REVISION 0

ST. LOUIS DOWNTOWN SITE ANNUAL ENVIRONMENTAL MONITORING DATA AND ANALYSIS REPORT FOR CALENDAR YEAR 2022

ST. LOUIS, MISSOURI

JUNE 23, 2023

U.S. Army Corps of Engineers
St. Louis District Office
Formerly Utilized Sites Remedial Action Program

REVISION 0

ST. LOUIS DOWNTOWN SITE ANNUAL ENVIRONMENTAL MONITORING DATA AND ANALYSIS REPORT FOR CALENDAR YEAR 2022

ST. LOUIS, MISSOURI

JUNE 23, 2023

prepared by
U.S. Army Corps of Engineers St. Louis District Office
Formerly Utilized Sites Remedial Action Program

with assistance from
Leidos, Inc.
under Contract No. W912P9-17-D-0014, Delivery Order 0007

TABLE OF CONTENTS

TABLE OF CONTENTS (Continued)

LIST OF TABLES

LIST OF FIGURES

NUMBER

LIST OF APPENDICES

BACK COVER

The primary distribution format for this document is electronic files. If printed copies are distributed, the following portions will be included on a CD-ROM on the back cover of the report instead of being printed: Appendices C, D, E, and F.

ACRONYMS AND ABBREVIATIONS

AEC	U.S. Atomic Energy Commission
amsl	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ATD	alpha track detector
BTOC	below top of casing
CEDE	committed effective dose equivalent
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	*Code of Federal Regulations*
COC	contaminant of concern
CY	calendar year
DCF	dose conversion factor
DL	detection limit
DO	dissolved oxygen
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DQO	data quality objective
EDE	effective dose equivalent
ELAP	Environmental Laboratory Accreditation Program
EM	Engineer Manual
EMDAR	Environmental Monitoring Data and Analysis Report
EMG	*Environmental Monitoring Guide for the St. Louis Sites*
EMICY22	*Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2022*
EMP	Environmental Monitoring Program
ER	Engineer Regulation
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
GRAAA	groundwater remedial action alternative assessment
HISS	Hazelwood Interim Storage Site
HU	hydrostratigraphic unit
ICP	inductively coupled plasma
IL	investigative limit
K	potassium
KPA	kinetic phosphorescence analysis
Mallinckrodt	Mallinckrodt LLC
MARSSIM	*Multi-Agency Radiation Survey and Site Investigation Manual*
MDA	minimum detectable activity
MDNR	Missouri Department of Natural Resources
MDC	minimum detectable concentration
MDL	method detection limit
MED	Manhattan Engineer District
MSD	Metropolitan St. Louis Sewer District
NAD	normalized absolute difference (unitless)
NCRP	National Council of Radiation Protection and Measurements
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NRC	U.S. Nuclear Regulatory Commission
ORP	oxidation reduction potential

ACRONYMS AND ABBREVIATIONS (Continued)

PDI	pre-design investigation
QA	quality assurance
QAPP	quality assurance program plan
QC	quality control
QSM	*Department of Defense (DoD)/Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*
Ra	radium
RA	remedial action
RL	reporting limit
RME	reasonably maximally exposed
Rn	radon
ROD	*Record of Decision for the St. Louis Downtown Site*
RPD	relative percent difference
SAG	*Sampling and Analysis Guide for the St. Louis Sites*
SLAPS	St. Louis Airport Site
SLDS	St. Louis Downtown Site
SLS	St. Louis Sites
SOP	standard operating procedure
SOR	sum of ratios (unitless)
SU	survey unit
TEDE	total effective dose equivalent
Th	thorium
TLD	thermoluminescent dosimeter
TSS	total suspended solid(s)
U	uranium
USACE	U.S. Army Corps of Engineers
USCS	unified soil classification system
USEPA	U.S. Environmental Protection Agency
VP	vicinity property
VQ	validation qualifier
WRS	Wilcoxon Rank Sum

UNIT ABBREVIATIONS

Both English and metric units are used in this report. The units used in a specific situation are based on common unit usage or regulatory language (e.g., depths are given in feet, and areas are given in square meters). Units included in the following list are not defined at first use in this report.

°C	degree(s) Celsius (centigrade)
µCi/mL	microcurie(s) per milliliter
µg/L	microgram(s) per liter
Ci	curie(s)
ft	foot/feet
m	meter(s)
mg/L	milligram(s) per liter
mL	milliliter(s)
mrem	millirem
mS/cm	milliSiemen(s) per centimeter
mV	millivolt(s)
NTU	nephelometric turbidity unit
pCi/L	picocurie(s) per liter
WL	working level
WLM	working level month
yd^3	cubic yard(s)

EXECUTIVE SUMMARY

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2022 applies to the St. Louis Downtown Site (SLDS), which is within the St. Louis Sites (SLS) (Figure 1-1) and under the scope of the Formerly Utilized Sites Remedial Action Program (FUSRAP). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program (EMP) for the SLDS. The SLDS consists of the Mallinckrodt LLC (Mallinckrodt) plant and surrounding vicinity properties (VPs) (Figure 1-2). Environmental monitoring of various media at the SLDS is required in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the commitments in the *Record of Decision for the St. Louis Downtown Site* (ROD) (USACE 1998a).

The purpose of this EMDAR is to document the environmental monitoring activities and to assess whether remedial actions (RAs) at the SLDS had a measurable environmental impact. In addition, this EMDAR serves to report the current condition of the SLDS, summarize the data collection efforts for CY 2022, and provide analysis of the CY 2022 environmental monitoring data results.

The U.S. Army Corps of Engineers (USACE) St. Louis District collects comprehensive environmental data for decision-making and planning purposes. Environmental monitoring, performed as a Best Management Practice or as a component of RA, serves as a critical component in the evaluation of the current status and potential future migration of residual contaminants.

The environmental monitoring described in the *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2022* (EMICY22) (USACE 2021) was conducted as planned, and the results are documented in this EMDAR. Evaluation of the environmental monitoring data for all SLDS properties demonstrates compliance with applicable or relevant and appropriate requirements (ARARs).

RADIOLOGICAL AIR MONITORING

Radiological air data were collected and evaluated at the SLDS through airborne radioactive particulate, radon (indoor and outdoor), and gamma radiation monitoring, as required in the EMICY22 (USACE 2021). In addition, for environmental monitoring purposes, radiological air data were also used as inputs to calculate total effective dose equivalent (TEDE) to the hypothetical maximally exposed individual at the SLDS.

The TEDE calculated for the hypothetical maximally exposed individual at the SLDS was 2.8 mrem per year. The results of the radiological air monitoring conducted at the SLDS demonstrate compliance with ARARs for the SLDS.

EXCAVATION WATER DISCHARGE MONITORING

CY 2022 was the 24th year that excavation water was monitored, discharged from the SLDS, and reported. Excavation water from the SLDS was discharged to the St. Louis sanitary sewer system in compliance with the requirements stated in the July 23, 2001, Metropolitan St. Louis Sewer District (MSD) authorization letter (MSD 2001) and amended in the October 13, 2004, MSD letter (MSD 2004). Two (2)-year authorization letters were issued beginning in 2004 and extended every 2 years through the current cycle expiring on July 23, 2024 (MSD 2022a). On July 26, 2022, the MSD approved an increase in the daily discharge limit to 150,000 gallons of water (MSD 2022b). Copies of these authorization letters can be found in the project records or in Appendix A of the EMICY22 (USACE 2021). During CY 2022, no exceedances of the MSD limits occurred at the SLDS.

GROUNDWATER MONITORING

Groundwater was sampled during CY 2022 at the SLDS following a protocol for individual wells and analytes. Samples were analyzed for various radiological constituents and inorganic parameters. Static groundwater elevations for all SLDS wells were measured quarterly.

The environmental sampling requirements and groundwater criteria for each analyte are consistent with the EMICY22. The groundwater criteria are used for comparison and discussion purposes. The criteria for assessing groundwater sampling data at the SLDS include the investigative limits (ILs) identified in the ROD (USACE 1998a) and the combined radium (Ra)-226/Ra-228 concentration limit from 40 *Code of Federal Regulations* (*CFR*) 192.02 (Table 1 of Subpart A). The groundwater criteria are presented in Table 2-6 of the EMICY22 and in Section 4.0 of this EMDAR. For those stations where an analyte exceeded the groundwater criteria at least once during CY 2022 and sufficient data were available to evaluate trends, Mann-Kendall statistical trend analyses were completed to assess whether analyte concentrations were increasing or decreasing through time.

During CY 2022, five hydrostratigraphic unit (HU)-A monitoring wells (B16W06S, B16W08S, B16W12S, DW19RS, and DW21) were sampled (Figure 4-3). Mann-Kendall Trend analysis was conducted for arsenic in B16W06S, DW19RS and DW21 and total U in B16W08S, B16W12S, and DW19RS. The results of the Mann-Kendall Trend Tests for arsenic indicate a statistically significant downward trend in DW21 and no statistically significant trend for the remaining contaminants of concern (COCs) in the HU-A groundwater for the wells sampled in CY 2022.

During CY 2022, five HU-B (Mississippi Alluvial Aquifer) monitoring wells (B16W06D, B16W08D, DW15, DW18, and DW19RD) were sampled (Figure 4-3). Mann-Kendall Trend Tests were conducted for COCs that exceeded the ILs in HU-B wells during CY 2022: arsenic in DW18; and total U in DW19RD. The results of the Mann-Kendall Trend Tests for arsenic indicate a statistically significant upward trend in DW18. The results of the Mann-Kendall Trend Tests indicate no statistically significant trend for total U concentrations in DW19RD. However, total U concentrations in groundwater samples from monitoring wells DW19 and DW19RD have consistently exceeded the IL of 20 µg/L since installation of DW19 in CY 1999.

Potentiometric surface maps were created from groundwater elevations measured in May and August to illustrate groundwater flow conditions in wet and dry seasons. The groundwater surface in HU-A under the eastern portion of the Mallinckrodt plant typically slopes northeast toward the Mississippi River. Comparison of Figure 4-7 (May) with Figure 4-9 (November) indicates groundwater flow patterns in HU-A were consistent for the wet and dry season conditions during CY 2022.

In HU-B, groundwater flow and direction are strongly influenced by river stage, which indicates a hydraulic connection to the Mississippi River (Figures 4-8 and 4-10). The flow direction at the site is generally north-northeast toward the Mississippi River. Localized groundwater depression was observed in the vicinity of the two HU-B wells DW18 and B16W07D, likely due to decreased recharge from the river and decreased seepage from overlying HU-A in that area.

1.0 HISTORICAL SITE BACKGROUND AND CURRENT SITE STATUS

1.1 INTRODUCTION

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2022 applies to the St. Louis Downtown Site (SLDS) which is within the St. Louis Sites (SLS) (Figure 1-1) and under the scope of the Formerly Utilized Sites Remedial Action Program (FUSRAP). This EMDAR provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program (EMP) for the SLDS. The SLDS consists of the Mallinckrodt LLC (Mallinckrodt) plant and surrounding vicinity properties (VPs) (Figure 1-2). Environmental monitoring of various media at the SLDS is required in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the commitments in the *Record of Decision for the St. Louis Downtown Site* (ROD) (USACE 1998a).

1.2 PURPOSE

The purpose of this EMDAR is to document the environmental monitoring activities and to assess whether remedial actions (RAs) at the SLDS had a measurable environmental impact. In addition, this EMDAR serves to report the current condition of the SLDS, summarize the data collection efforts for CY 2022, and provide analysis of the CY 2022 environmental monitoring data results. This EMDAR presents the following information:

- Sample collection data for various media at the SLDS and interpretation of CY 2022 EMP results;
- The compliance status of the SLDS with federal and state applicable or relevant and appropriate requirements (ARARs) or other benchmarks (e.g., *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for CY 2022* [EMICY22] [USACE 2021]);
- Dose assessments for radiological contaminants as appropriate at the SLDS;
- A summary of trends based on changes in contaminant concentrations to support RAs, ensure public safety, and maintain surveillance monitoring requirements at the SLDS; and
- The identification of data gaps and future EMP needs.

1.3 ST. LOUIS SITE PROGRAM AND SITE BACKGROUND

The FUSRAP was executed by the U.S. Atomic Energy Commission (AEC) in 1974 to identify, remediate, or otherwise control sites where residual radioactivity remains from operations conducted for the Manhattan Engineer District (MED) and AEC during the early years of the nation's atomic energy program. The FUSRAP was continued by the follow-on agencies to the AEC until 1997, when the U.S. Congress transferred responsibility for FUSRAP to the U.S. Army Corps of Engineers (USACE).

The SLDS properties were involved with refinement of uranium ores, production of uranium metal and compounds, uranium recovery from residues and scrap, and the storage and disposal of associated process byproducts. The processing activities were conducted in portions of the SLDS under contract to the MED/AEC between the early 1940s and the 1950s.

A detailed description and history of the SLDS can be found in the *Remedial Investigation Report for the St. Louis Site* (U.S. Department of Energy [DOE] 1994); the *Remedial Investigation*

Addendum for the St. Louis Site (DOE 1995); the ROD (USACE 1998a); and the *Environmental Monitoring Guide for the St. Louis Sites* (EMG) (USACE 1999a).

USACE SLDS documents finalized in CY 2022 are listed in Appendix A.

1.3.1 Calendar Year 2022 Remedial Actions

During CY 2022, RAs were performed at the following SLDS properties (Figure 1-2): Gunther Salt North VP (DT-4), Bruce Oakley Rail Spur (DT-9), and Mallinckrodt Plant 2. RAs at Gunther Salt North VP (DT-4) continued throughout the year. Limited RAs at Bruce Oakley Rail Spur (DT-9) were discontinued in the second quarter at the request of the property owner. RAs at Mallinckrodt Plant 2 started in the fourth quarter. A total of 3,990 yd^3 of contaminated material were shipped from the SLDS via railcar to US Ecology in Michigan for proper disposal. Additionally, loadout activities were performed at Plant 6.

Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) (U.S. Department of Defense [DoD] 2000) Class 1 verifications were performed at Gunther Salt North VP (DT-4) (survey unit [SU]-4), Bruce Oakley Rail Spur (DT-9) (SU-1, SU-4, and SU-5), Metropolitan St. Louis Sewer District (MSD) North Property (SU-1), and Mallinckrodt Plant 2 (SU-4) during CY 2022. A MARSSIM Class 2 final status survey was performed at Gunther Salt North VP (DT-4). MARSSIM Class 3 final status surveys were performed at the Southeast City Property and West Border Properties during CY 2022. Verifications at the SLDS were performed to confirm that the remediation goals of the ROD were achieved. The SLDS is shown on Figure 1-2.

Characterizations/pre-design investigations (PDIs) were performed at the MSD North Property during CY 2022. Based on final status survey evaluations performed as part of these characterizations/PDIs in CY 2022, Class 2 sample results did not exceed remediation goals for this property.

No monitoring wells were decommissioned in CY 2022.

In accordance with the MSD authorization letter for the SLDS, 1,398,991 gallons of excavation water were discharged in CY 2022. Since the beginning of the project, 36,470,309 gallons have been treated and released to MSD at the SLDS.

2.0 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

This section documents environmental monitoring activities related to radiological air data. The radiological air monitoring conducted at the SLDS is conducted as part of the EMP. Radiological air data are collected to evaluate the compliance status of each site with respect to ARARs, to evaluate trends, and to perform dose assessments for radiological contaminants, as appropriate, at each site. Section 2.1 includes a description of the types of radiological air monitoring conducted at the SLDS, potential sources of the contaminants to be measured (including natural background), and measurement techniques employed during CY 2022.

All radiological air monitoring required through implementation of the EMICY22 (USACE 2021) was conducted as planned during CY 2022. The evaluations of radiological air monitoring data for all SLDS properties demonstrate compliance with ARARs.

A total effective dose equivalent (TEDE) for the reasonably maximally exposed (RME) member of the public was calculated for the SLDS by summing the dose due to gamma radiation, radiological air particulates, and radon. The TEDE calculated for the RME individual at the SLDS was 2.8 mrem per year. The TEDE for the SLDS was below the 10 *Code of Federal Regulations* (*CFR*) 20.1301 limit for members of the public, which is 100 mrem per year. Details of the radiological dose assessment (TEDE calculation) are presented in Section 6.0.

2.1 RADIOLOGICAL AIR MEASUREMENTS

The three types of radiological air monitoring conducted at the SLS during CY 2022 are gamma radiation, airborne radioactive particulates, and airborne radon. Section 2.2 provides details of the air monitoring conducted at the SLDS.

2.1.1 Gamma Radiation

Gamma radiation is emitted from natural, cosmic, and manmade sources. The earth naturally contains gamma radiation-emitting substances, such as the uranium decay series, the thorium decay series, and potassium (K)-40. Cosmic radiation originates in outer space and filters through the atmosphere to the earth. Together, these two sources comprise the majority of natural gamma background radiation. The National Council of Radiation Protection and Measurements (NCRP) estimates that the total naturally occurring background radiation dose equivalent due to gamma exposure is 51 mrem per year, 20 mrem per year of which originates from sources on earth and 31 mrem per year of which originates from cosmic sources (NCRP 2009). The background monitoring location for the SLS (Figure 2-1) are reasonably representative of background gamma radiation for the St. Louis metropolitan area (Appendix C, Table C-2).

Gamma radiation was measured at the SLDS during CY 2022 using thermoluminescent dosimeters (TLDs). TLDs were placed at locations representative of areas accessible to the public (Figure 2-2) in order to provide input for calculation of the TEDE.

The TLDs were placed at the monitoring location approximately 5 ft above the ground surface inside a housing shelter. The TLDs were collected quarterly and sent to a properly certified, off-site laboratory for analysis (Appendix C, Table C-2).

2.1.2 Airborne Radioactive Particulates

2.1.2.1 Air Sampling

Airborne radioactive particulates result from radionuclides in soils that become suspended in the air. The radionuclides in soil normally become airborne as a result of wind erosion of the surface soil or as a result of soil disturbance (e.g., excavation). This airborne radioactive material includes naturally

occurring background concentrations (Appendix C, Table C-1) as well as above-background concentrations of radioactive materials present at the SLDS (Appendix C, Table C-3).

Airborne radioactive particulates were measured at the SLDS by drawing air through a filter membrane with an air sampling pump placed approximately 3 ft above the ground, and then analyzing the material contained on the filter. The results of the analysis, when compared to the amount of air drawn through the filter, were reported as radioactive contaminant concentrations (i.e., µCi/mL). Particulate air monitors were located in predominant wind directions at excavation and loadout area perimeter locations, as appropriate, to provide input for the National Emissions Standard for Hazardous Air Pollutants (NESHAP) Report and calculation of TEDE to the critical receptor. Air particulate samples were typically collected daily on working days.

2.1.2.2 Estimation of Emissions in Accordance with the National Emissions Standard for Hazardous Air Pollutants

The SLDS CY 2022 NESHAP report (Appendix B) presents calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors in accordance with the NESHAP. The report is prepared in accordance with the requirements and procedures contained in 40 *CFR* 61, Subpart I.

Emission rates calculated using air sampling data, activity fractions, and other site-specific information were used for the SLDS as inputs to the U.S. Environmental Protection Agency (USEPA) CAP88-PC Version 4.1 computer code (USEPA 2020) to demonstrate compliance with the 10 mrem per year ARAR in 40 *CFR* 61, Subpart I.

CY 2022 monitoring results for the SLDS demonstrate compliance with the 10 mrem per year ARAR prescribed in 40 *CFR* 61, Subpart I. See Section 2.2.2 for further details.

2.1.3 Airborne Radon

Uranium (U)-238 is a naturally occurring radionuclide commonly found in soil and rock. Radon (Rn)-222 is a naturally occurring radioactive gas found in the uranium decay series. A fraction of the radon produced from the radioactive decay of naturally occurring U-238 diffuses from soil and rock into the atmosphere, accounting for natural background airborne radon concentrations. In addition to this natural source, radon is produced from the above-background concentrations of radioactive materials present at the SLDS.

Outdoor airborne radon concentration is governed by the emission rate and dilution factors, both of which are strongly affected by meteorological conditions. Surface soil is the largest source of radon. Secondary contributors include oceans, natural gas, geothermal fluids, volcanic gases, ventilation from caves and mines, and coal combustion. Radon levels in the atmosphere have been observed to vary with elevation, season, time of day, or location. The chief meteorological parameter governing airborne radon concentration is atmospheric stability; however, the largest variations in atmospheric radon occur spatially (USEPA 1987).

Radon alpha track detectors (ATDs) were used at the SLDS to measure alpha particles emitted from radon and its associated decay products. The background monitoring location for the SLS (Figure 2-1) is reasonably representative of background radon concentrations for the St. Louis metropolitan area. Radon ATDs were co-located with environmental TLDs approximately 3 to 5 ft above the ground surface in housing shelters at locations representative of areas accessible to the public (Figure 2-2). Outdoor ATDs were collected approximately every 6 months and sent to a properly certified off-site laboratory for analysis (Appendix C, Table C-4). Recorded radon concentrations are listed in pCi/L and are compared to the value of 0.5 pCi/L average annual above-background concentration as listed in 40 *CFR* 192.02(b)(2).

CY 2022 outdoor radon monitoring results for the SLDS demonstrate compliance with the 0.5 pCi/L ARAR prescribed in 40 *CFR* 192.02(b)(2). See Section 2.2.3 for further details.

At the SLDS, ATDs were also placed in locations within applicable structures (Building 26 at Plant 1) to monitor for indoor radon exposure (Figure 2-2). The ATDs were placed in areas that represent the highest likely exposure from indoor radon. ATD locations were selected with consideration given to known radium (Ra)-226 concentrations under applicable buildings and occupancy times at any one location within each building. Annual average indoor radon data in each applicable building were compared to the 40 *CFR* 192.12(b)(1) ARAR value of 0.02 WL. In accordance with 40 *CFR* 192.12(b)(1), reasonable effort shall be made to achieve, in each habitable or occupied building, an annual average (or equivalent) radon decay product concentration (including background) not to exceed 0.02 WL. In any case, the radon decay product concentration shall not exceed 0.03 WL. Background indoor radon monitors were not necessary because the regulatory standard of 0.02 WL includes background. Indoor ATDs were also collected approximately every 6 months and sent to a properly certified off-site laboratory for analysis (Appendix C, Table C-4).

CY 2022 indoor radon monitoring results for the SLDS demonstrate compliance with the 0.02 WL ARAR prescribed by 40 *CFR* 192.12(b)(1). See Section 2.2.4 for further details.

2.2 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

2.2.1 Evaluation of Gamma Radiation Data

Gamma radiation monitoring was performed at the SLDS during CY 2022 at eight locations representative of areas accessible to the public (Figure 2-2) and at the background location (Figure 2-1) to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor. The EMP uses two TLDs at Monitoring Station DA-8 (for each monitoring period) to provide additional quality control (QC) of monitoring data. A summary of TLD monitoring results for CY 2022 at the SLDS is shown in Table 2-1. TLD data are contained in Appendix C, Table C-2, of this EMDAR.

Table 2-1. Gamma Radiation Data Summary for CY 2022

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2022 Net TLD Data (mrem/year)
		(mrem/quarter)								
		Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	Rpt.	Cor.[a,b]	
SLDS Perimeter	DA-3	19.8	0.0	20.3	3.2	18.0	0.0	18.3	0.8	4.0
	DA-7	20.7	0.3	19.8	2.7	19.2	0.7	21.0	3.7	7.3
	DA-8	22.4	2.3	20.6	3.5	20.8	2.4	21.3	4.0	12.2
	DA-8 [c]	23.0	3.0	21.1	4.0	20.0	1.5	20.7	3.4	---
	DA-9	22.2	2.0	22.4	5.3	19.2	0.7	18.0	0.5	8.6
	DA-10	21.8	1.6	21.3	4.2	20.6	2.2	21.6	4.3	12.3
	DA-11	20.7	0.3	18.5	1.3	18.2	0.0	18.0	0.5	2.2
	DA-12	19.0	0.0	18.7	1.5	19.1	0.5	18.2	0.7	2.8
	DA-13	20.4	0.0	19.1	2.0	17.8	0.0	18.8	1.4	3.3
Background	BA-1	20.4	---	17.2	---	18.6	---	17.5	---	---

[a] All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure above background.
[b] CY 2022 net TLD data are corrected for background, shelter absorption (s/a = 1.075), and fade.
[c] A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis. Duplicate sample results were not included in calculations.
--- Result calculation is not required.
Cor. – corrected
Rpt. – reported

2.2.2 Evaluation of Airborne Radioactive Particulate Data

Air sampling for radiological particulates during CY 2022 was conducted by the RA contractor at the perimeter of each active excavation and loadout area within the SLDS. Air particulate data were used as inputs to the NESHAP report (Appendix B) and calculation of TEDE to the critical receptor (Section 6.0). A summary of air particulate monitoring data from excavation perimeters is shown in Table 2-2. Airborne radioactive particulate data are contained in Appendix C, Table C-3, of this EMDAR.

Table 2-2. Airborne Radioactive Particulate Data Summary for CY 2022

Monitoring Location	Average Concentration (µCi/mL)[a]	
	Gross Alpha	Gross Beta
Bruce Oakley (DT-9)	5.45E-15	2.69E-14
Gunther Salt (DT-4)	5.07E-15	2.67E-14
Plant 2	5.94E-15	3.54E-14
Plant 6 Loadout	5.32E-15	3.35E-14
Background Concentration (BA-1)[b]	4.69E-15	2.47E-14

[a] Average concentration values for the sampling period by location.
[b] These concentrations are provided for informational purposes only.

2.2.3 Evaluation of Outdoor Airborne Radon Data

Outdoor airborne radon monitoring was performed at the SLDS using ATDs to measure radon emissions. Eight detectors were co-located with the TLDs at locations shown on Figure 2-2. One additional detector was located at Monitoring Station DA-8 as a QC duplicate. A background ATD, co-located with the background TLD (Section 2.2.1), was used to compare on-site exposure and off-site background exposure. In accordance with 40 *CFR* 192.02(b)(2), control of residual radioactive materials from a uranium mill tailings pile must be designed to provide reasonable assurance that releases of radon to the atmosphere will not increase the annual average concentration of radon outside the disposal site by more than 0.5 pCi/L. Although a uranium mill tailings pile is not associated with any of the SLS, these standards are used for comparative purposes. Outdoor airborne radon data were used as an input for calculation of the TEDE to the critical receptor (Section 6.0) and compared to the 0.5 pCi/L average annual concentration above background value listed in 40 *CFR* 192.02(b)(2). The average annual radon concentration above background at the SLDS monitoring stations was 0.01 pCi/L, meeting the 40 *CFR* 192.02(b)(2) limit of 0.5 pCi/L. A summary of outdoor airborne radon data is shown in Table 2-3. Outdoor ATD data are contained in Appendix C, Table C-4, of this EMDAR.

Table 2-3. Outdoor Airborne Radon (Rn-222) Data Summary for CY 2022

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/05/22 to 07/05/22 (Uncorrected)[a]	07/05/22 to 01/04/23 (Uncorrected)[a]	Average Annual Concentration[b]
SLDS	DA-3	0.08	0.22	0.04
	DA-7	0.08	0.24	0.05
	DA-8	0.11	0.22	0.06
	DA-8[c]	0.11	0.22	---
	DA-9	0.11	0.22	0.06
	DA-10	0.11	0.14	0.02
	DA-11	0.08	0.19	0.04
	DA-12	0.16	0.22	0.08
	DA-13	0.16	0.19	0.07

Table 2-3. Outdoor Airborne Radon (Rn-222) Data Summary for CY 2022 (Continued)

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/05/22 to 07/05/22 (Uncorrected)[a]	07/05/22 to 01/04/23 (Uncorrected)[a]	Average Annual Concentration[b]
Background	BA-1	0.08	0.14	---

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor (gross data including background).
[b] Results reported from vendor for two periods are time-weighted and averaged to estimate an annual average radon concentration (pCi/L) above background.
[c] A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis.
--- Result calculation is not required.

2.2.4 Evaluation of Indoor Airborne Radon Data

Indoor radon monitoring was performed at one building at SLDS (Building 26 at Plant 1) using one ATD placed in the building at a height of 5 ft (to approximate breathing zone conditions) to measure radon concentrations (Figure 2-2). The ATD was installed in January of CY 2022 at the monitoring location, collected for analysis after approximately 6 months of exposure, and replaced with another ATD that would represent radon exposure for the remainder of the year. Recorded radon concentrations (listed in pCi/L) were converted to radon WL, and an indoor radon equilibrium factor of 0.4 (NCRP 1988) was applied.

The results (including background) were evaluated based on the criteria contained in 40 *CFR* 192.12(b)(1). The average annual radon concentration was determined to be less than the 40 *CFR* 192.12(b)(1) criterion of 0.02 WL in Building 26 at Plant 1 (Leidos 2023a). Additional details of the data and calculation methodology used to determine indoor radon WL in Building 26 at Plant 1 are contained in Table 2-4. Indoor ATD data are contained in Appendix C, Table C-4, of this EMDAR.

Table 2-4. Indoor Airborne Radon (Rn-222) Data Summary for CY 2022

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)			WL[c]
		01/05/22 to 07/05/22[a]	07/05/22 to 01/04/23[a]	Annual Average[b]	
Plant 1, Building 26	DI-1	0.35	0.62	0.49	0.002

[a] Detectors were installed and removed on the dates listed. Data are as reported from the vendor.
[b] Results reported from vendor for two periods are averaged to estimate an annual average radon concentration (pCi/L).
[c] The average annual WL is calculated by dividing the average pCi/L by 100 pCi/L per WL and multiplying by 0.4. The average annual WL must be less than 0.02 (40 *CFR* 192.12(b)).

THIS PAGE INTENTIONALLY LEFT BLANK

3.0 EXCAVATION WATER MONITORING DATA

This section provides a description of the excavation water discharge monitoring activities conducted at the SLDS during CY 2022. Excavation water is stormwater and groundwater that accumulates in excavations present at the SLDS as a result of RAs. Excavation water effluent from the SLDS is discharged to combined (sanitary and storm) MSD sewer inlets located at the SLDS. It then flows to the Bissell Point Sewage Treatment Plant under a special discharge authorization. This excavation water was collected, treated, and monitored before being discharged to MSD manholes 17D4-353C and 18D1-192C. These MSD manholes are depicted on Figure 3-1.

The purpose of excavation water discharge monitoring at the SLDS is to maintain compliance with specific discharge limits to ensure protection of human health and the environment. The MSD is the regulatory authority for water discharges and has issued authorization letters for the SLDS allowing discharges of excavation water that meets discharge-limit-based criteria (MSD 1998, 2001, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022a). On October 30, 1998, the USACE received an MSD conditional authorization letter to discharge the excavation water collected at the SLDS resulting from USACE RAs (MSD 1998). On July 23, 2001, the MSD issued a separate conditional discharge authorization letter for discharges of excavation water resulting from USACE RAs (MSD 2001). The MSD issued a change to the self-monitoring and special discharge authorization for the SLDS on October 13, 2004, and issued a 2-year extension to that authorization dated June 19, 2006 (MSD 2004, 2006). On May 22, 2008; May 10, 2010; May 24, 2012; June 23, 2014; July 18, 2016; June 11, 2018, July 16, 2020, and June 7, 2022 the MSD issued extensions to the special discharge authorization for the SLDS that remained in effect until July 23, 2010; July 23, 2012; July 23, 2014; July 23, 2016; July 23, 2018; July 23, 2020, and July 23, 2022, respectively (MSD 2008, 2010, 2012, 2014, 2016, 2018, 2020, 2022a). On June 7, 2022, the MSD issued an extension to the special discharge authorization for the SLDS that remains in effect until July 23, 2024 (MSD 2022a). On July 26, 2022, the MSD approved an increase in the daily discharge limit to 150,000 gallons of water (MSD 2022b). The results obtained from these monitoring activities are presented and evaluated with respect to the discharge limits described in the EMICY22 (USACE 2021).

Section 2.2.2 of the EMICY22 outlines the parameters and annual average discharge limits for the excavation water discharges at the SLDS (USACE 2021). For cases in which the local regulatory authorities have not provided discharge limits for the SLDS radiological contaminants of concern (COCs), parameters from 10 *CFR* 20, Appendix B, water effluent values are used to calculate the sum of ratios (SOR) value for each discharge. Additionally, the SOR aids in the establishment of water management protocols.

3.1 EVALUATION OF EXCAVATION WATER DISCHARGE MONITORING RESULTS

During CY 2022, 1,398,991 gallons of excavation water from 12 batches were discharged to MSD manholes 17D4-353C and 18D1-192C. The analytical results for all measured parameters by batch, along with the total activity discharged for each parameter, are included in Appendix D, Table D-1. A summary of the number of discharges, gallons of water discharged, and total radiological activity for the CY 2022 excavation water discharges is provided in Table 3-1. All excavation water discharge monitoring required through implementation of the EMICY22 was conducted as planned during CY 2022. The evaluation of monitoring data demonstrates compliance with all MSD criteria.

Table 3-1. Excavation Water Discharged in CY 2022

Quarter	Number of Discharges	Number of Gallons Discharged[a]	Total Activity (Ci)		
			Thorium[b]	Uranium (KPA)[c]	Radium[d]
1	3	379,781	5.3E-06	5.0E-05	2.0E-06
2	3	396,526	5.7E-06	8.4E-05	2.3E-06
3	3	391,240	5.7E-06	2.9E-05	1.6E-06
4	3	231,444	2.0E-06	2.1E-05	6.3E-07
Annual Totals	12	1,398,991	1.9E-05	1.8E-04	6.6E-06

[a] Quantities based on actual quarterly discharges from the SLDS.
[b] Calculated value based on the addition of isotopic analyses: thorium (Th)-228, Th-230, and Th-232.
[c] Activity based on total U results (kinetic phosphorescence analysis [KPA]).
[d] Calculated value based on the addition of isotopic analyses: Ra-226 and Ra-228.

4.0 GROUNDWATER MONITORING DATA

During CY 2022, ten groundwater monitoring wells were sampled at the SLDS. Groundwater was sampled following a protocol for individual wells and analytes, and was analyzed for various radiological constituents and inorganic analytes. Static water levels were measured quarterly at the SLDS. In addition, field parameters were measured during purging of the wells prior to sampling. The groundwater field parameter results for CY 2022 sampling at the SLDS are presented in Appendix E, Table E-1. The SLDS groundwater analytical sampling results for CY 2022 are contained in Appendix E, Table E-2.

Stratigraphy

Groundwater at the SLDS is found within three hydrostratigraphic units (HUs). These units are, in order of increasing depth, the Upper HU (HU-A), which consists of fill overlying clay and silt; the Lower HU (HU-B), also referred to as the Mississippi Alluvial Aquifer, consisting of sandy silts and silty sands; and the Limestone Bedrock Unit, referred to as HU-C (Figures 4-1 and 4-2). The upper unit, HU-A, is not an aquifer and is not considered a potential source of drinking water, because it has insufficient yield and poor natural water quality. HU-B is one of the principal aquifers in the St. Louis area, but expected future use as drinking water at the SLDS is minimal, because the Mississippi and Missouri Rivers provide a readily available source and the water from the aquifer is of poor quality due to elevated concentrations of iron and manganese. HU-C would be an unlikely water supply source, as it is a deeper and less productive HU. There are no known drinking-water wells in the vicinity of the SLDS. St. Louis City Ordinance 66777 explicitly forbids the installation of wells into the subsurface for the purposes of using groundwater as a potable water supply (City of St. Louis 2005). The expected future use of SLDS groundwater is not anticipated to change from its current use.

As shown in the geologic cross-section of the SLDS (Figure 4-2), the erosional surface of the bedrock dips eastward toward the Mississippi River. HU-A overlies HU-B on the eastern side of the SLDS and bedrock on the western side of the SLDS. HU-B thins westerly along the bedrock surface until it becomes absent beneath the SLDS. HU-C underlies the unconsolidated sediments at depths ranging from 19 ft on the western side of the SLDS to 80 ft near the Mississippi River.

Groundwater Criteria

The CY 2022 monitoring data for HU-B groundwater at the SLDS are compared to the following groundwater criteria established in the ROD: 50 µg/L arsenic, 5 µg/L cadmium, 20 µg/L total U, and 5 pCi/L combined Ra-226 and Ra-228 (USACE 1998a). The ROD did not establish groundwater criteria for HU-A groundwater. An evaluation of concentration trends is conducted for COCs detected in HU-A.

Summary of Calendar Year 2022 Groundwater Monitoring Results

Trend analysis was performed for the COCs detected in HU-A groundwater including arsenic (B16W06S, DW19RS, and DW21) and total U (B16W08S, B16W12S, and DW19RS). A Mann-Kendall Trend Test was not performed for arsenic concentrations at B16W08S and B16W12S; and cadmium concentrations at B16W08S, B16W12S, and DW19RS because the historical datasets do not have a detection frequency greater than 50 percent. The trend analysis indicates a statistically significant downward trend for the arsenic concentrations at DW21. No other statistically significant trends were identified in the COCs detected in shallow groundwater during CY 2022.

During CY 2022, two COCs (arsenic and total U) were detected at concentrations above the ROD groundwater criteria in HU-B groundwater. The concentration of arsenic exceeded the investigative

limit (IL) (50 µg/L) in the sample collected in the fourth quarter of CY 2022 from HU-B well DW18 (60 µg/L). The concentration of total U exceeded the IL (20 µg/L) in the sample collected during the fourth-quarter sampling event of CY 2022 from DW19RD, the HU-B replacement well for DW19. The total U concentration detected in the CY 2022 sample from DW19RD was 153.6 µg/L. The average total U concentration detected at DW19RD since well installation (112.7 µg/L) is similar to the average concentration detected in the samples collected at DW19 prior to its decommissioning (87.0 µg/L). The maximum total U concentration detected in DW19RD (174.4 µg/L) is less than the maximum concentration detected in the historical dataset for DW19 (200.7 µg/L).

These CY 2022 sampling results, combined with previous sampling results since 1999, were used to identify any significant trends in HU-B wells. Trend analysis was performed for the COCs detected in HU-B wells in excess of the ILs (arsenic in DW18 and total U in DW19RD). The Mann-Kendall Trend Test results for HU-B groundwater indicate a statistically significant upward trend in arsenic concentrations in DW18. No statistically significant trends in total U concentrations were identified in the HU-B groundwater. However, total U concentrations in groundwater samples from monitoring wells DW19 and DW19RD have consistently exceeded the IL of 20 µg/L. No other significant changes in the concentrations of the COCs occurred in HU-B groundwater during CY 2022.

4.1 GROUNDWATER MONITORING

The selected remedy presented in the ROD involves excavation and disposal of radiologically contaminated accessible soil and the monitoring of groundwater. The goal of the groundwater portion of the SLDS remedy is to maintain protection of HU-B and to establish the effectiveness of the source removal action. This goal is achieved by monitoring perimeter wells on a routine basis to ensure there are no significant impacts to HU-B from COCs. The HU-B groundwater results for the SLDS COCs are compared to the following ROD groundwater criteria (USACE 1998a):

1. The ILs: 50 µg/L arsenic, 5 µg/L cadmium, and 20 µg/L total U; and
2. The concentration limits from the Uranium Mill Tailings Radiation Control Act regulations listed in 40 *CFR* 192.02, Table 1 to Subpart A: 5 pCi/L combined Ra-226 and Ra-228.

The concentration limits for other SLDS COCs listed in 40 *CFR* 192.02, Table 1 to Subpart A (50 µg/L arsenic, 10 µg/L cadmium, and 30 pCi/L combined U-234 and U-238), are not relevant or appropriate because these limits are equal to or less stringent than the ILs.

If monitoring of HU-B indicates that the concentrations of SLDS COCs significantly exceed the above criteria, the ROD requires that a groundwater remedial action alternative assessment (GRAAA) be initiated to further assess the fate and transport of the COCs in HU-B and to determine if additional RAs are necessary. Based on the results of 8 consecutive rounds of quarterly sampling conducted between 1999 and 2001, total U concentrations were above the IL in HU-B well DW19 over an extended period, leading to the initiation of Phase 1 of the GRAAA. The first phase of the GRAAA was completed in CY 2003 (USACE 2003). Phase 1 summarized the sampling data available for each of the monitoring wells completed in HU-B and provided recommendations for further investigation of HU-B. This EMDAR carefully reviews the HU-B data to provide additional information for future phases of the GRAAA. The ROD also specifies that a groundwater monitoring plan will be developed to assess the fate and transport of MED/AEC residual contaminants through and following the RA.

Because HU-A is not considered a potential source of drinking water, the ROD did not establish criteria for HU-A groundwater. An evaluation of concentration trends is conducted for select

COCs detected in HU-A groundwater to support assessment of the effectiveness of the RA in the CERCLA 5-year reviews. The results of the trend analysis are presented in Section 4.2.3.

4.2 EVALUATION OF GROUNDWATER MONITORING DATA

Monitoring Well Network

The EMP monitoring well network for the SLDS is shown on Figure 4-3. The screened HUs for the SLDS groundwater monitoring wells are identified in Table 4-1. Prior to initiating monitoring of HU-B, as specified by the ROD (USACE 1998a), there was no EMP sampling performed at the SLDS. In CY 2022, 10 monitoring wells (5 HU-A and 5 HU-B) were sampled for radionuclides and/or inorganic COCs at the SLDS. Groundwater sampling at the SLDS was conducted on February 16 (first quarter); May 19 and 23 (second quarter); August 25 (third quarter); and November 16 (fourth quarter) of CY 2022. The CY 2022 analytical results for the SLDS are presented in Appendix E, Table E-2. For discussion purposes, the groundwater analytical data acquired from the CY 2022 sampling events at the SLDS are presented separately for HU-A (Section 4.2.1) and HU-B (Section 4.2.2). Appendix F provides the well maintenance checklists for the annual inspection of the SLDS groundwater monitoring wells conducted on April 7, 2022.

Table 4-1. Screened HUs for Groundwater Monitoring Wells in CY 2022

Well ID	Screened HU
B16W06D[a]	HU-B
B16W06S[a]	HU-A
B16W07D	HU-B
B16W08D[a]	HU-B
B16W08S[a]	HU-A
B16W09D	HU-B
B16W12S[a]	HU-A
DW14	HU-B
DW15[a]	HU-B
DW16	HU-B
DW17	HU-B
DW18[a]	HU-B
DW19RD[a,b]	HU-B
DW19RS[a,b]	HU-A
DW21[a]	HU-A

[a] Wells sampled in CY 2022.
[b] Replacement wells for DW19 were installed and developed in March 2019.

4.2.1 Evaluation of HU-A Groundwater Monitoring Data

The results of the CY 2022 groundwater sampling of HU-A groundwater at the SLDS are summarized in Table 4-2. During CY 2022, five HU-A monitoring wells (B16W06S, B16W08S, B16W12S, DW19RS, and DW21) were sampled. B16W06S was sampled in the second quarter for radionuclides (Ra-226, Ra-228, thorium [Th]-228, Th-230, Th-232, U-234, U-235, and U-238) and in the fourth quarter for arsenic and cadmium. B16W08S and DW19RS were sampled in the second quarter for arsenic, cadmium, and radionuclides. B16W12S was sampled in the fourth quarter for arsenic, cadmium, and radionuclides. DW21 was sampled for arsenic and cadmium in the first quarter.

Table 4-2. Analytes Detected in HU-A Groundwater in CY 2022

Analyte	Units	Station[a]	Minimum Detected	Maximum Detected	Mean Detected	Frequency of Detection
Arsenic	µg/L	B16W06S	130	130	130	1/1
		B16W08S	1.9	1.9	1.9	1/1
		B16W12S	1.9	1.9	1.9	1/1
		DW19RS	7.6	7.6	7.6	1/1
		DW21	81	81	81	1/1
Cadmium	µg/L	B16W08S	0.68	0.68	0.68	1/1
		B16W12S	1.1 J	1.1 J	1.1 J	1/1
		DW19RS	0.88	0.88	0.88	1/1
Th-230	pCi/L	B16W06S	0.55 J	0.55 J	0.55 J	1/1
		B16W08S	0.77 J	0.77 J	0.77 J	1/1
		B16W12S	0.81 J	0.81 J	0.81 J	1/1
		DW19RS	1.2 J	1.2 J	1.2 J	1/1
U-234	pCi/L	B16W08S	2.5	2.5	2.5	1/1
		B16W12S	2.0	2.0	2.0	1/1
		DW19RS	5.1	5.1	5.1	1/1
U-238	pCi/L	B16W08S	1.5 J	1.5 J	1.5 J	1/1
		B16W12S	1.6	1.6	1.6	1/1
		DW19RS	3.6	3.6	3.6	1/1
Total U[b]	µg/L	B16W08S	4.4	4.4	4.4	1/1
		B16W12S	4.8	4.8	4.8	1/1
		DW19RS	11.2	11.2	11.2	1/1

[a] Table lists only those stations at which the analyte was detected in HU-A groundwater.
[b] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities and assuming secular equilibrium.
Validation qualifier (VQ) symbol indicates: "J" analyte was identified as estimated quantity.

The analytes detected in HU-A groundwater in CY 2022 are listed in Table 4-2. The remaining SLDS COCs (Ra-226, Th-228, and Th-232) were not detected in the five HU-A groundwater wells monitored during CY 2022. Trend analysis was conducted for arsenic in B16W06S, DW19RS, and DW21; and total U in B16W08S, B16W12S, and DW19RS. Because total U values are calculated using the U-234, U-235, and U-238 values, the trends in their values should be the same as the total U trend results. Therefore, it was not necessary to perform a separate trend analysis for each of these isotopes for B16W08S, B16W12S, and DW19RS. Because the majority of their historical results were near or below their detection limits (DLs), a trend analysis was not performed for arsenic in B16W08S, and B16W12S; cadmium in B16W08S, B16W12S, and DW19RS; and Th-230 in B16W06S, B16W08S, B16W12S, and DW19RS.

Based on the graphs and quantitative evaluation of trends using the Mann-Kendall Trend Test (Section 4.2.3), there was a statistically significant downward trend in the arsenic concentrations in DW21. No other statistically significant trends were identified in the COCs detected in the HU-A groundwater for the wells sampled in CY 2022. Time-versus-concentration plots for arsenic and total U are provided on Figure 4-4 and Figure 4-5, respectively.

4.2.2 Evaluation of HU-B Groundwater Monitoring Data

The results of the CY 2022 groundwater sampling of HU-B groundwater at the SLDS are summarized in Table 4-3. During CY 2022, five HU-B monitoring wells (B16W06D, B16W08D, DW15, DW18, and DW19RD) were sampled. B16W06D and B16W08D were sampled in the second quarter for arsenic, cadmium, and radionuclides. DW15 was sampled in the third quarter for arsenic, cadmium, and radionuclides. DW18 was sampled in the fourth quarter for arsenic and cadmium. DW19RD was sampled in the fourth quarter for arsenic, cadmium, and radionuclides.

Table 4-3. Analytes Detected in HU-B Groundwater in CY 2022

Analyte	ROD Groundwater Criteria		Units	Station[b]	Minimum Detected	Maximum Detected	Mean Detected	Number of Detects > ROD Groundwater Criteria	Frequency of Detection
	IL[a]	40 *CFR* 192.02, Table 1, Subpart A							
Arsenic	50	NA	µg/L	B16W06D	1	1	1	0	1/1
				B16W08D	20	20	20	0	1/1
				DW15	45	45	45	0	1/1
				DW18	60	60	60	1	1/1
				DW19RD	20	20	20	0	1/1
Cadmium	5	NA	µg/L	B16W06D	0.56	0.56	0.56	0	1/1
				B16W08D	0.35	0.35	0.35	0	1/1
				DW15	0.40	0.40	0.40	0	1/1
				DW18	0.26 J	0.26 J	0.26 J	0	1/1
Th-228	NA	NA	pCi/L	DW15	0.66 J	0.66 J	0.66 J	NA	1/1
				DW19RD	0.45 J	0.45 J	0.45 J	NA	1/1
Th-230	NA	NA	pCi/L	B16W06D	0.73 J	0.73 J	0.73 J	NA	1/1
				B16W08D	0.83 J	0.83 J	0.83 J	NA	1/1
				DW15	0.66 J	0.66 J	0.66 J	NA	1/1
				DW19RD	0.64 J	0.64 J	0.64 J	NA	1/1
U-234	NA	NA	pCi/L	DW15	0.41 J	0.41 J	0.41 J	NA	1/1
				DW19RD	51.7	51.7	51.7	NA	1/1
U-235	NA	NA	pCi/L	DW19RD	2.3	2.3	2.3	NA	1/1
U-238	NA	NA	pCi/L	DW19RD	51.1	51.1	51.1	NA	1/1
Total U[c]	20	NA	µg/L	DW15	0.63	0.63	0.63	0	1/1
				DW19RD	153.6	153.6	153.6	1	1/1

[a] USACE 1998a.

[b] Table lists only those stations at which the analyte was detected in HU-B groundwater.

[c] Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities and assuming secular equilibrium.

NA – not appropriate. (No IL is specified or the concentration limits specified in Table 1 of 40 *CFR* 192.02, Subpart A, are the same or less stringent than the IL and thus not relevant or appropriate).

VQ symbol indicates: "J" analyte was identified as estimated quantity.

During CY 2022, one inorganic SLDS COC, arsenic, was detected at a concentration above its ROD groundwater criterion in HU-B groundwater. The concentration of arsenic exceeded the IL (50 µg/L) in the sample collected during the fourth quarter of CY 2022 from DW18 (60 µg/L). The time-versus-concentration plot for arsenic in DW18 is provided on Figure 4-4.

