	24-Nov-20	W09AMD6121-21
4	21917	Flow-total	AMD612	ft3	01-Dec-20	W10AMD6121-21
4	26350	Flow-total	AMD612	ft3	10-Dec-20	W11AMD6121-21
4	21165	Flow-total	AMD612	ft3	17-Dec-20	W12AMD6121-21
4	15030	Flow-total	AMD612	ft3	22-Dec-20	W13AMD6121-21
4	24150	Flow-total	AMD612	ft3	30-Dec-20	W14AMD6121-21
4	20126	Flow-total	AMD746S	ft3	01-Oct-20	W01AMD746S1-21
4	20338	Flow-total	AMD746S	ft3	08-Oct-20	W02AMD746S1-21
4	20080	Flow-total	AMD746S	ft3	15-Oct-20	W03AMD746S1-21
4	20330	Flow-total	AMD746S	ft3	22-Oct-20	W04AMD746S1-21
4	19919	Flow-total	AMD746S	ft3	29-Oct-20	W05AMD746S1-21
4	20172	Flow-total	AMD746S	ft3	05-Nov-20	W06AMD746S1-21
4	20166	Flow-total	AMD746S	ft3	12-Nov-20	W07AMD746S1-21
4	20117	Flow-total	AMD746S	ft3	19-Nov-20	W08AMD746S1-21
4	14461	Flow-total	AMD746S	ft3	24-Nov-20	W09AMD746S1-21
4	20883	Flow-total	AMD746S	ft3	01-Dec-20	W10AMD746S1-21
4	25312	Flow-total	AMD746S	ft3	10-Dec-20	W11AMD746S1-21
4	20155	Flow-total	AMD746S	ft3	17-Dec-20	W12AMD746S1-21
4	14343	Flow-total	AMD746S	ft3	22-Dec-20	W13AMD746S1-21
4	22979	Flow-total	AMD746S	ft3	30-Dec-20	W14AMD746S1-21
4	20078	Flow-total	AMD746U	ft3	01-Oct-20	W01AMD746U1-21
4	20267	Flow-total	AMD746U	ft3	08-Oct-20	W02AMD746U1-21
4	20035	Flow-total	AMD746U	ft3	15-Oct-20	W03AMD746U1-21
4	20272	Flow-total	AMD746U	ft3	22-Oct-20	W04AMD746U1-21
4	19865	Flow-total	AMD746U	ft3	29-Oct-20	W05AMD746U1-21
4	20119	Flow-total	AMD746U	ft3	05-Nov-20	W06AMD746U1-21
4	20119	Flow-total	AMD746U	ft3	12-Nov-20	W07AMD746U1-21
4	20064	Flow-total	AMD746U	ft3	19-Nov-20	W08AMD746U1-21
4	14429	Flow-total	AMD746U	ft3	24-Nov-20	W09AMD746U1-21
4	20819	Flow-total	AMD746U	ft3	01-Dec-20	W10AMD746U1-21
4	25236	Flow-total	AMD746U	ft3	10-Dec-20	W11AMD746U1-21
4	20106	Flow-total	AMD746U	ft3	17-Dec-20	W12AMD746U1-21
4	14316	Flow-total	AMD746U	ft3	22-Dec-20	W13AMD746U1-21
4	22988	Flow-total	AMD746U	ft3	30-Dec-20	W14AMD746U1-21
4	20241	Flow-total	AMDBCP	ft3	01-Oct-20	W01AMDBCP1-21

Table A.3. Weekly Flow Data (Continued)

QUARTER	RESULTS	CHEMICAL NAME	STA NAME	UNITS	D COLLECTED	PROJ SAMPLE ID
4	20090	Flow-total	AMDBCP	ft3	08-Oct-20	W02AMDBCP1-21
4	20196	Flow-total	AMDBCP	ft3	15-Oct-20	W03AMDBCP1-21
4	20127	Flow-total	AMDBCP	ft3	22-Oct-20	W04AMDBCP1-21
4	20000	Flow-total	AMDBCP	ft3	29-Oct-20	W05AMDBCP1-21
4	20115	Flow-total	AMDBCP	ft3	05-Nov-20	W06AMDBCP1-21
4	20136	Flow-total	AMDBCP	ft3	19-Nov-20	W08AMDBCP1-21
4	14352	Flow-total	AMDBCP	ft3	24-Nov-20	W09AMDBCP1-21
4	20815	Flow-total	AMDBCP	ft3	01-Dec-20	W10AMDBCP1-21
4	25116	Flow-total	AMDBCP	ft3	10-Dec-20	W11AMDBCP1-21
4	20237	Flow-total	AMDBCP	ft3	17-Dec-20	W12AMDBCP1-21
4	14179	Flow-total	AMDBCP	ft3	22-Dec-20	W13AMDBCP1-21
4	23112	Flow-total	AMDBCP	ft3	30-Dec-20	W14AMDBCP1-21
4	20100	Flow-total	AMDBCP	ft3	12-Nov-20	W07AMDBCP1-21
4	20020	Flow-total	AMDNE	ft3	01-Oct-20	W01AMDNE1-21
4	20276	Flow-total	AMDNE	ft3	08-Oct-20	W02AMDNE1-21
4	20090	Flow-total	AMDNE	ft3	15-Oct-20	W03AMDNE1-21
4	20278	Flow-total	AMDNE	ft3	22-Oct-20	W04AMDNE1-21
4	19869	Flow-total	AMDNE	ft3	29-Oct-20	W05AMDNE1-21
4	20119	Flow-total	AMDNE	ft3	05-Nov-20	W06AMDNE1-21
4	20113	Flow-total	AMDNE	ft3	12-Nov-20	W07AMDNE1-21
4	20066	Flow-total	AMDNE	ft3	19-Nov-20	W08AMDNE1-21
4	14426	Flow-total	AMDNE	ft3	24-Nov-20	W09AMDNE1-21
4	20824	Flow-total	AMDNE	ft3	01-Dec-20	W10AMDNE1-21
4	25246	Flow-total	AMDNE	ft3	10-Dec-20	W11AMDNE1-21
4	20103	Flow-total	AMDNE	ft3	17-Dec-20	W12AMDNE1-21
4	14318	Flow-total	AMDNE	ft3	22-Dec-20	W13AMDNE1-21
4	22976	Flow-total	AMDNE	ft3	30-Dec-20	W14AMDNE1-21

*Air Monitor Down

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