One radiological COC, total U, exceeded its ROD groundwater criteria in HU-B groundwater at the SLDS during CY 2022. The concentration of total U exceeded the IL (20 µg/L) in the sample collected during the fourth quarter of CY 2022 from DW19RD, the HU-B replacement well for DW19. The concentration of total U had exceeded the IL in the annual groundwater samples collected from DW19 since installation of the well in CY 1999. On August 3, 2016, DW19 was plugged and abandoned so that remediation activities could be conducted in that area. In March 2019, after the remediation activities were completed, DW19RD was installed to allow continued assessment of contaminant concentration trends in HU-B in this area. The total U concentration detected in the CY 2022 sample from DW19RD was 153.6 µg/L. The overall average total U concentration detected at DW19RD (112.7 µg/L) is similar to the average concentration detected in the samples collected at DW19 prior to its decommissioning (87.0 µg/L). The total U time-versus-concentration plots in unfiltered groundwater at the SLDS are shown on Figure 4-5.

Based on the time-versus-concentrations plots and quantitative evaluation of trends using the Mann-Kendall Trend Test (Section 4.2.3), one statistically significant trend was identified in HU-B

groundwater. There is a statistically significant upward trend in arsenic concentrations in DW18. An expanded version of the time-versus-concentration plot and trend is provided on Figure 4-6 for arsenic in DW18.

Based on the time-versus-concentrations plots and quantitative evaluation of trends using the Mann-Kendall Trend Test (Section 4.2.3), a statistically significant trend was not identified in the total U concentrations in DW19RD. Because total U values are calculated using the U-234, U-235, and U-238 values, the trends in their values should be the same as the total U trend results. Therefore, it was not necessary to perform a separate trend analysis for each of these isotopes. The total U concentration detected in DW19RD during CY 2022 exceeds the corresponding IL (20 µg/L), as did the two samples collected from this well in CY 2021. An expanded version of the time-versus-concentration plot and trends for total U in DW19 and its replacement well DW19RD is provided on Figure 4-6.

4.2.3 Comparison of Historical Groundwater Data

A quantitative evaluation of COC concentration trends in SLDS groundwater was conducted based on available sampling data for the period from January 1999 through December 2022. The Mann-Kendall Trend Test was used to evaluate possible trends for those COCs detected in HU-A and for those COCs that exceeded ROD groundwater criteria in HU-B during CY 2022. The Mann-Kendall Trend Test was not conducted for those COCs with a detection frequency less than 50 percent or historical results generally within the range of measurement error of their DLs. For HU-A, a trend analysis was conducted for arsenic in B16W06S, DW19RS, and DW21; and total U in B16W08S, B16W12S, and DW19RS. Because the historical results were generally below or only slightly above the DLs, a trend analysis was not performed for arsenic in B16W08S and B16W12S; cadmium in B16W08S, B16W12S, and DW19RS; or Th-230 in B16W06S, B16W08S, B16W12S, and DW19RS. The Mann-Kendall Trend Test was conducted for two COCs that exceeded the ILs in HU-B wells during CY 2022: arsenic in DW18, and total U in DW19RD.

Statistical Method and Trend Analysis

Several statistical methods are available to evaluate contaminant trends in groundwater. These include the Mann-Kendall Trend Test, the Wilcoxon Rank Sum (WRS) Test, and the Seasonal Kendall Test (USEPA 2000). The latter two tests are applicable to data that may or may not exhibit seasonal behavior, but generally require larger sample sizes than the Mann-Kendall Trend Test. The Mann-Kendall Trend Test was selected for this project because this test can be used with small sample sizes (as few as four data points with detect values) and because a seasonal variation in concentrations was not indicated by the time-versus-concentration plots at the SLDS. The Mann-Kendall Trend Test is a non-parametric test and, as such, is not dependent upon assumptions of distribution, missing data, or irregularly-spaced monitoring periods. In addition, data reported as being less than the DL can be used (Gibbons 1994). The test can assess whether a time-ordered dataset exhibits an increasing or decreasing trend, within a predetermined level of significance. While the Mann-Kendall Trend Test can use as few as four data points, often this is not enough data to detect a trend. Therefore, the test was performed only at those monitoring stations where data have been collected for at least six sampling events.

A customized Microsoft Excel® spreadsheet was used to perform the Mann-Kendall Trend Test. The test involves listing the sampling results in chronological order and computing all differences that may be formed between current measurements and earlier measurements. The value of the test statistic (S) is the difference between the number of strictly positive differences and the number of strictly negative differences. If S is a large positive value, then there is evidence of an increasing trend in the data. If S is a large negative value, then there is evidence of a decreasing trend in the

data. If there is no trend and all observations are independent, then all rank orderings of the annual statistics are equally likely (USEPA 2000). The results of the Mann-Kendall Trend Test are reported in terms of a p value or Z-score, depending on sample size, N. If the sample size is less than or equal to 10, then the p value is computed. If the p value is less than or equal to 0.05, the test concludes that the trend is statistically significant. If the p value is greater than 0.05, the test concludes there is no evidence of a significant trend. For dataset sizes larger than 10, the Z-score is compared to ±1.64, which is the comparison level at a 95 percent confidence level. If the Z-score is greater than +1.64, the test concludes that a significant upward trend exists. If the Z-score is less than –1.64, the test concludes that a significant downward trend exists. For Z-scores between –1.64 and +1.64, there is no statistical evidence of a significant trend.

The results of the Mann-Kendall Trend Test are less reliable for datasets containing high numbers of non-detects, particularly if the DL changes over time. Thus, for datasets for which more than 50 percent of the time-series data are non-detect, the Mann-Kendall Trend Test was not conducted. There is no general consensus regarding the percentage of non-detects that can be handled by the Mann-Kendall Trend Test.

Only unfiltered data were used, and split sample and QC sample results were not included in the dataset for the Mann-Kendall Trend Test. The Mann-Kendall Trend Test is used to evaluate the data and determine trends without regard to isotopic analysis. In addition, for monitoring wells for which the Mann-Kendall Trend Test has indicated a trend (either upward or downward), another analysis is performed to determine if the trend is due to inherent error associated with the analytical test method for each sample analysis. For this analysis, graphs are generated to depict the trends, if present, and the range of associated measurement error.

Results of Trend Analysis for Groundwater

The Mann-Kendall Trend Test results are provided in Table 4-4. Time-versus-concentration plots for those wells and analytes exhibiting a statistically significant trend based on the Mann-Kendall Trend Test results (i.e., arsenic in DW18 and DW21) are provided on Figure 4-6. Although the Mann-Kendall Trend Test did not identify a trend in the total U results in DW19RD, a time-versus-concentration plot is provided on Figure 4-6 for the replacement well for DW19.

Table 4-4. Results of Mann-Kendall Trend Test for Groundwater in CY 2022

Analyte	Station	HU	N[a]	Test Statistics[b,c]		Trend[d]
				S	Z	
Arsenic	B16W06S	HU-A	28	-25	-0.47	No Trend
	DW18	HU-B	35	331	4.69	Upward Trend
	DW19RS	HU-A	9	8	0.24	No Trend
	DW21	HU-A	32	-233	-3.77	Downward Trend
Total U	B16W08S	HU-A	14	29	1.53	No Trend
	B16W12S	HU-A	19	27	0.91	No Trend
	DW19RD	HU-B	10	19	0.05	No Trend
	DW19RS	HU-A	9	14	0.09	No Trend

[a] N is the number of unfiltered groundwater sample results for a particular analyte at the well over a particular time period. The time period is between January of 1999 and December of 2022. For DW19RD and DW19RS, which were installed in March 2019, the dataset was restricted to March 2019 to December 2022.

[b] Mann-Kendall Trend Tests were performed at a 95 percent level of confidence.

[c] Test Statistics: S – S-statistic, Z – Z-score, or normalized test statistic (used if N>10).

[d] Trend: The Z-score is compared to ±1.64 to determine trend significance.

Inorganics

Based on the results of the Mann-Kendall Trend Test, two wells exhibit statistically significant trends: a downward trend for arsenic in HU-A well DW21 and an upward trend for arsenic in HU-B well DW18. Because the Mann-Kendall Trend Test does not consider the effects of measurement error and does not provide any information concerning the magnitude of the trend, time-versus-concentration plots of arsenic in DW18 and DW21 were used to evaluate these factors (Figure 4-6). The plots also show the best-fit trend lines based on the data scatter. No other significant changes in the concentrations of the inorganic COCs occurred in HU-A or HU-B groundwater during CY 2022.

Radionuclides

The Mann-Kendall Trend Test results indicate there is no trend in total U concentrations in HU-A wells B16W08S, B16W12S, and DW19RS; and in HU-B well DW19RD. The time-versus-concentration plots for B16W08S, B16W12S, DW19RS, and DW19RD are provided on Figure 4-5. The concentrations of total U in DW19RS and DW19RD in CY 2022 were 11.2 µg/L and 153.6 µg/L, respectively. The total U concentration in DW19RD exceeded the corresponding IL for HU-B groundwater (20 µg/L). An expanded version of the time-versus-concentration plot for total U in DW19 and its replacement well DW19RD is provided on Figure 4-6. The best-fit trend line included on the time-versus concentration plot for total U in DW19 and DW19RD confirms there is no significant trend in the results.

4.2.4 Evaluation of Potentiometric Surface

Groundwater elevations were measured in monitoring wells at the SLDS in February, May, August, and November of CY 2022. Potentiometric surface maps were created from the May and August measurements to illustrate groundwater flow conditions in wet and dry seasons, respectively. The potentiometric maps for both HU-A and HU-B are presented on Figures 4-7 through 4-10.

The groundwater surface in HU-A under the eastern portion of the Mallinckrodt plant typically slopes northeast toward the Mississippi River. Comparison of Figure 4-7 (May) with Figure 4-9 (November) indicates groundwater flow patterns in HU-A were consistent for the wet and dry season conditions during CY 2022. During CY 2022, the HU-A potentiometric surface elevations averaged approximately 6.5 ft higher during the wet season (May) than during the dry season (August).

As shown on Figures 4-8 and 4-10, the groundwater flow patterns in HU-B are strongly influenced by river stage. This indicates that groundwater in HU-B is hydraulically connected to the Mississippi River. The flow direction in HU-B is generally north-northeasterly toward the river in both the wet and dry seasons. A localized groundwater depression was observed in the vicinity of the two HU-B wells DW18 and B16W07D, likely due to decreased recharge from the river and decreased seepage from overlying HU-A in that area. The HU-B groundwater elevations in CY 2022 averaged approximately 16.8 ft higher in the wet season (May) than during the dry season (August). In comparison, the difference in the Mississippi River stage in St. Louis was approximately 17.5 ft higher on May 19 (398.9 ft above mean sea level [amsl]) than on August 25 (381.4 ft amsl).

5.0 ENVIRONMENTAL QUALITY ASSURANCE PROGRAM

5.1 PROGRAM OVERVIEW

The environmental quality assurance (QA) program includes management of the QA and QC programs, plans, and procedures governing environmental monitoring activities at all SLS and at subcontracted vendor laboratories. This section describes the environmental monitoring standards of the FUSRAP and the goals for these programs, plans, and procedures.

The environmental QA program provides the FUSRAP with reliable, accurate, and precise monitoring data. The program furnishes guidance and directives to detect and prevent problems from the time a sample identification number is issued until the associated data are evaluated and reported.

Key elements in achieving the goals of this program are maintaining compliance with the QA program; personnel training; compliance assessments; use of QC samples; documentation of field activities and laboratory analyses; and a review of data to document precision, accuracy, and completeness.

General objectives are as follows:

- To provide data of sufficient quality and quantity to support ongoing remedial efforts, to aid in defining potential COCs, to meet the requirements of the EMG (USACE 1999a) and the *Sampling and Analysis Guide for the St. Louis Sites* (SAG) (USACE 2000), and to support the ROD (USACE 1998a);
- To provide data of sufficient quality to meet applicable State of Missouri and federal concerns (e.g., reporting requirements); and
- To ensure samples were collected using approved techniques and are representative of existing site conditions.

5.2 QUALITY ASSURANCE PROGRAM PLAN

The quality assurance program plan (QAPP) for activities performed at the SLDS is described within Section 3.0 of the SAG. The QAPP provides the organization, objectives, functional activities, and specific QA/QC activities associated with investigations and sampling activities at the SLDS.

QA/QC procedures are performed in accordance with applicable professional technical standards, USEPA requirements, government regulations and guidelines, and specific project goals and requirements. The QAPP was prepared in accordance with USEPA and USACE guidance documents, including *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans* (USEPA 1991), *EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations* (USEPA 1994), and Engineer Manual (EM) 200-1-3, *Requirements for the Preparation of Sampling and Analysis Plans* (USACE 2001).

5.3 SAMPLING AND ANALYSIS GUIDE

The SAG summarizes standard operating procedures (SOPs) and data quality requirements for collecting and analyzing environmental data. The SAG integrates protocols and methodologies identified under various USACE and regulatory guidance. It describes administrative procedures for managing environmental data and governs sampling plan preparation, data review, evaluation and validation, database administration, and data archiving. The identified sampling and monitoring structures are delineated in programmatic documents such as the EMG (USACE 1999a), which is an

upper tier companion document to the SAG (USACE 2000). The EMICY22 outlines the analyses to be performed at each site for various media (USACE 2021).

Flexibility to address non-periodic environmental sampling (e.g., specific studies regarding environmental impacts, well installations, and/or in-situ waste characterizations) was accomplished by the issuance of work descriptions. Environmental monitoring data obtained during these sampling activities were reported to USEPA Region 7 on a quarterly basis in the Federal Facilities Agreement Progress Reports.

5.4 FIELD SAMPLE COLLECTION AND MEASUREMENT

Prior to beginning field sampling, field personnel were trained, as necessary, and participated in a project-specific readiness review. These activities ensured that standard procedures were followed in sample collection and completion of field logbooks, chain-of-custody forms, labels, and custody seals. Documentation of training and readiness was submitted to the project file.

The master field investigation documents are the site field logbooks. The primary purpose of these documents is to record each day's field activities; personnel on each sampling team; and any administrative occurrences, conditions, or activities that may have affected the fieldwork or data quality of any environmental samples for any given day. Guidance for documenting specific types of field sampling activities in field logbooks or log sheets is provided in Appendix C of EM 200-1-3 (USACE 2001).

At any point in the process of sample collection or data and document review, a non-conformance report may be initiated if non-conformances are identified (Leidos 2015a). Data entered into the St. Louis FUSRAP database may be flagged accordingly.

5.5 PERFORMANCE AND SYSTEM AUDITS

Performance and system audits of both field and laboratory activities were conducted to verify that sampling and analysis activities were performed in accordance with the procedures established in the SAG and activity-specific work description or the EMICY22 (USACE 2021).

5.5.1 Field Assessments

Internal assessments (audit or surveillance) of field activities (sampling and measurements) are conducted periodically by the QA/QC Officer (or designee). Assessments could include an examination of field sampling records; field instrument operating records; sample collection, handling, and packaging procedures; and maintenance of QA procedures and chain-of-custody forms. These assessments occurred at the onset of the project to verify that all established procedures were followed (systems audit).

Performance assessments followed the systems audit to ensure that deficiencies had been corrected and to verify that QA practices/procedures were being maintained throughout the duration of the project. These assessments involved reviewing field measurement records, instrumentation calibration records, and sample documentation.

External assessments may be conducted at the discretion of the USACE, USEPA Region 7, or the Missouri Department of Natural Resources (MDNR).

5.5.2 Laboratory Audits

The on-site FUSRAP St. Louis Radioanalytical Laboratory locations are subject to periodic review(s) by the local USACE Chemist to demonstrate compliance with the *Department of Defense/Department of Energy Consolidated Quality Systems Manual for Environmental*

Laboratories (QSM) (DoD and DOE 2017). Accordingly, the on-site laboratories participate in blind, third-party performance evaluation studies (performance audits) at least twice per year, with results reported to the local USACE point(s) of contact. In addition, contract laboratories are required to be accredited under the DoD Environmental Laboratory Accreditation Program (ELAP). The DoD ELAP requires an annual audit and re-accreditation every 3 years. The annual ELAP audit was performed on August 22 through 24, 2022.

These system audits include examining laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records. Performance audits consist of USACE laboratories receiving performance evaluation samples from an outside vendor for an ongoing assessment of laboratory precision and accuracy. The analytical results of the analysis of performance evaluation samples are evaluated by the local USACE Chemist to ensure that laboratories maintain acceptable performance.

Internal performance and system audits of laboratories were conducted by the Laboratory QA Manager as directed in the *Laboratory Quality Assurance Plan for the FUSRAP St. Louis Radioanalytical Laboratory* (USACE 2018). System audits included an examination of laboratory documentation of sample receipt, sample log-in, sample storage, chain-of-custody procedures, sample preparation and analysis, and instrument operating records against the requirements of the laboratory's SOPs. Internal performance audits were also conducted on a regular basis. Single-blind performance samples were prepared and submitted along with project samples to the laboratory for analysis. The Laboratory QA Manager evaluated the analytical results of these single-blind performance samples to ensure that the laboratory maintained acceptable performance. Quarterly QA/QC reports were generated and provided to the local USACE authority – the reports document the ongoing QC elements and provide for further monitoring of quality processes/status. Also, QA plans and methodology follow the guidance presented in the QSM (DoD and DOE 2017).

5.6 SUBCONTRACTED LABORATORY PROGRAMS

All samples collected during environmental monitoring activities were analyzed by USACE-approved subcontractor laboratories. QA samples were collected for groundwater and were analyzed by the designated USACE QA laboratory. Each laboratory supporting this work maintained statements of qualifications, including organizational structure, QA Manual, and SOPs. Additionally, subcontracted laboratories are also required to be an accredited laboratory under the DoD ELAP.

Samples collected during these investigations were analyzed by the USEPA methods contained in *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846*, (USEPA 1993) and by other documented USEPA or nationally recognized methods. Laboratory SOPs are based on the QSM (DoD and DOE 2017).

5.7 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

QA/QC samples were collected and analyzed for the purpose of assessing the quality of the sampling effort and the reported analytical data. QA/QC samples include duplicate samples (–1) and split samples (–2). The equation utilized for accuracy and precision can be found in Section 5.9.

5.7.1 Duplicate Samples

Duplicate samples measure precision and were collected by the sampling teams. Samples were submitted for analysis to the on-site project laboratory or contract laboratories. The purpose of these

samples is to provide activity-specific, field-originated information regarding the homogeneity of the sampled matrix and the consistency of the sampling effort. These samples were collected concurrently with the primary environmental samples and equally represent the medium at a given time and location. Duplicate samples were collected from groundwater and were submitted to the contracted laboratories for analysis. Approximately one duplicate sample was collected for every 20 groundwater samples for non-radiological and radiological analytes at the SLDS. Precision is measured by the relative percent difference (RPD) for radiological and non-radiological analyses or by the normalized absolute difference (NAD) for radiological analyses.

The RPDs for non-radiological analyses are presented in Table 5-1. The RPDs and NADs for radiological analyses are presented in Table 5-2. The overall precision for the CY 2022 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-1. Non-Radiological Duplicate Sample Analysis for CY 2022 – Groundwater

Groundwater Sample Name[a]	Arsenic	Cadmium
	RPD[b]	RPD[b]
SLD264420 / SLD264420-1	0.00	NC

[a] Groundwater samples ending in "-1" are duplicate groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent.
NC – not calculated (due to one or both concentrations being below minimum detectable concentrations [MDCs])

Table 5-2. Radiological Duplicate Sample Analysis for CY 2022 – Groundwater

Groundwater Sample Name[a]	Ra-226		Ra-228		Th-228		Th-230	
	RPD[b]	NAD	RPD[b]	NAD	RPD[b]	NAD	RPD[b]	NAD
SLD264420 / SLD264420-1	NC	NA	*	*	NC	NA	33.74	0.40
Groundwater Sample Name[a]	**Th-232**		**U-234**		**U-235**		**U-238**	
	RPD[b]	**NAD**	**RPD[b]**	**NAD**	**RPD[b]**	**NAD**	**RPD[b]**	**NAD**
SLD264420 / SLD264420-1	NC	NA	1.15	NA	37.84	0.70	4.60	NA

[a] Groundwater samples ending in "-1" are duplicate groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent. If the RPD is greater than 30 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
* Not calculated because either the parent or split sample was not analyzed.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

5.7.2 Split Samples

Split samples measure accuracy and were collected by the sampling team and sent to a USACE QA laboratory for analysis to provide an independent assessment of contractor and subcontractor laboratory performance. Approximately one split sample was collected for every 20 groundwater samples for non-radiological and radiological analytes at the SLDS. The RPDs and NADs for non-radiological analyses are presented in Table 5-3. The RPDs and NADs for radiological analyses are presented in Table 5-4. The overall accuracy for CY 2022 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-3. Non-Radiological Split Sample Analysis for CY 2022 – Groundwater

Groundwater Sample Name[a]	Arsenic	Cadmium
	RPD[b]	RPD[b]
SLD264420 / SLD264420-2	10.53	NC

[a] Groundwater samples ending in "-2" are split groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent.
NC – not calculated (due to one or both concentrations being below MDCs)

Table 5-4. Radiological Split Sample Analysis for CY 2022 – Groundwater

Groundwater Sample Name[a]	Ra-226		Ra-228		Th-228		Th-230	
	RPD[b]	NAD	RPD[b]	NAD	RPD[b]	NAD	RPD[b]	NAD
SLD264420 / SLD264420-2	NC	NA	*	*	NC	NA	NC	NA
Groundwater Sample Name[a]	**Th-232**		**U-234**		**U-235**		**U-238**	
	RPD[b]	**NAD**	**RPD[b]**	**NAD**	**RPD[b]**	**NAD**	**RPD[b]**	**NAD**
SLD264420 / SLD264420-2	NC	NA	4.15	NA	9.32	NA	3.79	NA

[a] Groundwater samples ending in "-2" are split groundwater samples.
[b] RPD criterion for liquid samples is less than or equal to 30 percent. If the RPD is greater than 30 percent, then the NAD shall be less than or equal to 1.96 to remain within the control limits.
* Not calculated because either the parent or split sample was not analyzed.
NA – not applicable (see RPD)
NC – not calculated (due to one or both concentrations being below MDCs)

5.7.3 Equipment Rinsate Blanks

Equipment rinsate blank samples are typically taken from the rinsate water collected from equipment decontamination activities. These samples consist of analyte-free water that has been rinsed over sampling equipment for the purposes of evaluating the effectiveness of equipment decontamination. All of the monitoring wells have dedicated sampling equipment, rendering decontamination unnecessary. Because decontamination does not apply, equipment rinsate blanks were not employed.

5.8 DATA REVIEW, EVALUATION, AND VALIDATION

All data packages received from the analytical laboratory were reviewed and either evaluated and/or validated by data management personnel. Data validation is the systematic process of ensuring that the precision and accuracy of the analytical data are adequate for their intended use. Validation was performed in accordance with *Data Verification and Validation* (Leidos 2015b), and/or with project-specific guidelines. General chemical data quality management guidance found in Engineer Regulation (ER)-1110-1-263 (USACE 1998b) was also used when planning for chemical data management and evaluation. Additional details of data review, evaluation, and validation are provided in the *FUSRAP Laboratory Data Management Process for the St. Louis Site* (USACE 1999b). Data assessment guidance to determine the usability of data from hazardous, toxic, and radioactive waste projects is provided in EM-200-1-6 (USACE 1997).

One hundred (100) percent of the data generated from all analytical laboratories was independently reviewed and either evaluated or validated. The data review process documents the possible effects on the data from various QC failures; it does not determine data usability, nor does it include assignment of data validation qualifier (VQ) flags. The data evaluation or validation process uses the results of the data review to determine the usability of the data. The process of data evaluation summarizes the potential effects of QA/QC failures on the data, and the USACE District Chemist or District Health Physicist assesses their impact on the attainment of the project-specific data quality objectives (DQOs). Consistent with the data quality requirements, as defined in the DQOs, approximately 10 percent of all project data were validated.

5.9 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPARABILITY, COMPLETENESS, AND SENSITIVITY

The data evaluation process considers precision, accuracy, representativeness, completeness, comparability, and sensitivity. This section provides detail to the particular parameters and to how the data were evaluated for each, with discussion and tables to present the associated data. An

evaluation of the overall precision, accuracy, representativeness, completeness, comparability, and sensitivity of the CY 2022 environmental monitoring activities was acceptable and complete.

Accuracy and precision can be measured by the RPD or the NAD using the following equation:

$$RPD = \left(\frac{|S - D|}{\frac{S + D}{2}} \right) \times 100$$

$$NAD = \frac{|S - D|}{\sqrt{U_S^2 + U_D^2}}$$

where:

S = Parent Sample Result
D = Duplicate/Split Sample Result
U_S = Parent Sample Uncertainty
U_D = Duplicate/Split Sample Uncertainty
RPD has units of percent (%); NAD is unitless

The RPD is calculated for all samples if a detectable result is reported for both the parent and the QA field split or field duplicate. For radiological samples, when the RPD is greater than 30 percent, the NAD is used to determine the accuracy or precision of the method. NAD accounts for uncertainty in the results, RPD does not. The NAD should be less than or equal to 1.96. Neither equation is used when the analyte in one or both of the samples is not detected. In cases in which neither equation can be used, the comparison is counted as acceptable in the overall number of comparisons.

Precision is a measure of mutual agreement among individual measurements performed under the same laboratory controls. To evaluate for precision, a field duplicate is submitted to the same laboratory as the original sample to be analyzed under the same laboratory conditions. The RPD and NAD between the two results was calculated and used as an indication of the precision of the analyses performed (Tables 5-1 and 5-2). Sample collection precision was measured in the laboratory by the analyses of duplicates. The overall precision for the CY 2022 environmental monitoring sampling activities was acceptable.

Accuracy provides a gauge or measure of the agreement between an observed result and the true value for an analysis. The RPD and NAD between the two results was calculated and used as an indication of the accuracy of the analyses performed (Tables 5-3 and 5-4). For this report, accuracy is measured through the use of the field split samples through a comparison of the prime laboratory results versus the results of an independent laboratory. The overall accuracy for CY 2022 environmental monitoring sampling activities was acceptable.

Representativeness expresses the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition. Representativeness is a qualitative parameter that depends upon the proper design of the sampling program and proper laboratory protocols. Representativeness is satisfied through proper design of the sampling network, use of proper sampling techniques, following proper analytical procedures, and not exceeding holding times of the samples. Representativeness was determined by assessing the combined aspects of the QA program, QC measures, and data evaluations. The network design was developed from the EMICY22, the sampling protocols from the SAG have been followed, and analytical procedures were conducted within the bounds of the QAPP. The overall representativeness of the CY 2022 environmental monitoring activities was acceptable.

Comparability expresses the confidence with which one dataset can be compared to another. The extent to which analytical data will be comparable depends upon the similarity of sampling and analytical methods, as well as sample-to-sample and historical comparability. Standardized and consistent procedures used to obtain analytical data are expected to provide comparable results. For example, post-CY 1997 analytical data may not be directly comparable to data collected before CY 1997, because of differences in DQOs. Additionally, some sample media (e.g., stormwater and radiological monitoring) have values that are primarily useful in the present, thus the comparison to historic data is not as relevant. However, the overall comparability of the applicable environmental monitoring data met the project DQOs.

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the amount expected to be obtained under normal conditions. It is expected that laboratories will provide data meeting QC acceptance criteria for all samples tested. For the CY 2022 environmental monitoring activities, the data completeness was 100 percent (St. Louis FUSRAP DQO for completeness is 90 percent).

Sensitivity is the determination of minimum detectable concentration (MDC) values that allows the investigation to assess the relative confidence that can be placed in an analytical result in comparison to the magnitude or level of analyte concentration observed. For this report, MDC is a term generically used to represent both the method detection limit (MDL) for non-radiological analytes and the minimum detectable activity (MDA) for radiological analytes. The closer a measured value to the MDC, the less confidence and more variation the measurement will have. Project sensitivity goals were expressed as quantitation level goals in the SAG. These levels were achieved or exceeded throughout the analytical process.

The MDC is reported for each result obtained by laboratory analysis. These very low MDCs are achieved through the use of gamma spectroscopy for all radionuclides of concern, with additional analyses from alpha spectroscopy for thorium, and inductively coupled plasma (ICP) for metals. Variations in MDCs for the same radiological analyte reflects variability in the detection efficiencies and conversion factors due to factors such as individual sample aliquot, sample density, and variations in analyte background radioactivity for gamma and alpha spectroscopy, at the laboratory. Variations in MDLs for the same non-radiological analyte reflect variability in calibrations between laboratories, dilutions, and analytical methods. In order to complete the data evaluation (i.e., precision, accuracy, representativeness, and comparability), analytical results that exceed the MDC of the analyte are desired.

5.10 DATA QUALITY ASSESSMENT SUMMARY

The overall quality of the data meets the established project objectives. Through proper implementation of the project data review, evaluation, validation, and assessment process, project information has been determined to be acceptable for use.

Data, as presented, have been qualified as usable, but estimated when necessary. Data that have been estimated have concentrations/activities that are below the quantitation limit or are indicative of accuracy, precision, or sensitivity less than desired but adequate for interpretation.

These data can withstand scientific scrutiny, are appropriate for their intended purpose, are technically defensible, and are of known and acceptable precision and accuracy. Data integrity has been documented through proper implementation of QA/QC measures. The environmental information presented has an established confidence, which allows utilization for the project objectives and provides data for future needs.

5.11 RESULTS FOR PARENT SAMPLES AND THE ASSOCIATED DUPLICATE AND SPLIT SAMPLES

Table 5-5. Non-Radiological Parent Samples and Associated Duplicate and Split Samples for CY 2022 – Groundwater

Groundwater Sample Name[a]	Arsenic[b]			Cadmium[b]		
	Result	DL	VQ	Result	DL	VQ
SLD264420	20.00	1.60	=	0.20	0.20	U
SLD264420-1	20.00	1.60	=	0.20	0.20	U
SLD264420-2	18.00	0.50	=	0.49	0.19	=

[a] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.
[b] Result values are expressed in µg/L.
VQ symbols indicate: "=" for positively identified results and "U" for not detected.

Table 5-6. Radiological Parent Samples and Associated Duplicate and Split Samples for CY 2022 – Groundwater

Groundwater Sample Name[b]	Ra-226[a]				Ra-228[a]				Th-228[a]			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
SLD264420	0.91	0.80	1.11	UJ	*	*	*	*	0.45	0.34	0.31	J
SLD264420-1	0.52	0.61	0.95	UJ	*	*	*	*	0.37	0.35	0.55	UJ
SLD264420-2	0.23	0.14	0.19	J	*	*	*	*	-0.02	0.16	0.33	UJ
Groundwater Sample Name[b]	**Th-230[a]**				**Th-232[a]**				**U-234[a]**			
	Result	**Error**	**MDC**	**VQ**	**Result**	**Error**	**MDC**	**VQ**	**Result**	**Error**	**MDC**	**VQ**
SLD264420	0.64	0.41	0.43	J	0.01	0.13	0.42	UJ	51.70	6.61	0.53	=
SLD264420-1	0.90	0.51	0.48	J	0.05	0.13	0.34	UJ	52.30	6.67	0.39	=
SLD264420-2	0.06	0.24	0.39	UJ	0.03	0.09	0.19	UJ	49.60	4.91	0.25	=
Groundwater Sample Name[b]	**U-235[a]**				**U-238[a]**							
	Result	**Error**	**MDC**	**VQ**	**Result**	**Error**	**MDC**	**VQ**				
SLD264420	2.25	0.95	0.66	=	51.10	6.54	0.39	=				
SLD264420-1	3.30	1.15	0.48	=	48.80	6.30	0.53	=				
SLD264420-2	2.47	0.68	0.24	=	49.20	4.87	0.28	=				

[a] Results are expressed in pCi/L. Negative results are less than the laboratory system's background level.
[b] Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.
* Data for analyte are not available from laboratory analysis. Ra-228 assumed to be in equilibrium with Th-228.
VQ symbols indicate: "=" for positively identified results, "J" analyte was identified as estimated quantity, and "UJ" analyte was not detected and had QC deficiencies.

6.0 RADIOLOGICAL DOSE ASSESSMENT

This section evaluates the cumulative dose to a hypothetically impacted individual from exposure to radiological contaminants at the SLDS and documents dose trends. The regulatory dose limit for members of the public is 100 mrem per year, as stated in 10 *CFR* 20.1301. Although 10 *CFR* 20.1301 is not an ARAR for the SLDS, the USACE has provided this evaluation to evaluate public exposures from St. Louis FUSRAP cleanup operations. Compliance with the dose limit in §20.1301 can be demonstrated by one of the two following methods (§20.1302(b)(1) and (2)):

1. Demonstrating by measurement or calculation that the TEDE to the individual likely to receive the highest dose from SLDS operations does not exceed the annual dose limit (i.e., 100 mrem per year); or
2. Demonstrating that: (*i*) the annual average concentration of radioactive material released in gaseous and liquid effluents at the boundary of the unrestricted area does not exceed the values specified in Table 1 of Appendix B of 10 *CFR* 20; and (*ii*) if an individual were continuously present in an unrestricted area, the dose from external sources would not exceed 2 mrem per hour.

The USACE has elected to demonstrate compliance by calculation of the TEDE to a hypothetical individual likely to receive the highest dose from the SLDS operations (method 1). This section describes the methodology employed for this evaluation.

Dose calculations are presented for a hypothetical maximally exposed individual at the SLDS. The monitoring data used in the dose calculations are reported in the respective environmental monitoring sections of this EMDAR.

Dose calculations related to airborne emissions, as required by 40 *CFR* 61, Subpart I (*National Emission Standards for Emissions of Radionuclides Other Than Radon From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered By Subpart H*), are presented in Appendix B (the "St. Louis Downtown Site 2021 Radionuclide Emissions NESHAP Report Submitted in Accordance with Requirements of 40 *CFR* 61, Subpart I").

6.1 SUMMARY OF ASSESSMENT RESULTS

The TEDE from the SLDS to the receptor from all complete/applicable pathways combined was 2.8 mrem per year, estimated for an individual who works full-time at Gunther Salt (DT-4).

Figure 6-1 documents annual dose trends from CY 2000 to CY 2022 at the SLDS. A comparison of the maximum annual dose from CY 2000 to CY 2022 at the SLDS to the annual average natural background dose of approximately 620 mrem per year is provided on Figure 6-2.

6.2 PATHWAY ANALYSIS

Table 6-1 lists the four complete pathways for exposure from SLDS radiological contaminants evaluated by the St. Louis FUSRAP EMP. These pathways are used to identify data gaps in the EMP and to estimate potential radiological exposures from the SLDS. Of the four complete pathways, three were applicable in CY 2022 and were thus incorporated into radiological dose estimates.

Table 6-1. Complete Radiological Exposure Pathways

Exposure Pathway	Pathway Description	Applicable to CY 2022 Dose Estimate
Liquid A	Ingestion of groundwater from local wells downgradient from the site.	NA
Airborne A	Inhalation of particulates dispersed through wind erosion and RAs.	Y
Airborne B	Inhalation of Rn-222 and decay products emitted from contaminated soils/wastes.	Y
External	Direct gamma radiation from contaminated soils/wastes.	Y

NA – not applicable for the site
Y – applicable for the site

In developing specific elements of the St. Louis FUSRAP EMP, potential exposure pathways of the radioactive materials present on-site are reviewed to determine which pathways are complete. Evaluation of each exposure pathway is based on hypothesized sources, release mechanisms, types, probable environmental fates of contaminants, and the locations and activities of potential receptors. Pathways are then reviewed to determine whether a link exists between one or more radiological contaminant sources, or between one or more environmental transport processes, to an exposure point where human receptors are present. If it is determined that a link exists, the pathway is termed complete. Each complete pathway is reviewed to determine if a potential for exposure was present during CY 2022. If potential for exposure was present, the pathway is termed applicable. Only applicable pathways are considered in estimates of dose.

Table 6-1 shows the pathways applicable to the CY 2022 dose estimates for the SLDS. The Liquid A exposure pathway was not applicable in CY 2022, because the aquifer is of naturally low quality and it is not known to be used for any domestic purpose in the vicinity of the SLDS (DOE 1994).

6.3 EXPOSURE SCENARIOS

Dose calculations were performed for a maximally exposed individual at a critical receptor location for applicable exposure pathways (Table 6-1) to assess dose due to radiological releases from the SLDS. A second set of dose equivalent calculations were performed to meet NESHAP requirements (Appendix B), which were also used for purposes of TEDE calculation.

The scenarios and models used to evaluate these radiological exposures are conservative, but appropriate. Although radiation doses can be calculated or measured for individuals, it is not appropriate to predict the health risk to a single individual using the methods prescribed herein. Dose equivalents to a single individual are estimated by hypothesizing a maximally exposed individual and placing this individual in a reasonable, but conservative scenario. This method is acceptable when the magnitude of the dose to a hypothetical maximally exposed individual is small, as is the case for the SLDS. This methodology provides for reasonable estimates of potential exposure to the public and maintains a conservative approach. The scenarios and resulting estimated doses are outlined in Section 6.4.

6.4 DETERMINATION OF TOTAL EFFECTIVE DOSE EQUIVALENT FOR EXPOSURE SCENARIOS

The TEDE for the exposure scenario was calculated using CY 2022 monitoring data. Calculations for dose scenarios are provided in Appendix G. Dose equivalent estimates are well below the standards set by the U.S. Nuclear Regulatory Commission (NRC) for annual public exposure and USEPA NESHAP limits.

The CY 2022 TEDE for a hypothetical maximally exposed individual near the SLDS is 2.8 mrem per year.

This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent the perimeter of the SLDS and receive a radiation dose by the exposure pathways identified in Section 6.2. No private residences are adjacent to the site areas where uranium processing activities occurred. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A full-time employee business receptor was considered to be the maximally exposed individual from the SLDS.

The exposure scenario assumptions include the following:

- Exposure to radiation from all SLDS sources occurs to the maximally exposed individual while working full-time outside at the receptor location facility located approximately 50 m from the assumed line source. Exposure time is 2,000 hours per year (Leidos 2023b).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the site locations representative of areas accessible to the public between the source and the receptor. The site is assumed to represent a line-source to the receptor (Leidos 2023b).
- Exposure from airborne radioactive particulates was estimated using soil concentration data and air particulate monitoring data to determine a source term, and then running the CAP88-PC modeling code to estimate dose to the receptor (Leidos 2023b).
- Exposure from Rn-222 (and decay chain isotopes) was calculated using ATD monitoring data at the site locations representative of areas accessible to the public between the source and the receptor (Leidos 2023b).

Based on the exposure scenario and assumptions described above, a maximally exposed individual working outside at the receptor location facility received less than 0.1 mrem per year from external gamma, less than 0.1 mrem per year from airborne radioactive particulates, and 2.7 mrem per year from Rn-222, for a TEDE of 2.8 mrem per year (Leidos 2023b). In comparison, the average exposure to natural background radiation in the United States results in a TEDE of approximately 620 mrem per year (NCRP 2009). Although the estimated dose to a maximally exposed individual working outside at the receptor location facility was two orders of magnitude less than the average background dose in the United States, it was higher than the trending average for SLDS receptors. This increase in estimated dose trend was likely due to the change in receptor location and the increased amount of excavation activity that occurred at the new receptor location facility in CY 2022.

THIS PAGE INTENTIONALLY LEFT BLANK

7.0 REFERENCES

Cember, H., 1996. *Introduction to Health Physics.* Mcgraw-Hill, New York, NY. 1996.

City of St. Louis 2005. City Ordinance 66777, effective August 2005.

DoD 2000. U.S. Department of Defense, U.S. Department of Energy, U.S. Environmental Protection Agency, and U.S. Nuclear Regulatory Commission. *Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM).* NUREG 1575. EPA 402-R-97-016. August 2000.

DoD and DOE 2017. U.S. Department of Defense and U.S. Department of Energy. *Department of Defense (DoD)/Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories*. DOD Quality Systems Manual Version 5.1 and DOE Quality Systems for Analytical Services Version 3.1. 2017.

DOE 1994. U.S. Department of Energy. *Remedial Investigation Report for the St. Louis Site.* St. Louis, Missouri. DOE/OR/21949-280. January 1994.

DOE 1995. U.S. Department of Energy. *Remedial Investigation Addendum for the St. Louis Site.* St. Louis, Missouri. DOE/OR/ 21950-132. September 1995.

Gibbons, Robert D. 1994. *Statistical Methods for Groundwater Monitoring.* John Wiley and Sons, Inc., New York. January 1994.

Leidos 2015a. Leidos, Inc. Environmental Science & Engineering Operation, Standard Operating Procedure. "Control of Nonconforming Items." ESE A15.1. Revision 0. January 31, 2015.

Leidos 2015b. Leidos, Inc. *Data Verification and Validation.* Environmental Science & Engineering Operation. Standard Operating Procedure. ESE DM-05. Revision 0. January 31, 2015.

Leidos 2023a. Leidos, Inc. *Radon Working Levels (WL) at SLDS.* Calculation Package. March 2023.

Leidos 2023b. Leidos, Inc. *Total Effective Dose Equivalent (TEDE) to the Hypothetically Maximally Exposed Individual at SLDS.* Calculation Package. March 2023.

MSD 1998. Metropolitan St. Louis Sewer District. Letter dated October 30, 1998. From Bruce H. Litzsinger, Civil Engineer, to Ken Axetel, International Technology Corporation.

MSD 2001. Metropolitan St. Louis Sewer District. Letter dated July 23, 2001. From Bruce H. Litzsinger, Civil Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: St. Louis Downtown Site. File: IU – Mallinckrodt 21120596-00.

MSD 2004. Metropolitan St. Louis Sewer District. Letter dated October 13, 2004. From Roland A. Biehl, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. File: IU – Mallinckrodt 21120596-00.

MSD 2006. Metropolitan St. Louis Sewer District. Letter dated June 19, 2006. From Roland A. Biehl, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 2112059600, SP809.

MSD 2008. Metropolitan St. Louis Sewer District. Letter dated May 22, 2008. From Steven M. Grace, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 2112059600, SP809.

MSD 2010. Metropolitan St. Louis Sewer District. Letter dated May 10, 2010. From Steven M. Grace, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 2112059600, SP809.

MSD 2012. Metropolitan St. Louis Sewer District. Letter dated May 24, 2012. From Steven M. Grace, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 2112059600, SP809.

MSD 2014. Metropolitan St. Louis Sewer District. Letter dated June 23, 2014. From Steven M. Grace, Environmental Assistant Engineer, to Sharon Cotner, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 1011728100, SP809.

MSD 2016. Metropolitan St. Louis Sewer District. Letter dated July 18, 2016. From Steven M. Grace, Environmental Assistant Engineer, to Bruce Munholand, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 1011728100, SP809.

MSD 2018. Metropolitan St. Louis Sewer District. Letter dated June 11, 2018. From Steven M. Grace, Environmental Assistant Engineer, to Bruce Munholand, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 1011728100, SP809.

MSD 2020. Metropolitan St. Louis Sewer District. Letter dated July 16, 2020. From Steven M. Grace, Environmental Assistant Engineer, to Bruce Munholand, USACE FUSRAP Project Manager. Subject: FUSRAP St. Louis Downtown Site, File: IU-SPECGX 1011728100, SP809.

MSD 2022a. Metropolitan St. Louis Sewer District. Letter dated June 7, 2022. From Steven M. Grace, Environmental Assistant Engineer, to David Evans. Subject: FUSRAP St. Louis Downtown Site, File: IU-Mallinckrodt 1011728100, SP809.

MSD 2022b. Metropolitan St. Louis Sewer District. Email dated July 26, 2022. From Steve Grace, Environmental Assistant Engineer, to Gwenan Skoba. Subject: SLDS Discharge: Approval to increase daily discharge limit to 150,000 gallons of excavation water from SLDS.

NCRP 1988. National Council on Radiation Protection and Measurements. *Measurement of Radon and Radon Daughters in Air*. NCRP Report No. 97. November 1988.

NCRP 2009. National Council on Radiation Protection and Measurements. *Ionizing Radiation Exposure of the Population of the United States.* NCRP Report No. 160. 3 March 2009.

USACE 1997. U.S. Army Corps of Engineers, Environmental Quality. *Chemical Quality Assurance for HTRW Projects.* Engineer Manual. EM-200-1-6. October 10, 1997.

USACE 1998a. U.S. Army Corps of Engineers. *Record of Decision for the St. Louis Downtown Site.* St. Louis, Missouri. Final. July 1998.

USACE 1998b. U.S. Army Corps of Engineers, Engineering and Design. *Chemical Data Quality Management for Hazardous, Toxic, Radioactive Waste Remedial Activities.* Engineer Regulation. ER-1110-1-263. April 30, 1998.

USACE 1999a. U.S. Army Corps of Engineers. *Environmental Monitoring Guide for the St. Louis Sites.* Final. December 1999.

USACE 1999b. U.S. Army Corps of Engineers. *FUSRAP Laboratory Data Management Process for the St. Louis Site.* St. Louis, Missouri. June 1999.

USACE 2000. U.S. Army Corps of Engineers. *Sampling and Analysis Guide for the St. Louis Site.* Final. October 2000.

USACE 2001. U.S. Army Corps of Engineers, Environmental Quality. *Requirements for the Preparation of Sampling and Analysis Plans.* Engineer Manual. EM 200-1-3. February 1, 2001.

USACE 2003. U.S. Army Corps of Engineers. *Phase 1 Ground-Water Remedial Action Alternative Assessment (GRAAA) at SLDS.* St. Louis Missouri. Final. June 2003.

USACE 2018. U.S. Army Corps of Engineers. *Laboratory Quality Assurance Plan for the FUSRAP St. Louis Radiological Laboratory.* St. Louis, Missouri. Revision 11. February 2018.

USACE 2021. U.S. Army Corps of Engineers. *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2022.* St. Louis, Missouri. Revision 0. December 23, 2021.

USEPA 1987. U.S. Environmental Protection Agency. *Environmental Radon.* Volume 35. New York. 1987.

USEPA 1989. U.S. Environmental Protection Agency, Office of Health and Environmental Assessment, Washington D.C. *Exposure Factor Handbook.* EPA/600/8-89/043. July 1989.

USEPA 1991. U.S. Environmental Protection Agency. *Interim Guidelines and Specifications for Preparing Quality Assurance Project Plans.* QAMS-005/80. 1991.

USEPA 1993. U.S. Environmental Protection Agency. *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods. SW-846.* Third Edition. Final Update III-A. EPASW-846.3-3a. March 1993.

USEPA 1994. U.S. Environmental Protection Agency. *EPA Requirements for Quality Assurance Project Plans for Environmental Data Operations.* EPA QA/R-5. January 1994.

USEPA 2000. U.S. Environmental Protection Agency. *Guidance for Data Quality Assessment - Practical Methods for Data Analysis.* EPA QA/G-9. QA00 Update. July 2000.

USEPA 2020. U.S. Environmental Protection Agency. CAP88-PC Version 4.1 Computer Code, March 2020.

10 *CFR* 20, *Standards for Protection Against Radiation.*

10 *CFR* 20.1301, *Dose Limits for Individual Members of the Public*.

40 *CFR* 61, Subpart I, *National Emission Standards for Radionuclide Emissions from Federal Facilities Other than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

40 *CFR* 192, *Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings.*

THIS PAGE INTENTIONALLY LEFT BLANK

FIGURES

THIS PAGE INTENTIONALLY LEFT BLANK

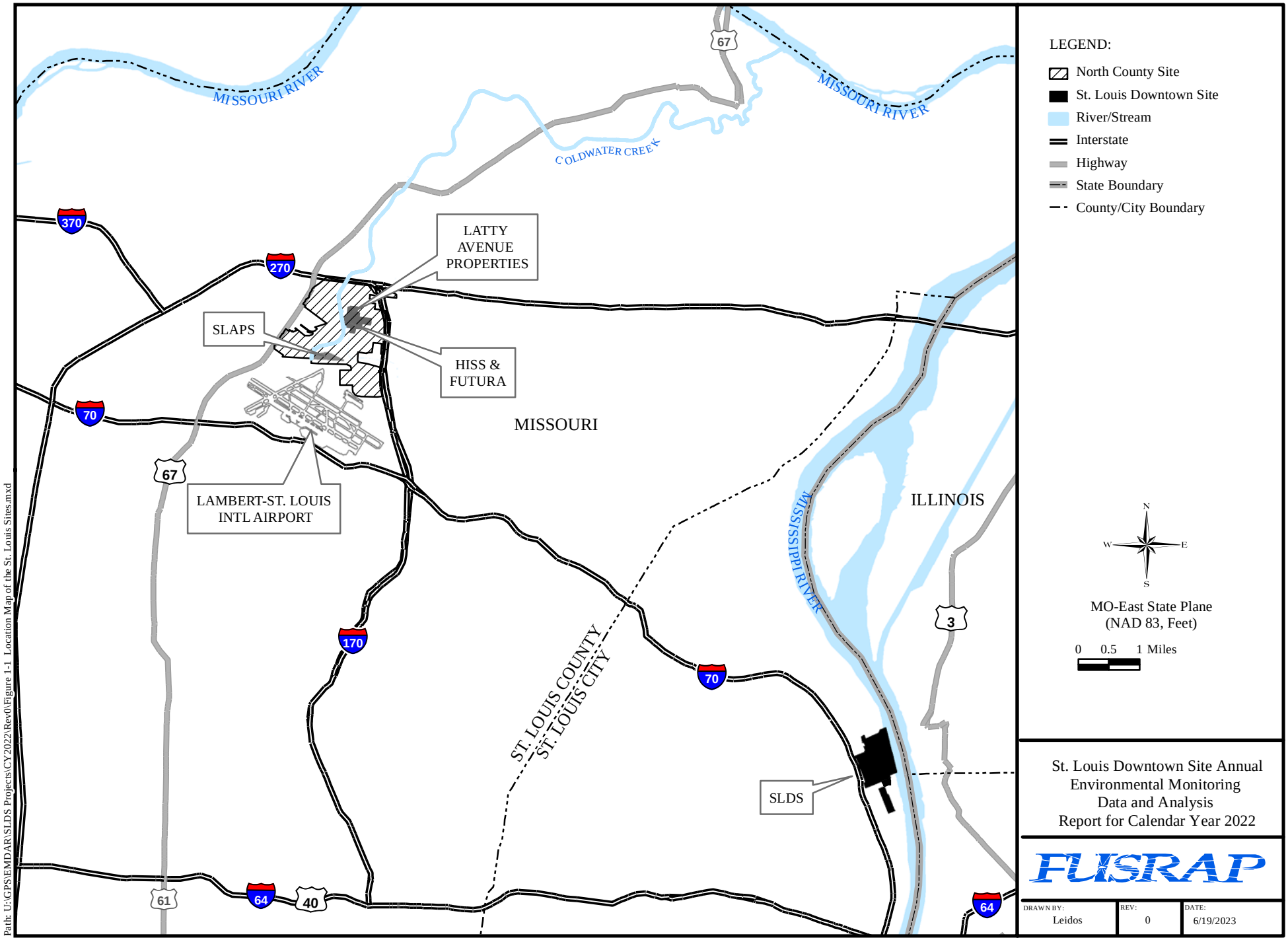


Figure 1-1. Location Map of the St. Louis Sites

Path: U:\GPS\EMDAR\SLDS Projects\CY2022\Rev0\Figure 1-2 Plan View of the SLDS.mxd

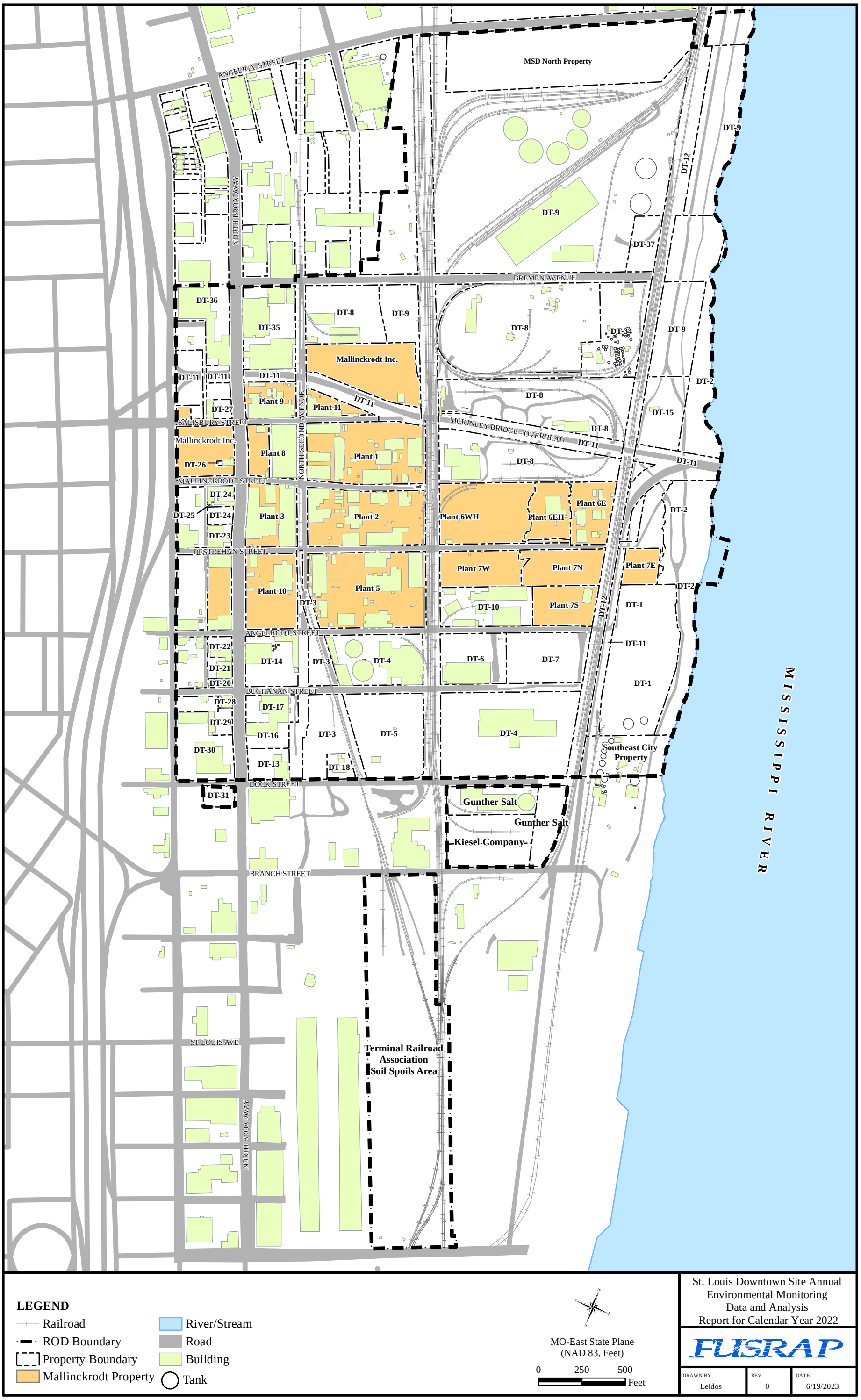


Figure 1-2. Plan View of SLDS

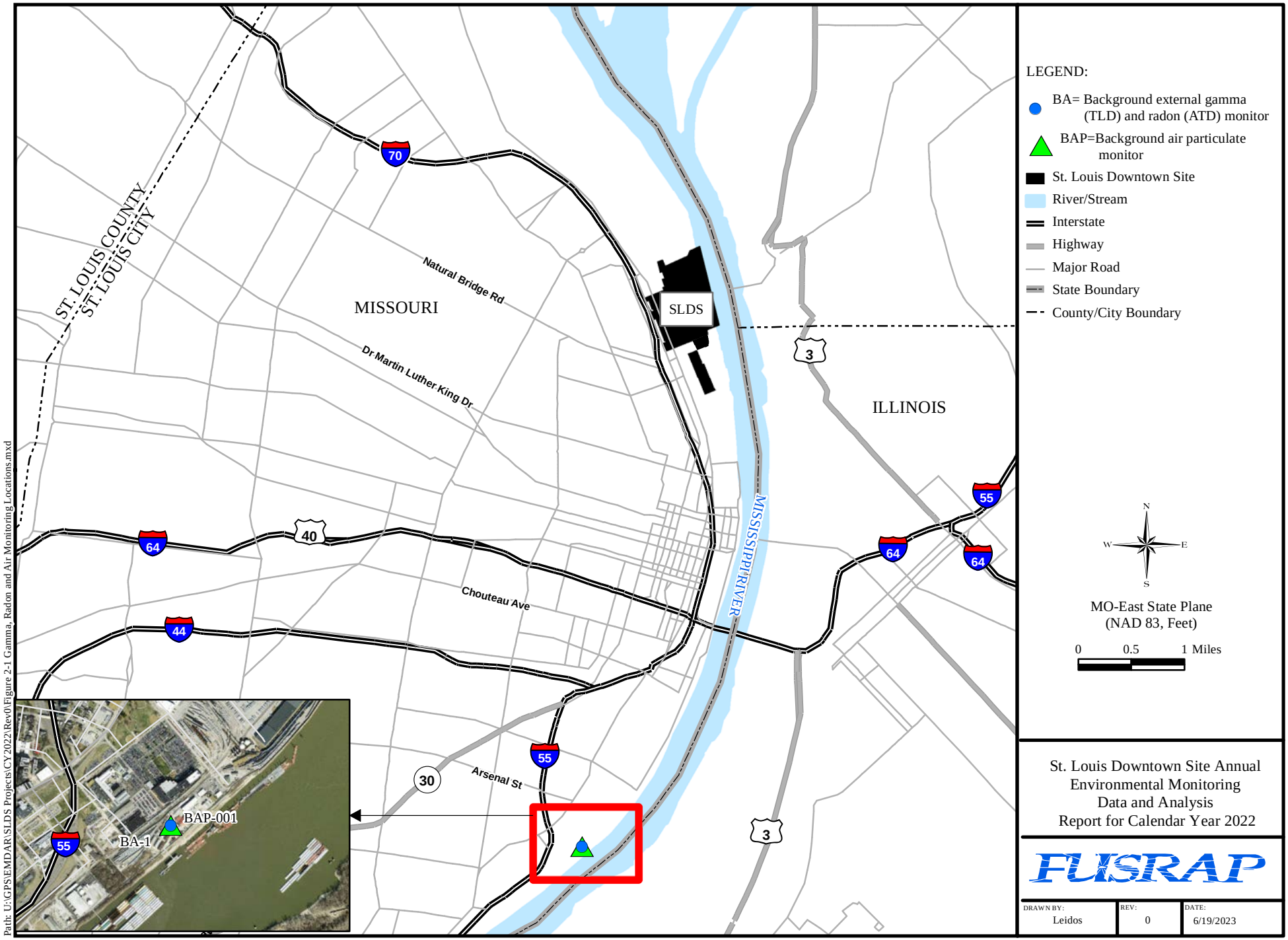
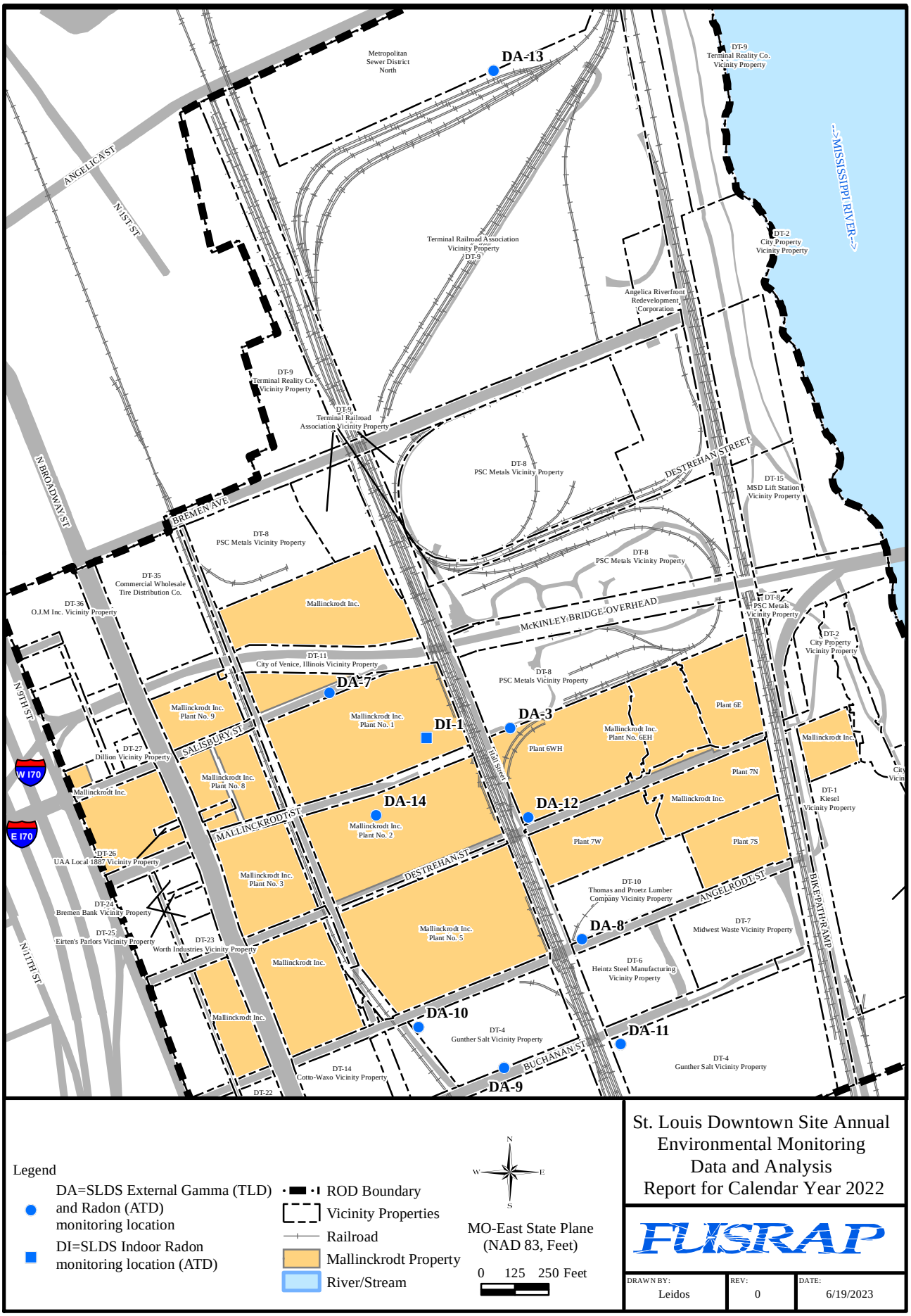


Figure 2-1. Gamma Radiation, Radon, and Particulate Air Monitoring at the St. Louis Background Location - USACE Service Base



St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2022

FUSRAP

DRAWN BY:	REV:	DATE:
Leidos	0	6/19/2023

Path: U:\GPS\EMDAR\SLDS Projects\CY2022\Rev0\Figure 2-2 Gamma Radiation and Rn Monitoring Locations at the SLDS.mxd

Figure 2-2. Gamma Radiation and Radon Monitoring Locations

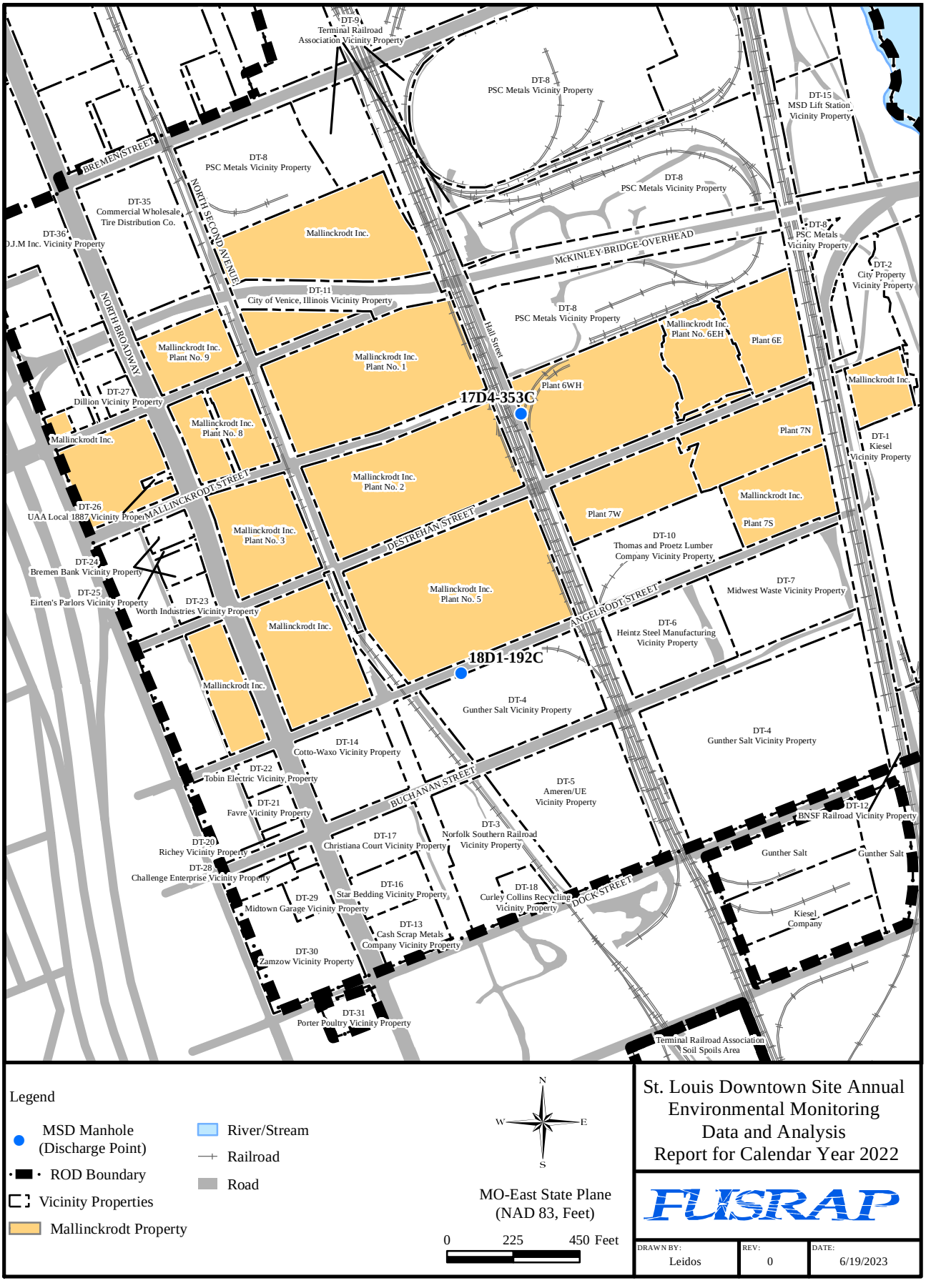


Figure 3-1. MSD Excavation Water Discharge Points

Unit Designation	Approximate Thickness (ft)	Description
Upper Hydrostratigraphic Unit (HU-A)	0-25	**RUBBLE and FILL** Grayish black (N2) to brownish black (5YR2/1). Dry to slightly moist, generally becoming moist at 5 to 6 ft and saturated at 10 to 12 ft. Slight cohesion, variable with depth, moisture content, and percentage of fines present. Consistency of relative density is unrepresentative due to large rubble fragments. Rubble is concrete, brick, glass, and coal slag. Percentage of fines as silt or clay increases with depth from 5 to 30 percent. Some weakly cemented aggregations of soil particles. Adhesion of fines to rubble increases with depth and higher moisture content. Degree of compaction is slight to moderate with frequent large voids.
	0-10	**Silty CLAY (CH)** Layers are mostly olive gray (5Y2/1), with some olive black (5Y2/1). Predominantly occurs at contact of undisturbed material, or at boundary of material with elevated activity. Abundant dark, decomposed organics. Variable percentages of silt and clay composition.
	0-5	**CLAY (CL)** Layers are light olive gray (5Y5/2), or dark greenish gray (5GY4/1). Slightly moist to moist, moderate cohesion, medium stiff consistency. Tends to have lowest moisture content. Slight to moderate plasticity.
	0-2.5	**Interbedded CLAY, Silty CLAY, SILT and Sandy SILT (CL, ML, SM)** Dark greenish gray (5GY4/1) to light olive gray (5Y6/1). Moist to saturated, dependent on percentage of particle size. Contacts are sharp, with structure normal to sampler axis to less than 15 degrees downdip. Layer thicknesses are variable, random in alternation with no predictable vertical gradation or lateral continuity. Some very fine-grained, rounded silica sand as stringers. Silt in dark mafic/biotite flakes. Some decomposed organics.
Lower Hydrostratigraphic Unit (HU-B)	0-10	**Sandy SILT (ML)** Olive gray (5Y4/1). Moist with zones of higher sand content saturated. Slight to moderate cohesion, moderate compaction. Stiff to very stiff consistency, rapid dilatancy, nonplastic. Sand is well sorted, very fine and fine-grained rounded quartz particles.
	0-50	**Silty SAND and SAND (SM, SP, SW)** Olive gray (5Y4/1). Saturated, slight cohesion, becoming noncohesive with decrease of silt particles with depth. Dense, moderate compaction. Moderate to well-graded, mostly fine- and medium-grained, with some fine- and coarse-grained particles. Mostly rounded with coarse grains slightly subrounded. Gradual gradation from upper unit, silty sand has abundant dark mafic/biotite flakes. Sand is well-graded, fine gravel to fine sand. Mostly medium-grained, with some fine-grained and few coarse-grained and fine gravel.
Limestone Bedrock Unit (HU-C)	Total thickness not penetrated during drilling	**LIMESTONE** Light olive gray (5Y4/1) with interbedded chert nodules. Generally hard to very hard; difficult to scratch with knife. Slightly weathered, moderately fresh with little to no discoloration or staining. Top 5 ft is moderately fractured, with 99 percent of joints normal to the core axis. Joints are open, planar, and smooth. Some are slightly discolored with trace of hematite staining.

SOURCE: MODIFIED FROM DOE 1994.
NOTE: THE CODES IN PARENTHESES FOLLOWING THE LITHOLOGIES ARE THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CODES.

THE CODES IN PARENTHESES FOLLOWING THE COLOR DESCRIPTIONS REPRESENT CHROMA, HUE, AND VALUE FROM THE MUNSELL SOIL COLOR CHARTS.

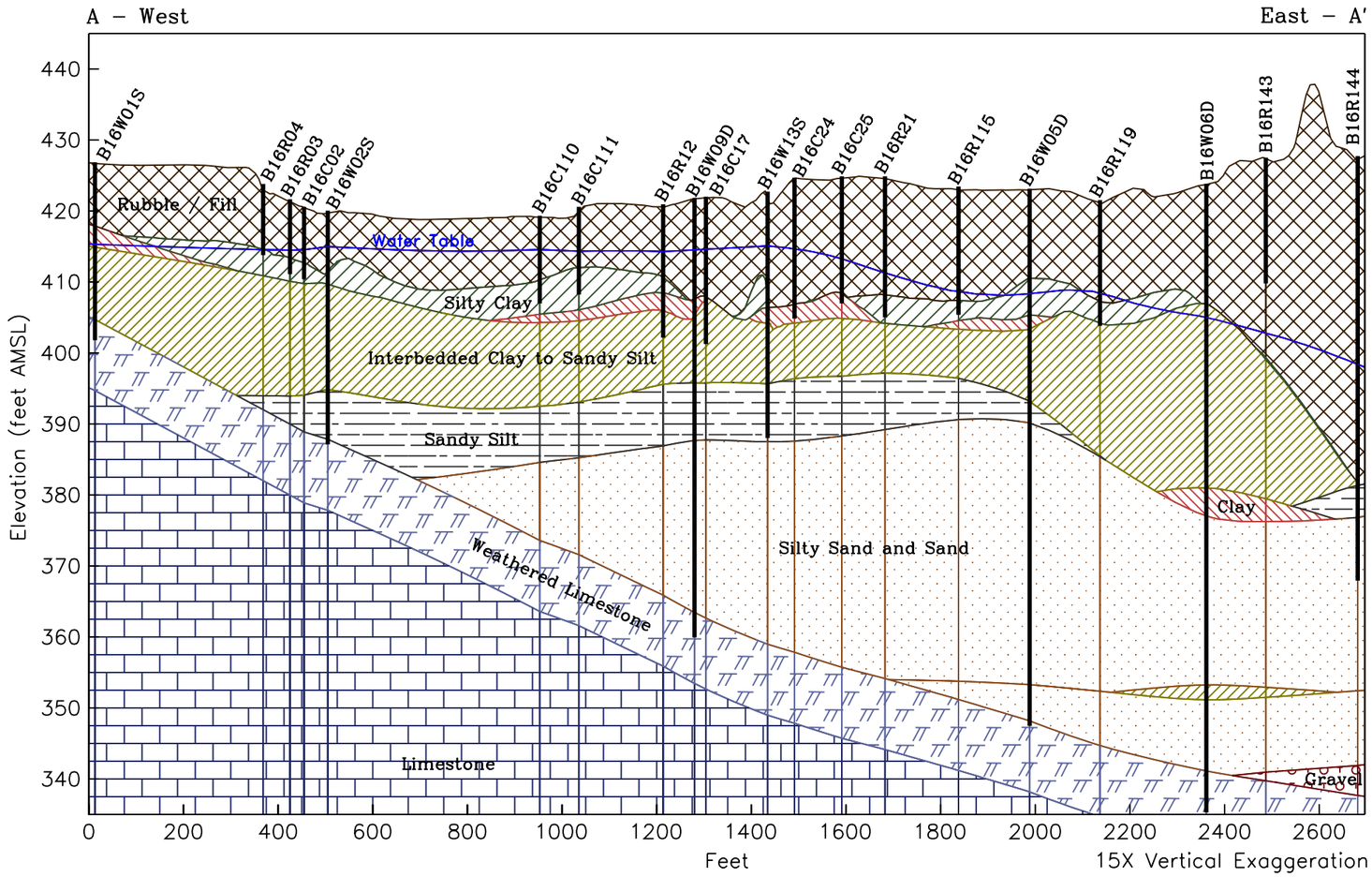
NOT TO SCALE

FUSRAP

St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2022

AUTHOR	REVISION	DATE
Leidos	0	05-24-2023

Figure 4-1. Generalized Stratigraphic Column



Geologic data used in the cross section collected prior to 1998.

Cross Section Location Map

FUSRAP

St. Louis Downtown Site
Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2022

Author: Leidos

Date: 03/24/1999, revised 03/21/2023

File: SLDSGlg01XSectA.sho

Figure 4-2. Geologic Cross-Section A-A'

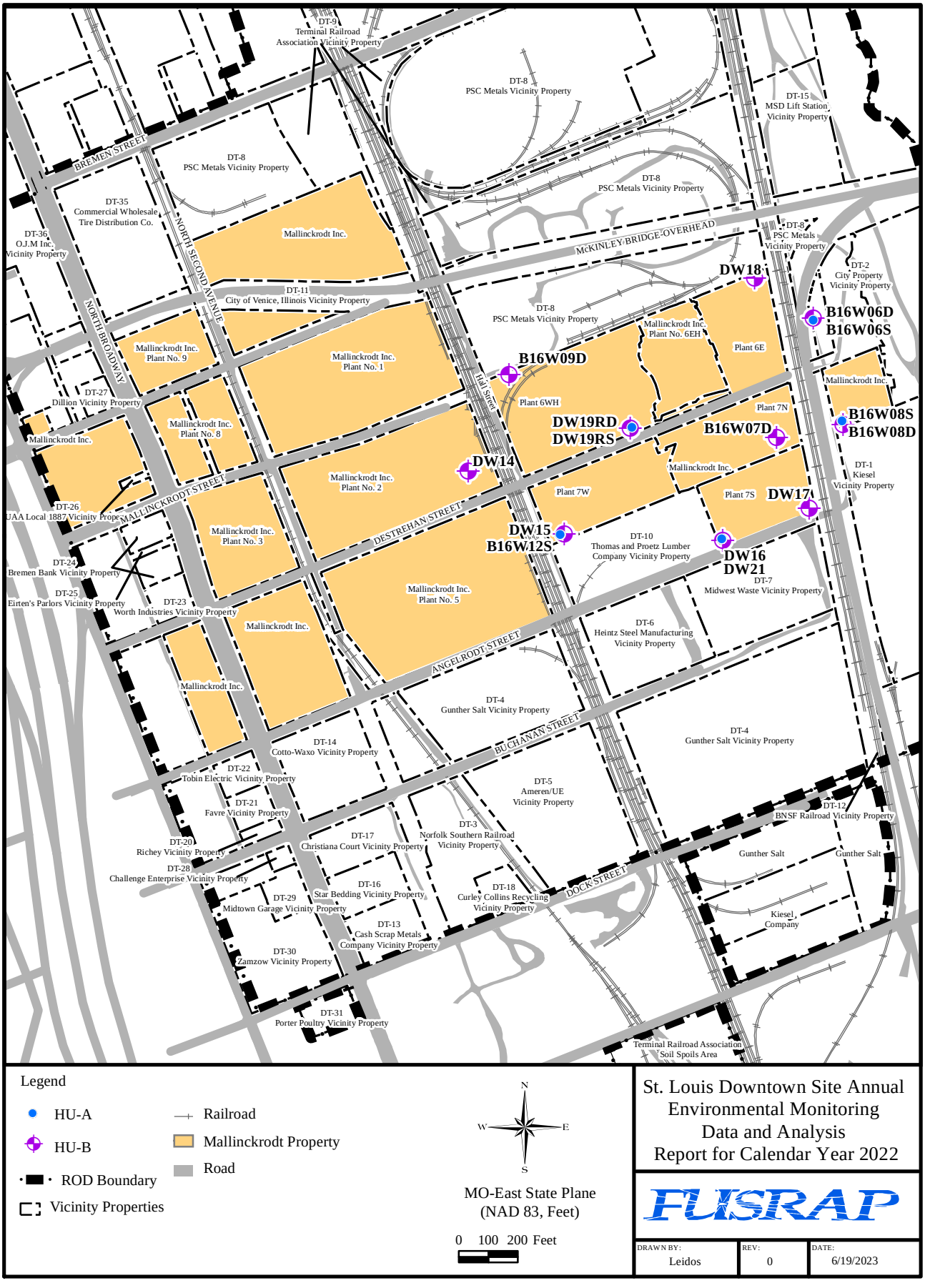
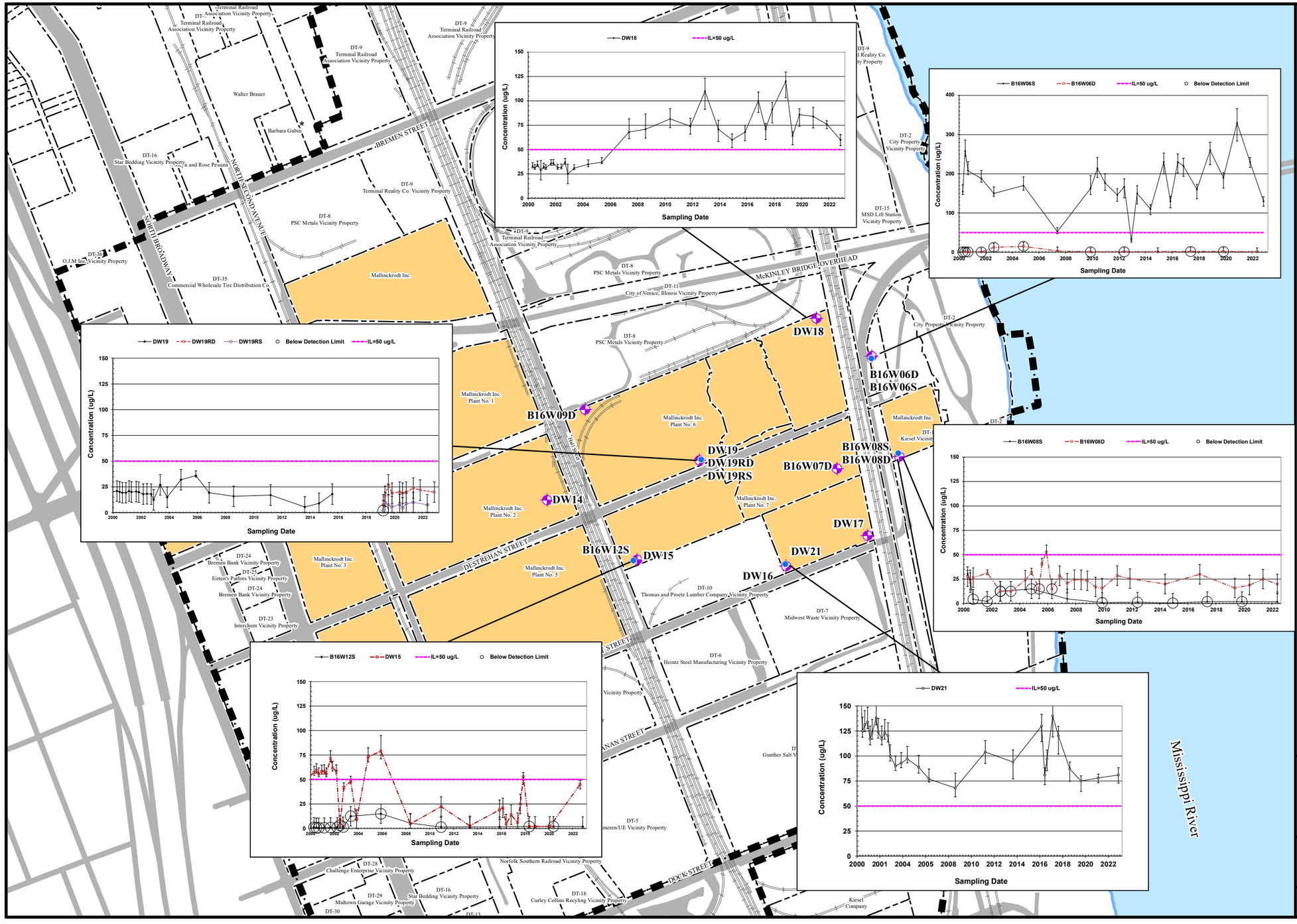


Figure 4-3. Groundwater Monitoring Well Locations

Path: U:\GPS\EMDAR\SLDS Projects\CY2022\Rev0\Figure 4-4 Arsenic Concentration Trends in Unfiltered Ground Water at the SLDS.mxd



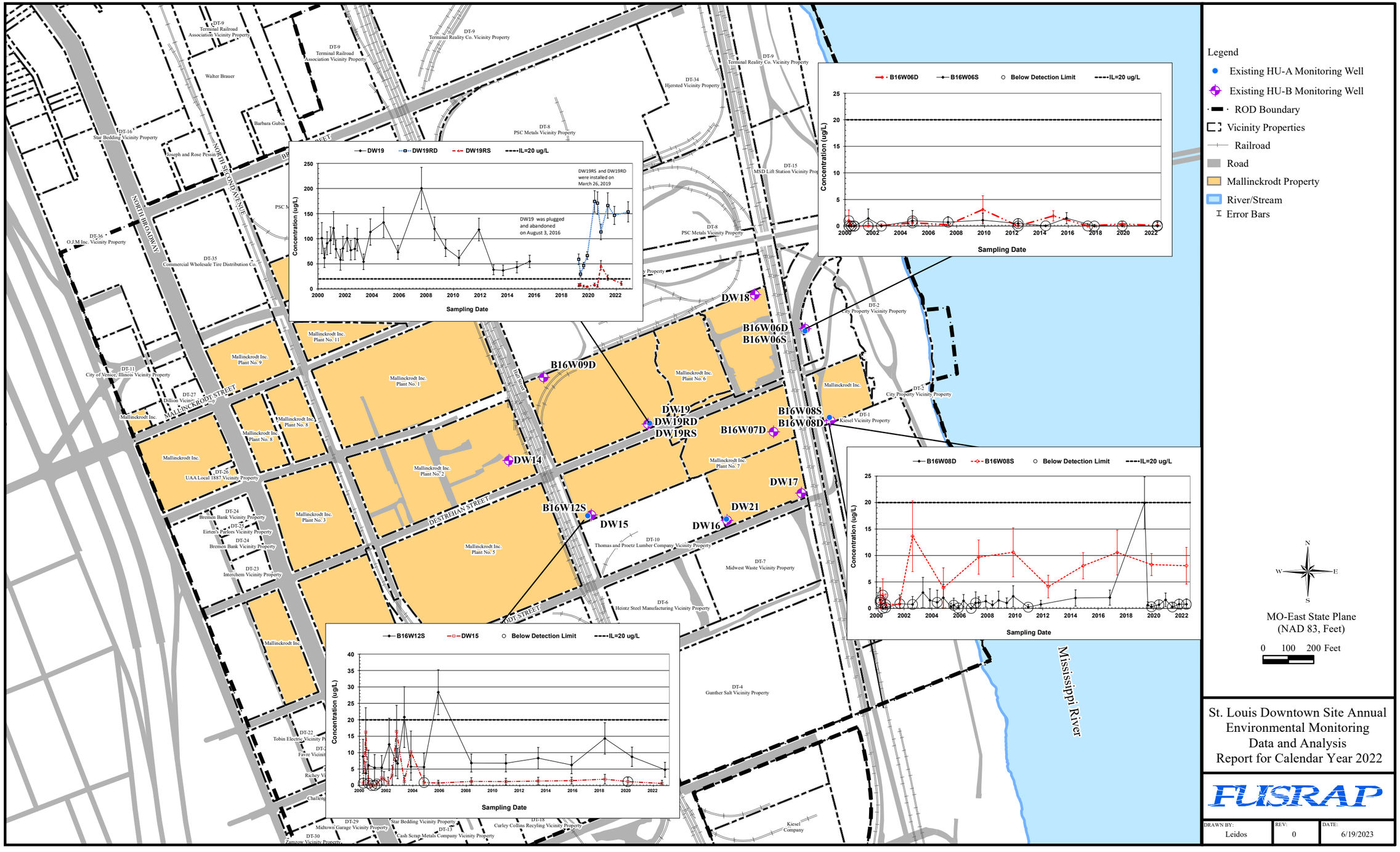
St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2022

FUSRAP

DRAWN BY:	REV:	DATE:
Leidos	0	6/19/2023

Figure 4-4. Arsenic Time-Versus-Concentration Plots in Unfiltered Groundwater

Path: U:\GPS\EMDAR\SLDS Projects\CY2022\Rev0\Figure 4-5 Total Uranium Concentrations in Unfiltered HZ-A Ground Water at the Latty Avenue Properties.mxd

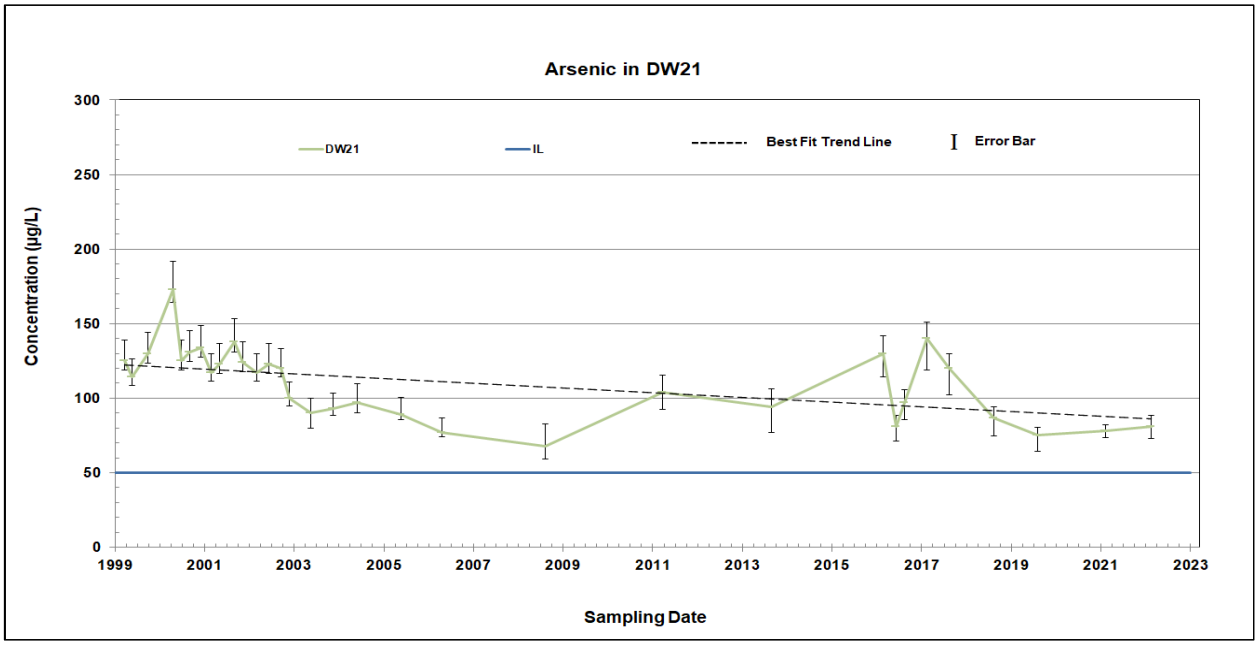


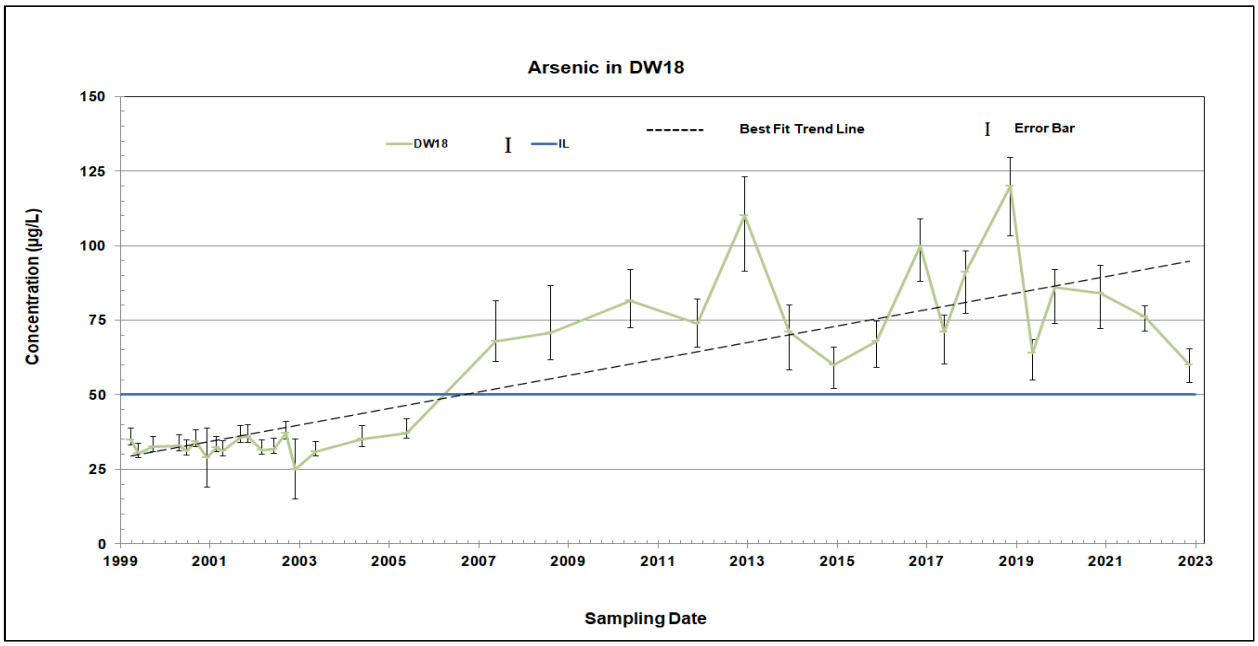
St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2022

FUSRAP

DRAWN BY:	REV:	DATE:
Leidos	0	6/19/2023

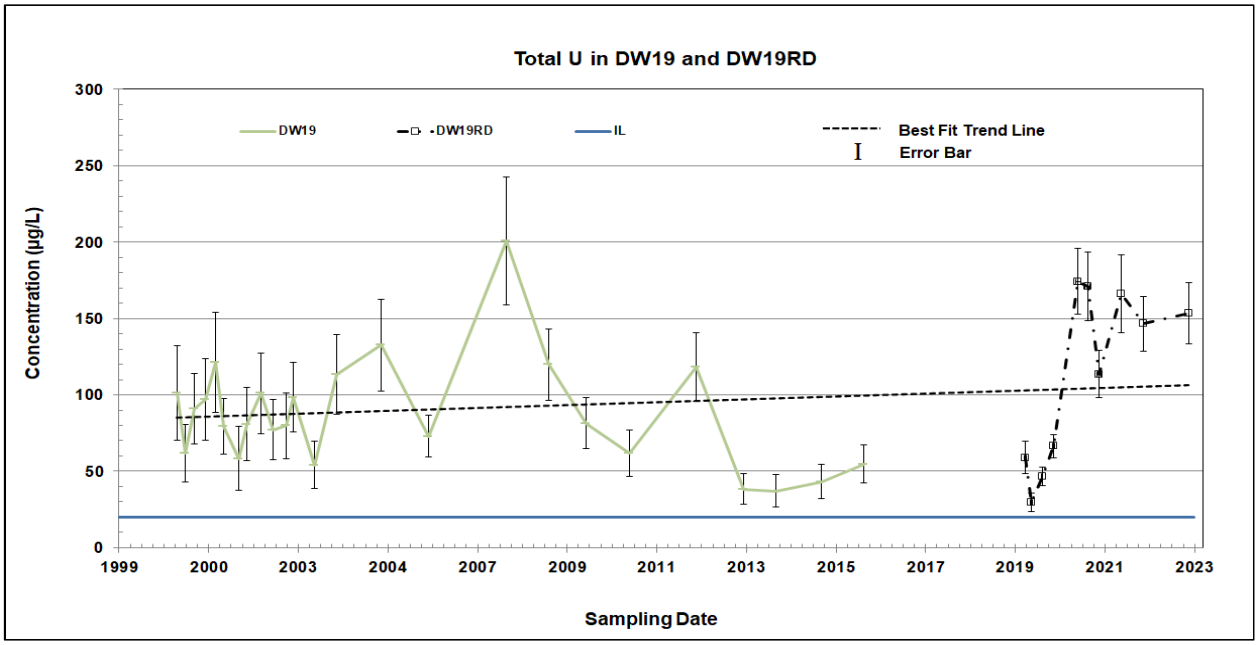
Figure 4-5. Total U Time-Versus-Concentration Plots in Unfiltered Groundwater





Notes:
For arsenic results less than 3 times the reporting limit (RL), the error bar represents ± RL.
For arsenic results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples. Error bars for arsenic for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.
For total U, the error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238, converted to µg/L.

Figure 4-6. Time-Versus-Concentration Plots and Trends for Arsenic in Groundwater at DW18 and DW21 and for Total U in Groundwater at DW19 and DW19RD



Notes:
For arsenic results less than 3 times the RL, the error bar represents ± RL.
For arsenic results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.
Error bars for arsenic for 2003 and earlier are based on laboratory control limits for 2003. Error bars for 2004 and later are based on laboratory control limits reported for the respective years.
For total U, the error bar represents ± the sum of the measurement errors for U-234, U-235, and U-238, converted to µg/L.

Figure 4-6. Time-Versus-Concentration Plots and Trends for Arsenic in Groundwater at DW18 and DW21 and for Total U in Groundwater at DW19 and DW19RD (Continued)

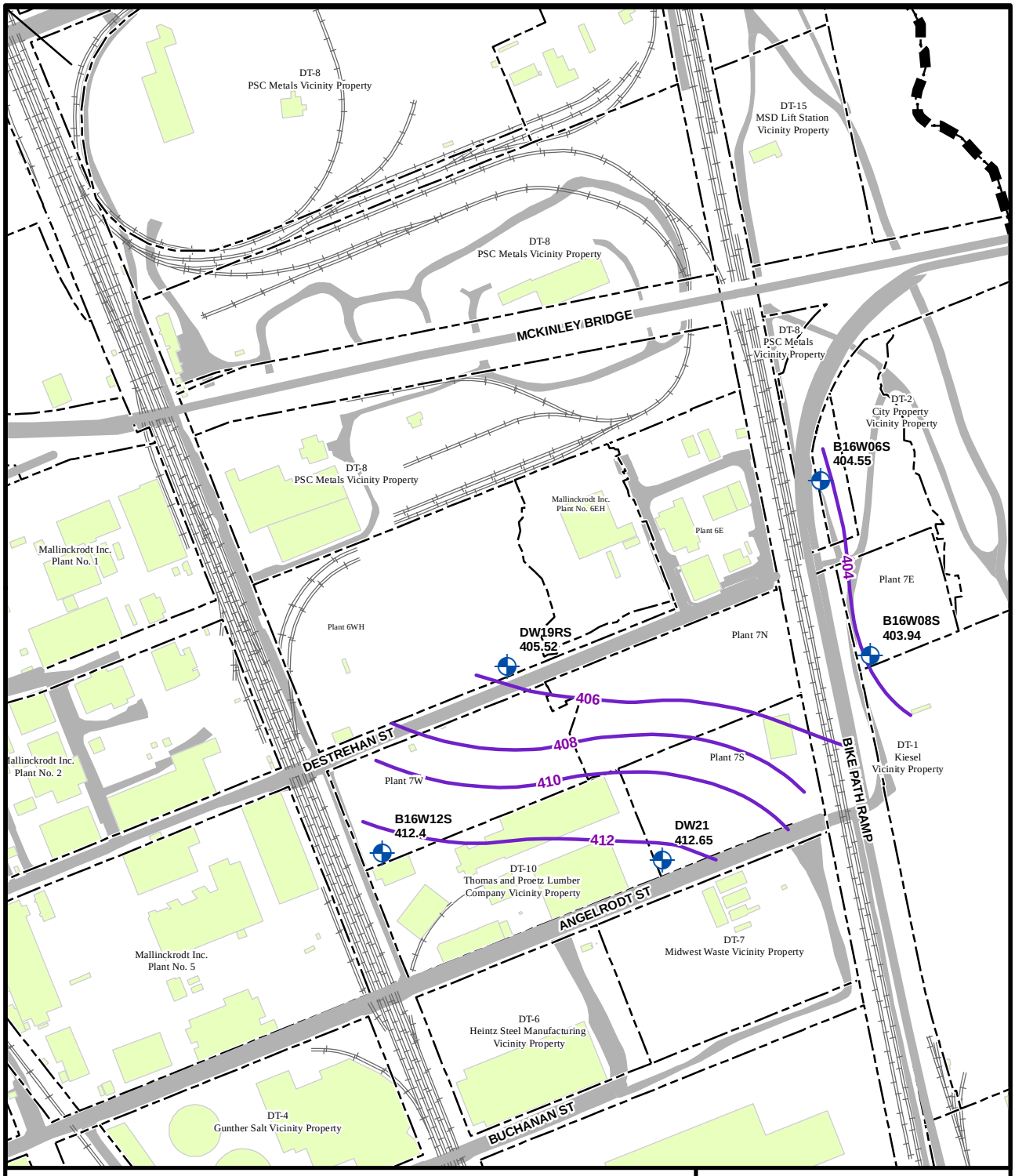


Figure 4-7. HU-A Potentiometric Surface (May 19, 2022)

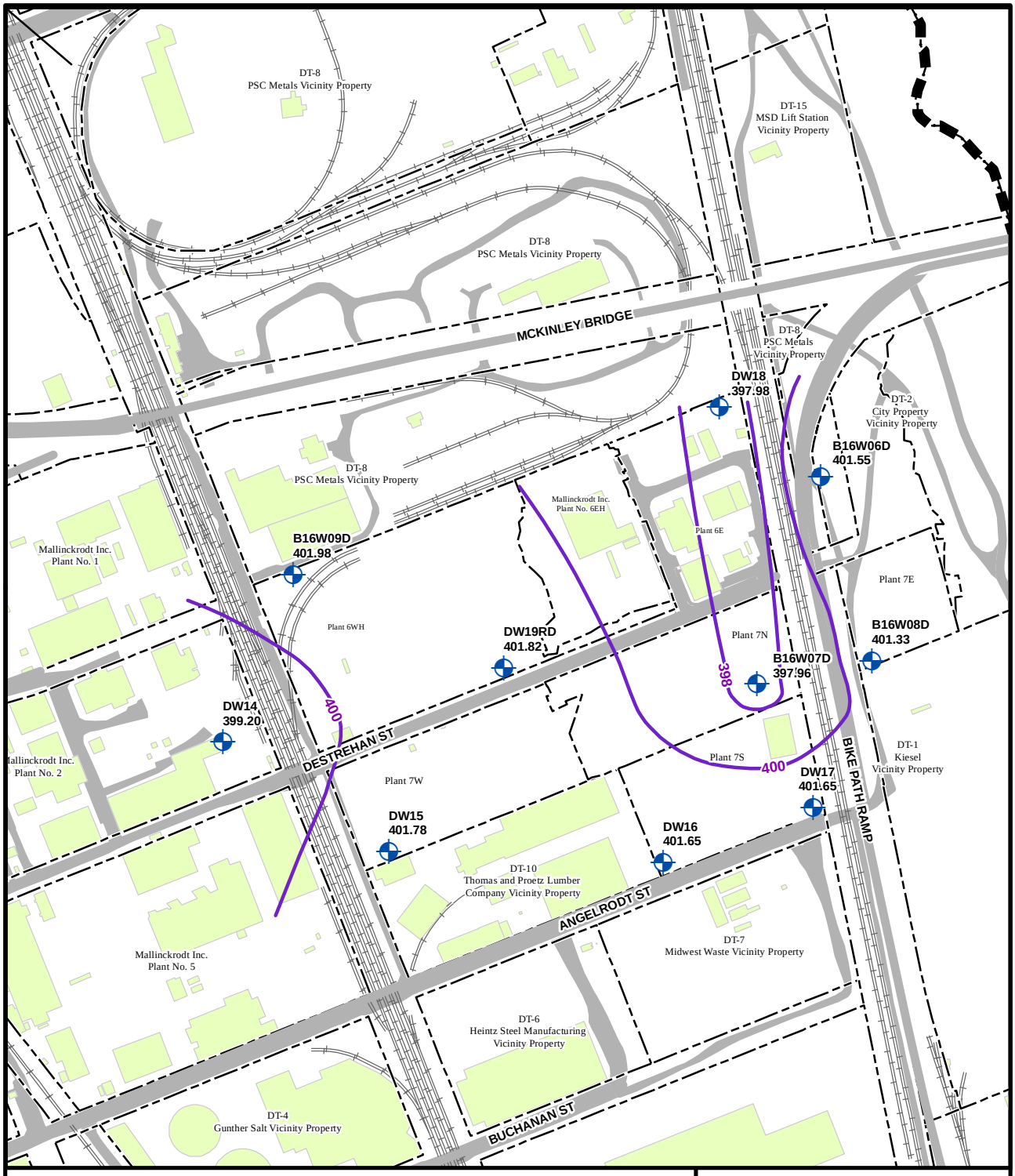


Figure 4-8. HU-B Potentiometric Surface (May 19, 2022)

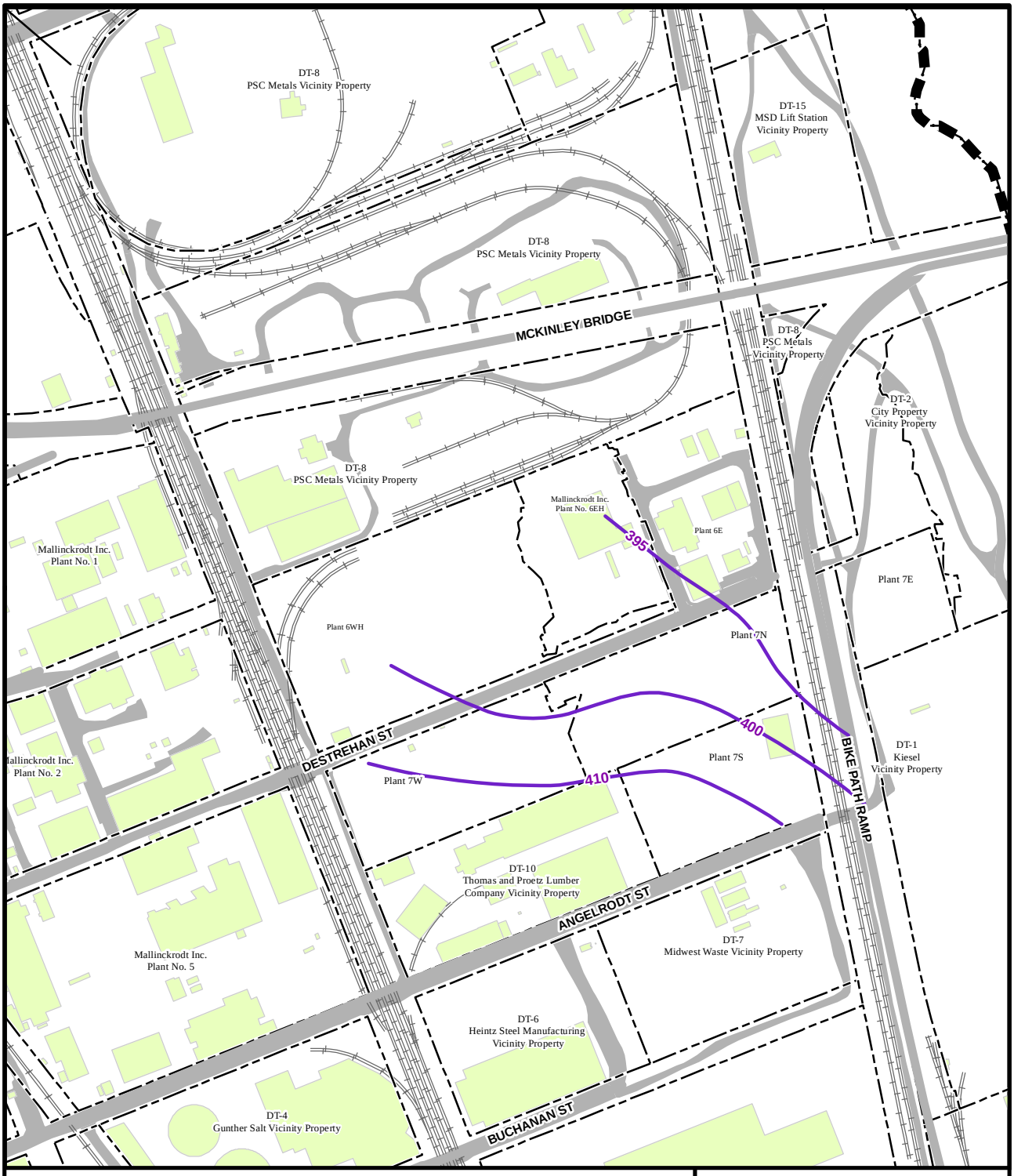


Figure 4-9. HU-A Potentiometric Surface (August 25, 2022)

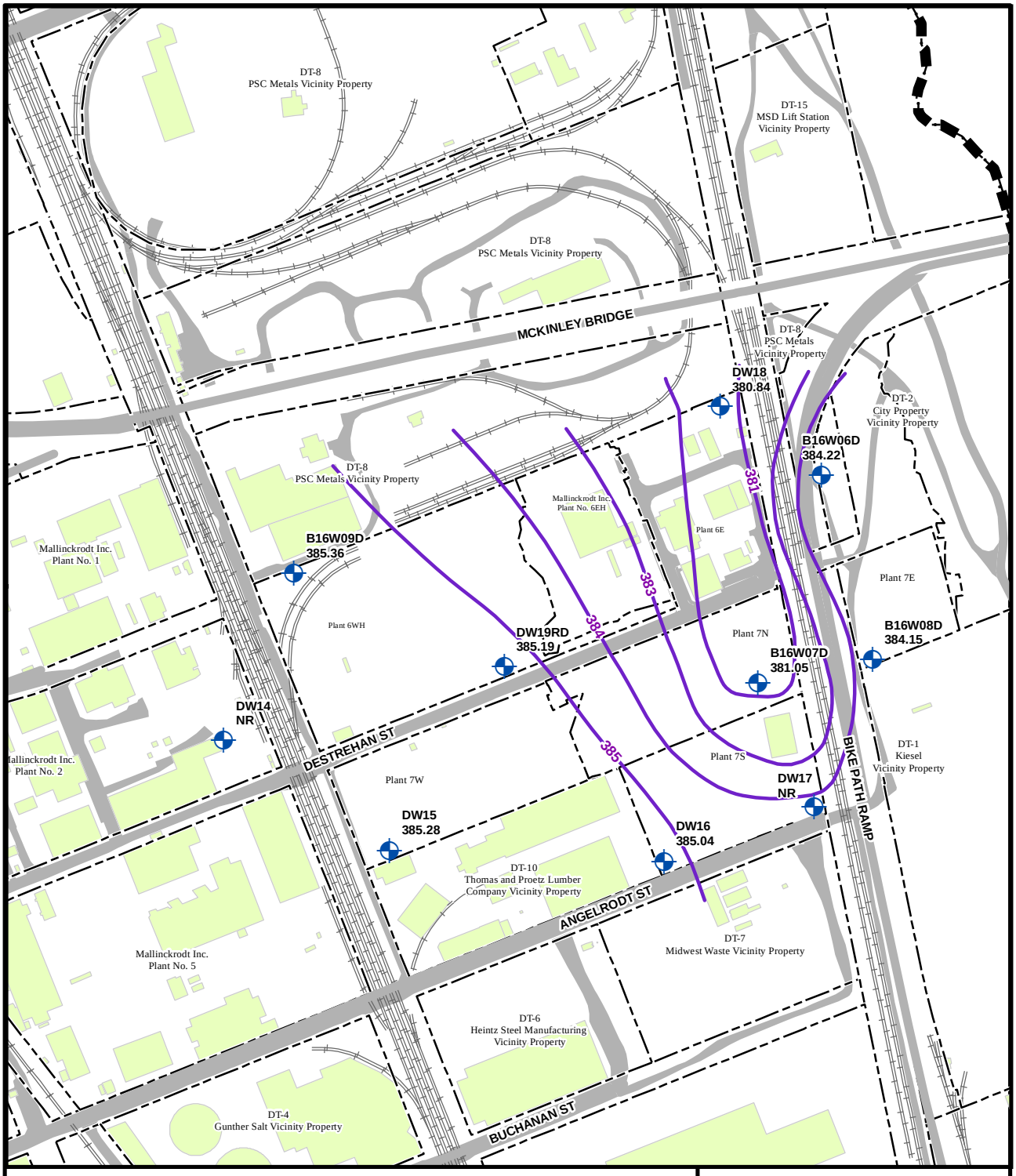
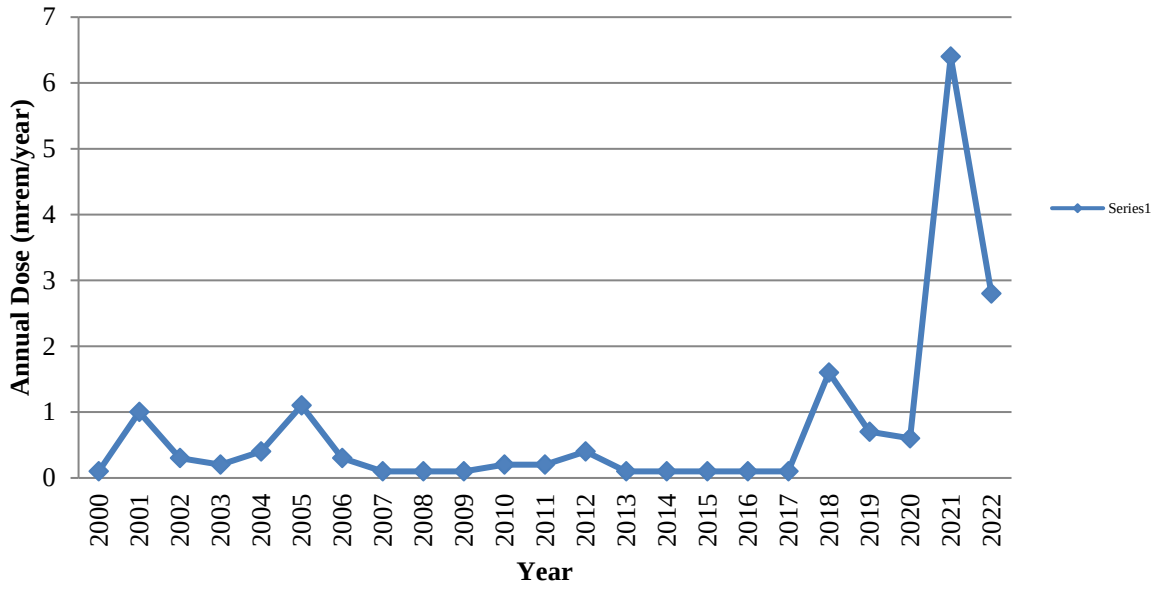


Figure 4-10. HU-B Potentiometric Surface (August 25, 2022)



Note:
The 10 *CFR* 20.1301 annual dose limit for members of the public is 100 mrem per year.

Figure 6-1. Dose Trend

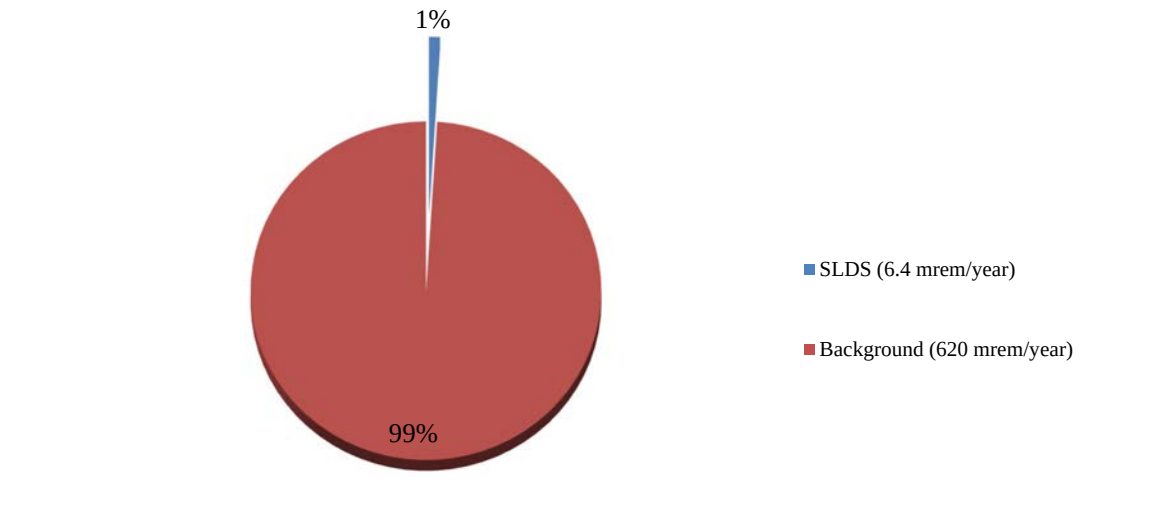


Figure 6-2. Maximum Dose vs. Background Dose

APPENDIX A

DOCUMENTS FINALIZED IN CALENDAR YEAR 2022

THIS PAGE INTENTIONALLY LEFT BLANK

- *Pre-Design Investigation Work Plan for the St. Louis Downtown Site Southeast City Property* (February 14).
- *Pre-Design Investigation Summary Report Buchanan Street, FUSRAP St. Louis Downtown Site* (February 14).
- *Remedial Design/Remedial Action Work Description Buchanan Street, Supplement No. 6 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site* (April 25).
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Kiesel Hall Street Properties* (April 28).
- *Pre-Design Investigation Summary Report Mallinckrodt Former Plant 1 Tank Farm* (June 23).
- *St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for CY 2021* (July 8).
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Kiesel Hall Street Properties* (August 25).
- *Remedial Design/Remedial Action Work Description Mallinckrodt Former Plant 1 Tank Farm, Supplement No. 7 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site* (December 19).
- *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2023* (December 30).

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX B

ST. LOUIS DOWNTOWN SITE 2022 RADIONUCLIDE EMISSIONS NESHAP REPORT SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 *CFR* 61, SUBPART I

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

LIST OF ATTACHMENTS

ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	U.S. Atomic Energy Commission
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	*Code of Federal Regulations*
CY	calendar year
DOE	U.S. Department of Energy
EDE	effective dose equivalent
FUSRAP	Formerly Utilized Sites Remedial Action Program
GIS	geographic information system
Mallinckrodt	Mallinckrodt LLC
MED	Manhattan Engineer District
MSD	Metropolitan St. Louis Sewer District
NAD	normalized absolute difference
NESHAP	National Emission Standard for Hazardous Air Pollutants
Pa	protactinium
Ra	radium
RA	remedial action
ROD	*Record of Decision for the St. Louis Downtown Site*
SLDS	St. Louis Downtown Site
SLS	St. Louis Sites
SU	survey unit
Th	thorium
U	Uranium
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VP	vicinity property

UNIT ABBREVIATIONS

Both English and metric units are used in this report. The units used in a specific situation are based on common unit usage or regulatory language (e.g., depths are given in feet, and areas are given in square meters). Units included in the following list are not defined at first use in this report.

°C	degree(s) Celsius (centigrade)
µCi/cm^3	microcurie(s) per cubic centimeter
µCi/mL	microcurie(s) per milliliter
Ci	curie(s)
cm	centimeter(s)
cm^3	cubic centimeter(s)
m	meter(s)
m^2	square meter(s)
m^3	cubic meter(s)
mL	milliliter
mrem	millirem
pCi/g	picocuries per gram

EXECUTIVE SUMMARY AND DECLARATION STATEMENT

This report presents the results of National Emission Standard for Hazardous Air Pollutants (NESHAP) calculations for the St. Louis Formerly Utilized Sites Remedial Action Program (FUSRAP) St. Louis Downtown Site (SLDS) for calendar year (CY) 2022. NESHAP requires the calculation of the effective dose equivalent (EDE) from radionuclide emissions to critical receptors. The report follows the requirements and procedures contained in 40 *Code of Federal Regulations* (*CFR*) 61, Subpart I, *National Emission Standards for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

This NESHAP report evaluates SLDS properties where there was a reasonable potential for radionuclide emissions due to St. Louis FUSRAP activities. These sites include Bruce Oakley, Gunther Salt, Plant 2, and Plant 6 Loadout.

Emissions from the SLDS were evaluated for the entire CY 2022 to provide a conservative estimate of total emissions.

The NESHAP standard of EDE to a critical receptor from radionuclide emissions is 10 mrem per year. The SLDS did not exceed this standard. The EDE from radionuclide emissions at the SLDS was calculated using soil characterization data, air particulate monitoring data, and the U.S. Environmental Protection Agency (USEPA) CAP88-PC modeling code, which resulted in an EDE at the SLDS of 0.9 mrem per year.

The evaluation for the SLDS resulted in less than 10 percent of the dose standard prescribed in 40 *CFR* 61.102. This site is exempt from the reporting requirements of 40 *CFR* 61.104(a).

DECLARATION STATEMENT – 40 *CFR* 61.104(a)(xvi)

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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment. See 18 *U.S. Code* 1001.

_____ _____

Signature Date

Office: U.S. Army Corps of Engineers, St. Louis District Office
Address: 114 James S McDonnell Boulevard
Hazelwood, MO 63042
Contact: Jon Rankins

THIS PAGE INTENTIONALLY LEFT BLANK

1.0 PURPOSE

This NESHAP report contains the EDE calculations from radionuclide emissions (exclusive of radon) to critical receptors from the SLDS properties at which a reasonable potential existed for radionuclide emissions due to St. Louis FUSRAP activities. These sites include Bruce Oakley, Gunther Salt, Plant 2, and Plant 6 Loadout. The air emissions from the SLDS are ground releases of particulate radionuclides in soil as a result of windblown action and remedial activity in the form of excavation and off-site disposal of soil.

THIS PAGE INTENTIONALLY LEFT BLANK

2.0 METHOD

Emission rates for the SLDS were modeled using guidance documents (i.e., *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities* [USEPA 1989]) referenced in 40 *CFR* 61, Appendix E, *Compliance Procedures Methods for Determining Compliance with Subpart I,* and were measured by collection of environmental air samples. Emission rates, along with appropriate meteorological data and distances to critical receptors[1], were input into the USEPA computer code CAP88-PC to obtain the EDE from the air emissions.

Although 40 *CFR* 61.103 requires the use of the USEPA computer code COMPLY, USEPA no longer supplies technical support for COMPLY. However, the USEPA lists both COMPLY and CAP88-PC as atmospheric models for assessing dose and risk from radioactive air emissions (USEPA 2020). The USEPA continues to maintain and update the CAP88-PC modeling program, and has updated it as recently as March 2020. In previous FUSRAP NESHAP reports, both COMPLY and CAP88-PC results have been compared. This comparison indicated that CAP88-PC is a comparable and conservative method of demonstrating compliance with 40 *CFR* 61, Subpart I. For these reasons, CAP88-PC was used in this NESHAP report to demonstrate compliance with the NESHAP standard.

2.1 EMISSION RATE

The method used to determine particulate radionuclide emission rates from the SLDS was 40 *CFR* 61, Appendix D, *Methods for Estimating Radionuclide Emissions*. Emissions during excavations were evaluated using air sampling data at the excavation and loadout perimeters.

2.2 EFFECTIVE DOSE EQUIVALENT

The EDE to critical receptors[1] is obtained using USEPA computer code CAP88-PC, Version 4.1 (USEPA 2020). CAP88-PC uses a Gaussian plume equation to estimate the dispersion of radionuclides and is referenced by the USEPA to demonstrate compliance with the NESHAP emissions criterion in 40 *CFR* 61. An area ground release at a height of 1.0 m is modeled for the SLDS.

The EDE is calculated by combining doses from ingestion, inhalation, air immersion, and external ground surface. CAP88-PC contains historical weather data libraries for major airports across the country, and the results can be modeled for receptors at multiple distances from the emissions source.

[1] "Critical receptors," as used in this report, are the locations for the nearest residence, farm, business, and school.

THIS PAGE INTENTIONALLY LEFT BLANK

3.0 METEOROLOGICAL DATA

Meteorological data were obtained from the CAP88-PC code for the Lambert – St. Louis International Airport (wind file 13994.WND). Data in the file were accumulated from 1988 through 1992.

- Average Annual Wind Velocity: 4.446 m per second
- Average Annual Precipitation Rate: 111 cm per year
- Average Annual Air Temperature: 14.18 ºC

Wind speed frequency data were obtained from Lambert – St. Louis International Airport (see Table B-1).

Table B-1. St. Louis Wind Speed Frequency

Wind Speed Group (Knots)	Frequency (Percent)
0 – 3	10
4 – 7	29
8 – 12	36
13 – 18	21
19 – 24	3
25 – 31	1

Knot = 1.151 miles per hour

Wind direction frequency data were obtained from the CAP88-PC wind file, 13994.WND (see Table B-2).

Table B-2. St. Louis Wind Rose Frequency

Wind Direction		Wind Frequency (Percent)	Wind Direction		Wind Frequency (Percent)
Wind Toward	**Wind From**		**Wind Toward**	**Wind From**	
North	South	13.1	South	North	5.6
North-Northwest	South-Southeast	7.4	South-Southeast	North-Northwest	4.3
Northwest	Southeast	6.8	Southeast	Northwest	6.1
West-Northwest	East-Southeast	6.9	East-Southeast	West-Northwest	8.7
West	East	5.5	East	West	9.0
West-Southwest	East-Northeast	2.8	East-Northeast	West-Southwest	6.8
Southwest	Northeast	3.1	Northeast	Southwest	5.4
South-Southwest	North-Northeast	3.7	North-Northeast	South-Southwest	5.0

THIS PAGE INTENTIONALLY LEFT BLANK

4.0 ST. LOUIS DOWNTOWN SITE PROPERTIES UNDER ACTIVE REMEDIATION

4.1 SITE HISTORY

From 1942 until 1957, Mallinckrodt LLC (Mallinckrodt) was contracted by the Manhattan Engineer District (MED) and the U.S. Atomic Energy Commission (AEC) to process uranium ore for the production of uranium metal. Residuals of the process, including spent pitchblende ore, and radium, thorium, uranium, and their radioactive decay products, were inadvertently released from the Mallinckrodt property into the environment. Residuals from the uranium process had elevated levels of radioactive radium, thorium, and uranium. From 1942 to 1945, Plants 1, 2, 6, 7, and 4 (now Plant 10) were involved in the development of uranium-processing techniques, uranium compounds and metal production, and uranium metal recovery from residues and scrap. Mallinckrodt decontaminated Plants 1 and 2 from 1948 through 1950 to meet the AEC criteria then in effect, and the AEC released these plants for use without radiological restrictions in 1951. MED/AEC operations ended in 1957.

A radiological survey conducted at the SLDS in 1977 found radiological contamination that exceeded existing guidelines. In response to this survey, it was determined that further investigation of the site was necessary to characterize the nature and extent of the contamination. In 1990, the USEPA Region 7 and the U.S. Department of Energy (DOE) established schedules and deliverables for the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) process at the St. Louis Sites (SLS). In 1994, the DOE submitted the *Remedial Investigation Report for the St. Louis Site* (DOE 1994). The FUSRAP was transferred from the DOE to the U.S. Army Corps of Engineers (USACE) on October 13, 1997.

The *Record of Decision for the St. Louis Downtown Site* (ROD) was issued in October 1998 (USACE 1998). The USACE began remediation in October 1998, and characterization, pre-design investigation, and excavation activities have continued on Mallinckrodt and SLDS vicinity properties (VPs) through 2022.

4.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2022

Excavation activities were performed at the SLDS areas of Bruce Oakley/ Metropolitan St. Louis Sewer District (MSD) north (DT-9), Gunther Salt (DT-4), and Mallinckrodt Plant 2. Additionally, loadout activities were performed at Plant 6. Excavated soils placed in the loadout area are tamped down at the end of each night or sprayed with a surfactant over longer periods of time. The excavated soils were removed from the site by rail. General area air samples were collected around excavation and loadout perimeters during CY 2022, with the results used to determine the air emissions. In situ emissions from inactive areas of the SLDS were not calculated because the ground surface soil at the SLDS is generally covered with asphalt or concrete that limits the potential for material to become airborne.

4.3 SOURCE DESCRIPTION – RADIONUCLIDE SOIL CONCENTRATIONS

For the SLDS excavation areas, the activity fraction for each radionuclide was determined based upon excavated area property-specific average soil radionuclide concentrations as determined from railcar data used to characterize the waste for shipment. Attachment B-1 contains Table B-1-1, a summary table of the radionuclide concentrations for each area or plant and VPs. The averaged total

alpha and total beta air particulate concentrations at each SLDS property and the activity fraction for each corresponding property were used to calculate the emission rate for each area.

4.4 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2022

Wind erosion during periods of remedial action (RA) excavations and periods in which the loadout pile was uncovered is assumed for the particulate radionuclide emission determinations from the SLDS. Unexcavated plants and VPs do not contribute to the emission determinations for periods of inactivity due to the low activity and cover.

4.5 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown on Figure B-1 and listed in Table B-3. Distances and directions to critical receptors are determined by using tools in a geographic information system (GIS).

Table B-3. Critical Receptors for CY 2022

Sources	Nearest Residence		Farm		Business		School	
	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction
Bruce Oakley	500	West	2,000	East-Southeast	150	East	700	Southwest
Gunther Salt	200	West	1,900	East	50	North	700	Northwest
Plant 2	330	South-Southwest	2,050	East	15	North	540	West-Northwest
Plant 6 Loadout	400	Southwest	1,850	East	60	North	700	West

4.6 EMISSIONS DETERMINATION

4.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from several locations at prominent wind directions from around the perimeter of the SLDS excavations and loadout area to measure the radionuclide emissions from remedial activities. The sample locations were established at the start of each remedial activity and provide the basis for determining the radionuclide emission rates during CY 2022. The average gross alpha and beta concentrations (in μCi/mL) are determined for each area or plant location for CY 2022. The area or plant average concentrations are presented in Table B-4.

Table B-4. Average Gross Alpha and Beta Airborne Particulate Emissions for CY 2022

Monitoring Location	Average Concentration (μCi/mL)[a]	
	Gross Alpha	Gross Beta
Bruce Oakley (DT-9)	5.45E-15	2.69E-14
Gunther Salt (DT-4)	5.07E-15	2.67E-14
Plant 2	5.94E-15	3.54E-14
Plant 6 Loadout	5.32E-15	3.35E-14
Background Concentrations[b]	4.69E-15	2.47E-14

[a] Average concentration values for the sampling period by location.

[b] These concentrations are provided for informational purposes only. However, as a conservative approach, they were not subtracted from the gross average concentration during the determination of the EDE.

The activity fractions for all radionuclides at each SLDS property were determined as discussed in Section 4.3 of this NESHAP report. The product of the radionuclide activity fraction and the gross

concentration for each property provides the radionuclide emission concentration (in $\mu Ci/cm^3$) for that area. The gross average concentration ($\mu Ci/cm^3$) is converted to a release (emission) rate, measured in Ci per year using Equations 1 and 2 from *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities* (USEPA 1989). Equation 1 is used to determine the effective diameter of a non-circular stack or vent.

$$D = (1.3\ A)^{1/2} \qquad \textit{Equation 1}$$

where:

D = effective diameter of the release in m
A = area of the stack, vent, or release point (in m^2)

Table B-5 provides the effective surface area available for release of airborne radionuclides normalized to one year and the effective diameter for each area or plant of the SLDS where excavation or loadout was conducted in CY 2022. Calculation of the effective surface area is contained in Attachment B-1.

Table B-5. Excavation Effective Areas and Effective Diameters for CY 2022

SLDS Location	Effective Area (m^2)	Effective Diameter (m)
Bruce Oakley	60	9
Gunther Salt	12	4
Plant 2	11	4
Plant 6 Loadout	2,000	51

The average annual wind speed for the Lambert – St. Louis International Airport is provided in CAP88-PC as 4.446 m per second. Conversion of this wind speed to a flow rate through stacks with the listed effective diameters for each area is completed using Equation 2.

$$F = V\ \pi\ (D)^2 / 4 \qquad \textit{Equation 2}$$

where:

V = wind velocity (in m per minute) = 266.76 m per minute
F = flow rate (in m^3 per minute)
π = mathematical constant
D = effective diameter of the release (in m) determined using Equation 1

Converting the velocity of emissions from the sites to an effective flow rate, results in the following site release flow rates for the SLDS areas, as listed in Table B-6. The product of the flow rate, the activity fraction associated with each radionuclide, and the appropriate conversion factors provide the site emission rate for each radionuclide, as listed in Table B-7. Flow rate and average radionuclide concentration data are contained in Attachment B-1.

Table B-6. Site Release Flow Rates for CY 2022

SLDS Location	Site Release Flow Rate (m^3/minute)
Bruce Oakley	1.6E+04
Gunther Salt	3.3E+03
Plant 2	3.0E+03
Plant 6 Loadout	5.4E+05

4.6.2 Total Airborne Radioactive Particulate Emission Rates

The CY 2022 emission rates for each excavated SLDS area are presented in Table B-7 and are based on the air samples collected from the perimeter of the excavated areas.

Table B-7. Area Airborne Radioactive Particulate Emission Rates Based on Excavation Perimeter Air Samples for CY 2022

Property	Bruce Oakley	Gunther Salt	Plant 2	Plant 6 Loadout
Radionuclide	**Emission (Ci/year)[a]**			
Uranium (U)-238	1.3E-05	2.4E-06	3.9E-06	5.0E-04
U-235	8.0E-07	1.5E-07	1.1E-07	2.9E-05
U-234	1.3E-05	2.4E-06	3.9E-06	5.0E-04
Radium (Ra)-226	7.4E-06	1.0E-06	6.7E-07	2.3E-04
Thorium (Th)-232	1.7E-06	2.0E-07	2.1E-07	5.0E-05
Th-230	7.1E-06	1.7E-06	7.0E-09	2.8E-04
Th-228	1.7E-06	2.0E-07	2.1E-07	5.0E-05
Ra-224	1.7E-06	2.0E-07	2.1E-07	5.0E-05
Th-234	8.2E-05	2.1E-05	2.6E-05	4.5E-03
Protactinium (Pa)-234m	8.2E-05	2.1E-05	2.6E-05	4.5E-03
Th-231	5.1E-06	1.3E-06	7.6E-07	2.6E-04
Ra-228	3.0E-05	1.7E-06	1.4E-06	4.5E-04
Actinium (Ac)-228	3.0E-05	1.7E-06	1.4E-06	4.5E-04
Pa-231	2.2E-08	1.5E-07	1.1E-07	6.6E-06
Ac-227	8.6E-08	1.5E-07	1.1E-07	1.1E-05

[a] Release rate based on 365-day period at a respective flow rate (as presented in Table B-6) as determined from the average annual wind speed (4.446 m per second) and the effective site area (as presented in Table B-5) for each location.

4.7 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment B-2. The effective area factor input was taken from Table B-5. This evaluation demonstrates that all SLDS critical receptors receive less than 10 percent of the dose standard prescribed in 40 *CFR* 61.102; therefore, the SLDS is exempt from the reporting requirements of 40 *CFR* 61.104(a). The results are summarized in Table B-8.

Table B-8. CAP88-PC Results for Critical Receptors for CY 2022

Source	Dose (mrem/year)			
	Nearest Residence[a]	Farm[a]	Business[b]	School[b]
Bruce Oakley	<0.1	<0.1	<0.1	<0.1
Gunther Salt	<0.1	<0.1	<0.1	<0.1
Plant 2	<0.1	<0.1	<0.1	<0.1
Plant 6 Loadout	0.2	0.2	0.9	<0.1
SLDS Total Dose[c]	0.2	0.2	0.9	<0.1

[a] 100 percent occupancy factor.
[b] Corrected for the 23 percent occupancy factor (40 hours per week for 50 weeks per year).
[c] Combined dose from all sources at the SLDS.

5.0 REFERENCES

DOE 1994. U.S. Department of Energy. Remedial Investigation Report for the St. Louis Site. St. Louis, Missouri. DOE/OR/21949-280. January 1999.

USACE 1998. U.S. Army Corps of Engineers. Record of Decision for the St. Louis Downtown Site. St. Louis, Missouri. Final. July 1998.

USEPA 1989. U.S. Environmental Protection Agency, Office of Radiation Programs, Washington, D.C. *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities.* EPA 520/1-89-002. October 1989.

USEPA 2020. U.S. Environmental Protection Agency. CAP88-PC Version 4.1 Computer Code, March 2020.

18 *U.S. Code* 1001. *U.S. Code*, Title 18, Crimes and Criminal Procedure; Part I, Crimes; Chapter 47, Fraud and False Statements; Section 1001, Statements or entries generally.

40 *CFR* 61, Subpart I. *National Emission Standards for Radionuclide Emissions from Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered by Subpart H.*

40 *CFR* 61, Appendix D. *Methods for Estimating Radionuclide Emissions.*

40 *CFR* 61, Appendix E. *Compliance Procedures Methods for Determining Compliance with Subpart I.*

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX B

FIGURE

THIS PAGE INTENTIONALLY LEFT BLANK

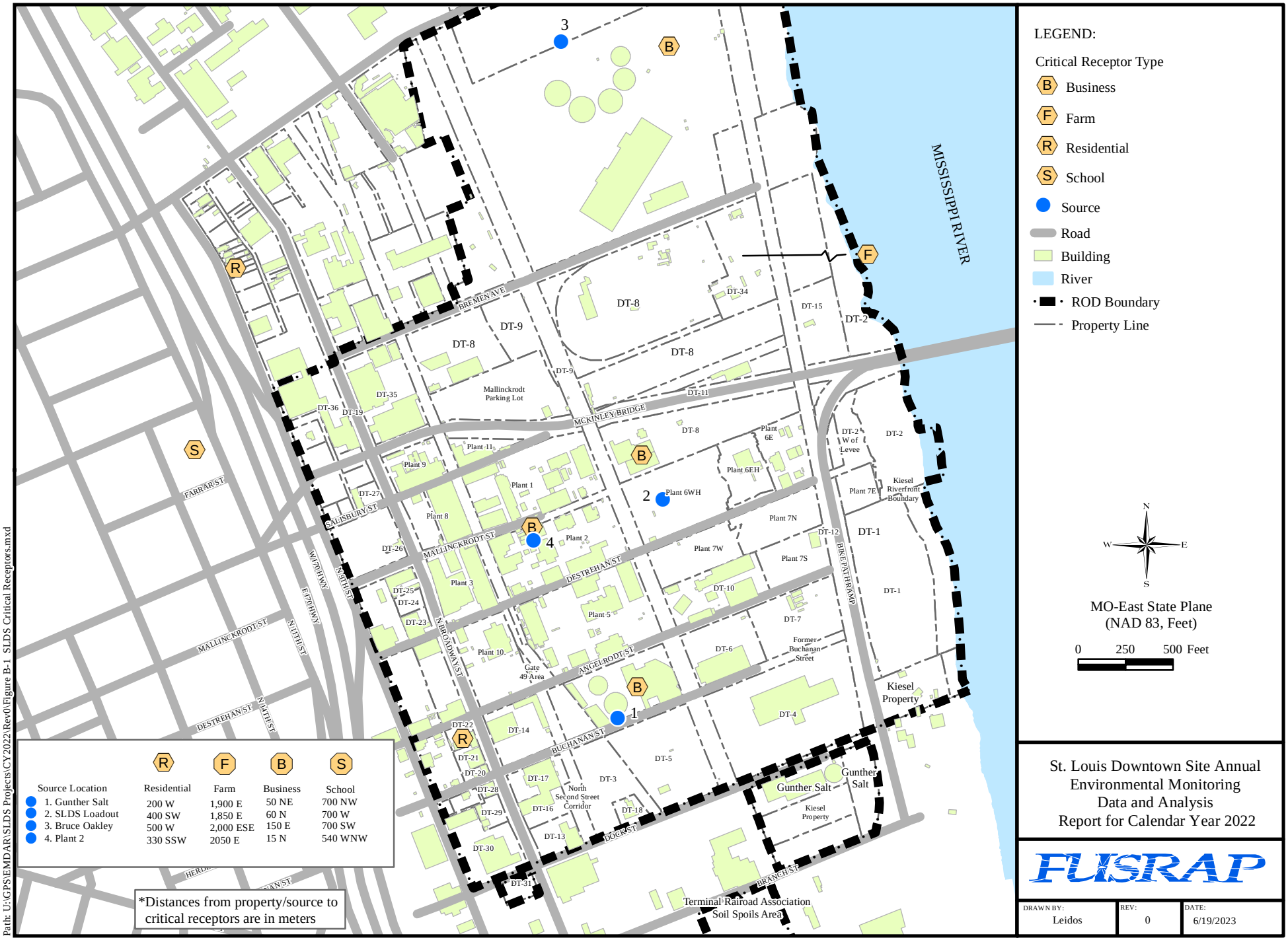


Figure B-1. Critical Receptors

ATTACHMENT B-1

CALCULATED EMISSION RATES

THIS PAGE INTENTIONALLY LEFT BLANK

Table B-1-1. Excavation/Loadout Area Soil Radionuclide Concentrations for CY 2022[a]

Property	Bruce Oakley[a]	Gunther Salt[a]	Plant 2[a]	Plant 6 Loadout Average[a]
Radionuclide	**Average Concentration (pCi/g)[a]**			
U-238	2.5	4.4	6.2	3.3
U-235	0.2	0.3	0.2	0.2
U-234	2.5	4.4	6.2	3.3
Ra-226	1.4	1.8	1.1	1.5
Ra-228	0.3	0.4	0.3	0.3
Th-232	0.3	0.4	0.3	0.3
Th-230	1.4	3.2	0.01	1.9
Th-228	0.3	0.4	0.3	0.3
Pa-231	0.004	0.1	0.3	0.04
Ac-227	0.02	0.2	0.05	0.08

[a] Average concentration from the SLDS CY 2022 excavated property and loadout area. When data were not available, the radionuclide was assumed to be in secular equilibrium with parent radionuclide.

Table B-1-2. Average Gross Alpha and Beta Airborne Particulate Concentrations for CY 2022

Monitoring Location	Average Concentration (μCi/mL) for Location[a]	
	Gross Alpha	Gross Beta
Bruce Oakley	5.45E-15	2.69E-14
Gunther Salt	5.07E-15	2.67E-14
Plant 2	5.94E-15	3.54E-14
Plant 6 Loadout	5.32E-15	3.35E-14
Background Concentration[b]	4.69E-15	2.47E-14

[a] Average concentration values for the sampling period by location.

[b] These concentrations are provided for informational purposes only. However, as a conservative approach, they were not subtracted from the gross average concentration during the determination of EDE.

Table B-1-3. Excavation Data for CY 2022

Excavation Location Name	Surface Area (m^2)	Start Date[a]	Backfill Date[a]
DT-9, Bruce Oakley Area A-3, SU-5A	200	01/19/22	02/08/22
DT-9, Bruce Oakley Area A-3, SU-5B	90	01/19/22	02/17/22
DT-9, Bruce Oakley Area A-7, SU-4A	594	02/07/22	02/16/22
DT-9, Bruce Oakley Area C-3, SU-4B	306	02/16/22	03/02/22
DT-9, Bruce Oakley Area C-2, SU-4C	54	03/16/22	03/29/22
DT-9, Bruce Oakley Area C-2, SU-4D	103	03/16/22	03/29/22
DT-9, Bruce Oakley Area C-2, SU-4E	25	03/16/22	03/29/22
DT-9, MSD Piles North, SU-1A	55	04/07/22	05/10/22
Gunther Salt Inaccessible, Area 4, SU-4aaaa	76	01/24/22	03/17/22
Gunther Salt Inaccessible, Area 4, SU-4bbbb - 4nnnn	111	03/28/22	03/28/22
Gunther Salt Inaccessible, Area 4, SU-4oooo - 4rrrr	203	05/02/22	05/02/22
Gunther Salt Inaccessible, Area 4, SU-4ssss - 4tttt	21	05/19/22	05/19/22
Plant 2 North, Excavation Area 1, SU-4A	38	10/18/22	11/08/22
Plant 2 North, Excavation Area 2, SU-4B (Inside sheet pile shoring)	58	11/07/22	12/31/22
Plant 6 Loadout	2,000	01/01/22	12/31/22

[a] Open/close dates set to start or stop at the CY boundary.

Table B-1-4. Average Surface Area and Flow Rate Per Location for CY 2022

Location	Total Days	Surface Area × Total Days	Average Surface Area/Year (A)[a] (m^2)	Diameter of Stack D = $(1.3\ A)^{1/2}$ (m)	Flow Rate $F = V\ \pi\ [(D)^2 / 4]*60$ (m^3/minute)
Bruce Oakley					
DT-9, Bruce Oakley Area A-3, SU-5A	21	4,200			
DT-9, Bruce Oakley Area A-3, SU-5B	30	2,700			
DT-9, Bruce Oakley Area A-7, SU-4A	10	5,940			
DT-9, Bruce Oakley Area C-3, SU-4B	15	4,590			
DT-9, Bruce Oakley Area C-2, SU-4C	14	756			
DT-9, Bruce Oakley Area C-2, SU-4D	14	1,442			
DT-9, Bruce Oakley Area C-2, SU-4E	14	350			
DT-9, MSD Piles North, SU-1A	34	1,870			
	Total	21,848	60	9	**1.6E+04**
Gunther Salt					
Gunther Salt Inaccessible, Area 4, SU-4aaaa	53	4,028			
Gunther Salt Inaccessible, Area 4, SU-4bbbb - 4nnnn	1	111			
Gunther Salt Inaccessible, Area 4, SU-4oooo - 4rrrr	1	203			
Gunther Salt Inaccessible, Area 4, SU-4ssss - 4tttt	1	21			
	Total	4,363	12	4	**3.3E+03**
Plant 2					
Plant 2 North, Excavation Area 1, SU-4A	22	836			
Plant 2 North, Excavation Area 2, SU-4B (Inside sheet pile shoring)	55	3,190			
	Total	4,026	11	4	**3.0E+03**
Plant 6 Loadout					
Plant 6 Loadout	365	730,000			
	Total	730,000	2,000	51	**5.4E+05**

[a] Average surface area/year = [Σ(surface area x total days)]/365.

Table B-1-5. Airborne Radioactive Particulate Emissions Based on Excavation Perimeter Air Samples for CY 2022

Property	Bruce Oakley			Gunther Salt			Plant 2			Plant 6 Loadout		
Radionuclide	Activity Fraction[a]	Emission Conc. ($\mu Ci/cm^3$)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Conc. ($\mu Ci/cm^3$)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Conc. ($\mu Ci/cm^3$)[b]	Release Rate (Ci/year)[c]	Activity Fraction[a]	Emission Conc. ($\mu Ci/cm^3$)[b]	Release Rate (Ci/year)[c]
U-238	0.28	1.5E-15	1.3E-05	0.28	1.4E-15	2.4E-06	0.41	2.5E-15	3.9E-06	0.29	1.7E-15	5.0E-04
U-235	0.02	9.4E-17	8.0E-07	0.02	8.8E-17	1.5E-07	0.01	7.1E-17	1.1E-07	0.02	1.0E-16	2.9E-05
U-234[d]	0.28	1.5E-15	1.3E-05	0.28	1.4E-15	2.4E-06	0.41	2.5E-15	3.9E-06	0.29	1.7E-15	5.0E-04
Ra-226	0.16	8.7E-16	7.4E-06	0.12	5.9E-16	1.0E-06	0.07	4.2E-16	6.7E-07	0.13	8.0E-16	2.3E-04
Th-232	0.04	2.0E-16	1.7E-06	0.02	1.2E-16	2.0E-07	0.02	1.3E-16	2.1E-07	0.03	1.7E-16	5.0E-05
Th-230	0.15	8.3E-16	7.1E-06	0.20	1.0E-15	1.7E-06	0.00	4.5E-18	7.0E-09	0.16	9.8E-16	2.8E-04
Th-228	0.04	2.0E-16	1.7E-06	0.02	1.2E-16	2.0E-07	0.02	1.3E-16	2.1E-07	0.03	1.7E-16	5.0E-05
Ra-224[d]	0.04	2.0E-16	1.7E-06	0.02	1.2E-16	2.0E-07	0.02	1.3E-16	2.1E-07	0.03	1.7E-16	5.0E-05
Th-234	0.36	9.6E-15	8.2E-05	0.45	1.2E-14	2.1E-05	0.47	1.7E-14	2.6E-05	0.44	1.6E-14	4.5E-03
Pa-234m[d]	0.36	9.6E-15	8.2E-05	0.45	1.2E-14	2.1E-05	0.47	1.7E-14	2.6E-05	0.44	1.6E-14	4.5E-03
Th-231[d]	0.02	5.9E-16	5.1E-06	0.03	7.4E-16	1.3E-06	0.01	4.8E-16	7.6E-07	0.03	9.1E-16	2.6E-04
Ra-228	0.13	3.5E-15	3.0E-05	0.04	9.7E-16	1.7E-06	0.02	8.8E-16	1.4E-06	0.04	1.6E-15	4.5E-04
Ac-228[d]	0.13	3.5E-15	3.0E-05	0.04	9.7E-16	1.7E-06	0.02	8.8E-16	1.4E-06	0.04	1.6E-15	4.5E-04
Pa-231[d]	0.00	2.5E-18	2.2E-08	0.02	8.8E-17	1.5E-07	0.01	7.1E-17	1.1E-07	0.00	2.3E-17	6.6E-06
Ac-227[d]	0.00	1.0E-17	8.6E-08	0.02	8.8E-17	1.5E-07	0.01	7.1E-17	1.1E-07	0.01	4.0E-17	1.1E-05

[a] Derived from the average soil radionuclide concentrations for the SLDS, as presented in Table B-1-1.

[b] Emission concentration is equal to the activity fraction times the gross alpha or gross beta airborne particulate concentrations listed in Table B-1-2.

[c] Release rate based on 365-day period at measured flow rate (Table B-1-4) for each site, as determined from the average annual wind speed (4.446 m per second) and calculated site area (Table B-1-4). (Note: 1 mL = 1 cm^3).

[d] When data were not available, the radionuclide was assumed to be in secular equilibrium with parent radionuclide.

Conc. – concentration

THIS PAGE INTENTIONALLY LEFT BLANK

ATTACHMENT B-2

CAP88-PC OUTPUT REPORT

THIS PAGE INTENTIONALLY LEFT BLANK

CAP88 OUTPUT RESULTS

Bruce Oakley

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Mon Mar 13 13:30:04 2023

```
         Facility:  SLDS Bruce Oakley Excavation
          Address:
             City:  St. Louis
            State:  MO          Zip:  63147


    Source Category:  Area
        Source Type:  Area
      Emission Year:  2022
     DOSE Age Group:  Adult

           Comments:  Air


       Dataset Name:  2022 SLDS Bruce
       Dataset Date:  Mar 13, 2023 01:23 PM
          Wind File:  C:\Users\randy\OneDrive\Documents\CAP88\Wind
Files\13994.WND
```

Mon Mar 13 13:30:04 2023 SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	1.13E-02
UB_Wall	1.25E-02
Bone_Sur	3.81E-01
Brain	1.19E-02
Breasts	1.30E-02
St_Wall	1.20E-02
SI_Wall	1.19E-02
ULI_Wall	1.23E-02
LLI_Wall	1.33E-02
Kidneys	1.99E-02
Liver	2.36E-02
Muscle	1.34E-02
Ovaries	1.37E-02
Pancreas	1.14E-02
R_Marrow	3.54E-02
Skin	1.32E-01
Spleen	1.21E-02
Testes	1.55E-02
Thymus	1.19E-02
Thyroid	1.24E-02
GB_Wall	1.14E-02
Ht_Wall	1.19E-02
Uterus	1.18E-02
ET_Reg	4.95E-02
Lung	1.39E-01
Effectiv	3.65E-02

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.73E-03
INHALATION	2.13E-02
AIR IMMERSION	4.73E-07
GROUND SURFACE	1.24E-02
INTERNAL	2.40E-02
EXTERNAL	1.24E-02
TOTAL	3.65E-02

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.74E-03
Th-234	8.85E-05
Pa-234m	6.55E-04
Pa-234	1.29E-05
U-234	2.10E-03
Th-230	5.56E-03
Ra-226	1.56E-03
Rn-222	1.22E-06
Po-218	2.18E-11
Pb-214	7.98E-04
At-218	8.21E-11
Bi-214	4.67E-03
Rn-218	4.76E-13
Po-214	2.59E-07
Tl-210	1.82E-06
Pb-210	3.93E-06
Bi-210	6.35E-05
Hg-206	5.13E-12
Po-210	1.65E-08
Tl-206	1.48E-10
U-235	1.68E-04
Th-231	5.48E-06
Pa-231	1.18E-04
Ac-227	3.49E-04
Th-227	2.55E-06
Fr-223	2.40E-08
Ra-223	2.85E-06
Rn-219	1.24E-06
At-219	0.00E+00
Bi-215	5.55E-12
Po-215	3.77E-09
Pb-211	2.43E-06
Bi-211	1.00E-06
Tl-207	1.26E-06
Po-211	4.81E-10
Th-232	2.46E-03
Ra-228	6.48E-03
Ac-228	2.39E-03
Th-228	3.32E-03
Ra-224	2.38E-04
Rn-220	1.63E-06
Po-216	3.94E-08
Pb-212	3.59E-04
Bi-212	4.19E-04
Po-212	0.00E+00
Tl-208	2.89E-03
TOTAL	3.65E-02

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.28E-10
Stomach	4.92E-10
Colon	1.36E-09
Liver	4.04E-10
LUNG	1.59E-08
Bone	4.58E-10
Skin	1.32E-10
Breast	5.94E-10
Ovary	1.96E-10
Bladder	3.06E-10
Kidneys	1.13E-10
Thyroid	3.96E-11
Leukemia	7.47E-10
Residual	1.85E-09
Total	2.28E-08
TOTAL	2.28E-08

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.02E-09
INHALATION	1.54E-08
AIR IMMERSION	2.51E-13
GROUND SURFACE	6.31E-09
INTERNAL	1.65E-08
EXTERNAL	6.31E-09
TOTAL	2.28E-08

Mon Mar 13 13:30:04 2023 SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.82E-09
Th-234	7.11E-11
Pa-234m	1.15E-10
Pa-234	7.01E-12
U-234	2.22E-09
Th-230	3.00E-09
Ra-226	1.41E-09
Rn-222	6.67E-13
Po-218	9.76E-18
Pb-214	4.27E-10
At-218	1.01E-17
Bi-214	2.46E-09
Rn-218	2.60E-19
Po-214	1.42E-13
Tl-210	9.73E-13
Pb-210	1.76E-12
Bi-210	7.04E-12
Hg-206	2.27E-18
Po-210	9.03E-15
Tl-206	1.67E-17
U-235	1.49E-10
Th-231	2.56E-12
Pa-231	1.16E-11
Ac-227	9.64E-11
Th-227	1.38E-12
Fr-223	8.97E-15
Ra-223	1.54E-12
Rn-219	6.76E-13
At-219	0.00E+00
Bi-215	2.48E-18
Po-215	2.07E-15
Pb-211	8.67E-13
Bi-211	5.46E-13
Tl-207	1.62E-13
Po-211	2.64E-16
Th-232	1.09E-09
Ra-228	3.02E-09
Ac-228	1.27E-09
Th-228	3.37E-09
Ra-224	2.68E-10
Rn-220	8.94E-13
Po-216	2.17E-14
Pb-212	1.95E-10
Bi-212	1.61E-10
Po-212	0.00E+00
Tl-208	1.57E-09
TOTAL	2.28E-08

Mon Mar 13 13:30:04 2023 SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)					
Direction	150	500	700	750	2000	
N	3.6E-02	5.6E-03	3.9E-03	3.7E-03	2.2E-03	
NNW	2.0E-02	3.8E-03	2.9E-03	2.8E-03	2.0E-03	
NW	2.3E-02	4.1E-03	3.1E-03	2.9E-03	2.1E-03	
WNW	2.8E-02	4.6E-03	3.3E-03	3.2E-03	2.1E-03	
W	2.1E-02	4.0E-03	3.0E-03	2.9E-03	2.1E-03	Residence
WSW	1.1E-02	2.9E-03	2.4E-03	2.3E-03	2.0E-03	
SW	1.5E-02	3.3E-03	2.6E-03	2.5E-03	2.0E-03	School
SSW	1.8E-02	3.6E-03	2.8E-03	2.7E-03	2.0E-03	
S	1.6E-02	3.4E-03	2.7E-03	2.6E-03	2.0E-03	Business
SSE	1.2E-02	3.0E-03	2.5E-03	2.4E-03	2.0E-03	
SE	1.6E-02	3.5E-03	2.7E-03	2.6E-03	2.0E-03	
ESE	2.7E-02	4.6E-03	3.3E-03	3.1E-03	2.1E-03	Farm
E	3.5E-02	5.4E-03	3.7E-03	3.5E-03	2.2E-03	Business
ENE	2.9E-02	4.8E-03	3.4E-03	3.2E-03	2.1E-03	
NE	1.8E-02	3.6E-03	2.8E-03	2.7E-03	2.0E-03	
NNE	1.6E-02	3.4E-03	2.7E-03	2.6E-03	2.0E-03	

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2020 Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Mon Mar 13 13:30:04 2023 SUMMARY
Page 6

INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	150	500	700	750	2000
N	2.3E-08	3.1E-09	2.0E-09	1.8E-09	9.1E-10
NNW	1.2E-08	1.9E-09	1.4E-09	1.3E-09	8.1E-10
NW	1.4E-08	2.1E-09	1.5E-09	1.4E-09	8.2E-10
WNW	1.7E-08	2.5E-09	1.6E-09	1.5E-09	8.5E-10
W	1.3E-08	2.0E-09	1.4E-09	1.3E-09	8.1E-10
WSW	6.6E-09	1.3E-09	1.0E-09	1.0E-09	7.5E-10
SW	9.1E-09	1.6E-09	1.2E-09	1.1E-09	7.8E-10
SSW	1.1E-08	1.8E-09	1.3E-09	1.2E-09	7.9E-10
S	9.7E-09	1.7E-09	1.2E-09	1.2E-09	7.9E-10
SSE	7.0E-09	1.4E-09	1.1E-09	1.0E-09	7.6E-10
SE	9.9E-09	1.7E-09	1.2E-09	1.2E-09	7.9E-10
ESE	1.7E-08	2.4E-09	1.6E-09	1.5E-09	8.5E-10
E	2.2E-08	2.9E-09	1.9E-09	1.7E-09	8.9E-10
ENE	1.8E-08	2.5E-09	1.7E-09	1.6E-09	8.5E-10
NE	1.1E-08	1.8E-09	1.3E-09	1.2E-09	8.0E-10
NNE	9.5E-09	1.6E-09	1.2E-09	1.1E-09	7.8E-10

CAP88 OUTPUT RESULTS

GUNTHER SALT

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 21 10:21:46 2023

```
     Facility:  SLDS Gunther Salt Excavation
      Address:
         City:  St. Louis
        State:  MO          Zip:  63147

Source Category:  Area
    Source Type:  Area
  Emission Year:  2022
 DOSE Age Group:  Adult

       Comments:  Air

   Dataset Name:  2022 SLDS Gunthe
   Dataset Date:  Mar 21, 2023 10:21 AM
      Wind File:  C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND
```

Tue Mar 21 10:21:46 2023 SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	8.21E-03
UB_Wall	8.95E-03
Bone_Sur	6.43E-01
Brain	8.60E-03
Breasts	9.33E-03
St_Wall	8.68E-03
SI_Wall	8.63E-03
ULI_Wall	9.08E-03
LLI_Wall	1.00E-02
Kidneys	1.86E-02
Liver	4.02E-02
Muscle	9.57E-03
Ovaries	1.32E-02
Pancreas	8.26E-03
R_Marrow	3.65E-02
Skin	1.14E-01
Spleen	8.75E-03
Testes	1.43E-02
Thymus	8.63E-03
Thyroid	8.95E-03
GB_Wall	8.31E-03
Ht_Wall	8.59E-03
Uterus	8.53E-03
ET_Reg	4.65E-02
Lung	1.35E-01
Effectiv	3.74E-02

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	1.46E-03
INHALATION	2.78E-02
AIR IMMERSION	2.28E-07
GROUND SURFACE	8.22E-03
INTERNAL	2.92E-02
EXTERNAL	8.22E-03
TOTAL	3.74E-02

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.97E-03
Th-234	1.18E-04
Pa-234m	7.29E-04
Pa-234	1.44E-05
U-234	2.38E-03
Th-230	8.16E-03
Ra-226	1.31E-03
Rn-222	1.00E-06
Po-218	1.79E-11
Pb-214	6.55E-04
At-218	6.74E-11
Bi-214	3.83E-03
Rn-218	3.90E-13
Po-214	2.12E-07
Tl-210	1.49E-06
Pb-210	3.22E-06
Bi-210	5.20E-05
Hg-206	4.20E-12
Po-210	1.35E-08
Tl-206	1.21E-10
U-235	1.92E-04
Th-231	6.20E-06
Pa-231	4.92E-03
Ac-227	3.73E-03
Th-227	4.53E-05
Fr-223	4.27E-07
Ra-223	5.07E-05
Rn-219	2.20E-05
At-219	0.00E+00
Bi-215	9.87E-11
Po-215	6.71E-08
Pb-211	4.31E-05
Bi-211	1.78E-05
Tl-207	2.23E-05
Po-211	8.55E-09
Th-232	1.77E-03
Ra-228	2.28E-03
Ac-228	1.01E-03
Th-228	2.39E-03
Ra-224	1.64E-04
Rn-220	6.96E-07
Po-216	1.68E-08
Pb-212	1.53E-04
Bi-212	1.78E-04
Po-212	0.00E+00
Tl-208	1.23E-03
TOTAL	3.74E-02

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	8.60E-11
Stomach	3.18E-10
Colon	8.90E-10
Liver	5.20E-10
LUNG	1.54E-08
Bone	4.53E-10
Skin	1.13E-10
Breast	3.83E-10
Ovary	1.58E-10
Bladder	2.07E-10
Kidneys	8.94E-11
Thyroid	2.58E-11
Leukemia	4.93E-10
Residual	1.20E-09
Total	2.03E-08
TOTAL	2.03E-08

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	4.98E-10
INHALATION	1.58E-08
AIR IMMERSION	1.13E-13
GROUND SURFACE	4.05E-09
INTERNAL	1.63E-08
EXTERNAL	4.05E-09
TOTAL	2.03E-08

Tue Mar 21 10:21:46 2023 SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	2.05E-09
Th-234	1.01E-10
Pa-234m	1.28E-10
Pa-234	7.81E-12
U-234	2.51E-09
Th-230	4.40E-09
Ra-226	1.17E-09
Rn-222	5.47E-13
Po-218	8.00E-18
Pb-214	3.50E-10
At-218	8.30E-18
Bi-214	2.02E-09
Rn-218	2.13E-19
Po-214	1.16E-13
Tl-210	7.98E-13
Pb-210	1.44E-12
Bi-210	5.77E-12
Hg-206	1.86E-18
Po-210	7.40E-15
Tl-206	1.37E-17
U-235	1.71E-10
Th-231	2.93E-12
Pa-231	4.83E-10
Ac-227	1.03E-09
Th-227	2.46E-11
Fr-223	1.59E-13
Ra-223	2.74E-11
Rn-219	1.20E-11
At-219	0.00E+00
Bi-215	4.40E-17
Po-215	3.68E-14
Pb-211	1.54E-11
Bi-211	9.70E-12
Tl-207	2.87E-12
Po-211	4.68E-15
Th-232	7.86E-10
Ra-228	1.06E-09
Ac-228	5.37E-10
Th-228	2.43E-09
Ra-224	1.89E-10
Rn-220	3.81E-13
Po-216	9.23E-15
Pb-212	8.31E-11
Bi-212	6.88E-11
Po-212	0.00E+00
Tl-208	6.70E-10
TOTAL	2.03E-08

Tue Mar 21 10:21:46 2023 SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	50	200	700	1900	
N	3.7E-02	4.6E-03	1.4E-03	1.1E-03	Business
NNW	2.0E-02	2.8E-03	1.2E-03	1.0E-03	
NW	2.2E-02	3.2E-03	1.2E-03	1.1E-03	School
WNW	2.7E-02	3.6E-03	1.3E-03	1.1E-03	
W	2.1E-02	3.0E-03	1.2E-03	1.0E-03	Residence
WSW	1.1E-02	2.0E-03	1.1E-03	1.0E-03	
SW	1.4E-02	2.4E-03	1.1E-03	1.0E-03	
SSW	1.7E-02	2.7E-03	1.2E-03	1.0E-03	
S	1.6E-02	2.5E-03	1.2E-03	1.0E-03	
SSE	1.2E-02	2.0E-03	1.1E-03	1.0E-03	
SE	1.6E-02	2.5E-03	1.2E-03	1.0E-03	
ESE	2.6E-02	3.6E-03	1.3E-03	1.1E-03	
E	3.3E-02	4.4E-03	1.3E-03	1.1E-03	Farm
ENE	2.7E-02	3.8E-03	1.3E-03	1.1E-03	
NE	1.8E-02	2.7E-03	1.2E-03	1.0E-03	
NNE	1.5E-02	2.4E-03	1.2E-03	1.0E-03	

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2020 Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Tue Mar 21 10:21:46 2023 SUMMARY
Page 6

INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)			
Direction	50	200	700	1900
N	2.0E-08	2.3E-09	5.4E-10	3.8E-10
NNW	1.1E-08	1.3E-09	4.5E-10	3.7E-10
NW	1.2E-08	1.5E-09	4.6E-10	3.7E-10
WNW	1.5E-08	1.8E-09	4.9E-10	3.7E-10
W	1.1E-08	1.4E-09	4.5E-10	3.7E-10
WSW	5.7E-09	8.7E-10	4.0E-10	3.6E-10
SW	7.6E-09	1.1E-09	4.2E-10	3.6E-10
SSW	9.2E-09	1.3E-09	4.4E-10	3.6E-10
S	8.7E-09	1.1E-09	4.3E-10	3.6E-10
SSE	6.2E-09	9.0E-10	4.0E-10	3.6E-10
SE	8.8E-09	1.2E-09	4.3E-10	3.6E-10
ESE	1.4E-08	1.7E-09	4.8E-10	3.7E-10
E	1.8E-08	2.2E-09	5.2E-10	3.8E-10
ENE	1.5E-08	1.9E-09	4.9E-10	3.7E-10
NE	9.6E-09	1.3E-09	4.4E-10	3.6E-10
NNE	8.3E-09	1.1E-09	4.2E-10	3.6E-10

CAP88 OUTPUT RESULTS

PLANT 2

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Tue Mar 21 10:24:12 2023

Facility: SLDS Plant 2 Excavation
Address:
City: St. Louis
State: MO Zip: 63147

Source Category: Area
Source Type: Area
Emission Year: 2022
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2022 SLDS Plant
Dataset Date: Mar 21, 2023 10:24 AM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

Tue Mar 21 10:24:12 2023 SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	2.19E-02
UB_Wall	2.38E-02
Bone_Sur	1.22E+00
Brain	2.29E-02
Breasts	2.49E-02
St_Wall	2.31E-02
SI_Wall	2.30E-02
ULI_Wall	2.43E-02
LLI_Wall	2.69E-02
Kidneys	4.95E-02
Liver	1.00E-01
Muscle	2.55E-02
Ovaries	3.14E-02
Pancreas	2.20E-02
R_Marrow	7.97E-02
Skin	4.77E-01
Spleen	2.33E-02
Testes	3.46E-02
Thymus	2.30E-02
Thyroid	2.39E-02
GB_Wall	2.21E-02
Ht_Wall	2.29E-02
Uterus	2.27E-02
ET_Reg	1.09E-01
Lung	3.72E-01
Effectiv	9.49E-02

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.99E-03
INHALATION	6.83E-02
AIR IMMERSION	7.60E-07
GROUND SURFACE	2.36E-02
INTERNAL	7.13E-02
EXTERNAL	2.36E-02
TOTAL	9.49E-02

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.10E-02
Th-234	5.61E-04
Pa-234m	4.08E-03
Pa-234	8.04E-05
U-234	1.33E-02
Th-230	1.16E-04
Ra-226	2.85E-03
Rn-222	2.26E-06
Po-218	4.05E-11
Pb-214	1.48E-03
At-218	1.52E-10
Bi-214	8.64E-03
Rn-218	8.81E-13
Po-214	4.79E-07
Tl-210	3.37E-06
Pb-210	7.29E-06
Bi-210	1.18E-04
Hg-206	9.51E-12
Po-210	3.05E-08
Tl-206	2.75E-10
U-235	4.84E-04
Th-231	1.57E-05
Pa-231	1.25E-02
Ac-227	9.46E-03
Th-227	1.15E-04
Fr-223	1.08E-06
Ra-223	1.28E-04
Rn-219	5.56E-05
At-219	0.00E+00
Bi-215	2.50E-10
Po-215	1.70E-07
Pb-211	1.09E-04
Bi-211	4.50E-05
Tl-207	5.66E-05
Po-211	2.17E-08
Th-232	6.41E-03
Ra-228	5.99E-03
Ac-228	3.16E-03
Th-228	8.67E-03
Ra-224	5.90E-04
Rn-220	2.19E-06
Po-216	5.29E-08
Pb-212	4.81E-04
Bi-212	5.62E-04
Po-212	0.00E+00
Tl-208	3.88E-03
TOTAL	9.49E-02

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	2.28E-10
Stomach	8.42E-10
Colon	2.38E-09
Liver	1.31E-09
LUNG	4.60E-08
Bone	9.25E-10
Skin	4.74E-10
Breast	1.02E-09
Ovary	3.89E-10
Bladder	5.49E-10
Kidneys	2.53E-10
Thyroid	6.83E-11
Leukemia	1.27E-09
Residual	3.14E-09
Total	5.89E-08
TOTAL	5.89E-08

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.12E-09
INHALATION	4.68E-08
AIR IMMERSION	3.66E-13
GROUND SURFACE	1.09E-08
INTERNAL	4.79E-08
EXTERNAL	1.09E-08
TOTAL	5.89E-08

Tue Mar 21 10:24:12 2023 SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.15E-08
Th-234	4.51E-10
Pa-234m	7.13E-10
Pa-234	4.37E-11
U-234	1.41E-08
Th-230	6.26E-11
Ra-226	2.65E-09
Rn-222	1.24E-12
Po-218	1.81E-17
Pb-214	7.91E-10
At-218	1.87E-17
Bi-214	4.56E-09
Rn-218	4.82E-19
Po-214	2.63E-13
Tl-210	1.80E-12
Pb-210	3.26E-12
Bi-210	1.31E-11
Hg-206	4.22E-18
Po-210	1.68E-14
Tl-206	3.09E-17
U-235	4.33E-10
Th-231	7.34E-12
Pa-231	1.22E-09
Ac-227	2.61E-09
Th-227	6.22E-11
Fr-223	4.03E-13
Ra-223	6.94E-11
Rn-219	3.04E-11
At-219	0.00E+00
Bi-215	1.12E-16
Po-215	9.31E-14
Pb-211	3.90E-11
Bi-211	2.46E-11
Tl-207	7.27E-12
Po-211	1.19E-14
Th-232	2.85E-09
Ra-228	2.83E-09
Ac-228	1.68E-09
Th-228	8.81E-09
Ra-224	6.82E-10
Rn-220	1.20E-12
Po-216	2.91E-14
Pb-212	2.62E-10
Bi-212	2.17E-10
Po-212	0.00E+00
Tl-208	2.11E-09
TOTAL	5.89E-08

Tue Mar 21 10:24:12 2023 SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)					
Direction	15	300	330	540	2050	
N	9.5E-02	3.1E-03	2.9E-03	2.2E-03	1.9E-03	Business
NNW	5.5E-02	2.5E-03	2.4E-03	2.0E-03	1.8E-03	
NW	5.0E-02	2.6E-03	2.5E-03	2.1E-03	1.8E-03	
WNW	5.4E-02	2.7E-03	2.6E-03	2.1E-03	1.9E-03	School
W	4.8E-02	2.5E-03	2.4E-03	2.1E-03	1.8E-03	
WSW	2.6E-02	2.2E-03	2.1E-03	1.9E-03	1.8E-03	
SW	2.8E-02	2.3E-03	2.2E-03	2.0E-03	1.8E-03	
SSW	3.3E-02	2.4E-03	2.3E-03	2.0E-03	1.8E-03	Residence
S	4.6E-02	2.3E-03	2.3E-03	2.0E-03	1.8E-03	
SSE	3.5E-02	2.2E-03	2.1E-03	1.9E-03	1.8E-03	
SE	4.6E-02	2.3E-03	2.3E-03	2.0E-03	1.8E-03	Business
ESE	6.0E-02	2.7E-03	2.6E-03	2.1E-03	1.9E-03	
E	6.1E-02	3.0E-03	2.8E-03	2.2E-03	1.9E-03	Farm
ENE	4.7E-02	2.8E-03	2.6E-03	2.1E-03	1.9E-03	
NE	4.1E-02	2.4E-03	2.3E-03	2.0E-03	1.8E-03	
NNE	3.8E-02	2.3E-03	2.2E-03	2.0E-03	1.8E-03	

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2020 Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Mon Mar 20 14:22:00 2023 SUMMARY
Page 6

INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	15	300	330	540	2050
N	5.9E-08	1.5E-09	1.3E-09	9.4E-10	7.1E-10
NNW	3.4E-08	1.1E-09	1.0E-09	8.1E-10	6.9E-10
NW	3.0E-08	1.1E-09	1.1E-09	8.4E-10	7.0E-10
WNW	3.3E-08	1.3E-09	1.2E-09	8.7E-10	7.0E-10
W	3.0E-08	1.1E-09	1.0E-09	8.2E-10	7.0E-10
WSW	1.6E-08	8.9E-10	8.5E-10	7.5E-10	6.9E-10
SW	1.7E-08	9.7E-10	9.3E-10	7.8E-10	6.9E-10
SSW	2.0E-08	1.0E-09	9.8E-10	8.0E-10	6.9E-10
S	2.8E-08	1.0E-09	9.5E-10	7.9E-10	6.9E-10
SSE	2.1E-08	9.0E-10	8.7E-10	7.6E-10	6.9E-10
SE	2.8E-08	1.0E-09	9.5E-10	7.9E-10	6.9E-10
ESE	3.7E-08	1.2E-09	1.1E-09	8.7E-10	7.0E-10
E	3.8E-08	1.4E-09	1.3E-09	9.2E-10	7.0E-10
ENE	2.9E-08	1.3E-09	1.2E-09	8.8E-10	7.0E-10
NE	2.5E-08	1.0E-09	9.9E-10	8.0E-10	6.9E-10
NNE	2.4E-08	9.9E-10	9.4E-10	7.8E-10	6.9E-10

CAP88 OUTPUT RESULTS

PLANT 6 LOADOUT

D O S E A N D R I S K S U M M A R I E S

Non-Radon Individual Assessment
Mon Mar 13 12:59:58 2023

Facility: SLDS Loadout
Address:
City: St. Louis
State: MO Zip: 63147

Source Category: Area
Source Type: Area
Emission Year: 2022
DOSE Age Group: Adult

Comments: Air

Dataset Name: 2022 SLDS Loadou
Dataset Date: Mar 13, 2023 12:59 PM
Wind File: C:\Users\randy\OneDrive\Documents\CAP88\Wind Files\13994.WND

Mon Mar 13 12:59:58 2023 SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenals	1.11E+00
UB_Wall	1.22E+00
Bone_Sur	4.96E+01
Brain	1.17E+00
Breasts	1.28E+00
St_Wall	1.18E+00
SI_Wall	1.17E+00
ULI_Wall	1.22E+00
LLI_Wall	1.33E+00
Kidneys	2.16E+00
Liver	3.11E+00
Muscle	1.31E+00
Ovaries	1.47E+00
Pancreas	1.12E+00
R_Marrow	3.65E+00
Skin	1.57E+01
Spleen	1.19E+00
Testes	1.64E+00
Thymus	1.17E+00
Thyroid	1.22E+00
GB_Wall	1.13E+00
Ht_Wall	1.17E+00
Uterus	1.16E+00
ET_Reg	5.97E+00
Lung	1.75E+01
Effectiv	4.28E+00

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	2.16E-01
INHALATION	2.84E+00
AIR IMMERSION	3.61E-05
GROUND SURFACE	1.22E+00
INTERNAL	3.06E+00
EXTERNAL	1.22E+00
TOTAL	4.28E+00

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	2.64E-01
Th-234	1.60E-02
Pa-234m	9.78E-02
Pa-234	1.93E-03
U-234	3.19E-01
Th-230	8.65E-01
Ra-226	1.93E-01
Rn-222	1.47E-04
Po-218	2.63E-09
Pb-214	9.62E-02
At-218	9.89E-09
Bi-214	5.62E-01
Rn-218	5.73E-11
Po-214	3.11E-05
Tl-210	2.19E-04
Pb-210	4.73E-04
Bi-210	7.65E-03
Hg-206	6.17E-10
Po-210	1.98E-06
Tl-206	1.79E-08
U-235	2.38E-02
Th-231	7.72E-04
Pa-231	1.39E-01
Ac-227	1.76E-01
Th-227	1.66E-03
Fr-223	1.57E-05
Ra-223	1.86E-03
Rn-219	8.06E-04
At-219	0.00E+00
Bi-215	3.62E-09
Po-215	2.46E-06
Pb-211	1.58E-03
Bi-211	6.52E-04
Tl-207	8.20E-04
Po-211	3.14E-07
Th-232	2.85E-01
Ra-228	3.87E-01
Ac-228	1.68E-01
Th-228	3.84E-01
Ra-224	2.64E-02
Rn-220	1.16E-04
Po-216	2.80E-06
Pb-212	2.55E-02
Bi-212	2.97E-02
Po-212	0.00E+00
Tl-208	2.05E-01
TOTAL	4.28E+00

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.22E-08
Stomach	4.64E-08
Colon	1.30E-07
Liver	4.54E-08
LUNG	2.01E-06
Bone	4.42E-08
Skin	1.56E-08
Breast	5.66E-08
Ovary	1.94E-08
Bladder	2.93E-08
Kidneys	1.13E-08
Thyroid	3.75E-09
Leukemia	7.05E-08
Residual	1.75E-07
Total	2.67E-06
TOTAL	2.67E-06

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	7.74E-08
INHALATION	1.99E-06
AIR IMMERSION	1.81E-11
GROUND SURFACE	6.08E-07
INTERNAL	2.06E-06
EXTERNAL	6.08E-07
TOTAL	2.67E-06

Mon Mar 13 12:59:58 2023 SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	2.75E-07
Th-234	1.38E-08
Pa-234m	1.71E-08
Pa-234	1.05E-09
U-234	3.36E-07
Th-230	4.66E-07
Ra-226	1.73E-07
Rn-222	8.03E-11
Po-218	1.18E-15
Pb-214	5.14E-08
At-218	1.22E-15
Bi-214	2.97E-07
Rn-218	3.13E-17
Po-214	1.71E-11
Tl-210	1.17E-10
Pb-210	2.12E-10
Bi-210	8.48E-10
Hg-206	2.74E-16
Po-210	1.09E-12
Tl-206	2.01E-15
U-235	2.13E-08
Th-231	3.65E-10
Pa-231	1.37E-08
Ac-227	4.86E-08
Th-227	9.01E-10
Fr-223	5.84E-12
Ra-223	1.00E-09
Rn-219	4.41E-10
At-219	0.00E+00
Bi-215	1.62E-15
Po-215	1.35E-12
Pb-211	5.65E-10
Bi-211	3.56E-10
Tl-207	1.05E-10
Po-211	1.72E-13
Th-232	1.26E-07
Ra-228	1.80E-07
Ac-228	8.95E-08
Th-228	3.90E-07
Ra-224	3.04E-08
Rn-220	6.35E-11
Po-216	1.54E-12
Pb-212	1.38E-08
Bi-212	1.15E-08
Po-212	0.00E+00
Tl-208	1.12E-07
TOTAL	2.67E-06

Mon Mar 13 12:59:58 2023 SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

	Distance (m)					
Direction	60	300	400	700	1850	
N	3.9E+00	4.5E-01	3.2E-01	2.1E-01	1.6E-01	Business
NNW	3.4E+00	3.0E-01	2.4E-01	1.8E-01	1.6E-01	
NW	3.2E+00	3.3E-01	2.6E-01	1.9E-01	1.6E-01	
WNW	3.4E+00	3.7E-01	2.8E-01	2.0E-01	1.6E-01	
W	2.8E+00	3.2E-01	2.5E-01	1.8E-01	1.6E-01	School
WSW	2.0E+00	2.3E-01	2.0E-01	1.7E-01	1.5E-01	
SW	2.0E+00	2.6E-01	2.2E-01	1.7E-01	1.5E-01	Residence
SSW	2.3E+00	2.9E-01	2.3E-01	1.8E-01	1.6E-01	
S	2.1E+00	2.7E-01	2.2E-01	1.8E-01	1.6E-01	Business
SSE	1.9E+00	2.4E-01	2.0E-01	1.7E-01	1.5E-01	
SE	2.4E+00	2.7E-01	2.2E-01	1.8E-01	1.6E-01	
ESE	3.6E+00	3.6E-01	2.7E-01	1.9E-01	1.6E-01	
E	4.3E+00	4.3E-01	3.1E-01	2.1E-01	1.6E-01	Farm
ENE	3.8E+00	3.8E-01	2.8E-01	2.0E-01	1.6E-01	
NE	2.7E+00	2.9E-01	2.3E-01	1.8E-01	1.6E-01	
NNE	2.9E+00	2.7E-01	2.2E-01	1.7E-01	1.6E-01	

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2020 Radionuclide Emissions NESHAP Report (Appendix B) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Mon Mar 13 12:59:58 2023 SUMMARY
Page 6

INDIVIDUAL LIFETIME RISK (deaths)
(All Radionuclides and Pathways)

	Distance (m)				
Direction	60	300	400	700	1850
N	2.4E-06	2.4E-07	1.6E-07	9.3E-08	6.1E-08
NNW	2.1E-06	1.5E-07	1.1E-07	7.4E-08	5.8E-08
NW	2.0E-06	1.7E-07	1.2E-07	7.7E-08	5.8E-08
WNW	2.1E-06	1.9E-07	1.3E-07	8.2E-08	5.9E-08
W	1.7E-06	1.6E-07	1.1E-07	7.5E-08	5.8E-08
WSW	1.2E-06	1.0E-07	8.3E-08	6.4E-08	5.6E-08
SW	1.2E-06	1.2E-07	9.5E-08	6.8E-08	5.7E-08
SSW	1.4E-06	1.4E-07	1.1E-07	7.2E-08	5.7E-08
S	1.3E-06	1.3E-07	9.9E-08	7.0E-08	5.7E-08
SSE	1.2E-06	1.1E-07	8.6E-08	6.5E-08	5.6E-08
SE	1.5E-06	1.3E-07	1.0E-07	7.0E-08	5.7E-08
ESE	2.2E-06	1.9E-07	1.3E-07	8.2E-08	5.9E-08
E	2.7E-06	2.3E-07	1.6E-07	9.0E-08	6.1E-08
ENE	2.3E-06	2.0E-07	1.4E-07	8.4E-08	5.9E-08
NE	1.7E-06	1.4E-07	1.1E-07	7.2E-08	5.7E-08
NNE	1.8E-06	1.3E-07	9.8E-08	6.9E-08	5.7E-08

APPENDIX C

ENVIRONMENTAL THERMOLUMINESCENT DOSIMETER, ALPHA TRACK DETECTOR, AND PERIMETER AIR DATA

THIS PAGE INTENTIONALLY LEFT BLANK

Table C-1. Background Air Particulate Data Results for CY 2022

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG237212	BAP-001	01/04/22	Gross Alpha/Beta	Gross Alpha	1.03E-14	1.73E-15	5.43E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG237212	BAP-001	01/04/22	Gross Alpha/Beta	Gross Beta	3.94E-14	3.88E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG237213	BAP-001	01/10/22	Gross Alpha/Beta	Gross Alpha	5.99E-15	1.34E-15	6.06E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG237213	BAP-001	01/10/22	Gross Alpha/Beta	Gross Beta	3.25E-14	3.44E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253272	BAP-001	01/18/22	Gross Alpha/Beta	Gross Alpha	8.55E-15	1.54E-15	5.33E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253272	BAP-001	01/18/22	Gross Alpha/Beta	Gross Beta	2.76E-14	2.95E-15	1.09E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253273	BAP-001	01/24/22	Gross Alpha/Beta	Gross Alpha	4.60E-15	1.24E-15	6.91E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253273	BAP-001	01/24/22	Gross Alpha/Beta	Gross Beta	2.04E-14	2.60E-15	1.42E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253274	BAP-001	01/31/22	Gross Alpha/Beta	Gross Alpha	5.69E-15	1.27E-15	5.76E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253274	BAP-001	01/31/22	Gross Alpha/Beta	Gross Beta	2.57E-14	2.86E-15	1.18E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253275	BAP-001	02/07/22	Gross Alpha/Beta	Gross Alpha	4.74E-15	1.17E-15	5.92E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253275	BAP-001	02/07/22	Gross Alpha/Beta	Gross Beta	2.28E-14	2.65E-15	1.21E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253276	BAP-001	02/14/22	Gross Alpha/Beta	Gross Alpha	3.15E-15	9.60E-16	6.06E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253276	BAP-001	02/14/22	Gross Alpha/Beta	Gross Beta	2.00E-14	2.45E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253277	BAP-001	02/22/22	Gross Alpha/Beta	Gross Alpha	2.97E-15	8.57E-16	5.11E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253277	BAP-001	02/22/22	Gross Alpha/Beta	Gross Beta	1.73E-14	2.10E-15	1.05E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253278	BAP-001	02/28/22	Gross Alpha/Beta	Gross Alpha	1.61E-15	7.48E-16	6.79E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253278	BAP-001	02/28/22	Gross Alpha/Beta	Gross Beta	1.85E-14	2.44E-15	1.39E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253279	BAP-001	03/07/22	Gross Alpha/Beta	Gross Alpha	3.83E-15	1.03E-15	5.76E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253279	BAP-001	03/07/22	Gross Alpha/Beta	Gross Beta	2.80E-14	3.04E-15	1.18E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253280	BAP-001	03/14/22	Gross Alpha/Beta	Gross Alpha	2.85E-15	9.07E-16	5.97E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253280	BAP-001	03/14/22	Gross Alpha/Beta	Gross Beta	1.79E-14	2.28E-15	1.22E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253281	BAP-001	03/21/22	Gross Alpha/Beta	Gross Alpha	1.16E-15	5.99E-16	5.91E-16	µCi/mL	J	T04, T20	Background Air (Particulate Air)-Environmental Monitoring
BKG253281	BAP-001	03/21/22	Gross Alpha/Beta	Gross Beta	1.45E-14	1.99E-15	1.21E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253282	BAP-001	03/28/22	Gross Alpha/Beta	Gross Beta	1.15E-14	1.75E-15	1.23E-15	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253282	BAP-001	03/28/22	Gross Alpha/Beta	Gross Alpha	4.87E-16	4.38E-16	6.00E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253282	BAP-001	03/28/22	Gross Alpha/Beta	Gross Alpha	3.04E-15	9.32E-16	5.57E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253282	BAP-001	03/28/22	Gross Alpha/Beta	Gross Beta	1.09E-14	1.70E-15	1.23E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253283	BAP-001	04/04/22	Gross Alpha/Beta	Gross Alpha	4.91E-15	1.19E-15	5.64E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253283	BAP-001	04/04/22	Gross Alpha/Beta	Gross Beta	1.23E-14	1.83E-15	1.27E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253284	BAP-001	04/11/22	Gross Alpha/Beta	Gross Alpha	3.72E-15	1.03E-15	5.64E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253284	BAP-001	04/11/22	Gross Alpha/Beta	Gross Beta	1.13E-14	1.75E-15	1.27E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253285	BAP-001	04/18/22	Gross Alpha/Beta	Gross Alpha	5.09E-15	1.24E-15	5.85E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253285	BAP-001	04/18/22	Gross Alpha/Beta	Gross Beta	1.48E-14	2.07E-15	1.32E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253286	BAP-001	04/19/22	Gross Alpha/Beta	Gross Alpha	5.07E-15	2.79E-15	2.78E-15	µCi/mL	J	T04, T20	Background Air (Particulate Air)-Environmental Monitoring
BKG253286	BAP-001	04/19/22	Gross Alpha/Beta	Gross Beta	2.30E-14	5.77E-15	6.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253287	BAP-001	05/02/22	Gross Alpha/Beta	Gross Alpha	4.39E-15	1.12E-15	5.54E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253287	BAP-001	05/02/22	Gross Alpha/Beta	Gross Beta	1.82E-14	2.30E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253288	BAP-001	05/09/22	Gross Alpha/Beta	Gross Alpha	2.19E-15	8.04E-16	5.74E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253288	BAP-001	05/09/22	Gross Alpha/Beta	Gross Beta	1.00E-14	1.66E-15	1.29E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253289	BAP-001	05/16/22	Gross Alpha/Beta	Gross Alpha	4.70E-15	1.12E-15	5.20E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253289	BAP-001	05/16/22	Gross Alpha/Beta	Gross Beta	2.08E-14	2.45E-15	1.17E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253290	BAP-001	05/23/22	Gross Alpha/Beta	Gross Alpha	3.09E-15	9.61E-16	5.88E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253290	BAP-001	05/23/22	Gross Alpha/Beta	Gross Beta	1.37E-14	1.98E-15	1.32E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253291	BAP-001	05/31/22	Gross Alpha/Beta	Gross Alpha	2.39E-15	7.85E-16	5.07E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

Table C-1. Background Air Particulate Data Results for CY 2022 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG253291	BAP-001	05/31/22	Gross Alpha/Beta	Gross Beta	1.42E-14	1.90E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253292	BAP-001	06/06/22	Gross Alpha/Beta	Gross Alpha	4.15E-15	1.33E-15	8.43E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253292	BAP-001	06/06/22	Gross Alpha/Beta	Gross Beta	2.51E-14	3.28E-15	1.90E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253293	BAP-001	06/13/22	Gross Alpha/Beta	Gross Alpha	2.99E-15	8.76E-16	5.05E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253293	BAP-001	06/13/22	Gross Alpha/Beta	Gross Beta	1.96E-14	2.33E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253294	BAP-001	06/20/22	Gross Alpha/Beta	Gross Alpha	2.81E-15	8.45E-16	5.02E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253294	BAP-001	06/20/22	Gross Alpha/Beta	Gross Beta	1.79E-14	2.19E-15	1.13E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253295	BAP-001	06/27/22	Gross Alpha/Beta	Gross Alpha	2.26E-15	8.84E-16	6.70E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253295	BAP-001	06/27/22	Gross Alpha/Beta	Gross Beta	2.42E-14	2.95E-15	1.51E-15	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253295	BAP-001	06/27/22	Gross Alpha/Beta	Gross Alpha	2.48E-15	9.24E-16	6.70E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253295	BAP-001	06/27/22	Gross Alpha/Beta	Gross Beta	2.25E-14	2.81E-15	1.51E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253296	BAP-001	07/05/22	Gross Alpha/Beta	Gross Alpha	7.19E-15	1.46E-15	4.57E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253296	BAP-001	07/05/22	Gross Alpha/Beta	Gross Beta	2.60E-14	2.96E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253297	BAP-001	07/11/22	Gross Alpha/Beta	Gross Alpha	4.74E-15	1.25E-15	5.28E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253297	BAP-001	07/11/22	Gross Alpha/Beta	Gross Beta	1.89E-14	2.53E-15	1.45E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253298	BAP-001	07/18/22	Gross Alpha/Beta	Gross Alpha	7.91E-15	1.50E-15	4.28E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253298	BAP-001	07/18/22	Gross Alpha/Beta	Gross Beta	2.51E-14	2.84E-15	1.17E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253299	BAP-001	07/25/22	Gross Alpha/Beta	Gross Alpha	7.49E-15	1.59E-15	5.22E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253299	BAP-001	07/25/22	Gross Alpha/Beta	Gross Beta	3.36E-14	3.69E-15	1.43E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253300	BAP-001	08/01/22	Gross Alpha/Beta	Gross Alpha	4.18E-15	1.05E-15	4.20E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253300	BAP-001	08/01/22	Gross Alpha/Beta	Gross Beta	1.60E-14	2.09E-15	1.15E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253301	BAP-001	08/08/22	Gross Alpha/Beta	Gross Alpha	3.38E-15	9.62E-16	4.45E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253301	BAP-001	08/08/22	Gross Alpha/Beta	Gross Beta	1.45E-14	2.02E-15	1.22E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253302	BAP-001	08/15/22	Gross Alpha/Beta	Gross Alpha	4.16E-15	1.05E-15	4.23E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253302	BAP-001	08/15/22	Gross Alpha/Beta	Gross Beta	2.14E-14	2.53E-15	1.16E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253303	BAP-001	08/22/22	Gross Alpha/Beta	Gross Alpha	4.58E-15	1.17E-15	4.80E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253303	BAP-001	08/22/22	Gross Alpha/Beta	Gross Beta	2.97E-14	3.30E-15	1.32E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253304	BAP-001	08/29/22	Gross Alpha/Beta	Gross Alpha	3.69E-15	1.01E-15	4.45E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253304	BAP-001	08/29/22	Gross Alpha/Beta	Gross Beta	3.34E-14	3.52E-15	1.22E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253305	BAP-001	09/06/22	Gross Alpha/Beta	Gross Alpha	4.74E-15	1.12E-15	4.23E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253305	BAP-001	09/06/22	Gross Alpha/Beta	Gross Beta	2.60E-14	2.90E-15	1.16E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253306	BAP-001	09/09/22	Gross Alpha/Beta	Gross Alpha	4.95E-15	1.78E-15	1.05E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253306	BAP-001	09/09/22	Gross Alpha/Beta	Gross Beta	3.55E-14	4.86E-15	2.88E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253307	BAP-001	09/19/22	Gross Alpha/Beta	Gross Alpha	3.71E-15	1.04E-15	4.71E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253307	BAP-001	09/19/22	Gross Alpha/Beta	Gross Beta	3.83E-14	3.96E-15	1.29E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253308	BAP-001	09/26/22	Gross Alpha/Beta	Gross Alpha	1.91E-15	7.07E-16	4.30E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253308	BAP-001	09/26/22	Gross Alpha/Beta	Gross Beta	2.84E-14	3.10E-15	1.18E-15	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253308	BAP-001	09/26/22	Gross Alpha/Beta	Gross Alpha	2.02E-15	7.28E-16	4.30E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253308	BAP-001	09/26/22	Gross Alpha/Beta	Gross Beta	2.86E-14	3.12E-15	1.18E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253309	BAP-001	10/03/22	Gross Alpha/Beta	Gross Alpha	4.23E-15	9.97E-16	4.25E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253309	BAP-001	10/03/22	Gross Alpha/Beta	Gross Beta	1.40E-14	1.80E-15	9.63E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253310	BAP-001	10/10/22	Gross Alpha/Beta	Gross Alpha	6.74E-15	1.64E-15	7.20E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253310	BAP-001	10/10/22	Gross Alpha/Beta	Gross Beta	2.61E-14	3.24E-15	1.63E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253311	BAP-001	10/17/22	Gross Alpha/Beta	Gross Alpha	9.06E-15	1.64E-15	5.11E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253311	BAP-001	10/17/22	Gross Alpha/Beta	Gross Beta	2.78E-14	3.02E-15	1.13E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

Table C-1. Background Air Particulate Data Results for CY 2022 (Continued)

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG253312	BAP-001	10/25/22	Gross Alpha/Beta	Gross Alpha	7.29E-15	1.43E-15	5.00E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253312	BAP-001	10/25/22	Gross Alpha/Beta	Gross Beta	2.38E-14	2.68E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253313	BAP-001	10/31/22	Gross Alpha/Beta	Gross Alpha	6.26E-15	1.35E-15	5.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253313	BAP-001	10/31/22	Gross Alpha/Beta	Gross Beta	2.60E-14	2.91E-15	1.18E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253314	BAP-001	11/07/22	Gross Alpha/Beta	Gross Alpha	1.07E-14	1.77E-15	4.87E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253314	BAP-001	11/07/22	Gross Alpha/Beta	Gross Beta	4.03E-14	3.95E-15	1.08E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253315	BAP-001	11/14/22	Gross Alpha/Beta	Gross Alpha	4.92E-15	1.25E-15	5.94E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253315	BAP-001	11/14/22	Gross Alpha/Beta	Gross Beta	2.06E-14	2.57E-15	1.31E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253316	BAP-001	11/21/22	Gross Alpha/Beta	Gross Alpha	6.10E-15	1.30E-15	5.02E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253316	BAP-001	11/21/22	Gross Alpha/Beta	Gross Beta	2.90E-14	3.10E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253317	BAP-001	11/28/22	Gross Alpha/Beta	Gross Alpha	1.08E-14	1.91E-15	5.81E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253317	BAP-001	11/28/22	Gross Alpha/Beta	Gross Beta	5.98E-14	5.61E-15	1.29E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253318	BAP-001	12/05/22	Gross Alpha/Beta	Gross Alpha	6.02E-15	1.31E-15	5.16E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253318	BAP-001	12/05/22	Gross Alpha/Beta	Gross Beta	3.88E-14	3.88E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253319	BAP-001	12/12/22	Gross Alpha/Beta	Gross Alpha	9.94E-15	1.79E-15	5.56E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253319	BAP-001	12/12/22	Gross Alpha/Beta	Gross Beta	6.78E-14	6.18E-15	1.23E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253320	BAP-001	12/19/22	Gross Alpha/Beta	Gross Alpha	3.05E-15	9.01E-16	5.02E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253320	BAP-001	12/19/22	Gross Alpha/Beta	Gross Beta	2.51E-14	2.79E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253321	BAP-001	12/27/22	Gross Alpha/Beta	Gross Alpha	1.79E-15	6.41E-16	4.24E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253321	BAP-001	12/27/22	Gross Alpha/Beta	Gross Beta	2.72E-14	2.84E-15	9.61E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG253321	BAP-001	12/27/22	Gross Alpha/Beta	Gross Alpha	2.18E-15	7.09E-16	4.35E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG253321	BAP-001	12/27/22	Gross Alpha/Beta	Gross Beta	2.44E-14	2.63E-15	9.61E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

Validation Reason Codes:

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 to 100 percent of the result.

Table C-2. TLD (External Gamma Radiation) Results for CY 2022

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS256284	BA-1	04/01/22	Radiological	External gamma radiation	20.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
HIS258812	BA-1	07/05/22	Radiological	External gamma radiation	17.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
HIS262075	BA-1	10/03/22	Radiological	External gamma radiation	18.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
HIS265466	BA-1	01/04/23	Radiological	External gamma radiation	17.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256291	DA-3	04/01/22	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258819	DA-3	07/05/22	Radiological	External gamma radiation	20.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262082	DA-3	10/03/22	Radiological	External gamma radiation	18	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265469	DA-3	01/04/23	Radiological	External gamma radiation	18.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256292	DA-7	04/01/22	Radiological	External gamma radiation	20.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258820	DA-7	07/05/22	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262083	DA-7	10/03/22	Radiological	External gamma radiation	19.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265470	DA-7	01/04/23	Radiological	External gamma radiation	21	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256293	DA-8	04/01/22	Radiological	External gamma radiation	22.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258821	DA-8	07/05/22	Radiological	External gamma radiation	20.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262084	DA-8	10/03/22	Radiological	External gamma radiation	20.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265471	DA-8	01/04/23	Radiological	External gamma radiation	21.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256293-1	DA-8dup	04/01/22	Radiological	External gamma radiation	23	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258821-1	DA-8dup	07/05/22	Radiological	External gamma radiation	21.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262084-1	DA-8dup	10/03/22	Radiological	External gamma radiation	20	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265471-1	DA-8dup	01/04/23	Radiological	External gamma radiation	20.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256294	DA-9	04/01/22	Radiological	External gamma radiation	22.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258822	DA-9	07/05/22	Radiological	External gamma radiation	22.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262085	DA-9	10/03/22	Radiological	External gamma radiation	19.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265472	DA-9	01/04/23	Radiological	External gamma radiation	18	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256295	DA-10	04/01/22	Radiological	External gamma radiation	21.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258823	DA-10	07/05/22	Radiological	External gamma radiation	21.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262086	DA-10	10/03/22	Radiological	External gamma radiation	20.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265473	DA-10	01/04/23	Radiological	External gamma radiation	21.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256296	DA-11	04/01/22	Radiological	External gamma radiation	20.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258824	DA-11	07/05/22	Radiological	External gamma radiation	18.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262087	DA-11	10/03/22	Radiological	External gamma radiation	18.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265474	DA-11	01/04/23	Radiological	External gamma radiation	18	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256297	DA-12	04/01/22	Radiological	External gamma radiation	19	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258825	DA-12	07/05/22	Radiological	External gamma radiation	18.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262088	DA-12	10/03/22	Radiological	External gamma radiation	19.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265475	DA-12	01/04/23	Radiological	External gamma radiation	18.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022
SLD256298	DA-13	04/01/22	Radiological	External gamma radiation	20.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2022
SLD258826	DA-13	07/05/22	Radiological	External gamma radiation	19.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2022
SLD262089	DA-13	10/03/22	Radiological	External gamma radiation	17.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2022
SLD265476	DA-13	01/04/23	Radiological	External gamma radiation	18.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2022

VQ:

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

Validation Reason Code:

Y01 - FUSRAP Only: Not enough supporting documentation to perform validation.

Table C-3. Perimeter Air Data Results for CY 2022

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD238911	GUNTHER SALT	01/05/22	Gross Alpha/Beta	Gross Alpha	-5.86E-15	1.10E-14	3.10E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238911	GUNTHER SALT	01/05/22	Gross Alpha/Beta	Gross Beta	8.46E-14	4.37E-14	6.23E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238912	GUNTHER SALT	01/10/22	Gross Alpha/Beta	Gross Alpha	3.86E-15	7.17E-15	1.27E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238912	GUNTHER SALT	01/10/22	Gross Alpha/Beta	Gross Beta	4.93E-14	1.94E-14	2.55E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD238948	GUNTHER SALT	01/19/22	Gross Alpha/Beta	Gross Alpha	1.19E-14	2.57E-14	4.88E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238948	GUNTHER SALT	01/19/22	Gross Alpha/Beta	Gross Beta	-9.22E-15	6.52E-14	1.23E-13	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238949	GUNTHER SALT	01/24/22	Gross Alpha/Beta	Gross Alpha	4.72E-15	7.25E-15	1.19E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238949	GUNTHER SALT	01/24/22	Gross Alpha/Beta	Gross Beta	1.19E-14	1.79E-14	3.00E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238950	GUNTHER SALT	01/25/22	Gross Alpha/Beta	Gross Alpha	1.11E-15	5.08E-15	1.18E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238950	GUNTHER SALT	01/25/22	Gross Alpha/Beta	Gross Beta	2.91E-14	1.99E-14	2.95E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238951	GUNTHER SALT	02/15/22	Gross Alpha/Beta	Gross Alpha	8.46E-15	6.71E-15	7.37E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238951	GUNTHER SALT	02/15/22	Gross Alpha/Beta	Gross Beta	1.46E-14	1.20E-14	1.85E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238952	GUNTHER SALT	02/16/22	Gross Alpha/Beta	Gross Alpha	7.42E-15	6.38E-15	7.44E-15	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238952	GUNTHER SALT	02/16/22	Gross Alpha/Beta	Gross Beta	2.06E-14	1.29E-14	1.87E-14	µCi/mL	J	F01, T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238953	GUNTHER SALT	02/22/22	Gross Alpha/Beta	Gross Alpha	5.53E-15	5.90E-15	7.94E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238953	GUNTHER SALT	02/22/22	Gross Alpha/Beta	Gross Beta	1.34E-14	1.27E-14	1.99E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238954	GUNTHER SALT	02/23/22	Gross Alpha/Beta	Gross Alpha	1.51E-14	9.03E-15	7.94E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238954	GUNTHER SALT	02/23/22	Gross Alpha/Beta	Gross Beta	4.23E-14	1.61E-14	1.99E-14	µCi/mL	J	F01	Gunther Salt (General Area)-Perimeter Air
SLD238955	GUNTHER SALT	02/28/22	Gross Alpha/Beta	Gross Alpha	1.76E-14	1.66E-14	2.07E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238955	GUNTHER SALT	02/28/22	Gross Alpha/Beta	Gross Beta	4.26E-15	2.89E-14	5.20E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238956	GUNTHER SALT	03/01/22	Gross Alpha/Beta	Gross Alpha	1.27E-14	7.94E-15	7.24E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238956	GUNTHER SALT	03/01/22	Gross Alpha/Beta	Gross Beta	4.36E-14	1.53E-14	1.82E-14	µCi/mL	J	F01	Gunther Salt (General Area)-Perimeter Air
SLD238957	GUNTHER SALT	03/02/22	Gross Alpha/Beta	Gross Alpha	1.75E-14	9.34E-15	7.44E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238957	GUNTHER SALT	03/02/22	Gross Alpha/Beta	Gross Beta	3.45E-14	1.45E-14	1.87E-14	µCi/mL	J	F01	Gunther Salt (General Area)-Perimeter Air
SLD238958	GUNTHER SALT	03/03/22	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.04E-15	7.34E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238958	GUNTHER SALT	03/03/22	Gross Alpha/Beta	Gross Beta	3.55E-14	1.45E-14	1.84E-14	µCi/mL	J	F01	Gunther Salt (General Area)-Perimeter Air
SLD238959	GUNTHER SALT	03/07/22	Gross Alpha/Beta	Gross Alpha	5.27E-15	1.14E-14	2.15E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238959	GUNTHER SALT	03/07/22	Gross Alpha/Beta	Gross Beta	1.08E-14	3.09E-14	5.41E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238960	GUNTHER SALT	03/08/22	Gross Alpha/Beta	Gross Alpha	8.19E-15	7.05E-15	8.21E-15	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238960	GUNTHER SALT	03/08/22	Gross Alpha/Beta	Gross Beta	1.06E-14	1.27E-14	2.06E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238961	GUNTHER SALT	03/09/22	Gross Alpha/Beta	Gross Alpha	4.10E-15	5.09E-15	7.51E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238961	GUNTHER SALT	03/09/22	Gross Alpha/Beta	Gross Beta	3.85E-14	1.51E-14	1.88E-14	µCi/mL	J	F01	Gunther Salt (General Area)-Perimeter Air
SLD238962	GUNTHER SALT	03/10/22	Gross Alpha/Beta	Gross Alpha	1.23E-14	1.02E-14	1.18E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238962	GUNTHER SALT	03/10/22	Gross Alpha/Beta	Gross Beta	5.67E-14	2.51E-14	3.41E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD238963	GUNTHER SALT	03/14/22	Gross Alpha/Beta	Gross Alpha	7.40E-15	6.66E-15	8.23E-15	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238963	GUNTHER SALT	03/14/22	Gross Alpha/Beta	Gross Beta	2.92E-14	1.64E-14	2.37E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238964	GUNTHER SALT	03/15/22	Gross Alpha/Beta	Gross Alpha	3.55E-16	3.07E-15	7.50E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238964	GUNTHER SALT	03/15/22	Gross Alpha/Beta	Gross Beta	2.08E-14	1.43E-14	2.16E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238965	GUNTHER SALT	03/16/22	Gross Alpha/Beta	Gross Alpha	3.62E-15	4.89E-15	7.64E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238965	GUNTHER SALT	03/16/22	Gross Alpha/Beta	Gross Beta	3.51E-14	1.61E-14	2.20E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD238966	GUNTHER SALT	03/17/22	Gross Alpha/Beta	Gross Alpha	3.45E-15	4.66E-15	7.28E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238966	GUNTHER SALT	03/17/22	Gross Alpha/Beta	Gross Beta	2.44E-14	1.44E-14	2.10E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238967	GUNTHER SALT	03/21/22	Gross Alpha/Beta	Gross Alpha	2.45E-15	4.25E-15	7.41E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238967	GUNTHER SALT	03/21/22	Gross Alpha/Beta	Gross Beta	1.77E-14	1.38E-14	2.14E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238968	GUNTHER SALT	03/22/22	Gross Alpha/Beta	Gross Alpha	7.38E-15	8.41E-15	1.20E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD238968	GUNTHER SALT	03/22/22	Gross Alpha/Beta	Gross Beta	7.92E-15	2.01E-14	3.46E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238969	GUNTHER SALT	03/28/22	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.10E-15	8.69E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238969	GUNTHER SALT	03/28/22	Gross Alpha/Beta	Gross Beta	1.49E-14	1.56E-14	2.51E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238970	GUNTHER SALT	03/29/22	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.52E-15	7.89E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238970	GUNTHER SALT	03/29/22	Gross Alpha/Beta	Gross Beta	3.02E-14	1.60E-14	2.27E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238971	GUNTHER SALT	04/04/22	Gross Alpha/Beta	Gross Alpha	-9.43E-16	2.93E-15	9.96E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238971	GUNTHER SALT	04/04/22	Gross Alpha/Beta	Gross Beta	3.15E-14	1.95E-14	2.87E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238972	GUNTHER SALT	04/05/22	Gross Alpha/Beta	Gross Alpha	7.05E-15	7.05E-15	9.31E-15	µCi/mL	U		Gunther Salt (General Area)-Perimeter Air
SLD238972	GUNTHER SALT	04/05/22	Gross Alpha/Beta	Gross Beta	3.83E-14	1.91E-14	2.68E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD238973	GUNTHER SALT	04/06/22	Gross Alpha/Beta	Gross Alpha	2.53E-15	4.38E-15	7.64E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238973	GUNTHER SALT	04/06/22	Gross Alpha/Beta	Gross Beta	1.39E-14	1.38E-14	2.20E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD238993	GUNTHER SALT	04/11/22	Gross Alpha/Beta	Gross Alpha	-1.56E-15	5.79E-15	1.53E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238993	GUNTHER SALT	04/11/22	Gross Alpha/Beta	Gross Beta	4.53E-14	2.29E-14	3.24E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238994	GUNTHER SALT	04/12/22	Gross Alpha/Beta	Gross Alpha	1.75E-14	1.85E-14	2.71E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238994	GUNTHER SALT	04/12/22	Gross Alpha/Beta	Gross Beta	7.31E-14	3.99E-14	5.75E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238995	GUNTHER SALT	04/13/22	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.32E-14	2.04E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238995	GUNTHER SALT	04/13/22	Gross Alpha/Beta	Gross Beta	4.08E-16	2.41E-14	4.33E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238996	GUNTHER SALT	04/14/22	Gross Alpha/Beta	Gross Alpha	7.17E-15	7.59E-15	1.11E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238996	GUNTHER SALT	04/14/22	Gross Alpha/Beta	Gross Beta	3.08E-14	1.65E-14	2.36E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD238997	GUNTHER SALT	04/18/22	Gross Alpha/Beta	Gross Alpha	4.47E-15	6.33E-15	1.04E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238997	GUNTHER SALT	04/18/22	Gross Alpha/Beta	Gross Beta	1.09E-14	1.35E-14	2.20E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238998	GUNTHER SALT	04/19/22	Gross Alpha/Beta	Gross Alpha	6.87E-15	7.27E-15	1.07E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238998	GUNTHER SALT	04/19/22	Gross Alpha/Beta	Gross Beta	1.34E-14	1.41E-14	2.26E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238999	GUNTHER SALT	04/20/22	Gross Alpha/Beta	Gross Alpha	-1.14E-15	4.22E-15	1.11E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD238999	GUNTHER SALT	04/20/22	Gross Alpha/Beta	Gross Beta	1.55E-14	1.49E-14	2.36E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD239000	GUNTHER SALT	04/25/22	Gross Alpha/Beta	Gross Alpha	2.13E-15	5.17E-15	9.77E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD239000	GUNTHER SALT	04/25/22	Gross Alpha/Beta	Gross Beta	1.49E-14	1.32E-14	2.07E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD239001	GUNTHER SALT	04/26/22	Gross Alpha/Beta	Gross Alpha	6.85E-15	9.70E-15	1.59E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD239001	GUNTHER SALT	04/26/22	Gross Alpha/Beta	Gross Beta	2.54E-14	2.16E-14	3.37E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD239002	GUNTHER SALT	04/26/22	Gross Alpha/Beta	Gross Alpha	-1.04E-15	3.85E-15	1.02E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD239002	GUNTHER SALT	04/26/22	Gross Alpha/Beta	Gross Beta	1.41E-14	1.35E-14	2.15E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257500	GUNTHER SALT	04/27/22	Gross Alpha/Beta	Gross Alpha	2.35E-14	1.25E-14	9.65E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257500	GUNTHER SALT	04/27/22	Gross Alpha/Beta	Gross Beta	5.16E-14	2.25E-14	3.03E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257501	GUNTHER SALT	04/27/22	Gross Alpha/Beta	Gross Alpha	7.49E-15	6.32E-15	7.17E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257501	GUNTHER SALT	04/27/22	Gross Alpha/Beta	Gross Beta	4.36E-14	1.72E-14	2.25E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257502	GUNTHER SALT	05/02/22	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.71E-15	7.81E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257502	GUNTHER SALT	05/02/22	Gross Alpha/Beta	Gross Beta	2.63E-14	1.65E-14	2.45E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257503	GUNTHER SALT	05/03/22	Gross Alpha/Beta	Gross Alpha	9.24E-15	6.74E-15	6.82E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257503	GUNTHER SALT	05/03/22	Gross Alpha/Beta	Gross Beta	2.65E-14	1.48E-14	2.14E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257504	GUNTHER SALT	05/03/22	Gross Alpha/Beta	Gross Alpha	8.47E-15	1.69E-14	3.13E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257504	GUNTHER SALT	05/03/22	Gross Alpha/Beta	Gross Beta	5.59E-14	6.08E-14	9.81E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257505	GUNTHER SALT	05/04/22	Gross Alpha/Beta	Gross Alpha	5.15E-15	5.35E-15	7.01E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257505	GUNTHER SALT	05/04/22	Gross Alpha/Beta	Gross Beta	5.93E-15	1.29E-14	2.20E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257506	GUNTHER SALT	05/09/22	Gross Alpha/Beta	Gross Alpha	5.50E-15	5.71E-15	7.48E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257506	GUNTHER SALT	05/09/22	Gross Alpha/Beta	Gross Beta	1.96E-14	1.52E-14	2.35E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257507	GUNTHER SALT	05/10/22	Gross Alpha/Beta	Gross Alpha	7.81E-15	6.60E-15	7.48E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD257507	GUNTHER SALT	05/10/22	Gross Alpha/Beta	Gross Beta	3.53E-14	1.69E-14	2.35E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257508	GUNTHER SALT	05/11/22	Gross Alpha/Beta	Gross Alpha	1.23E-14	7.62E-15	6.77E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257508	GUNTHER SALT	05/11/22	Gross Alpha/Beta	Gross Beta	2.98E-14	1.51E-14	2.12E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257509	GUNTHER SALT	05/12/22	Gross Alpha/Beta	Gross Alpha	7.49E-15	6.32E-15	7.17E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257509	GUNTHER SALT	05/12/22	Gross Alpha/Beta	Gross Beta	2.41E-14	1.52E-14	2.25E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257510	GUNTHER SALT	05/16/22	Gross Alpha/Beta	Gross Alpha	7.19E-15	6.07E-15	6.89E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257510	GUNTHER SALT	05/16/22	Gross Alpha/Beta	Gross Beta	3.83E-14	1.62E-14	2.16E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257511	GUNTHER SALT	05/17/22	Gross Alpha/Beta	Gross Alpha	8.37E-15	6.53E-15	6.98E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257511	GUNTHER SALT	05/17/22	Gross Alpha/Beta	Gross Beta	2.93E-14	1.54E-14	2.19E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257512	GUNTHER SALT	05/18/22	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.09E-15	7.48E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257512	GUNTHER SALT	05/18/22	Gross Alpha/Beta	Gross Beta	2.43E-14	1.58E-14	2.35E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257513	GUNTHER SALT	05/19/22	Gross Alpha/Beta	Gross Alpha	1.34E-14	1.13E-14	1.28E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257513	GUNTHER SALT	05/19/22	Gross Alpha/Beta	Gross Beta	5.48E-15	2.29E-14	4.02E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257514	GUNTHER SALT	05/23/22	Gross Alpha/Beta	Gross Alpha	3.90E-15	6.03E-15	1.02E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257514	GUNTHER SALT	05/23/22	Gross Alpha/Beta	Gross Beta	8.76E-15	1.37E-14	2.29E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257515	GUNTHER SALT	05/24/22	Gross Alpha/Beta	Gross Alpha	-2.80E-15	2.37E-15	9.94E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257515	GUNTHER SALT	05/24/22	Gross Alpha/Beta	Gross Beta	2.06E-14	1.47E-14	2.24E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257516	GUNTHER SALT	05/25/22	Gross Alpha/Beta	Gross Alpha	1.52E-15	4.73E-15	9.40E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257516	GUNTHER SALT	05/25/22	Gross Alpha/Beta	Gross Beta	8.09E-15	1.27E-14	2.11E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257517	GUNTHER SALT	05/26/22	Gross Alpha/Beta	Gross Alpha	6.64E-15	6.57E-15	9.28E-15	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257517	GUNTHER SALT	05/26/22	Gross Alpha/Beta	Gross Beta	2.32E-14	1.41E-14	2.09E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257518	GUNTHER SALT	05/31/22	Gross Alpha/Beta	Gross Alpha	5.63E-15	6.26E-15	9.32E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257518	GUNTHER SALT	05/31/22	Gross Alpha/Beta	Gross Beta	3.13E-14	1.50E-14	2.10E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257519	GUNTHER SALT	06/01/22	Gross Alpha/Beta	Gross Alpha	6.71E-15	7.45E-15	1.11E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257519	GUNTHER SALT	06/01/22	Gross Alpha/Beta	Gross Beta	2.61E-14	1.67E-14	2.50E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257520	GUNTHER SALT	06/02/22	Gross Alpha/Beta	Gross Alpha	2.82E-15	5.70E-15	1.04E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257520	GUNTHER SALT	06/02/22	Gross Alpha/Beta	Gross Beta	7.45E-15	1.38E-14	2.33E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257521	GUNTHER SALT	06/06/22	Gross Alpha/Beta	Gross Alpha	5.91E-15	6.56E-15	9.77E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257521	GUNTHER SALT	06/06/22	Gross Alpha/Beta	Gross Beta	5.30E-14	1.77E-14	2.20E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257522	GUNTHER SALT	06/07/22	Gross Alpha/Beta	Gross Alpha	1.13E-14	8.19E-15	9.77E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257522	GUNTHER SALT	06/07/22	Gross Alpha/Beta	Gross Beta	2.09E-14	1.45E-14	2.20E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257523	GUNTHER SALT	06/08/22	Gross Alpha/Beta	Gross Alpha	-1.04E-14	8.81E-15	3.70E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257523	GUNTHER SALT	06/08/22	Gross Alpha/Beta	Gross Beta	3.45E-14	5.01E-14	8.32E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257524	GUNTHER SALT	06/09/22	Gross Alpha/Beta	Gross Alpha	6.93E-15	6.86E-15	9.68E-15	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257524	GUNTHER SALT	06/09/22	Gross Alpha/Beta	Gross Beta	2.01E-14	1.43E-14	2.18E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257525	GUNTHER SALT	06/13/22	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.05E-15	9.60E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257525	GUNTHER SALT	06/13/22	Gross Alpha/Beta	Gross Beta	3.15E-14	1.54E-14	2.16E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257526	GUNTHER SALT	06/14/22	Gross Alpha/Beta	Gross Alpha	1.78E-14	9.81E-15	9.77E-15	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257526	GUNTHER SALT	06/14/22	Gross Alpha/Beta	Gross Beta	3.14E-14	1.56E-14	2.20E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257555	GUNTHER SALT	06/27/22	Gross Alpha/Beta	Gross Alpha	1.27E-14	1.53E-14	2.30E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257555	GUNTHER SALT	06/27/22	Gross Alpha/Beta	Gross Beta	4.63E-14	3.65E-14	5.65E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257556	GUNTHER SALT	06/28/22	Gross Alpha/Beta	Gross Alpha	2.60E-15	4.79E-15	8.53E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257556	GUNTHER SALT	06/28/22	Gross Alpha/Beta	Gross Beta	2.60E-14	1.45E-14	2.10E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257583	GUNTHER SALT	08/03/22	Gross Alpha/Beta	Gross Alpha	-6.64E-16	3.85E-15	1.07E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257583	GUNTHER SALT	08/03/22	Gross Alpha/Beta	Gross Beta	8.67E-15	1.69E-14	2.86E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD257584	GUNTHER SALT	08/04/22	Gross Alpha/Beta	Gross Alpha	-3.49E-15	9.40E-16	1.12E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257584	GUNTHER SALT	08/04/22	Gross Alpha/Beta	Gross Beta	-9.75E-15	1.56E-14	3.01E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257585	GUNTHER SALT	08/08/22	Gross Alpha/Beta	Gross Alpha	6.23E-16	4.39E-15	9.99E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257585	GUNTHER SALT	08/08/22	Gross Alpha/Beta	Gross Beta	1.57E-14	1.66E-14	2.68E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257586	GUNTHER SALT	08/09/22	Gross Alpha/Beta	Gross Alpha	-1.68E-15	2.36E-15	8.97E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257586	GUNTHER SALT	08/09/22	Gross Alpha/Beta	Gross Beta	-2.52E-15	1.31E-14	2.41E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257587	GUNTHER SALT	08/11/22	Gross Alpha/Beta	Gross Alpha	-5.26E-15	1.41E-15	1.69E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257587	GUNTHER SALT	08/11/22	Gross Alpha/Beta	Gross Beta	8.05E-15	2.61E-14	4.52E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257588	GUNTHER SALT	08/16/22	Gross Alpha/Beta	Gross Alpha	2.28E-15	6.16E-15	1.22E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257588	GUNTHER SALT	08/16/22	Gross Alpha/Beta	Gross Beta	8.90E-15	1.92E-14	3.27E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257589	GUNTHER SALT	08/17/22	Gross Alpha/Beta	Gross Alpha	1.83E-15	1.29E-14	2.94E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257589	GUNTHER SALT	08/17/22	Gross Alpha/Beta	Gross Beta	3.63E-14	4.78E-14	7.88E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257590	GUNTHER SALT	08/18/22	Gross Alpha/Beta	Gross Alpha	4.48E-15	1.21E-14	2.39E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257590	GUNTHER SALT	08/18/22	Gross Alpha/Beta	Gross Beta	3.56E-14	3.96E-14	6.42E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257591	GUNTHER SALT	08/23/22	Gross Alpha/Beta	Gross Alpha	6.78E-15	7.04E-15	9.88E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257591	GUNTHER SALT	08/23/22	Gross Alpha/Beta	Gross Beta	3.64E-14	1.86E-14	2.65E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257592	GUNTHER SALT	08/24/22	Gross Alpha/Beta	Gross Alpha	2.89E-15	5.23E-15	9.27E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257592	GUNTHER SALT	08/24/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.74E-14	2.49E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257602	GUNTHER SALT	08/30/22	Gross Alpha/Beta	Gross Alpha	-1.68E-14	1.22E-14	4.45E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257602	GUNTHER SALT	08/30/22	Gross Alpha/Beta	Gross Beta	4.17E-14	5.01E-14	8.18E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257603	GUNTHER SALT	08/31/22	Gross Alpha/Beta	Gross Alpha	-1.30E-15	5.10E-15	1.23E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257603	GUNTHER SALT	08/31/22	Gross Alpha/Beta	Gross Beta	1.22E-14	1.39E-14	2.26E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257604	GUNTHER SALT	09/14/22	Gross Alpha/Beta	Gross Alpha	-1.81E-14	2.07E-14	6.31E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257604	GUNTHER SALT	09/14/22	Gross Alpha/Beta	Gross Beta	4.44E-14	6.95E-14	1.16E-13	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257605	GUNTHER SALT	09/15/22	Gross Alpha/Beta	Gross Alpha	2.16E-15	6.76E-15	1.30E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257605	GUNTHER SALT	09/15/22	Gross Alpha/Beta	Gross Beta	1.37E-14	1.48E-14	2.39E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257606	GUNTHER SALT	09/19/22	Gross Alpha/Beta	Gross Alpha	-1.43E-15	5.63E-15	1.36E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257606	GUNTHER SALT	09/19/22	Gross Alpha/Beta	Gross Beta	3.48E-14	1.76E-14	2.50E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257607	GUNTHER SALT	09/20/22	Gross Alpha/Beta	Gross Alpha	4.90E-15	5.87E-15	8.86E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257607	GUNTHER SALT	09/20/22	Gross Alpha/Beta	Gross Beta	2.08E-14	1.56E-14	2.40E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257608	GUNTHER SALT	09/21/22	Gross Alpha/Beta	Gross Alpha	5.25E-16	4.04E-15	9.23E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257608	GUNTHER SALT	09/21/22	Gross Alpha/Beta	Gross Beta	1.31E-14	1.54E-14	2.51E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257609	GUNTHER SALT	09/22/22	Gross Alpha/Beta	Gross Alpha	-3.68E-15	9.82E-16	1.17E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257609	GUNTHER SALT	09/22/22	Gross Alpha/Beta	Gross Beta	-4.10E-17	1.76E-14	3.17E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257610	GUNTHER SALT	09/26/22	Gross Alpha/Beta	Gross Alpha	-6.75E-16	3.62E-15	1.00E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257610	GUNTHER SALT	09/26/22	Gross Alpha/Beta	Gross Beta	1.85E-14	1.72E-14	2.72E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257615	GUNTHER SALT	10/04/22	Gross Alpha/Beta	Gross Alpha	3.93E-15	6.15E-15	1.04E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257615	GUNTHER SALT	10/04/22	Gross Alpha/Beta	Gross Beta	1.18E-14	1.50E-14	2.46E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257616	GUNTHER SALT	10/06/22	Gross Alpha/Beta	Gross Alpha	6.35E-15	7.02E-15	1.03E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257616	GUNTHER SALT	10/06/22	Gross Alpha/Beta	Gross Beta	2.35E-14	1.61E-14	2.44E-14	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257617	GUNTHER SALT	10/11/22	Gross Alpha/Beta	Gross Alpha	6.02E-15	6.65E-15	9.73E-15	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257617	GUNTHER SALT	10/11/22	Gross Alpha/Beta	Gross Beta	6.27E-14	1.94E-14	2.31E-14	µCi/mL	=		Gunther Salt (General Area)-Perimeter Air
SLD257618	GUNTHER SALT	10/12/22	Gross Alpha/Beta	Gross Alpha	1.30E-14	1.43E-14	2.10E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257618	GUNTHER SALT	10/12/22	Gross Alpha/Beta	Gross Beta	6.25E-14	3.45E-14	4.98E-14	µCi/mL	J	T04, T20	Gunther Salt (General Area)-Perimeter Air
SLD257619	GUNTHER SALT	10/17/22	Gross Alpha/Beta	Gross Alpha	9.99E-16	2.12E-14	5.01E-14	µCi/mL	UJ	T06	Gunther Salt (General Area)-Perimeter Air
SLD257619	GUNTHER SALT	10/17/22	Gross Alpha/Beta	Gross Beta	9.54E-14	7.66E-14	1.19E-13	µCi/mL	UJ	T04, T05	Gunther Salt (General Area)-Perimeter Air
SLD257527	MSD NORTH	05/19/22	Gross Alpha/Beta	Gross Alpha	1.28E-14	1.49E-14	2.08E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD257527	MSD NORTH	05/19/22	Gross Alpha/Beta	Gross Beta	4.36E-14	4.24E-14	6.75E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257528	MSD NORTH	05/23/22	Gross Alpha/Beta	Gross Alpha	8.89E-15	1.66E-14	2.97E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257528	MSD NORTH	05/23/22	Gross Alpha/Beta	Gross Beta	5.60E-14	5.99E-14	9.66E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257529	MSD NORTH	05/25/22	Gross Alpha/Beta	Gross Alpha	6.98E-15	1.30E-14	2.33E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257529	MSD NORTH	05/25/22	Gross Alpha/Beta	Gross Beta	-1.65E-14	3.99E-14	7.58E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257530	MSD NORTH	05/26/22	Gross Alpha/Beta	Gross Alpha	4.43E-15	6.21E-15	9.66E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257530	MSD NORTH	05/26/22	Gross Alpha/Beta	Gross Beta	1.51E-14	1.91E-14	3.14E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257531	MSD NORTH	05/31/22	Gross Alpha/Beta	Gross Alpha	5.97E-15	1.11E-14	2.00E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257531	MSD NORTH	05/31/22	Gross Alpha/Beta	Gross Beta	5.70E-14	4.24E-14	6.48E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257532	MSD NORTH	06/01/22	Gross Alpha/Beta	Gross Alpha	8.37E-15	9.73E-15	1.35E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257532	MSD NORTH	06/01/22	Gross Alpha/Beta	Gross Beta	3.59E-15	2.48E-14	4.40E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257533	MSD NORTH	06/02/22	Gross Alpha/Beta	Gross Alpha	2.30E-15	7.53E-15	1.65E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257533	MSD NORTH	06/02/22	Gross Alpha/Beta	Gross Beta	1.86E-14	3.18E-14	5.35E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257534	MSD NORTH	06/07/22	Gross Alpha/Beta	Gross Alpha	8.44E-15	7.00E-15	7.70E-15	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257534	MSD NORTH	06/07/22	Gross Alpha/Beta	Gross Beta	2.03E-14	1.62E-14	2.50E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257535	MSD NORTH	06/08/22	Gross Alpha/Beta	Gross Alpha	3.48E-15	4.87E-15	7.58E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257535	MSD NORTH	06/08/22	Gross Alpha/Beta	Gross Beta	-2.08E-15	1.34E-14	2.46E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257536	MSD NORTH	06/09/22	Gross Alpha/Beta	Gross Alpha	3.91E-15	5.48E-15	8.52E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257536	MSD NORTH	06/09/22	Gross Alpha/Beta	Gross Beta	2.52E-14	1.82E-14	2.77E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257537	MSD NORTH	06/13/22	Gross Alpha/Beta	Gross Alpha	1.73E-14	1.76E-14	2.23E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257537	MSD NORTH	06/13/22	Gross Alpha/Beta	Gross Beta	3.72E-14	4.44E-14	7.24E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257538	MSD NORTH	06/14/22	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.60E-15	7.12E-15	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257538	MSD NORTH	06/14/22	Gross Alpha/Beta	Gross Beta	4.72E-14	1.79E-14	2.31E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257539	MSD NORTH	06/15/22	Gross Alpha/Beta	Gross Alpha	6.16E-15	8.63E-15	1.34E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257539	MSD NORTH	06/15/22	Gross Alpha/Beta	Gross Beta	5.71E-14	3.05E-14	4.36E-14	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257540	MSD NORTH	06/16/22	Gross Alpha/Beta	Gross Alpha	5.81E-15	5.88E-15	7.47E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257540	MSD NORTH	06/16/22	Gross Alpha/Beta	Gross Beta	2.78E-14	1.66E-14	2.43E-14	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257541	MSD NORTH	06/20/22	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.14E-15	7.43E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257541	MSD NORTH	06/20/22	Gross Alpha/Beta	Gross Beta	3.57E-14	1.73E-14	2.41E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257542	MSD NORTH	06/28/22	Gross Alpha/Beta	Gross Alpha	2.05E-14	2.87E-14	4.46E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257542	MSD NORTH	06/28/22	Gross Alpha/Beta	Gross Beta	7.92E-14	8.93E-14	1.45E-13	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257543	MSD NORTH	06/29/22	Gross Alpha/Beta	Gross Alpha	4.60E-15	3.43E-15	4.39E-15	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257543	MSD NORTH	06/29/22	Gross Alpha/Beta	Gross Beta	3.31E-14	1.06E-14	1.43E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257544	MSD NORTH	06/30/22	Gross Alpha/Beta	Gross Alpha	8.22E-15	9.56E-15	1.33E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257544	MSD NORTH	06/30/22	Gross Alpha/Beta	Gross Beta	2.94E-14	2.73E-14	4.32E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257560	MSD NORTH	07/05/22	Gross Alpha/Beta	Gross Alpha	7.51E-15	2.44E-14	5.10E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257560	MSD NORTH	07/05/22	Gross Alpha/Beta	Gross Beta	7.76E-15	6.15E-14	1.12E-13	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257561	MSD NORTH	07/11/22	Gross Alpha/Beta	Gross Alpha	1.13E-16	3.91E-15	9.98E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257561	MSD NORTH	07/11/22	Gross Alpha/Beta	Gross Beta	3.44E-14	1.64E-14	2.18E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257562	MSD NORTH	07/12/22	Gross Alpha/Beta	Gross Alpha	-1.53E-15	3.46E-15	1.22E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257562	MSD NORTH	07/12/22	Gross Alpha/Beta	Gross Beta	9.49E-15	1.59E-14	2.68E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257563	MSD NORTH	07/13/22	Gross Alpha/Beta	Gross Alpha	1.08E-14	2.10E-14	3.83E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257563	MSD NORTH	07/13/22	Gross Alpha/Beta	Gross Beta	9.23E-15	4.66E-14	8.36E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257564	MSD NORTH	07/14/22	Gross Alpha/Beta	Gross Alpha	1.17E-14	1.10E-14	1.41E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257564	MSD NORTH	07/14/22	Gross Alpha/Beta	Gross Beta	1.60E-14	1.90E-14	3.09E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257565	MSD NORTH	07/18/22	Gross Alpha/Beta	Gross Alpha	5.66E-15	6.85E-15	1.02E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257565	MSD NORTH	07/18/22	Gross Alpha/Beta	Gross Beta	3.97E-14	1.73E-14	2.23E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD257566	MSD NORTH	07/19/22	Gross Alpha/Beta	Gross Alpha	8.39E-15	1.63E-14	2.96E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257566	MSD NORTH	07/19/22	Gross Alpha/Beta	Gross Beta	3.62E-14	4.02E-14	6.47E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257567	MSD NORTH	07/20/22	Gross Alpha/Beta	Gross Alpha	5.72E-15	6.00E-15	8.27E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257567	MSD NORTH	07/20/22	Gross Alpha/Beta	Gross Beta	3.59E-14	1.45E-14	1.81E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257568	MSD NORTH	07/21/22	Gross Alpha/Beta	Gross Alpha	9.26E-15	7.31E-15	8.42E-15	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257568	MSD NORTH	07/21/22	Gross Alpha/Beta	Gross Beta	1.70E-14	1.23E-14	1.84E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257569	MSD NORTH	07/25/22	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.70E-15	9.23E-15	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257569	MSD NORTH	07/25/22	Gross Alpha/Beta	Gross Beta	1.54E-14	1.31E-14	2.02E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257570	MSD NORTH	07/28/22	Gross Alpha/Beta	Gross Alpha	9.02E-15	1.09E-14	1.63E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257570	MSD NORTH	07/28/22	Gross Alpha/Beta	Gross Beta	1.26E-14	2.11E-14	3.55E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257571	MSD NORTH	08/01/22	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.19E-15	1.01E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257571	MSD NORTH	08/01/22	Gross Alpha/Beta	Gross Beta	2.31E-14	1.51E-14	2.21E-14	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257572	MSD NORTH	08/02/22	Gross Alpha/Beta	Gross Alpha	1.53E-14	1.61E-14	2.21E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257572	MSD NORTH	08/02/22	Gross Alpha/Beta	Gross Beta	1.32E-14	2.81E-14	4.84E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257573	MSD NORTH	08/04/22	Gross Alpha/Beta	Gross Alpha	6.06E-15	8.88E-15	1.45E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257573	MSD NORTH	08/04/22	Gross Alpha/Beta	Gross Beta	1.51E-14	1.93E-14	3.16E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257593	MSD NORTH	08/25/22	Gross Alpha/Beta	Gross Alpha	1.29E-14	1.80E-14	2.95E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257593	MSD NORTH	08/25/22	Gross Alpha/Beta	Gross Beta	2.76E-14	3.32E-14	5.42E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257594	MSD NORTH	08/29/22	Gross Alpha/Beta	Gross Alpha	-2.35E-16	7.06E-15	1.56E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257594	MSD NORTH	08/29/22	Gross Alpha/Beta	Gross Beta	2.46E-14	1.86E-14	2.87E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257595	MSD NORTH	08/30/22	Gross Alpha/Beta	Gross Alpha	-3.98E-15	1.57E-14	3.77E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257595	MSD NORTH	08/30/22	Gross Alpha/Beta	Gross Beta	2.38E-15	3.88E-14	6.93E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257596	MSD NORTH	08/31/22	Gross Alpha/Beta	Gross Alpha	7.73E-15	1.66E-14	3.02E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257596	MSD NORTH	08/31/22	Gross Alpha/Beta	Gross Beta	2.82E-14	3.40E-14	5.54E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257597	MSD NORTH	09/06/22	Gross Alpha/Beta	Gross Alpha	1.05E-14	1.75E-14	3.02E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257597	MSD NORTH	09/06/22	Gross Alpha/Beta	Gross Beta	3.53E-14	3.47E-14	5.54E-14	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257598	MSD NORTH	09/07/22	Gross Alpha/Beta	Gross Alpha	2.59E-15	8.12E-15	1.56E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257598	MSD NORTH	09/07/22	Gross Alpha/Beta	Gross Beta	5.46E-14	2.17E-14	2.87E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257599	MSD NORTH	09/08/22	Gross Alpha/Beta	Gross Alpha	2.65E-15	8.31E-15	1.60E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257599	MSD NORTH	09/08/22	Gross Alpha/Beta	Gross Beta	5.03E-14	2.16E-14	2.94E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257600	MSD NORTH	09/12/22	Gross Alpha/Beta	Gross Alpha	1.13E-15	7.27E-15	1.49E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257600	MSD NORTH	09/12/22	Gross Alpha/Beta	Gross Beta	4.96E-14	2.05E-14	2.74E-14	µCi/mL	=		MSD North (General Area)-Perimeter Air
SLD257601	MSD NORTH	09/15/22	Gross Alpha/Beta	Gross Alpha	-3.50E-15	1.37E-14	3.31E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257601	MSD NORTH	09/15/22	Gross Alpha/Beta	Gross Beta	1.94E-14	3.60E-14	6.09E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257611	MSD NORTH	09/14/22	Gross Alpha/Beta	Gross Alpha	7.43E-15	6.97E-15	9.28E-15	µCi/mL	UJ	T04, T05	MSD North (General Area)-Perimeter Air
SLD257611	MSD NORTH	09/14/22	Gross Alpha/Beta	Gross Beta	3.11E-14	1.73E-14	2.52E-14	µCi/mL	J	T04, T20	MSD North (General Area)-Perimeter Air
SLD257612	MSD NORTH	09/29/22	Gross Alpha/Beta	Gross Alpha	-1.95E-15	1.05E-14	2.91E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD257612	MSD NORTH	09/29/22	Gross Alpha/Beta	Gross Beta	-1.72E-14	4.20E-14	7.89E-14	µCi/mL	UJ	T06	MSD North (General Area)-Perimeter Air
SLD247944	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Alpha	1.72E-14	9.03E-15	7.82E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247944	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Beta	8.85E-14	1.92E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247945	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Alpha	1.42E-14	8.65E-15	8.45E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247945	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Beta	1.09E-13	2.20E-14	1.85E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247946	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Alpha	1.47E-14	8.97E-15	8.76E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247946	P6WH LOADOUT	01/04/22	Gross Alpha/Beta	Gross Beta	1.20E-13	2.35E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247947	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Alpha	9.94E-15	7.53E-15	8.60E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247947	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Beta	8.55E-14	2.00E-14	1.89E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247948	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.67E-15	8.76E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD247948	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Beta	1.13E-13	2.29E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247949	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Alpha	1.11E-14	7.45E-15	7.82E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247949	P6WH LOADOUT	01/05/22	Gross Alpha/Beta	Gross Beta	9.19E-14	1.96E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247950	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Alpha	-1.80E-16	3.13E-15	8.27E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247950	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Beta	1.83E-14	1.23E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247951	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Alpha	9.46E-16	3.99E-15	8.68E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247951	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Beta	3.26E-14	1.45E-14	1.90E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247952	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Alpha	5.54E-15	6.12E-15	8.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247952	P6WH LOADOUT	01/06/22	Gross Alpha/Beta	Gross Beta	2.92E-14	1.42E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247953	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Alpha	4.07E-15	5.25E-15	8.13E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247953	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Beta	4.31E-14	1.50E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247954	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Alpha	9.98E-15	7.56E-15	8.64E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247954	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Beta	4.21E-14	1.55E-14	1.90E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247955	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Alpha	3.78E-15	4.98E-15	7.66E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247955	P6WH LOADOUT	01/10/22	Gross Alpha/Beta	Gross Beta	9.28E-15	1.06E-14	1.70E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247956	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Alpha	3.91E-15	5.17E-15	7.94E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247956	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Beta	6.68E-14	1.78E-14	1.77E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247957	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Alpha	9.47E-15	7.17E-15	7.80E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247957	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Beta	6.41E-14	1.73E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247958	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Alpha	5.75E-15	5.66E-15	7.36E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247958	P6WH LOADOUT	01/11/22	Gross Alpha/Beta	Gross Beta	6.13E-14	1.64E-14	1.64E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247959	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Alpha	2.43E-15	4.06E-15	6.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247959	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Beta	3.16E-14	1.26E-14	1.55E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247960	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.52E-15	7.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247960	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Beta	4.69E-14	1.54E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247961	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Alpha	6.18E-15	6.08E-15	7.90E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247961	P6WH LOADOUT	01/12/22	Gross Alpha/Beta	Gross Beta	4.40E-14	1.52E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247962	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Alpha	7.62E-15	6.21E-15	7.12E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247962	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Beta	4.64E-14	1.45E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247963	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Alpha	2.73E-15	4.56E-15	7.83E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247963	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Beta	6.44E-14	1.74E-14	1.74E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247964	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Alpha	5.11E-15	5.71E-15	8.01E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247964	P6WH LOADOUT	01/13/22	Gross Alpha/Beta	Gross Beta	5.60E-14	1.67E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247965	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Alpha	3.45E-15	4.56E-15	7.00E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247965	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Beta	2.11E-14	1.14E-14	1.56E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247966	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Alpha	1.54E-15	3.80E-15	7.52E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247966	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Beta	2.27E-14	1.22E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247967	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Alpha	3.81E-15	5.03E-15	7.73E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247967	P6WH LOADOUT	01/18/22	Gross Alpha/Beta	Gross Beta	1.30E-14	1.12E-14	1.72E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247968	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Alpha	8.40E-15	6.37E-15	6.92E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247968	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Beta	3.20E-14	1.26E-14	1.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247969	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Alpha	4.52E-16	3.12E-15	7.52E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247969	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Beta	2.77E-14	1.28E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247970	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Alpha	3.78E-15	4.98E-15	7.66E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247970	P6WH LOADOUT	01/19/22	Gross Alpha/Beta	Gross Beta	3.11E-14	1.34E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247971	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Alpha	4.75E-16	3.28E-15	7.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247971	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Beta	5.00E-14	1.59E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD247972	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Alpha	8.19E-15	6.68E-15	7.66E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247972	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Beta	3.98E-14	1.44E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247973	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Alpha	5.80E-15	5.71E-15	7.43E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247973	P6WH LOADOUT	01/20/22	Gross Alpha/Beta	Gross Beta	3.50E-14	1.36E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247974	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Alpha	6.07E-15	5.97E-15	7.76E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247974	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Beta	3.22E-14	1.37E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247975	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Alpha	8.95E-15	6.96E-15	7.85E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247975	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Beta	2.18E-14	1.21E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247976	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Alpha	6.35E-15	5.84E-15	7.37E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247976	P6WH LOADOUT	01/24/22	Gross Alpha/Beta	Gross Beta	3.25E-14	1.29E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247977	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Alpha	1.16E-14	7.51E-15	7.43E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247977	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Beta	2.60E-14	1.21E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247978	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Alpha	4.76E-15	5.58E-15	8.14E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247978	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Beta	2.78E-14	1.32E-14	1.74E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247979	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Alpha	6.02E-15	6.17E-15	8.32E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247979	P6WH LOADOUT	01/25/22	Gross Alpha/Beta	Gross Beta	2.84E-14	1.35E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247980	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Alpha	6.25E-15	5.74E-15	7.25E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247980	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Beta	3.46E-14	1.30E-14	1.55E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247981	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Alpha	6.63E-15	6.09E-15	7.68E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247981	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Beta	4.23E-14	1.44E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247982	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Alpha	7.05E-15	6.47E-15	8.17E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247982	P6WH LOADOUT	01/26/22	Gross Alpha/Beta	Gross Beta	3.31E-14	1.39E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247983	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Alpha	8.44E-15	6.55E-15	7.40E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247983	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.30E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247984	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Alpha	1.46E-14	8.65E-15	7.96E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247984	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Beta	2.86E-14	1.31E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247985	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Alpha	7.89E-15	6.63E-15	7.89E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247985	P6WH LOADOUT	01/27/22	Gross Alpha/Beta	Gross Beta	4.41E-14	1.48E-14	1.69E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247986	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Alpha	1.19E-14	7.35E-15	7.00E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247986	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Beta	6.65E-14	1.61E-14	1.50E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247987	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Alpha	6.68E-15	6.14E-15	7.75E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247987	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Beta	6.24E-14	1.67E-14	1.66E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247988	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Alpha	1.81E-14	9.31E-15	7.59E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247988	P6WH LOADOUT	01/31/22	Gross Alpha/Beta	Gross Beta	7.21E-14	1.75E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247989	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Alpha	8.11E-15	6.80E-15	8.10E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247989	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Beta	3.65E-14	1.42E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247990	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Alpha	9.49E-15	7.37E-15	8.32E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247990	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Beta	3.60E-14	1.44E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247991	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Alpha	9.66E-15	7.02E-15	7.56E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247991	P6WH LOADOUT	02/01/22	Gross Alpha/Beta	Gross Beta	3.88E-14	1.38E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247992	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Alpha	1.32E-14	7.82E-15	7.19E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247992	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Beta	5.46E-14	1.51E-14	1.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247993	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Alpha	1.09E-14	7.43E-15	7.65E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247993	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Beta	8.52E-14	1.89E-14	1.64E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247994	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Alpha	9.03E-15	7.02E-15	7.92E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247994	P6WH LOADOUT	02/07/22	Gross Alpha/Beta	Gross Beta	7.67E-14	1.84E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247995	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Alpha	2.69E-15	5.03E-15	9.01E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD247995	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Beta	3.45E-14	1.58E-14	2.17E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247996	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.31E-15	8.69E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247996	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Beta	3.54E-14	1.55E-14	2.09E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247997	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Alpha	4.08E-16	3.45E-15	7.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247997	P6WH LOADOUT	02/08/22	Gross Alpha/Beta	Gross Beta	3.86E-14	1.48E-14	1.91E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247998	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Alpha	5.74E-15	6.05E-15	8.58E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247998	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Beta	3.22E-14	1.50E-14	2.07E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247999	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Alpha	8.95E-15	7.12E-15	8.62E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD247999	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Beta	1.53E-14	1.32E-14	2.08E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248000	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Alpha	4.39E-15	5.31E-15	8.06E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248000	P6WH LOADOUT	02/09/22	Gross Alpha/Beta	Gross Beta	3.79E-14	1.49E-14	1.94E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248001	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Alpha	7.20E-15	6.79E-15	9.09E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248001	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Beta	2.19E-14	1.46E-14	2.19E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248002	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.39E-15	8.77E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248002	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Beta	9.25E-15	1.28E-14	2.11E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248003	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Alpha	1.43E-15	4.10E-15	8.19E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248003	P6WH LOADOUT	02/10/22	Gross Alpha/Beta	Gross Beta	1.71E-14	1.29E-14	1.97E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248004	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.02E-15	8.06E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248004	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Beta	2.77E-14	1.38E-14	1.94E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248005	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Alpha	3.73E-15	5.40E-15	8.85E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248005	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Beta	2.34E-14	1.44E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248006	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Alpha	8.32E-15	7.16E-15	9.09E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248006	P6WH LOADOUT	02/14/22	Gross Alpha/Beta	Gross Beta	4.71E-14	1.72E-14	2.19E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248007	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Alpha	-6.23E-16	3.10E-15	8.66E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248007	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Beta	3.46E-14	1.53E-14	2.08E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248008	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Alpha	4.80E-15	5.81E-15	8.81E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248008	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Beta	3.31E-14	1.54E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248009	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.92E-15	8.06E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD248009	P6WH LOADOUT	02/15/22	Gross Alpha/Beta	Gross Beta	2.90E-14	1.40E-14	1.94E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255500	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Alpha	1.44E-15	4.13E-15	8.26E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255500	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Beta	1.86E-14	1.31E-14	1.99E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255501	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.51E-15	9.01E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255501	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Beta	2.95E-14	1.53E-14	2.17E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255502	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.22E-15	9.35E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255502	P6WH LOADOUT	02/16/22	Gross Alpha/Beta	Gross Beta	3.21E-14	1.60E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255503	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Alpha	6.36E-15	6.00E-15	8.03E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255503	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Beta	3.14E-14	1.42E-14	1.93E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255504	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Alpha	1.66E-14	9.26E-15	8.73E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255504	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Beta	6.54E-14	1.85E-14	2.10E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255505	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Alpha	2.02E-15	5.60E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255505	P6WH LOADOUT	02/22/22	Gross Alpha/Beta	Gross Beta	1.02E-14	1.35E-14	2.22E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255506	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Alpha	1.32E-14	9.08E-15	1.08E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255506	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Beta	5.49E-14	1.80E-14	2.21E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255507	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Alpha	1.95E-15	5.41E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255507	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Beta	4.97E-14	1.71E-14	2.14E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255508	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Alpha	7.87E-16	4.53E-15	9.54E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255508	P6WH LOADOUT	02/23/22	Gross Alpha/Beta	Gross Beta	5.64E-14	1.67E-14	1.96E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255509	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	4.85E-15	8.92E-16	3.44E-16	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255509	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	2.28E-14	2.34E-15	1.15E-15	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255510	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	4.44E-15	8.64E-16	3.59E-16	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255510	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	2.32E-14	2.39E-15	1.20E-15	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255511	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	4.20E-15	8.04E-16	3.27E-16	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255511	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	2.21E-14	2.25E-15	1.09E-15	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255512	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	6.53E-15	7.21E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255512	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	6.60E-14	1.92E-14	2.22E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255513	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	7.55E-15	7.45E-15	1.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255513	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	6.44E-14	1.88E-14	2.19E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255514	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Alpha	6.92E-15	6.84E-15	9.78E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255514	P6WH LOADOUT	02/28/22	Gross Alpha/Beta	Gross Beta	6.83E-14	1.81E-14	2.01E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255515	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Alpha	3.13E-15	6.02E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255515	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Beta	7.29E-14	1.98E-14	2.21E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255516	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Alpha	9.04E-15	7.49E-15	9.86E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255516	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Beta	6.16E-14	1.76E-14	2.02E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255517	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Alpha	1.36E-14	9.34E-15	1.11E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255517	P6WH LOADOUT	03/01/22	Gross Alpha/Beta	Gross Beta	5.94E-14	1.88E-14	2.27E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255518	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Alpha	6.65E-15	7.34E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255518	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Beta	6.65E-14	1.95E-14	2.26E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255519	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Alpha	7.38E-15	7.29E-15	1.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255519	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Beta	6.65E-14	1.88E-14	2.14E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255520	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Alpha	9.74E-15	7.53E-15	9.54E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255520	P6WH LOADOUT	03/02/22	Gross Alpha/Beta	Gross Beta	5.83E-14	1.69E-14	1.96E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255521	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Alpha	4.39E-15	6.64E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255521	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Beta	4.70E-14	1.77E-14	2.28E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255522	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Alpha	5.30E-15	6.72E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255522	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Beta	6.70E-14	1.90E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255523	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Alpha	9.98E-15	7.71E-15	9.78E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255523	P6WH LOADOUT	03/03/22	Gross Alpha/Beta	Gross Beta	4.27E-14	1.57E-14	2.01E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255524	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Alpha	1.55E-14	8.87E-15	9.39E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255524	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Beta	4.66E-14	1.56E-14	1.93E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255525	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Alpha	-1.40E-15	2.98E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255525	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Beta	8.04E-15	9.99E-15	1.63E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255526	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Alpha	-1.37E-15	2.93E-15	8.86E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255526	P6WH LOADOUT	03/07/22	Gross Alpha/Beta	Gross Beta	-9.13E-15	7.17E-15	1.60E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255527	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Alpha	4.41E-15	5.45E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255527	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Beta	1.69E-14	1.06E-14	1.53E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255528	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Alpha	6.37E-16	4.15E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255528	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Beta	2.81E-14	1.25E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255529	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Alpha	3.59E-15	5.30E-15	8.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255529	P6WH LOADOUT	03/08/22	Gross Alpha/Beta	Gross Beta	2.21E-14	1.16E-14	1.59E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255530	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Alpha	2.91E-15	5.51E-15	9.85E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255530	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Beta	2.84E-14	1.34E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255531	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Alpha	6.05E-15	6.52E-15	9.55E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255531	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Beta	1.27E-14	1.11E-14	1.72E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255532	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.18E-15	8.97E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255532	P6WH LOADOUT	03/09/22	Gross Alpha/Beta	Gross Beta	2.19E-14	1.17E-14	1.62E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255533	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.27E-15	1.01E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255533	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Beta	4.31E-14	1.54E-14	1.82E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255534	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.02E-15	9.76E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255534	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Beta	4.47E-14	1.52E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255535	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Alpha	3.76E-15	5.55E-15	9.20E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255535	P6WH LOADOUT	03/10/22	Gross Alpha/Beta	Gross Beta	4.62E-14	1.48E-14	1.66E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255536	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Alpha	-4.14E-16	3.92E-15	9.81E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255536	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Beta	2.25E-14	1.26E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255537	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Alpha	7.06E-16	4.60E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255537	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Beta	2.74E-14	1.35E-14	1.81E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255538	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Alpha	1.66E-15	4.62E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255538	P6WH LOADOUT	03/14/22	Gross Alpha/Beta	Gross Beta	2.47E-14	1.21E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255539	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Alpha	7.71E-15	6.77E-15	8.97E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255539	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Beta	1.46E-14	1.08E-14	1.62E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255540	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Alpha	7.45E-15	7.19E-15	9.98E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255540	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Beta	2.51E-14	1.31E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255541	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Alpha	2.90E-15	5.48E-15	9.81E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255541	P6WH LOADOUT	03/15/22	Gross Alpha/Beta	Gross Beta	2.03E-14	1.24E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255542	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Alpha	3.89E-15	5.74E-15	9.51E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255542	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Beta	7.05E-15	1.03E-14	1.72E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255543	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Alpha	6.37E-16	4.15E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255543	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Beta	1.47E-14	1.09E-14	1.63E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255544	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Alpha	7.00E-16	4.56E-15	9.94E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255544	P6WH LOADOUT	03/16/22	Gross Alpha/Beta	Gross Beta	1.47E-14	1.18E-14	1.79E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255545	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Alpha	5.23E-15	5.48E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255545	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Beta	2.18E-14	1.51E-14	2.28E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255546	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Alpha	6.14E-15	5.73E-15	7.01E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255546	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Beta	3.49E-14	1.61E-14	2.21E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255547	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Alpha	4.59E-15	4.81E-15	6.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255547	P6WH LOADOUT	03/17/22	Gross Alpha/Beta	Gross Beta	1.32E-14	1.26E-14	2.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255548	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Alpha	1.83E-15	3.74E-15	6.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255548	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Beta	2.46E-14	1.49E-14	2.20E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255549	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Alpha	6.88E-15	5.84E-15	6.69E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255549	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Beta	4.92E-14	1.69E-14	2.11E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255550	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Alpha	4.57E-15	4.79E-15	6.34E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255550	P6WH LOADOUT	03/21/22	Gross Alpha/Beta	Gross Beta	2.10E-14	1.34E-14	2.00E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255551	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Alpha	6.85E-15	5.82E-15	6.66E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255551	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Beta	1.73E-14	1.36E-14	2.10E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255552	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Alpha	2.94E-15	4.37E-15	7.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255552	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Beta	2.86E-14	1.55E-14	2.23E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255553	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Alpha	3.05E-15	4.54E-15	7.34E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255553	P6WH LOADOUT	03/22/22	Gross Alpha/Beta	Gross Beta	2.28E-14	1.54E-14	2.31E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255554	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Alpha	4.85E-15	5.08E-15	6.71E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255554	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Beta	-3.48E-15	1.13E-14	2.12E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255555	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Alpha	1.83E-15	3.74E-15	6.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255555	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Beta	1.16E-14	1.35E-14	2.20E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255556	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Alpha	7.65E-16	3.10E-15	7.04E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255556	P6WH LOADOUT	03/23/22	Gross Alpha/Beta	Gross Beta	-8.03E-15	1.13E-14	2.22E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255557	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Alpha	2.74E-15	4.08E-15	6.60E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255557	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Beta	3.42E-15	1.19E-14	2.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255558	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Alpha	-3.14E-16	2.21E-15	7.01E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255558	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Beta	7.27E-15	1.31E-14	2.21E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255559	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Alpha	3.95E-15	4.80E-15	6.95E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255559	P6WH LOADOUT	03/24/22	Gross Alpha/Beta	Gross Beta	2.16E-15	1.24E-14	2.19E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255560	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Alpha	1.69E-15	3.47E-15	6.47E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255560	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Beta	1.95E-14	1.35E-14	2.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255561	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Alpha	3.83E-15	4.66E-15	6.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255561	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Beta	2.38E-14	1.44E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255562	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Alpha	7.18E-15	6.10E-15	6.98E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255562	P6WH LOADOUT	03/28/22	Gross Alpha/Beta	Gross Beta	2.03E-14	1.45E-14	2.20E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255563	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Alpha	4.61E-15	4.83E-15	6.39E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255563	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Beta	2.19E-14	1.36E-14	2.01E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255564	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Alpha	4.89E-15	5.12E-15	6.77E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255564	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Beta	2.32E-14	1.44E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255565	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Alpha	2.01E-15	3.83E-15	6.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255565	P6WH LOADOUT	03/29/22	Gross Alpha/Beta	Gross Beta	2.34E-14	1.54E-14	2.30E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255566	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Alpha	-1.73E-16	2.13E-15	6.58E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255566	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Beta	4.33E-14	1.67E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255567	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Alpha	8.65E-15	6.24E-15	6.20E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255567	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Beta	3.62E-14	1.53E-14	2.06E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255568	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Alpha	1.49E-14	8.42E-15	6.81E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255568	P6WH LOADOUT	03/31/22	Gross Alpha/Beta	Gross Beta	4.63E-14	1.74E-14	2.26E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255569	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Alpha	5.81E-15	5.30E-15	6.31E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255569	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Beta	2.06E-14	1.39E-14	2.09E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255570	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Alpha	9.41E-15	6.79E-15	6.75E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255570	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Beta	2.35E-14	1.50E-14	2.24E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255571	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Alpha	7.48E-15	6.24E-15	6.93E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255571	P6WH LOADOUT	04/04/22	Gross Alpha/Beta	Gross Beta	3.60E-14	1.66E-14	2.30E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255572	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Alpha	6.89E-15	5.74E-15	6.38E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255572	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Beta	4.27E-14	1.63E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255573	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Alpha	5.27E-15	5.38E-15	6.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255573	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Beta	2.33E-14	1.53E-14	2.29E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255574	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Alpha	8.58E-16	2.95E-15	6.52E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255574	P6WH LOADOUT	04/05/22	Gross Alpha/Beta	Gross Beta	1.09E-14	1.32E-14	2.16E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255575	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Alpha	1.85E-15	3.52E-15	6.38E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255575	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Beta	6.56E-15	1.25E-14	2.12E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255576	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Alpha	1.95E-15	3.71E-15	6.72E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255576	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Beta	-3.14E-15	1.20E-14	2.23E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255577	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Alpha	4.25E-15	5.00E-15	7.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255577	P6WH LOADOUT	04/06/22	Gross Alpha/Beta	Gross Beta	8.73E-15	1.39E-14	2.33E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255578	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Alpha	-1.82E-16	2.24E-15	6.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255578	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Beta	1.38E-14	1.43E-14	2.30E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255579	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Alpha	3.03E-15	4.31E-15	6.78E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255579	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Beta	1.57E-14	1.42E-14	2.25E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255580	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Alpha	8.36E-16	2.87E-15	6.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255580	P6WH LOADOUT	04/07/22	Gross Alpha/Beta	Gross Beta	2.08E-14	1.40E-14	2.11E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255581	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Alpha	9.12E-16	3.13E-15	6.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255581	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Beta	2.71E-14	1.57E-14	2.30E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255582	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Alpha	1.95E-15	3.71E-15	6.72E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255582	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Beta	1.27E-14	1.38E-14	2.23E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255583	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Alpha	3.86E-15	4.54E-15	6.38E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255583	P6WH LOADOUT	04/11/22	Gross Alpha/Beta	Gross Beta	3.79E-14	1.58E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255584	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Alpha	5.24E-15	5.35E-15	6.87E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255584	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Beta	2.25E-14	1.51E-14	2.28E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255585	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Alpha	4.99E-15	5.82E-15	8.64E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255585	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Beta	8.32E-15	1.30E-14	2.18E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255586	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Alpha	4.47E-15	5.21E-15	7.73E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255586	P6WH LOADOUT	04/12/22	Gross Alpha/Beta	Gross Beta	1.27E-14	1.23E-14	1.95E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255587	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Alpha	3.98E-15	5.49E-15	8.80E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255587	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Beta	2.42E-14	1.50E-14	2.22E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255588	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Alpha	3.79E-15	5.23E-15	8.37E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255588	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.47E-14	2.11E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255589	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Alpha	1.54E-14	8.48E-15	7.83E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255589	P6WH LOADOUT	04/13/22	Gross Alpha/Beta	Gross Beta	1.09E-14	1.22E-14	1.97E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255590	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Alpha	6.14E-15	6.28E-15	8.72E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255590	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Beta	2.55E-14	1.51E-14	2.19E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255591	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Alpha	8.38E-15	7.05E-15	8.76E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255591	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Beta	2.94E-14	1.55E-14	2.20E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255592	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Alpha	8.69E-15	6.78E-15	8.02E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255592	P6WH LOADOUT	04/14/22	Gross Alpha/Beta	Gross Beta	2.62E-14	1.42E-14	2.02E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255593	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Alpha	5.23E-15	6.09E-15	9.04E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255593	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Beta	2.96E-14	1.60E-14	2.28E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255594	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Alpha	5.04E-15	5.87E-15	8.72E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255594	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Beta	3.15E-14	1.57E-14	2.19E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255595	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Alpha	9.62E-15	7.02E-15	7.96E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255595	P6WH LOADOUT	04/18/22	Gross Alpha/Beta	Gross Beta	2.87E-14	1.43E-14	2.00E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255596	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Alpha	8.08E-15	6.80E-15	8.45E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255596	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Beta	2.76E-14	1.49E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255597	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Alpha	4.54E-15	5.30E-15	7.86E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255597	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Beta	2.70E-14	1.40E-14	1.98E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255598	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Alpha	9.40E-15	7.33E-15	8.68E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255598	P6WH LOADOUT	04/19/22	Gross Alpha/Beta	Gross Beta	1.50E-14	1.38E-14	2.19E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255599	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Alpha	4.64E-15	5.41E-15	8.02E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255599	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Beta	2.28E-14	1.38E-14	2.02E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255600	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Alpha	-4.44E-16	3.09E-15	8.45E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255600	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Beta	2.26E-14	1.44E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255601	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Alpha	1.20E-14	7.82E-15	8.19E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255601	P6WH LOADOUT	04/20/22	Gross Alpha/Beta	Gross Beta	3.03E-14	1.48E-14	2.06E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255602	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Alpha	3.33E-15	4.60E-15	7.38E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255602	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Beta	1.91E-14	1.25E-14	1.86E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255603	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Alpha	2.73E-15	4.78E-15	8.37E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255603	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Beta	2.16E-14	1.41E-14	2.11E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255604	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Alpha	1.53E-15	3.92E-15	7.67E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255604	P6WH LOADOUT	04/21/22	Gross Alpha/Beta	Gross Beta	1.66E-14	1.26E-14	1.93E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255605	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Alpha	4.20E-17	2.91E-15	7.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255605	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Beta	3.52E-14	1.29E-14	1.52E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255606	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.32E-15	7.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255606	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Beta	1.92E-14	1.14E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255607	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Alpha	4.50E-17	3.15E-15	8.07E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255607	P6WH LOADOUT	04/25/22	Gross Alpha/Beta	Gross Beta	1.24E-14	1.07E-14	1.64E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255608	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Alpha	3.41E-15	5.06E-15	8.29E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255608	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Beta	1.64E-14	1.15E-14	1.69E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255609	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Alpha	1.11E-15	3.75E-15	7.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255609	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Beta	1.85E-14	1.13E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255610	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Alpha	6.21E-15	5.86E-15	7.61E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255610	P6WH LOADOUT	04/26/22	Gross Alpha/Beta	Gross Beta	1.98E-14	1.12E-14	1.55E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255611	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Alpha	7.48E-15	6.43E-15	7.87E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255611	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Beta	2.53E-14	1.22E-14	1.60E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255612	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Alpha	6.23E-15	5.89E-15	7.64E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255612	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.21E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255613	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Alpha	6.71E-15	6.33E-15	8.22E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255613	P6WH LOADOUT	04/27/22	Gross Alpha/Beta	Gross Beta	2.94E-14	1.31E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255614	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Alpha	1.14E-14	7.55E-15	7.67E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255614	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Beta	2.54E-14	1.20E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255615	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.47E-15	8.18E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255615	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Beta	3.65E-14	1.39E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255616	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Alpha	1.08E-14	7.53E-15	7.97E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255616	P6WH LOADOUT	04/28/22	Gross Alpha/Beta	Gross Beta	2.36E-14	1.21E-14	1.62E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255617	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Alpha	9.77E-15	7.24E-15	8.00E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255617	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Beta	2.65E-14	1.25E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255618	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Alpha	4.47E-15	5.46E-15	8.18E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255618	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Beta	1.77E-14	1.15E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255619	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Alpha	4.05E-15	4.96E-15	7.43E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255619	P6WH LOADOUT	05/02/22	Gross Alpha/Beta	Gross Beta	1.67E-14	1.06E-14	1.51E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255620	P6WH LOADOUT	05/03/22	Gross Alpha/Beta	Gross Alpha	4.40E-17	3.05E-15	7.84E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255620	P6WH LOADOUT	05/03/22	Gross Alpha/Beta	Gross Beta	1.35E-14	1.06E-14	1.60E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255621	P6WH LOADOUT	05/03/22	Gross Alpha/Beta	Gross Alpha	4.20E-17	2.88E-15	7.40E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255621	P6WH LOADOUT	05/03/22	Gross Alpha/Beta	Gross Beta	2.24E-15	8.43E-15	1.51E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255622	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Alpha	3.14E-15	4.66E-15	7.64E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255622	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Beta	1.63E-15	8.60E-15	1.56E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255623	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Alpha	4.41E-15	5.39E-15	8.07E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255623	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Beta	1.10E-14	1.05E-14	1.64E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255624	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Alpha	2.19E-15	4.33E-15	7.94E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255624	P6WH LOADOUT	05/04/22	Gross Alpha/Beta	Gross Beta	1.15E-14	1.04E-14	1.62E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255625	P6WH LOADOUT	05/05/22	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.71E-15	8.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255625	P6WH LOADOUT	05/05/22	Gross Alpha/Beta	Gross Beta	2.12E-15	1.21E-14	2.13E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255626	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Alpha	6.26E-15	6.02E-15	8.19E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255626	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Beta	3.52E-14	1.48E-14	1.98E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255627	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Alpha	1.34E-15	4.21E-15	8.53E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255627	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Beta	2.01E-14	1.37E-14	2.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255628	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Alpha	5.26E-15	5.68E-15	8.19E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255628	P6WH LOADOUT	05/09/22	Gross Alpha/Beta	Gross Beta	2.63E-14	1.39E-14	1.98E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255629	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Alpha	4.04E-15	5.03E-15	7.75E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255629	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Beta	2.97E-14	1.36E-14	1.88E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255630	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Alpha	1.24E-15	3.91E-15	7.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255630	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Beta	3.91E-14	1.48E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255631	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Alpha	7.14E-15	6.25E-15	8.06E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255631	P6WH LOADOUT	05/10/22	Gross Alpha/Beta	Gross Beta	3.09E-14	1.42E-14	1.95E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255632	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Alpha	4.87E-15	5.26E-15	7.57E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255632	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Beta	2.79E-14	1.32E-14	1.83E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255633	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Alpha	7.17E-15	6.27E-15	8.09E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255633	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Beta	3.36E-14	1.45E-14	1.96E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255634	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Alpha	3.25E-15	4.89E-15	8.12E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255634	P6WH LOADOUT	05/11/22	Gross Alpha/Beta	Gross Beta	2.42E-14	1.36E-14	1.97E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255635	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Alpha	1.15E-14	7.71E-15	8.39E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255635	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Beta	4.20E-14	1.57E-14	2.03E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255636	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Alpha	1.08E-14	7.62E-15	8.61E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255636	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Beta	4.58E-14	1.64E-14	2.08E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255637	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Alpha	3.25E-15	4.89E-15	8.12E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255637	P6WH LOADOUT	05/12/22	Gross Alpha/Beta	Gross Beta	3.75E-14	1.49E-14	1.97E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255638	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Alpha	7.89E-15	6.91E-15	8.91E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255638	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Beta	1.75E-14	1.39E-14	2.16E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255639	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Alpha	2.49E-15	4.92E-15	8.95E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255639	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Beta	2.80E-14	1.51E-14	2.17E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255640	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Alpha	9.39E-15	7.07E-15	8.32E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255640	P6WH LOADOUT	05/16/22	Gross Alpha/Beta	Gross Beta	2.02E-14	1.34E-14	2.02E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255641	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Alpha	2.49E-15	4.92E-15	8.95E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255641	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Beta	4.20E-14	1.65E-14	2.17E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255642	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Alpha	-7.10E-16	2.92E-15	8.26E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255642	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Beta	1.81E-14	1.31E-14	2.00E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255643	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Alpha	8.90E-15	7.18E-15	8.83E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255643	P6WH LOADOUT	05/17/22	Gross Alpha/Beta	Gross Beta	3.04E-14	1.52E-14	2.14E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255644	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Alpha	2.01E-14	1.02E-14	9.03E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255644	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Beta	5.58E-14	1.80E-14	2.19E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255645	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Alpha	-1.98E-15	3.11E-15	9.84E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255645	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Beta	1.70E-14	1.38E-14	2.13E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255646	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Alpha	2.15E-15	5.03E-15	9.43E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255646	P6WH LOADOUT	05/18/22	Gross Alpha/Beta	Gross Beta	3.55E-14	1.52E-14	2.04E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255647	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Alpha	1.25E-15	5.07E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255647	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Beta	2.78E-14	1.56E-14	2.25E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255648	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Alpha	1.33E-16	4.35E-15	9.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255648	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Beta	3.38E-14	1.57E-14	2.15E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255649	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Alpha	7.27E-15	6.84E-15	9.51E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255649	P6WH LOADOUT	05/19/22	Gross Alpha/Beta	Gross Beta	3.79E-14	1.56E-14	2.06E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255650	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Alpha	5.54E-15	6.55E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255650	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Beta	2.40E-14	1.48E-14	2.18E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255651	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Alpha	1.20E-15	4.84E-15	9.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255651	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Beta	2.37E-14	1.46E-14	2.15E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255652	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Alpha	3.23E-15	5.54E-15	9.63E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255652	P6WH LOADOUT	05/23/22	Gross Alpha/Beta	Gross Beta	8.97E-15	1.26E-14	2.09E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255653	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Alpha	-9.37E-16	3.81E-15	9.97E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255653	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Beta	2.31E-14	1.46E-14	2.16E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255654	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Alpha	-1.97E-15	3.10E-15	9.80E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255654	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.55E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255655	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Alpha	-8.86E-16	3.60E-15	9.43E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255655	P6WH LOADOUT	05/24/22	Gross Alpha/Beta	Gross Beta	3.55E-14	1.52E-14	2.04E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255656	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Alpha	1.27E-16	4.15E-15	9.47E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255656	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Beta	3.22E-14	1.49E-14	2.05E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255657	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Alpha	-2.80E-15	2.11E-15	9.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255657	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Beta	6.49E-15	1.16E-14	1.97E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255658	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.33E-15	8.87E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255658	P6WH LOADOUT	05/25/22	Gross Alpha/Beta	Gross Beta	1.47E-14	1.23E-14	1.92E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255659	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Alpha	2.23E-15	5.20E-15	9.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255659	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Beta	1.41E-14	1.33E-14	2.11E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255660	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Alpha	4.12E-15	5.72E-15	9.31E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255660	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Beta	8.68E-15	1.22E-14	2.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255661	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Alpha	2.21E-15	5.16E-15	9.67E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255661	P6WH LOADOUT	05/26/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.46E-14	2.09E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255662	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Alpha	2.16E-15	5.05E-15	9.47E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255662	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Beta	3.15E-14	1.49E-14	2.05E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255663	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Alpha	-8.60E-16	3.50E-15	9.16E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255663	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Beta	3.78E-14	1.51E-14	1.98E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255664	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Alpha	6.79E-15	6.39E-15	8.87E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255664	P6WH LOADOUT	05/31/22	Gross Alpha/Beta	Gross Beta	4.69E-14	1.57E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255665	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Alpha	6.69E-15	5.72E-15	6.60E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255665	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Beta	1.11E-14	1.00E-14	1.56E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255666	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Alpha	4.90E-15	5.18E-15	6.91E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255666	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Beta	1.57E-14	1.10E-14	1.63E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255667	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Alpha	1.73E-15	3.63E-15	6.82E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255667	P6WH LOADOUT	06/01/22	Gross Alpha/Beta	Gross Beta	1.07E-14	1.03E-14	1.61E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255668	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.03E-15	6.58E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255668	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Beta	1.10E-14	9.97E-15	1.55E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255669	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Alpha	1.78E-15	3.73E-15	7.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255669	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Beta	1.98E-15	9.23E-15	1.66E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255670	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Alpha	8.55E-15	6.74E-15	7.34E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255670	P6WH LOADOUT	06/02/22	Gross Alpha/Beta	Gross Beta	1.81E-14	1.19E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255671	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Alpha	8.47E-15	6.68E-15	7.27E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255671	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Beta	3.90E-14	1.44E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255672	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.34E-15	7.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255672	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Beta	2.74E-14	1.28E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255673	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Alpha	2.79E-15	4.21E-15	6.88E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255673	P6WH LOADOUT	06/06/22	Gross Alpha/Beta	Gross Beta	4.09E-14	1.41E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255674	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Alpha	6.23E-15	5.86E-15	7.24E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255674	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Beta	2.37E-14	1.25E-14	1.71E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255675	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.34E-15	7.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255675	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Beta	2.39E-14	1.23E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255676	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Alpha	2.74E-15	4.14E-15	6.77E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255676	P6WH LOADOUT	06/07/22	Gross Alpha/Beta	Gross Beta	3.76E-14	1.35E-14	1.60E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255677	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Alpha	4.03E-15	4.96E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255677	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Beta	9.97E-15	1.07E-14	1.71E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255678	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Alpha	3.91E-15	4.81E-15	7.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255678	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Beta	1.39E-14	1.09E-14	1.66E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255679	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Alpha	4.69E-15	7.09E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255679	P6WH LOADOUT	06/08/22	Gross Alpha/Beta	Gross Beta	2.28E-14	1.80E-14	2.73E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255680	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Alpha	7.46E-16	3.21E-15	7.37E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255680	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Beta	1.89E-14	1.21E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255681	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Alpha	9.29E-15	6.83E-15	7.06E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255681	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Beta	2.94E-14	1.30E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255682	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Alpha	6.82E-16	2.94E-15	6.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255682	P6WH LOADOUT	06/09/22	Gross Alpha/Beta	Gross Beta	1.26E-14	1.04E-14	1.59E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255683	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Alpha	3.69E-15	4.54E-15	6.63E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255683	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Beta	1.84E-14	1.10E-14	1.56E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255684	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Alpha	3.75E-15	4.61E-15	6.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255684	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Beta	1.73E-14	1.10E-14	1.59E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255685	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Alpha	7.11E-15	6.08E-15	7.03E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255685	P6WH LOADOUT	06/13/22	Gross Alpha/Beta	Gross Beta	3.06E-14	1.31E-14	1.66E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255686	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Alpha	7.72E-15	6.09E-15	6.63E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255686	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Beta	5.07E-14	1.48E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255687	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Alpha	7.97E-15	6.81E-15	7.87E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255687	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Beta	3.27E-14	1.44E-14	1.86E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255688	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Alpha	9.37E-15	6.89E-15	7.12E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255688	P6WH LOADOUT	06/14/22	Gross Alpha/Beta	Gross Beta	4.38E-14	1.47E-14	1.68E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255689	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Alpha	9.41E-15	6.92E-15	7.15E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255689	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Beta	2.69E-14	1.28E-14	1.69E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255690	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Alpha	8.76E-15	6.45E-15	6.66E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255690	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Beta	3.90E-14	1.35E-14	1.57E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255691	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.34E-15	6.91E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255691	P6WH LOADOUT	06/15/22	Gross Alpha/Beta	Gross Beta	2.33E-14	1.20E-14	1.63E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255692	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.33E-15	7.21E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255692	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Beta	1.93E-14	1.19E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255693	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Alpha	2.75E-15	4.16E-15	6.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255693	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Beta	1.54E-14	1.08E-14	1.60E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255694	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Alpha	6.71E-16	2.89E-15	6.63E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255694	P6WH LOADOUT	06/16/22	Gross Alpha/Beta	Gross Beta	8.46E-15	9.68E-15	1.56E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255695	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Alpha	7.88E-15	6.21E-15	6.77E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255695	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Beta	2.68E-14	1.23E-14	1.60E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255696	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Alpha	2.88E-15	4.36E-15	7.12E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255696	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Beta	1.48E-14	1.12E-14	1.68E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255697	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Alpha	5.97E-15	5.62E-15	6.94E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255697	P6WH LOADOUT	06/20/22	Gross Alpha/Beta	Gross Beta	2.40E-14	1.21E-14	1.64E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255698	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Alpha	7.98E-15	6.29E-15	6.85E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255698	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Beta	4.42E-14	1.44E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255699	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.34E-15	7.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255699	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Beta	3.94E-14	1.42E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255700	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Alpha	5.02E-15	5.31E-15	7.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255700	P6WH LOADOUT	06/21/22	Gross Alpha/Beta	Gross Beta	3.23E-14	1.34E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255701	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Alpha	1.74E-15	3.66E-15	6.88E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255701	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Beta	3.20E-14	1.30E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255702	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Alpha	3.91E-15	4.81E-15	7.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255702	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Beta	3.34E-14	1.34E-14	1.66E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255703	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Alpha	8.49E-15	6.24E-15	6.45E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255703	P6WH LOADOUT	06/22/22	Gross Alpha/Beta	Gross Beta	3.65E-14	1.30E-14	1.52E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255704	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Alpha	1.59E-15	4.08E-15	7.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255704	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Beta	7.14E-15	9.49E-15	1.56E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255705	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Alpha	2.77E-15	4.85E-15	8.49E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255705	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Beta	2.94E-14	1.30E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255706	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Alpha	2.82E-15	4.93E-15	8.64E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255706	P6WH LOADOUT	06/23/22	Gross Alpha/Beta	Gross Beta	1.42E-14	1.12E-14	1.69E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255707	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.38E-15	8.57E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255707	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Beta	2.54E-14	1.25E-14	1.68E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255708	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Alpha	2.83E-15	4.95E-15	8.68E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255708	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Beta	2.00E-14	1.20E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255709	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.06E-15	8.11E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255709	P6WH LOADOUT	06/27/22	Gross Alpha/Beta	Gross Beta	2.27E-14	1.17E-14	1.59E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255710	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Alpha	6.71E-15	6.17E-15	8.08E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255710	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Beta	3.06E-14	1.26E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255711	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Alpha	6.47E-16	3.91E-15	8.80E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255711	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Beta	2.53E-14	1.28E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255712	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Alpha	6.62E-16	4.00E-15	9.00E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255712	P6WH LOADOUT	06/28/22	Gross Alpha/Beta	Gross Beta	3.04E-14	1.36E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255713	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Alpha	3.82E-15	5.28E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255713	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Beta	2.23E-14	1.20E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255714	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Alpha	1.59E-15	4.06E-15	7.95E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255714	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Beta	2.75E-14	1.21E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255715	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.48E-15	8.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255715	P6WH LOADOUT	06/29/22	Gross Alpha/Beta	Gross Beta	1.73E-14	1.17E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255716	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Alpha	5.11E-15	5.95E-15	8.84E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255716	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Beta	2.69E-14	1.30E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255717	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Alpha	2.83E-15	4.95E-15	8.68E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255717	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Beta	3.22E-14	1.35E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255718	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Alpha	2.68E-15	4.68E-15	8.21E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255718	P6WH LOADOUT	06/30/22	Gross Alpha/Beta	Gross Beta	2.09E-14	1.16E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255719	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Alpha	1.74E-15	4.46E-15	8.72E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255719	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Beta	3.37E-14	1.37E-14	1.71E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255720	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Alpha	2.76E-15	4.83E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255720	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Beta	1.81E-14	1.15E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255721	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Alpha	5.92E-16	3.58E-15	8.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255721	P6WH LOADOUT	07/05/22	Gross Alpha/Beta	Gross Beta	2.45E-14	1.19E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255722	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Alpha	1.57E-15	4.02E-15	7.85E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255722	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Beta	1.87E-14	1.09E-14	1.54E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255723	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Alpha	3.67E-15	6.41E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255723	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Beta	8.21E-15	1.31E-14	2.20E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255724	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Alpha	6.56E-15	6.11E-15	7.83E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255724	P6WH LOADOUT	07/06/22	Gross Alpha/Beta	Gross Beta	2.21E-14	1.20E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255725	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Alpha	-9.67E-16	2.30E-15	8.07E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255725	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Beta	1.12E-14	1.08E-14	1.71E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255726	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Alpha	1.32E-16	3.05E-15	7.73E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255726	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Beta	1.42E-14	1.08E-14	1.63E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255727	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Alpha	1.25E-16	2.88E-15	7.30E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255727	P6WH LOADOUT	07/07/22	Gross Alpha/Beta	Gross Beta	1.14E-14	9.97E-15	1.54E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255728	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Alpha	1.61E-15	5.01E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255728	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Beta	6.93E-15	1.29E-14	2.20E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255729	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Alpha	-1.22E-15	2.90E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255729	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Beta	1.04E-14	1.32E-14	2.15E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255730	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Alpha	4.17E-15	6.03E-15	9.75E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255730	P6WH LOADOUT	07/08/22	Gross Alpha/Beta	Gross Beta	1.61E-14	1.35E-14	2.06E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255731	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Alpha	6.71E-15	6.25E-15	8.00E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255731	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Beta	3.69E-14	1.40E-14	1.69E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255732	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Alpha	5.47E-15	5.69E-15	7.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255732	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Beta	4.08E-14	1.42E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255733	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Alpha	7.26E-15	6.17E-15	7.44E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255733	P6WH LOADOUT	07/11/22	Gross Alpha/Beta	Gross Beta	3.37E-14	1.30E-14	1.57E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255734	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Alpha	2.35E-15	4.47E-15	8.07E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255734	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Beta	2.78E-14	1.30E-14	1.71E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255735	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.84E-15	7.83E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255735	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Beta	2.70E-14	1.26E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255736	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Alpha	6.14E-15	5.72E-15	7.32E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255736	P6WH LOADOUT	07/12/22	Gross Alpha/Beta	Gross Beta	2.06E-14	1.12E-14	1.55E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255737	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Alpha	8.90E-15	6.99E-15	8.00E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255737	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Beta	2.33E-14	1.24E-14	1.69E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255738	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Alpha	9.78E-15	7.17E-15	7.83E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255738	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Beta	2.35E-14	1.22E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255739	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Alpha	1.22E-14	7.61E-15	7.35E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255739	P6WH LOADOUT	07/13/22	Gross Alpha/Beta	Gross Beta	3.26E-14	1.27E-14	1.55E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255740	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Alpha	5.64E-15	5.87E-15	8.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255740	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Beta	3.56E-14	1.39E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255741	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Alpha	7.60E-15	6.46E-15	7.79E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255741	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Beta	2.20E-14	1.19E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255742	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Alpha	8.78E-15	6.90E-15	7.90E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255742	P6WH LOADOUT	07/14/22	Gross Alpha/Beta	Gross Beta	2.15E-14	1.20E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255743	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Alpha	5.66E-15	5.90E-15	8.07E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255743	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Beta	4.59E-14	1.51E-14	1.71E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD255744	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Alpha	4.38E-15	6.01E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255744	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Beta	4.20E-14	1.61E-14	2.09E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255745	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Alpha	3.15E-15	5.33E-15	9.23E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255745	P6WH LOADOUT	07/18/22	Gross Alpha/Beta	Gross Beta	4.05E-14	1.53E-14	1.98E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255746	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.26E-15	9.79E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255746	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Beta	4.83E-14	1.67E-14	2.10E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255747	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Alpha	3.33E-15	5.62E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255747	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Beta	1.98E-14	1.38E-14	2.09E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255748	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Alpha	5.12E-15	6.01E-15	9.19E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255748	P6WH LOADOUT	07/19/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.45E-14	1.97E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255749	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Alpha	4.98E-15	5.84E-15	8.94E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD255749	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Beta	3.36E-14	1.43E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259634	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Alpha	8.33E-15	7.14E-15	9.46E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259634	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Beta	1.66E-14	1.31E-14	2.03E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259635	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Alpha	6.31E-15	6.54E-15	9.50E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259635	P6WH LOADOUT	07/20/22	Gross Alpha/Beta	Gross Beta	3.90E-14	1.55E-14	2.04E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259636	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Alpha	8.06E-15	6.91E-15	9.16E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259636	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Beta	2.55E-14	1.37E-14	1.96E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259637	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Alpha	4.36E-15	5.98E-15	9.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259637	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Beta	3.92E-14	1.57E-14	2.08E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259638	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Alpha	4.39E-15	6.03E-15	9.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259638	P6WH LOADOUT	07/21/22	Gross Alpha/Beta	Gross Beta	3.21E-14	1.51E-14	2.10E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259639	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Alpha	6.90E-15	6.46E-15	8.94E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259639	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Beta	3.05E-14	1.39E-14	1.92E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259640	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.18E-15	9.38E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259640	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Beta	2.23E-14	1.36E-14	2.01E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259641	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Alpha	3.35E-15	5.67E-15	9.83E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD259641	P6WH LOADOUT	07/25/22	Gross Alpha/Beta	Gross Beta	2.47E-14	1.44E-14	2.11E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259642	P6WH LOADOUT	07/27/22	Gross Alpha/Beta	Gross Alpha	9.75E-15	7.75E-15	9.87E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD259642	P6WH LOADOUT	07/27/22	Gross Alpha/Beta	Gross Beta	3.99E-14	1.60E-14	2.12E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD259643	P6WH LOADOUT	07/27/22	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.81E-15	9.58E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259643	P6WH LOADOUT	07/27/22	Gross Alpha/Beta	Gross Beta	3.74E-14	1.54E-14	2.06E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD259644	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.22E-15	9.74E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259644	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Beta	5.15E-14	1.70E-14	2.09E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD259645	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Alpha	4.13E-15	5.67E-15	9.19E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD259645	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Beta	3.78E-14	1.50E-14	1.97E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD259646	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Alpha	3.15E-15	5.33E-15	9.23E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD259646	P6WH LOADOUT	07/28/22	Gross Alpha/Beta	Gross Beta	3.02E-14	1.43E-14	1.98E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD259647	P6WH LOADOUT	07/29/22	Gross Alpha/Beta	Gross Alpha	4.21E-15	5.79E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD259647	P6WH LOADOUT	07/29/22	Gross Alpha/Beta	Gross Beta	1.90E-14	1.33E-14	2.01E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD259648	P6WH LOADOUT	07/29/22	Gross Alpha/Beta	Gross Alpha	2.59E-15	4.12E-15	6.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259648	P6WH LOADOUT	07/29/22	Gross Alpha/Beta	Gross Beta	1.90E-14	1.34E-14	2.03E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259649	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Alpha	2.39E-15	3.80E-15	6.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259649	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Beta	4.49E-14	1.53E-14	1.88E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259650	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Alpha	1.55E-15	3.53E-15	6.82E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259650	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Beta	2.97E-14	1.45E-14	2.01E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259651	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Alpha	4.66E-15	5.06E-15	6.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259651	P6WH LOADOUT	08/01/22	Gross Alpha/Beta	Gross Beta	2.53E-14	1.42E-14	2.04E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259652	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Alpha	4.54E-15	4.93E-15	6.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259652	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Beta	1.86E-14	1.32E-14	1.99E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259653	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Alpha	3.71E-15	4.72E-15	7.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259653	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Beta	2.80E-14	1.47E-14	2.09E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259654	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Alpha	4.82E-15	5.24E-15	7.17E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259654	P6WH LOADOUT	08/02/22	Gross Alpha/Beta	Gross Beta	2.98E-14	1.51E-14	2.11E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259655	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Alpha	4.34E-15	4.72E-15	6.47E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259655	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Beta	3.14E-14	1.41E-14	1.91E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259656	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Alpha	3.59E-15	4.56E-15	6.84E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259656	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Beta	1.89E-14	1.33E-14	2.02E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259657	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Alpha	3.71E-15	4.72E-15	7.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259657	P6WH LOADOUT	08/03/22	Gross Alpha/Beta	Gross Beta	2.52E-14	1.44E-14	2.09E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259658	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Alpha	2.73E-15	4.34E-15	7.27E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259658	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Beta	2.22E-14	1.44E-14	2.14E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259659	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Alpha	3.73E-15	4.74E-15	7.11E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259659	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Beta	3.94E-15	1.21E-14	2.10E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259660	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Alpha	5.37E-16	2.85E-15	6.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259660	P6WH LOADOUT	08/04/22	Gross Alpha/Beta	Gross Beta	3.63E-16	1.10E-14	1.98E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259661	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Alpha	1.50E-15	3.42E-15	6.60E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259661	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Beta	2.28E-14	1.34E-14	1.94E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259662	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Alpha	5.71E-15	5.49E-15	6.96E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259662	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Beta	2.48E-14	1.42E-14	2.05E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259663	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.30E-15	7.21E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259663	P6WH LOADOUT	08/08/22	Gross Alpha/Beta	Gross Beta	3.72E-14	1.59E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259664	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Alpha	4.31E-15	4.68E-15	6.41E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259664	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Beta	1.90E-14	1.26E-14	1.89E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259665	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Alpha	-4.70E-16	2.11E-15	6.93E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259665	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Beta	1.42E-14	1.30E-14	2.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259666	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Alpha	4.78E-15	5.19E-15	7.11E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259666	P6WH LOADOUT	08/09/22	Gross Alpha/Beta	Gross Beta	5.37E-15	1.22E-14	2.10E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259667	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Alpha	5.13E-15	6.53E-15	9.79E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259667	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Beta	2.50E-14	1.89E-14	2.89E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259668	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Alpha	-7.70E-16	4.47E-15	1.24E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259668	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Beta	4.34E-14	2.31E-14	3.32E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259669	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Alpha	8.48E-15	8.80E-15	1.24E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259669	P6WH LOADOUT	08/10/22	Gross Alpha/Beta	Gross Beta	2.26E-14	2.09E-14	3.32E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259670	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Alpha	3.62E-15	5.12E-15	8.29E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259670	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Beta	1.66E-14	1.42E-14	2.23E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259671	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Alpha	1.61E-15	4.36E-15	8.62E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259671	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Beta	2.52E-14	1.56E-14	2.32E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259672	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Alpha	6.05E-15	6.28E-15	8.81E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259672	P6WH LOADOUT	08/11/22	Gross Alpha/Beta	Gross Beta	4.36E-14	1.77E-14	2.37E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259673	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Alpha	3.63E-15	5.14E-15	8.32E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259673	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Beta	3.42E-14	1.61E-14	2.24E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259674	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Alpha	5.37E-15	5.57E-15	7.82E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259674	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Beta	2.62E-14	1.45E-14	2.10E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259675	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.91E-15	8.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259675	P6WH LOADOUT	08/15/22	Gross Alpha/Beta	Gross Beta	5.63E-14	1.88E-14	2.34E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259676	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.73E-15	7.66E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259676	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Beta	4.18E-14	1.58E-14	2.06E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259677	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Alpha	6.78E-15	6.31E-15	8.36E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259677	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Beta	4.63E-14	1.73E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259678	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Alpha	8.53E-15	6.72E-15	8.05E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259678	P6WH LOADOUT	08/16/22	Gross Alpha/Beta	Gross Beta	5.07E-14	1.72E-14	2.16E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259679	P6WH LOADOUT	08/17/22	Gross Alpha/Beta	Gross Alpha	4.43E-15	5.25E-15	7.88E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259679	P6WH LOADOUT	08/17/22	Gross Alpha/Beta	Gross Beta	2.31E-14	1.43E-14	2.12E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259680	P6WH LOADOUT	08/17/22	Gross Alpha/Beta	Gross Alpha	8.79E-15	6.92E-15	8.29E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259680	P6WH LOADOUT	08/17/22	Gross Alpha/Beta	Gross Beta	3.96E-14	1.65E-14	2.23E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259681	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Alpha	4.93E-16	3.48E-15	7.91E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259681	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Beta	3.51E-14	1.55E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259682	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Alpha	1.55E-15	4.19E-15	8.28E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259682	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.59E-14	2.22E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259683	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Alpha	9.94E-15	7.32E-15	8.39E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259683	P6WH LOADOUT	08/18/22	Gross Alpha/Beta	Gross Beta	3.37E-14	1.61E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259684	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Alpha	4.63E-15	5.49E-15	8.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259684	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Beta	2.97E-14	1.55E-14	2.21E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259685	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Alpha	3.86E-15	5.46E-15	8.85E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259685	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Beta	2.73E-14	1.61E-14	2.38E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259686	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.80E-15	8.94E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259686	P6WH LOADOUT	08/22/22	Gross Alpha/Beta	Gross Beta	3.22E-14	1.68E-14	2.40E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259687	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Alpha	9.91E-15	7.29E-15	8.36E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259687	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Beta	4.21E-14	1.69E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259688	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Alpha	9.50E-15	7.28E-15	8.74E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259688	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Beta	4.23E-14	1.58E-14	2.02E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259689	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Alpha	9.19E-15	7.05E-15	8.46E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259689	P6WH LOADOUT	08/23/22	Gross Alpha/Beta	Gross Beta	3.76E-14	1.49E-14	1.95E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259690	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Alpha	1.38E-16	3.89E-15	9.25E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259690	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Beta	5.96E-14	1.82E-14	2.14E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259691	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Alpha	-2.97E-15	7.49E-16	8.67E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259691	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Beta	7.39E-15	1.20E-14	2.00E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259692	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Alpha	9.99E-15	7.19E-15	8.29E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259692	P6WH LOADOUT	08/24/22	Gross Alpha/Beta	Gross Beta	4.39E-14	1.53E-14	1.91E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259693	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Alpha	5.67E-15	6.32E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259693	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Beta	4.99E-14	1.73E-14	2.15E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259694	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Alpha	5.60E-15	6.24E-15	9.17E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259694	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Beta	5.21E-14	1.73E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259695	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Alpha	8.32E-15	6.86E-15	8.60E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259695	P6WH LOADOUT	08/25/22	Gross Alpha/Beta	Gross Beta	3.76E-14	1.51E-14	1.99E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259696	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Alpha	8.49E-15	7.00E-15	8.78E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259696	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Beta	2.83E-14	1.44E-14	2.03E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259697	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.34E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259697	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Beta	1.74E-14	1.36E-14	2.09E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259698	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Alpha	2.14E-15	4.56E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259698	P6WH LOADOUT	08/29/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.38E-14	1.95E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259699	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Alpha	6.72E-15	6.64E-15	9.21E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259699	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Beta	3.75E-14	1.59E-14	2.13E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259700	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Alpha	2.25E-15	4.80E-15	8.89E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259700	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Beta	3.82E-14	1.56E-14	2.06E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259701	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Alpha	6.12E-15	6.05E-15	8.39E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259701	P6WH LOADOUT	08/30/22	Gross Alpha/Beta	Gross Beta	2.64E-14	1.37E-14	1.94E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259702	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Alpha	4.92E-15	5.48E-15	8.06E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259702	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Beta	2.60E-14	1.32E-14	1.86E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259703	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Alpha	1.16E-14	7.91E-15	8.78E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259703	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Beta	3.91E-14	1.55E-14	2.03E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259704	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Alpha	9.26E-15	7.10E-15	8.53E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259704	P6WH LOADOUT	08/31/22	Gross Alpha/Beta	Gross Beta	3.08E-14	1.43E-14	1.97E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259705	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Alpha	2.32E-15	4.94E-15	9.17E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259705	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Beta	2.05E-14	1.41E-14	2.12E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259706	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Alpha	4.35E-15	5.64E-15	8.86E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259706	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Beta	3.40E-14	1.51E-14	2.05E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259707	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Alpha	-1.89E-15	2.14E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259707	P6WH LOADOUT	09/01/22	Gross Alpha/Beta	Gross Beta	2.86E-14	1.40E-14	1.95E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259708	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Alpha	2.37E-15	4.34E-15	7.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259708	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Beta	3.41E-14	1.59E-14	2.19E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259709	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Alpha	1.27E-15	3.69E-15	7.57E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259709	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Beta	2.98E-14	1.52E-14	2.14E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259710	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Alpha	3.19E-15	4.49E-15	7.16E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259710	P6WH LOADOUT	09/06/22	Gross Alpha/Beta	Gross Beta	4.44E-14	1.60E-14	2.03E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259711	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Alpha	6.89E-15	5.78E-15	6.88E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259711	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Beta	2.78E-14	1.39E-14	1.95E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259712	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.16E-15	7.38E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259712	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Beta	6.02E-14	1.79E-14	2.09E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259713	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Alpha	1.38E-14	8.19E-15	7.53E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259713	P6WH LOADOUT	09/07/22	Gross Alpha/Beta	Gross Beta	5.94E-14	1.81E-14	2.13E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259714	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Alpha	9.95E-15	6.82E-15	7.02E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259714	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Beta	5.14E-14	1.65E-14	1.99E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259715	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Alpha	7.26E-15	6.09E-15	7.25E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259715	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Beta	6.40E-14	1.81E-14	2.05E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259716	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Alpha	6.58E-15	6.05E-15	7.63E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259716	P6WH LOADOUT	09/08/22	Gross Alpha/Beta	Gross Beta	5.44E-14	1.78E-14	2.16E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259717	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Alpha	7.71E-15	6.47E-15	7.70E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259717	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Beta	3.90E-14	1.64E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259718	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Alpha	8.03E-15	6.24E-15	7.05E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259718	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Beta	4.83E-14	1.62E-14	2.00E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259719	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Alpha	1.16E-14	7.55E-15	7.47E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259719	P6WH LOADOUT	09/12/22	Gross Alpha/Beta	Gross Beta	5.05E-14	1.71E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259720	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Alpha	7.14E-15	5.99E-15	7.13E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259720	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Beta	4.89E-14	1.64E-14	2.02E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259721	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Alpha	9.76E-15	7.10E-15	7.63E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259721	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Beta	5.73E-14	1.81E-14	2.16E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259722	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Alpha	1.76E-14	9.31E-15	7.81E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259722	P6WH LOADOUT	09/14/22	Gross Alpha/Beta	Gross Beta	6.96E-14	1.95E-14	2.21E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259723	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Alpha	1.46E-14	1.06E-14	1.15E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259723	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Beta	3.87E-14	2.23E-14	3.24E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259724	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Alpha	1.58E-14	1.08E-14	1.12E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259724	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Beta	6.39E-14	2.44E-14	3.16E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259725	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Alpha	1.63E-14	1.12E-14	1.15E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259725	P6WH LOADOUT	09/15/22	Gross Alpha/Beta	Gross Beta	5.52E-14	2.41E-14	3.27E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259726	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Alpha	1.52E-14	8.65E-15	7.70E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259726	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Beta	5.35E-14	1.78E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259727	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Alpha	7.54E-15	6.33E-15	7.53E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259727	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Beta	4.03E-14	1.62E-14	2.13E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259740	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Alpha	6.96E-15	6.17E-15	7.80E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259740	P6WH LOADOUT	09/19/22	Gross Alpha/Beta	Gross Beta	3.82E-14	1.35E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259741	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Alpha	7.82E-15	6.37E-15	7.64E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259741	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Beta	2.10E-14	1.13E-14	1.55E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259742	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Alpha	1.95E-15	4.30E-15	8.13E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259742	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Beta	4.67E-14	1.49E-14	1.64E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259743	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Alpha	6.45E-15	6.30E-15	8.45E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259743	P6WH LOADOUT	09/20/22	Gross Alpha/Beta	Gross Beta	3.77E-14	1.42E-14	1.71E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259744	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.14E-15	7.96E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259744	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Beta	2.67E-14	1.23E-14	1.61E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259745	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Alpha	3.01E-15	4.80E-15	8.13E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259745	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Beta	3.35E-14	1.33E-14	1.64E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259746	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Alpha	8.62E-15	7.02E-15	8.41E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259746	P6WH LOADOUT	09/21/22	Gross Alpha/Beta	Gross Beta	3.90E-14	1.43E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259747	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Alpha	6.47E-15	6.33E-15	8.49E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259747	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Beta	1.90E-14	1.20E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259748	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Alpha	2.11E-15	4.66E-15	8.80E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259748	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Beta	1.90E-14	1.23E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259749	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Alpha	9.55E-16	4.03E-15	8.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259749	P6WH LOADOUT	09/22/22	Gross Alpha/Beta	Gross Beta	1.96E-14	1.23E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259750	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Alpha	8.46E-16	3.57E-15	7.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259750	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Beta	2.14E-14	1.14E-14	1.57E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259751	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Alpha	2.82E-15	4.49E-15	7.61E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259751	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Beta	1.44E-14	1.04E-14	1.54E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259752	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Alpha	5.14E-15	5.67E-15	8.13E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259752	P6WH LOADOUT	09/26/22	Gross Alpha/Beta	Gross Beta	1.82E-14	1.14E-14	1.64E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259753	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Alpha	7.39E-15	6.54E-15	8.27E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259753	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Beta	2.70E-14	1.27E-14	1.67E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259754	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Alpha	9.39E-15	7.11E-15	8.13E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259754	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Beta	3.07E-14	1.30E-14	1.64E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259755	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Alpha	7.92E-15	6.45E-15	7.73E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259755	P6WH LOADOUT	09/27/22	Gross Alpha/Beta	Gross Beta	4.08E-15	9.05E-15	1.56E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259756	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Alpha	5.18E-15	5.72E-15	8.20E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259756	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Beta	2.82E-14	1.28E-14	1.66E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259757	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Alpha	9.19E-15	6.96E-15	7.96E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259757	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Beta	1.17E-14	1.04E-14	1.61E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259758	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Alpha	-1.68E-16	2.91E-15	7.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259758	P6WH LOADOUT	09/28/22	Gross Alpha/Beta	Gross Beta	8.68E-15	9.68E-15	1.56E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259759	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Alpha	6.85E-15	6.07E-15	7.67E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259759	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Beta	5.36E-15	9.17E-15	1.55E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259760	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Alpha	-1.53E-15	2.09E-15	7.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259760	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Beta	2.65E-15	1.24E-14	2.17E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259761	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Alpha	-5.28E-16	2.83E-15	7.86E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259761	P6WH LOADOUT	09/29/22	Gross Alpha/Beta	Gross Beta	5.90E-15	1.25E-14	2.13E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259771	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Alpha	2.48E-15	4.15E-15	7.12E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259771	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Beta	3.17E-14	1.27E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259772	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Alpha	4.61E-15	5.16E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259772	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Beta	1.79E-14	1.11E-14	1.58E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259773	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Alpha	2.45E-15	4.10E-15	7.04E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259773	P6WH LOADOUT	10/03/22	Gross Alpha/Beta	Gross Beta	4.13E-14	1.37E-14	1.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259774	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Alpha	4.43E-16	3.06E-15	7.37E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259774	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Beta	2.86E-14	1.26E-14	1.61E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259775	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Alpha	7.23E-15	5.90E-15	6.76E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259775	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Beta	3.33E-14	1.24E-14	1.48E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259776	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Alpha	6.68E-15	5.93E-15	7.21E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259776	P6WH LOADOUT	10/04/22	Gross Alpha/Beta	Gross Beta	2.32E-14	1.17E-14	1.58E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259777	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Alpha	7.53E-15	6.14E-15	7.04E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259777	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Beta	4.39E-14	1.40E-14	1.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259778	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Alpha	3.57E-15	4.71E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259778	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Beta	3.70E-14	1.35E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259779	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Alpha	4.61E-15	5.16E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259779	P6WH LOADOUT	10/05/22	Gross Alpha/Beta	Gross Beta	5.69E-14	1.57E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259780	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Alpha	8.68E-15	6.58E-15	7.15E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259780	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Beta	4.47E-14	1.42E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259781	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Alpha	1.15E-14	7.30E-15	6.95E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259781	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Beta	5.52E-14	1.51E-14	1.52E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259782	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Alpha	8.83E-15	6.69E-15	7.27E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259782	P6WH LOADOUT	10/06/22	Gross Alpha/Beta	Gross Beta	6.33E-14	1.64E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259783	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Alpha	5.61E-15	5.53E-15	7.18E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259783	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Beta	6.38E-14	1.64E-14	1.57E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259784	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Alpha	6.62E-15	5.88E-15	7.15E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259784	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Beta	5.28E-14	1.51E-14	1.56E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259785	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.60E-15	7.87E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259785	P6WH LOADOUT	10/10/22	Gross Alpha/Beta	Gross Beta	7.37E-14	1.83E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259786	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Alpha	4.26E-16	2.94E-15	7.09E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259786	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Beta	2.15E-14	1.14E-14	1.55E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259787	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Alpha	6.59E-15	5.86E-15	7.12E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259787	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Beta	1.08E-14	9.97E-15	1.56E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259788	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Alpha	9.88E-15	7.02E-15	7.27E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259788	P6WH LOADOUT	10/11/22	Gross Alpha/Beta	Gross Beta	7.01E-14	1.71E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259789	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Alpha	8.57E-15	6.99E-15	8.01E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259789	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Beta	8.18E-14	1.94E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259790	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Alpha	6.29E-15	6.19E-15	8.05E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259790	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Beta	5.86E-14	1.69E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259791	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Alpha	5.41E-15	6.31E-15	9.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259791	P6WH LOADOUT	10/12/22	Gross Alpha/Beta	Gross Beta	7.93E-14	2.11E-14	2.33E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259792	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Alpha	3.65E-15	5.04E-15	8.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259792	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Beta	9.43E-15	1.23E-14	2.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259793	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Alpha	2.72E-15	4.77E-15	8.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259793	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Beta	4.32E-15	1.21E-14	2.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259794	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Alpha	6.02E-15	6.15E-15	8.54E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259794	P6WH LOADOUT	10/13/22	Gross Alpha/Beta	Gross Beta	1.83E-14	1.39E-14	2.13E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259795	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.06E-15	8.11E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259795	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Beta	1.01E-14	1.24E-14	2.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259796	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Alpha	6.31E-16	3.81E-15	8.58E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259796	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Beta	1.42E-14	1.35E-14	2.14E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259797	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Alpha	3.83E-15	5.28E-15	8.47E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259797	P6WH LOADOUT	10/17/22	Gross Alpha/Beta	Gross Beta	1.68E-14	1.36E-14	2.11E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259798	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Alpha	8.28E-15	6.97E-15	8.65E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259798	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Beta	8.69E-15	1.30E-14	2.16E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259799	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Alpha	2.72E-15	4.77E-15	8.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259799	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Beta	2.13E-14	1.39E-14	2.08E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259800	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Alpha	5.55E-15	5.68E-15	7.88E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259800	P6WH LOADOUT	10/18/22	Gross Alpha/Beta	Gross Beta	1.56E-14	1.27E-14	1.97E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259801	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.37E-15	8.54E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259801	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Beta	2.31E-14	1.44E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259802	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Alpha	4.83E-15	5.63E-15	8.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259802	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Beta	3.35E-14	1.52E-14	2.08E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259803	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Alpha	7.42E-15	6.25E-15	7.76E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259803	P6WH LOADOUT	10/19/22	Gross Alpha/Beta	Gross Beta	3.55E-14	1.46E-14	1.93E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259804	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Alpha	6.55E-15	6.02E-15	7.88E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259804	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Beta	3.61E-14	1.48E-14	1.97E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259805	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Alpha	4.83E-15	5.63E-15	8.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259805	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Beta	3.89E-14	1.57E-14	2.08E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259806	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Alpha	2.85E-15	4.98E-15	8.73E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259806	P6WH LOADOUT	10/20/22	Gross Alpha/Beta	Gross Beta	4.35E-14	1.67E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259807	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Alpha	8.22E-15	9.58E-15	1.42E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259807	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Beta	5.93E-14	2.61E-14	3.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259808	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Alpha	1.02E-15	6.18E-15	1.39E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259808	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Beta	7.94E-14	2.77E-14	3.47E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259809	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Alpha	2.59E-15	6.64E-15	1.30E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259809	P6WH LOADOUT	10/21/22	Gross Alpha/Beta	Gross Beta	1.94E-14	2.01E-14	3.24E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259810	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.39E-15	8.58E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259810	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Beta	2.53E-14	1.47E-14	2.14E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259826	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Alpha	3.53E-15	5.18E-15	8.52E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259826	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Beta	6.42E-14	1.78E-14	2.00E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259827	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Alpha	8.30E-15	6.63E-15	8.07E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259827	P6WH LOADOUT	10/24/22	Gross Alpha/Beta	Gross Beta	4.24E-14	1.51E-14	1.89E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259828	P6WH LOADOUT	10/25/22	Gross Alpha/Beta	Gross Alpha	-7.31E-16	3.40E-15	9.53E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259828	P6WH LOADOUT	10/25/22	Gross Alpha/Beta	Gross Beta	3.35E-14	1.61E-14	2.23E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259829	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Alpha	3.75E-15	5.50E-15	9.06E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259829	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Beta	3.40E-14	1.55E-14	2.12E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259830	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Alpha	5.77E-15	6.13E-15	8.74E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259830	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Beta	2.59E-14	1.43E-14	2.05E-14	µCi/mL	J	F01, T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259831	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Alpha	3.79E-16	3.57E-15	8.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259831	P6WH LOADOUT	10/26/22	Gross Alpha/Beta	Gross Beta	2.63E-14	1.36E-14	1.93E-14	µCi/mL	J	F01, T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259832	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Alpha	5.74E-15	6.10E-15	8.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259832	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Beta	3.26E-14	1.49E-14	2.04E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259833	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Alpha	4.59E-15	5.61E-15	8.55E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259833	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Beta	3.61E-14	1.51E-14	2.00E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259834	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Alpha	5.26E-15	5.59E-15	7.97E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259834	P6WH LOADOUT	10/27/22	Gross Alpha/Beta	Gross Beta	2.17E-14	1.28E-14	1.87E-14	µCi/mL	J	F01, T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259835	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Alpha	9.40E-15	7.02E-15	8.17E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259835	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Beta	6.48E-14	1.74E-14	1.91E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259836	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Alpha	1.63E-14	9.10E-15	8.63E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259836	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Beta	6.71E-14	1.83E-14	2.02E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259837	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Alpha	1.25E-14	8.29E-15	8.93E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259837	P6WH LOADOUT	10/31/22	Gross Alpha/Beta	Gross Beta	7.73E-14	1.97E-14	2.09E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259838	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.27E-15	8.14E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259838	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Beta	6.91E-14	1.78E-14	1.91E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259839	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Alpha	1.43E-14	8.64E-15	8.70E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259839	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Beta	8.55E-14	2.01E-14	2.04E-14	µCi/mL	J	F01	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259840	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.19E-15	8.50E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259840	P6WH LOADOUT	11/01/22	Gross Alpha/Beta	Gross Beta	9.09E-14	2.01E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259841	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Alpha	1.09E-14	7.69E-15	8.31E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259841	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Beta	7.44E-14	1.82E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259842	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Alpha	8.38E-15	6.75E-15	7.99E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259842	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Beta	7.51E-14	1.79E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259843	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Alpha	1.60E-14	8.65E-15	7.60E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259843	P6WH LOADOUT	11/02/22	Gross Alpha/Beta	Gross Beta	5.36E-14	1.52E-14	1.57E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259844	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Alpha	8.86E-15	7.14E-15	8.46E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259844	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Beta	5.96E-14	1.69E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259845	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Alpha	9.72E-15	7.30E-15	8.24E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259845	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Beta	5.38E-14	1.60E-14	1.70E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259846	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Alpha	9.34E-16	3.58E-15	7.70E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259846	P6WH LOADOUT	11/03/22	Gross Alpha/Beta	Gross Beta	4.63E-14	1.45E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259847	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Alpha	4.16E-15	5.25E-15	8.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259847	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Beta	2.11E-14	1.19E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259848	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Alpha	9.66E-16	3.70E-15	7.96E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259848	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Beta	1.89E-14	1.15E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259849	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Alpha	4.25E-15	5.37E-15	8.20E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259849	P6WH LOADOUT	11/07/22	Gross Alpha/Beta	Gross Beta	1.45E-14	1.12E-14	1.70E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259850	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.27E-15	8.81E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259850	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Beta	2.17E-14	1.29E-14	1.82E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259851	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.08E-15	8.77E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259851	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Beta	2.92E-14	1.38E-14	1.81E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259852	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Alpha	1.11E-14	7.83E-15	8.46E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259852	P6WH LOADOUT	11/08/22	Gross Alpha/Beta	Gross Beta	2.74E-14	1.32E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259853	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Alpha	7.66E-15	7.38E-15	9.77E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259853	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Beta	5.28E-14	1.77E-14	2.02E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259854	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Alpha	5.53E-15	6.00E-15	8.50E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259854	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Beta	4.81E-14	1.57E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259855	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Alpha	8.07E-15	7.06E-15	8.81E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259855	P6WH LOADOUT	11/09/22	Gross Alpha/Beta	Gross Beta	4.00E-14	1.51E-14	1.82E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259856	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Alpha	9.32E-15	6.99E-15	7.89E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259856	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Beta	2.14E-14	1.18E-14	1.63E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259857	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Alpha	3.24E-15	5.01E-15	8.38E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259857	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Beta	3.80E-14	1.44E-14	1.73E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259858	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Alpha	9.98E-15	7.50E-15	8.46E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259858	P6WH LOADOUT	11/10/22	Gross Alpha/Beta	Gross Beta	3.03E-14	1.35E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259859	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.28E-15	7.99E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259859	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Beta	-3.23E-15	8.39E-15	1.65E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259860	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Alpha	3.26E-16	3.94E-15	9.19E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259860	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Beta	1.47E-15	1.22E-14	2.17E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259861	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Alpha	2.46E-15	4.86E-15	8.83E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259861	P6WH LOADOUT	11/14/22	Gross Alpha/Beta	Gross Beta	1.04E-14	1.27E-14	2.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259862	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.03E-15	8.36E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259862	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Beta	1.96E-14	1.31E-14	1.97E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259863	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Alpha	2.49E-15	4.92E-15	8.95E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259863	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Beta	2.03E-14	1.40E-14	2.11E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259864	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Alpha	1.04E-14	7.85E-15	9.24E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259864	P6WH LOADOUT	11/15/22	Gross Alpha/Beta	Gross Beta	6.79E-14	1.92E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259865	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Alpha	5.35E-15	5.77E-15	8.32E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259865	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Beta	5.27E-14	1.65E-14	1.96E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259866	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Alpha	7.06E-15	6.79E-15	9.24E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259866	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Beta	6.93E-14	1.93E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259867	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Alpha	2.44E-15	4.81E-15	8.76E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259867	P6WH LOADOUT	11/16/22	Gross Alpha/Beta	Gross Beta	4.24E-14	1.60E-14	2.07E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259868	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Alpha	-8.21E-16	3.37E-15	9.54E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259868	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Beta	4.55E-14	1.74E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259869	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Alpha	2.56E-15	5.05E-15	9.19E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259869	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Beta	5.68E-14	1.80E-14	2.17E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259870	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Alpha	5.44E-15	5.87E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259870	P6WH LOADOUT	11/17/22	Gross Alpha/Beta	Gross Beta	5.23E-14	1.66E-14	2.00E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259871	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.41E-15	9.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259871	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Beta	5.27E-14	1.77E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259872	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Alpha	1.42E-15	4.45E-15	9.03E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259872	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Beta	3.25E-14	1.54E-14	2.13E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259873	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.52E-15	8.50E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259873	P6WH LOADOUT	11/21/22	Gross Alpha/Beta	Gross Beta	6.18E-14	1.76E-14	2.00E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259874	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Alpha	2.36E-15	4.65E-15	8.46E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259874	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Beta	6.28E-14	1.76E-14	2.00E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259875	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Alpha	6.96E-15	6.70E-15	9.11E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259875	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Beta	5.77E-14	1.80E-14	2.15E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259876	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Alpha	1.02E-14	7.64E-15	8.99E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259876	P6WH LOADOUT	11/22/22	Gross Alpha/Beta	Gross Beta	7.24E-14	1.93E-14	2.12E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259877	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Alpha	3.69E-15	5.55E-15	9.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259877	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Beta	6.43E-14	1.88E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259878	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.41E-15	9.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259878	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Beta	6.57E-14	1.90E-14	2.18E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259879	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Alpha	6.52E-15	6.28E-15	8.53E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259879	P6WH LOADOUT	11/23/22	Gross Alpha/Beta	Gross Beta	8.70E-15	1.22E-14	2.01E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259880	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Alpha	6.09E-15	6.00E-15	7.80E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259880	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Beta	6.56E-14	1.74E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259881	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Alpha	4.60E-15	5.14E-15	7.21E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259881	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Beta	2.05E-14	1.15E-14	1.59E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259882	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Alpha	4.58E-16	3.16E-15	7.62E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259882	P6WH LOADOUT	11/28/22	Gross Alpha/Beta	Gross Beta	6.63E-14	1.73E-14	1.69E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259883	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Alpha	7.45E-15	6.62E-15	8.05E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259883	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Beta	5.63E-14	1.68E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259884	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Alpha	5.04E-15	5.63E-15	7.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259884	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Beta	5.08E-14	1.60E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259885	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Alpha	1.48E-15	3.66E-15	7.24E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259885	P6WH LOADOUT	11/29/22	Gross Alpha/Beta	Gross Beta	4.45E-14	1.44E-14	1.60E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259886	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Alpha	1.61E-15	3.98E-15	7.87E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259886	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Beta	2.83E-14	1.33E-14	1.74E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259887	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Alpha	4.56E-16	3.15E-15	7.59E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259887	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Beta	1.80E-14	1.16E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259888	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Alpha	6.62E-15	5.88E-15	7.15E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259888	P6WH LOADOUT	11/30/22	Gross Alpha/Beta	Gross Beta	1.63E-14	1.09E-14	1.58E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259889	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Alpha	2.43E-15	4.07E-15	6.98E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259889	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Beta	3.17E-14	1.26E-14	1.54E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259890	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Alpha	3.62E-15	4.77E-15	7.33E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259890	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Beta	2.84E-14	1.26E-14	1.62E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259891	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Alpha	7.03E-15	6.24E-15	7.59E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259891	P6WH LOADOUT	12/01/22	Gross Alpha/Beta	Gross Beta	2.23E-14	1.22E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259892	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Alpha	5.61E-15	5.53E-15	7.18E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259892	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Beta	7.60E-14	1.77E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259893	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Alpha	4.86E-15	5.43E-15	7.62E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259893	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Beta	8.00E-14	1.87E-14	1.69E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259894	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Alpha	3.90E-15	5.14E-15	7.90E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259894	P6WH LOADOUT	12/05/22	Gross Alpha/Beta	Gross Beta	7.25E-14	1.83E-14	1.75E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259922	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Alpha	6.98E-15	6.65E-15	9.15E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259922	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Beta	4.99E-14	1.51E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259923	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Alpha	8.71E-15	7.57E-15	9.94E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259923	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Beta	6.53E-14	1.76E-14	1.79E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259924	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Alpha	7.72E-15	7.35E-15	1.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259924	P6WH LOADOUT	12/06/22	Gross Alpha/Beta	Gross Beta	5.29E-14	1.65E-14	1.82E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259925	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Alpha	9.80E-15	7.87E-15	9.90E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259925	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Beta	7.53E-14	1.86E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259926	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Alpha	1.41E-14	8.57E-15	9.04E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259926	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Beta	5.33E-14	1.54E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259927	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Alpha	1.32E-14	8.85E-15	9.94E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259927	P6WH LOADOUT	12/07/22	Gross Alpha/Beta	Gross Beta	8.60E-14	1.98E-14	1.79E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259928	P6WH LOADOUT	12/08/22	Gross Alpha/Beta	Gross Alpha	8.70E-15	6.99E-15	8.79E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259928	P6WH LOADOUT	12/08/22	Gross Alpha/Beta	Gross Beta	5.77E-14	1.56E-14	1.58E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259929	P6WH LOADOUT	12/08/22	Gross Alpha/Beta	Gross Alpha	6.20E-15	6.58E-15	9.55E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259929	P6WH LOADOUT	12/08/22	Gross Alpha/Beta	Gross Beta	7.55E-14	1.83E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259930	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Alpha	1.31E-14	8.35E-15	9.08E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259930	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Beta	4.54E-14	1.46E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259931	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Alpha	3.73E-15	5.39E-15	8.86E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259931	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Beta	6.08E-14	1.60E-14	1.59E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259932	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.58E-15	9.15E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259932	P6WH LOADOUT	12/12/22	Gross Alpha/Beta	Gross Beta	8.40E-14	1.87E-14	1.65E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259933	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Alpha	3.83E-15	5.52E-15	9.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259933	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Beta	5.56E-14	1.57E-14	1.63E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265505	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Alpha	1.27E-14	8.50E-15	9.55E-15	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265505	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Beta	7.48E-14	1.82E-14	1.72E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265506	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Alpha	9.80E-15	7.87E-15	9.90E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265506	P6WH LOADOUT	12/13/22	Gross Alpha/Beta	Gross Beta	4.66E-14	1.56E-14	1.78E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265507	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Alpha	-3.01E-16	3.66E-15	9.08E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265507	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Beta	1.37E-14	1.08E-14	1.63E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265508	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Alpha	7.48E-15	7.12E-15	9.81E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265508	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Beta	1.77E-14	1.20E-14	1.76E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265509	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Alpha	1.98E-15	5.27E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265509	P6WH LOADOUT	12/14/22	Gross Alpha/Beta	Gross Beta	1.68E-15	1.02E-14	1.84E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265510	P6WH LOADOUT	12/15/22	Gross Alpha/Beta	Gross Alpha	9.66E-15	7.77E-15	9.76E-15	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265510	P6WH LOADOUT	12/15/22	Gross Alpha/Beta	Gross Beta	4.09E-14	1.48E-14	1.76E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265511	P6WH LOADOUT	12/15/22	Gross Alpha/Beta	Gross Alpha	-3.02E-16	3.67E-15	9.12E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265511	P6WH LOADOUT	12/15/22	Gross Alpha/Beta	Gross Beta	-1.89E-15	8.55E-15	1.64E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265513	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.28E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265513	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Beta	2.40E-14	1.52E-14	2.27E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265514	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Alpha	3.65E-15	6.04E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265514	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Beta	2.37E-14	1.47E-14	2.18E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265515	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Alpha	3.45E-15	5.72E-15	9.85E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265515	P6WH LOADOUT	12/19/22	Gross Alpha/Beta	Gross Beta	1.54E-14	1.32E-14	2.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265516	P6WH LOADOUT	12/20/22	Gross Alpha/Beta	Gross Alpha	-1.71E-15	3.97E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265516	P6WH LOADOUT	12/20/22	Gross Alpha/Beta	Gross Beta	-1.43E-15	1.27E-14	2.30E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265517	P6WH LOADOUT	12/20/22	Gross Alpha/Beta	Gross Alpha	4.60E-16	4.57E-15	9.89E-15	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265517	P6WH LOADOUT	12/20/22	Gross Alpha/Beta	Gross Beta	2.32E-14	1.40E-14	2.08E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265518	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Alpha	7.28E-15	7.56E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265518	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Beta	5.87E-14	1.89E-14	2.33E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265519	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Alpha	5.93E-15	6.95E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265519	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Beta	7.13E-14	1.96E-14	2.25E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265520	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Alpha	8.62E-15	7.43E-15	1.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265520	P6WH LOADOUT	12/21/22	Gross Alpha/Beta	Gross Beta	6.49E-14	1.82E-14	2.11E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265521	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Alpha	-5.61E-16	4.24E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD265521	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Beta	3.40E-14	1.55E-14	2.15E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265522	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Alpha	1.61E-15	5.51E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265522	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Beta	1.99E-14	1.49E-14	2.29E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265523	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Alpha	-6.19E-16	4.68E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265523	P6WH LOADOUT	12/27/22	Gross Alpha/Beta	Gross Beta	3.31E-14	1.66E-14	2.37E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265524	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Alpha	-1.59E-15	3.69E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265524	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Beta	4.45E-14	1.65E-14	2.14E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265525	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Alpha	8.29E-15	7.79E-15	1.10E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265525	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Beta	5.86E-14	1.88E-14	2.30E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265526	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Alpha	5.21E-16	5.18E-15	1.12E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265526	P6WH LOADOUT	12/28/22	Gross Alpha/Beta	Gross Beta	4.61E-14	1.79E-14	2.35E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265527	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Alpha	4.71E-16	4.68E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265527	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Beta	1.79E-14	1.38E-14	2.13E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265528	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Alpha	5.07E-16	5.04E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265528	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Beta	2.06E-14	1.50E-14	2.29E-14	µCi/mL	UJ	T04, T05	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265529	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Alpha	1.98E-14	1.08E-14	1.12E-14	µCi/mL	J	T04, T20	Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD265529	P6WH LOADOUT	12/29/22	Gross Alpha/Beta	Gross Beta	4.81E-14	1.80E-14	2.34E-14	µCi/mL	=		Plant 6WH LOADOUT (General Area)-Perimeter Air
SLD259729	PLANT 2	08/29/22	Gross Alpha/Beta	Gross Alpha	3.84E-15	1.12E-14	2.29E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259729	PLANT 2	08/29/22	Gross Alpha/Beta	Gross Beta	3.01E-14	3.94E-14	6.49E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259730	PLANT 2	08/30/22	Gross Alpha/Beta	Gross Alpha	1.75E-14	1.60E-14	2.02E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259730	PLANT 2	08/30/22	Gross Alpha/Beta	Gross Beta	5.51E-14	3.80E-14	5.73E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259731	PLANT 2	08/31/22	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.38E-15	1.14E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259731	PLANT 2	08/31/22	Gross Alpha/Beta	Gross Beta	2.56E-14	2.08E-14	3.22E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259732	PLANT 2	09/01/22	Gross Alpha/Beta	Gross Alpha	4.01E-15	7.34E-15	1.31E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259732	PLANT 2	09/01/22	Gross Alpha/Beta	Gross Beta	3.07E-14	2.40E-14	3.71E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259733	PLANT 2	09/06/22	Gross Alpha/Beta	Gross Alpha	2.23E-14	1.22E-14	1.06E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259733	PLANT 2	09/06/22	Gross Alpha/Beta	Gross Beta	4.35E-14	2.14E-14	2.99E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259734	PLANT 2	09/07/22	Gross Alpha/Beta	Gross Alpha	1.66E-14	1.39E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259734	PLANT 2	09/07/22	Gross Alpha/Beta	Gross Beta	6.38E-14	3.31E-14	4.70E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259735	PLANT 2	09/08/22	Gross Alpha/Beta	Gross Alpha	3.07E-16	4.25E-15	1.06E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259735	PLANT 2	09/08/22	Gross Alpha/Beta	Gross Beta	1.69E-14	1.86E-14	3.01E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259736	PLANT 2	09/13/22	Gross Alpha/Beta	Gross Alpha	5.68E-15	1.04E-14	1.85E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259736	PLANT 2	09/13/22	Gross Alpha/Beta	Gross Beta	4.17E-14	3.38E-14	5.24E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259737	PLANT 2	09/13/22	Gross Alpha/Beta	Gross Alpha	3.50E-16	4.84E-15	1.21E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259737	PLANT 2	09/13/22	Gross Alpha/Beta	Gross Beta	-4.54E-15	1.84E-14	3.42E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259738	PLANT 2	09/14/22	Gross Alpha/Beta	Gross Alpha	7.27E-15	8.53E-15	1.24E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259738	PLANT 2	09/14/22	Gross Alpha/Beta	Gross Beta	4.55E-14	2.46E-14	3.52E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259739	PLANT 2	09/19/22	Gross Alpha/Beta	Gross Alpha	6.64E-15	1.93E-14	3.96E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259739	PLANT 2	09/19/22	Gross Alpha/Beta	Gross Beta	1.19E-13	7.54E-14	1.12E-13	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259767	PLANT 2	09/26/22	Gross Alpha/Beta	Gross Alpha	-3.62E-15	4.94E-15	1.89E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259767	PLANT 2	09/26/22	Gross Alpha/Beta	Gross Beta	-1.65E-15	2.84E-14	5.13E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259768	PLANT 2	09/27/22	Gross Alpha/Beta	Gross Alpha	7.49E-16	5.76E-15	1.32E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259768	PLANT 2	09/27/22	Gross Alpha/Beta	Gross Beta	1.87E-14	2.19E-14	3.57E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259769	PLANT 2	09/28/22	Gross Alpha/Beta	Gross Alpha	-8.67E-16	4.65E-15	1.29E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259769	PLANT 2	09/28/22	Gross Alpha/Beta	Gross Beta	7.52E-15	2.03E-14	3.50E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259770	PLANT 2	09/29/22	Gross Alpha/Beta	Gross Alpha	-4.44E-15	6.06E-15	2.32E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259770	PLANT 2	09/29/22	Gross Alpha/Beta	Gross Beta	-2.73E-14	3.20E-14	6.29E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259812	PLANT 2	10/03/22	Gross Alpha/Beta	Gross Alpha	6.65E-15	1.28E-14	2.29E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259812	PLANT 2	10/03/22	Gross Alpha/Beta	Gross Beta	-1.48E-15	2.12E-14	3.99E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259813	PLANT 2	10/04/22	Gross Alpha/Beta	Gross Alpha	1.27E-14	1.59E-14	2.47E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259813	PLANT 2	10/04/22	Gross Alpha/Beta	Gross Beta	3.29E-14	2.79E-14	4.30E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259814	PLANT 2	10/05/22	Gross Alpha/Beta	Gross Alpha	6.44E-15	9.61E-15	1.60E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259814	PLANT 2	10/05/22	Gross Alpha/Beta	Gross Beta	3.31E-14	1.97E-14	2.78E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259815	PLANT 2	10/06/22	Gross Alpha/Beta	Gross Alpha	-1.27E-15	1.08E-14	2.71E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259815	PLANT 2	10/06/22	Gross Alpha/Beta	Gross Beta	-3.74E-15	2.48E-14	4.72E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259816	PLANT 2	10/10/22	Gross Alpha/Beta	Gross Alpha	1.13E-14	2.17E-14	3.90E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259816	PLANT 2	10/10/22	Gross Alpha/Beta	Gross Beta	7.50E-14	4.72E-14	6.78E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259817	PLANT 2	10/13/22	Gross Alpha/Beta	Gross Alpha	-9.73E-15	8.64E-15	3.59E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259817	PLANT 2	10/13/22	Gross Alpha/Beta	Gross Beta	-7.58E-15	3.24E-14	6.24E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259818	PLANT 2	10/18/22	Gross Alpha/Beta	Gross Alpha	-1.37E-15	1.17E-14	2.93E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259818	PLANT 2	10/18/22	Gross Alpha/Beta	Gross Beta	-1.05E-14	2.57E-14	5.09E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259819	PLANT 2	10/19/22	Gross Alpha/Beta	Gross Alpha	4.07E-15	6.07E-15	1.01E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259819	PLANT 2	10/19/22	Gross Alpha/Beta	Gross Beta	2.69E-14	1.32E-14	1.76E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259820	PLANT 2	10/20/22	Gross Alpha/Beta	Gross Alpha	8.01E-15	8.70E-15	1.28E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259820	PLANT 2	10/20/22	Gross Alpha/Beta	Gross Beta	5.09E-14	1.87E-14	2.22E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259821	PLANT 2	10/24/22	Gross Alpha/Beta	Gross Alpha	1.36E-14	9.74E-15	1.15E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259821	PLANT 2	10/24/22	Gross Alpha/Beta	Gross Beta	4.56E-14	1.68E-14	1.99E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259822	PLANT 2	10/26/22	Gross Alpha/Beta	Gross Alpha	4.98E-15	6.21E-15	9.68E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259822	PLANT 2	10/26/22	Gross Alpha/Beta	Gross Beta	2.07E-14	1.20E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259823	PLANT 2	10/27/22	Gross Alpha/Beta	Gross Alpha	3.29E-15	6.32E-15	1.14E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259823	PLANT 2	10/27/22	Gross Alpha/Beta	Gross Beta	3.18E-14	1.50E-14	1.97E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259824	PLANT 2	11/01/22	Gross Alpha/Beta	Gross Alpha	-2.89E-15	2.56E-15	1.07E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259824	PLANT 2	11/01/22	Gross Alpha/Beta	Gross Beta	2.67E-14	1.37E-14	1.85E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259825	PLANT 2	11/02/22	Gross Alpha/Beta	Gross Alpha	1.73E-15	4.05E-15	7.88E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259825	PLANT 2	11/02/22	Gross Alpha/Beta	Gross Beta	2.49E-14	1.30E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259895	PLANT 2	11/03/22	Gross Alpha/Beta	Gross Alpha	1.11E-14	7.92E-15	8.20E-15	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259895	PLANT 2	11/03/22	Gross Alpha/Beta	Gross Beta	5.51E-14	1.68E-14	1.81E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259896	PLANT 2	11/07/22	Gross Alpha/Beta	Gross Alpha	5.38E-15	6.01E-15	8.44E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259896	PLANT 2	11/07/22	Gross Alpha/Beta	Gross Beta	1.44E-14	1.22E-14	1.87E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259897	PLANT 2	11/08/22	Gross Alpha/Beta	Gross Alpha	7.31E-15	7.20E-15	9.36E-15	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259897	PLANT 2	11/08/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.49E-14	2.07E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259898	PLANT 2	11/09/22	Gross Alpha/Beta	Gross Alpha	5.86E-15	9.79E-15	1.68E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259898	PLANT 2	11/09/22	Gross Alpha/Beta	Gross Beta	2.86E-14	2.42E-14	3.71E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259899	PLANT 2	11/10/22	Gross Alpha/Beta	Gross Alpha	1.38E-14	8.78E-15	8.36E-15	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259899	PLANT 2	11/10/22	Gross Alpha/Beta	Gross Beta	4.43E-14	1.58E-14	1.85E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259900	PLANT 2	11/14/22	Gross Alpha/Beta	Gross Alpha	1.53E-15	1.06E-14	2.55E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259900	PLANT 2	11/14/22	Gross Alpha/Beta	Gross Beta	2.90E-14	3.46E-14	5.63E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259901	PLANT 2	11/15/22	Gross Alpha/Beta	Gross Alpha	1.65E-15	4.09E-15	8.09E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259901	PLANT 2	11/15/22	Gross Alpha/Beta	Gross Beta	1.23E-14	1.14E-14	1.79E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259902	PLANT 2	11/16/22	Gross Alpha/Beta	Gross Alpha	5.06E-15	5.66E-15	7.94E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259902	PLANT 2	11/16/22	Gross Alpha/Beta	Gross Beta	6.08E-14	1.71E-14	1.76E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259903	PLANT 2	11/17/22	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.23E-15	8.74E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259903	PLANT 2	11/17/22	Gross Alpha/Beta	Gross Beta	5.21E-14	1.72E-14	1.93E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259904	PLANT 2	11/21/22	Gross Alpha/Beta	Gross Alpha	5.15E-15	5.76E-15	8.09E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD259904	PLANT 2	11/21/22	Gross Alpha/Beta	Gross Beta	3.67E-14	1.46E-14	1.79E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259905	PLANT 2	11/22/22	Gross Alpha/Beta	Gross Alpha	9.73E-15	7.37E-15	8.01E-15	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259905	PLANT 2	11/22/22	Gross Alpha/Beta	Gross Beta	5.61E-14	1.67E-14	1.77E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259906	PLANT 2	11/23/22	Gross Alpha/Beta	Gross Alpha	7.16E-15	7.05E-15	9.16E-15	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259906	PLANT 2	11/23/22	Gross Alpha/Beta	Gross Beta	7.53E-14	2.03E-14	2.02E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259907	PLANT 2	11/28/22	Gross Alpha/Beta	Gross Alpha	6.20E-15	6.11E-15	7.94E-15	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259907	PLANT 2	11/28/22	Gross Alpha/Beta	Gross Beta	8.26E-14	1.94E-14	1.76E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259908	PLANT 2	11/29/22	Gross Alpha/Beta	Gross Alpha	6.15E-15	6.05E-15	7.87E-15	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259908	PLANT 2	11/29/22	Gross Alpha/Beta	Gross Beta	3.13E-14	1.36E-14	1.74E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259909	PLANT 2	11/30/22	Gross Alpha/Beta	Gross Alpha	4.86E-16	3.35E-15	8.09E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259909	PLANT 2	11/30/22	Gross Alpha/Beta	Gross Beta	2.53E-14	1.32E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259910	PLANT 2	12/01/22	Gross Alpha/Beta	Gross Alpha	7.35E-15	6.53E-15	7.94E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD259910	PLANT 2	12/01/22	Gross Alpha/Beta	Gross Beta	1.80E-14	1.20E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD259911	PLANT 2	12/05/22	Gross Alpha/Beta	Gross Alpha	5.08E-16	3.50E-15	8.44E-15	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259911	PLANT 2	12/05/22	Gross Alpha/Beta	Gross Beta	7.10E-14	1.89E-14	1.87E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259912	PLANT 2	12/06/22	Gross Alpha/Beta	Gross Alpha	8.48E-15	7.97E-15	1.12E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259912	PLANT 2	12/06/22	Gross Alpha/Beta	Gross Beta	5.41E-14	1.86E-14	2.35E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259913	PLANT 2	12/07/22	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.61E-15	1.12E-14	µCi/mL	UJ	T04, T05	Plant 2 (General Area)- Perimeter Air
SLD259913	PLANT 2	12/07/22	Gross Alpha/Beta	Gross Beta	7.02E-14	2.01E-14	2.35E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259914	PLANT 2	12/08/22	Gross Alpha/Beta	Gross Alpha	1.27E-14	9.00E-15	1.10E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259914	PLANT 2	12/08/22	Gross Alpha/Beta	Gross Beta	6.44E-14	1.93E-14	2.30E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259915	PLANT 2	12/12/22	Gross Alpha/Beta	Gross Alpha	1.74E-14	1.06E-14	1.19E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259915	PLANT 2	12/12/22	Gross Alpha/Beta	Gross Beta	5.27E-14	1.93E-14	2.49E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259916	PLANT 2	12/19/22	Gross Alpha/Beta	Gross Alpha	-6.25E-16	4.72E-15	1.14E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259916	PLANT 2	12/19/22	Gross Alpha/Beta	Gross Beta	1.11E-14	1.45E-14	2.39E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259917	PLANT 2	12/20/22	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.99E-15	1.08E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259917	PLANT 2	12/20/22	Gross Alpha/Beta	Gross Beta	2.81E-14	1.56E-14	2.26E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259918	PLANT 2	12/21/22	Gross Alpha/Beta	Gross Alpha	7.41E-15	7.70E-15	1.13E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259918	PLANT 2	12/21/22	Gross Alpha/Beta	Gross Beta	4.06E-14	1.75E-14	2.38E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259919	PLANT 2	12/27/22	Gross Alpha/Beta	Gross Alpha	8.28E-15	9.70E-15	1.50E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259919	PLANT 2	12/27/22	Gross Alpha/Beta	Gross Beta	3.71E-14	2.14E-14	3.14E-14	µCi/mL	J	T04, T20	Plant 2 (General Area)- Perimeter Air
SLD259920	PLANT 2	12/28/22	Gross Alpha/Beta	Gross Alpha	5.21E-16	5.18E-15	1.12E-14	µCi/mL	UJ	T06	Plant 2 (General Area)- Perimeter Air
SLD259920	PLANT 2	12/28/22	Gross Alpha/Beta	Gross Beta	3.88E-14	1.71E-14	2.35E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD259921	PLANT 2	12/29/22	Gross Alpha/Beta	Gross Alpha	2.46E-14	1.19E-14	1.13E-14	µCi/mL	J	J01	Plant 2 (General Area)- Perimeter Air
SLD259921	PLANT 2	12/29/22	Gross Alpha/Beta	Gross Beta	5.32E-14	1.87E-14	2.38E-14	µCi/mL	=		Plant 2 (General Area)- Perimeter Air
SLD238919	TERM RAIL	01/03/22	Gross Alpha/Beta	Gross Alpha	1.63E-15	7.48E-15	1.52E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238919	TERM RAIL	01/03/22	Gross Alpha/Beta	Gross Beta	7.08E-14	2.44E-14	3.06E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238920	TERM RAIL	01/04/22	Gross Alpha/Beta	Gross Alpha	6.54E-15	3.01E-14	6.13E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238920	TERM RAIL	01/04/22	Gross Alpha/Beta	Gross Beta	8.84E-14	7.82E-14	1.23E-13	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238925	TERM RAIL	01/19/22	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.61E-15	1.02E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238925	TERM RAIL	01/19/22	Gross Alpha/Beta	Gross Beta	3.77E-14	2.02E-14	2.88E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238926	TERM RAIL	01/20/22	Gross Alpha/Beta	Gross Alpha	2.09E-15	5.85E-15	1.19E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238926	TERM RAIL	01/20/22	Gross Alpha/Beta	Gross Beta	2.50E-14	2.16E-14	3.38E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238927	TERM RAIL	01/24/22	Gross Alpha/Beta	Gross Alpha	3.83E-15	6.88E-15	1.22E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238927	TERM RAIL	01/24/22	Gross Alpha/Beta	Gross Beta	1.17E-14	2.05E-14	3.45E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238928	TERM RAIL	01/25/22	Gross Alpha/Beta	Gross Alpha	-1.04E-15	2.87E-15	9.88E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238928	TERM RAIL	01/25/22	Gross Alpha/Beta	Gross Beta	6.09E-14	2.21E-14	2.80E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD238929	TERM RAIL	01/26/22	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.54E-15	8.78E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238929	TERM RAIL	01/26/22	Gross Alpha/Beta	Gross Beta	2.34E-14	1.64E-14	2.49E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238930	TERM RAIL	01/27/22	Gross Alpha/Beta	Gross Alpha	2.99E-16	3.45E-15	8.56E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238930	TERM RAIL	01/27/22	Gross Alpha/Beta	Gross Beta	3.09E-14	1.69E-14	2.43E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238931	TERM RAIL	01/31/22	Gross Alpha/Beta	Gross Alpha	7.28E-15	6.07E-15	7.18E-15	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238931	TERM RAIL	01/31/22	Gross Alpha/Beta	Gross Beta	5.30E-14	1.69E-14	2.03E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238932	TERM RAIL	02/01/22	Gross Alpha/Beta	Gross Alpha	4.53E-15	5.26E-15	7.62E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238932	TERM RAIL	02/01/22	Gross Alpha/Beta	Gross Beta	3.69E-14	1.60E-14	2.16E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238933	TERM RAIL	02/07/22	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.82E-15	9.83E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238933	TERM RAIL	02/07/22	Gross Alpha/Beta	Gross Beta	6.52E-14	2.25E-14	2.79E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238934	TERM RAIL	02/08/22	Gross Alpha/Beta	Gross Alpha	7.04E-15	6.36E-15	8.18E-15	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238934	TERM RAIL	02/08/22	Gross Alpha/Beta	Gross Beta	2.72E-14	1.45E-14	2.08E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238935	TERM RAIL	02/09/22	Gross Alpha/Beta	Gross Alpha	6.90E-15	6.22E-15	8.01E-15	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238935	TERM RAIL	02/09/22	Gross Alpha/Beta	Gross Beta	1.21E-14	1.26E-14	2.03E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238936	TERM RAIL	02/10/22	Gross Alpha/Beta	Gross Alpha	9.78E-16	4.86E-15	1.08E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238936	TERM RAIL	02/10/22	Gross Alpha/Beta	Gross Beta	1.54E-14	1.69E-14	2.73E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238937	TERM RAIL	02/14/22	Gross Alpha/Beta	Gross Alpha	3.08E-15	5.14E-15	8.86E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238937	TERM RAIL	02/14/22	Gross Alpha/Beta	Gross Beta	2.66E-14	1.54E-14	2.25E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238938	TERM RAIL	02/15/22	Gross Alpha/Beta	Gross Alpha	8.85E-15	7.33E-15	8.94E-15	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238938	TERM RAIL	02/15/22	Gross Alpha/Beta	Gross Beta	2.54E-14	1.54E-14	2.27E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238939	TERM RAIL	02/22/22	Gross Alpha/Beta	Gross Alpha	9.41E-16	4.67E-15	1.03E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238939	TERM RAIL	02/22/22	Gross Alpha/Beta	Gross Beta	2.42E-14	1.73E-14	2.63E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238940	TERM RAIL	02/23/22	Gross Alpha/Beta	Gross Alpha	1.32E-14	8.15E-15	8.11E-15	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238940	TERM RAIL	02/23/22	Gross Alpha/Beta	Gross Beta	6.32E-14	1.80E-14	2.06E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238941	TERM RAIL	02/28/22	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.26E-15	8.28E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238941	TERM RAIL	02/28/22	Gross Alpha/Beta	Gross Beta	4.20E-14	1.62E-14	2.10E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238942	TERM RAIL	03/01/22	Gross Alpha/Beta	Gross Alpha	2.24E-14	1.19E-14	1.05E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238942	TERM RAIL	03/01/22	Gross Alpha/Beta	Gross Beta	5.81E-14	2.09E-14	2.65E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238943	TERM RAIL	03/16/22	Gross Alpha/Beta	Gross Alpha	6.36E-15	1.51E-14	2.90E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238943	TERM RAIL	03/16/22	Gross Alpha/Beta	Gross Beta	1.04E-14	4.20E-14	7.36E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238944	TERM RAIL	03/17/22	Gross Alpha/Beta	Gross Alpha	1.88E-14	1.44E-14	1.68E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238944	TERM RAIL	03/17/22	Gross Alpha/Beta	Gross Beta	-1.06E-14	2.24E-14	4.26E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238945	TERM RAIL	03/21/22	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.73E-15	9.34E-15	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238945	TERM RAIL	03/21/22	Gross Alpha/Beta	Gross Beta	3.57E-14	1.70E-14	2.37E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238946	TERM RAIL	03/22/22	Gross Alpha/Beta	Gross Alpha	9.59E-15	1.28E-14	2.01E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238946	TERM RAIL	03/22/22	Gross Alpha/Beta	Gross Beta	1.22E-14	2.98E-14	5.11E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238947	TERM RAIL	03/23/22	Gross Alpha/Beta	Gross Alpha	1.02E-14	1.37E-14	2.15E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238947	TERM RAIL	03/23/22	Gross Alpha/Beta	Gross Beta	3.08E-14	3.38E-14	5.46E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238974	TERM RAIL	04/07/22	Gross Alpha/Beta	Gross Alpha	3.86E-15	5.81E-15	9.60E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238974	TERM RAIL	04/07/22	Gross Alpha/Beta	Gross Beta	2.00E-14	1.35E-14	1.98E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238975	TERM RAIL	04/11/22	Gross Alpha/Beta	Gross Alpha	1.39E-15	4.87E-15	1.03E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238975	TERM RAIL	04/11/22	Gross Alpha/Beta	Gross Beta	3.37E-15	1.20E-14	2.13E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238976	TERM RAIL	04/12/22	Gross Alpha/Beta	Gross Alpha	4.80E-15	5.93E-15	8.95E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238976	TERM RAIL	04/12/22	Gross Alpha/Beta	Gross Beta	2.10E-14	1.29E-14	1.85E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238977	TERM RAIL	04/13/22	Gross Alpha/Beta	Gross Alpha	0	1.22E-14	3.16E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238977	TERM RAIL	04/13/22	Gross Alpha/Beta	Gross Beta	7.51E-15	3.62E-14	6.51E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238978	TERM RAIL	04/14/22	Gross Alpha/Beta	Gross Alpha	0	6.27E-15	1.62E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD238978	TERM RAIL	04/14/22	Gross Alpha/Beta	Gross Beta	3.66E-14	2.32E-14	3.34E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238979	TERM RAIL	04/18/22	Gross Alpha/Beta	Gross Alpha	0	4.40E-15	1.14E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238979	TERM RAIL	04/18/22	Gross Alpha/Beta	Gross Beta	1.27E-14	1.45E-14	2.34E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238980	TERM RAIL	04/19/22	Gross Alpha/Beta	Gross Alpha	7.39E-15	7.89E-15	1.10E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238980	TERM RAIL	04/19/22	Gross Alpha/Beta	Gross Beta	1.71E-14	1.47E-14	2.27E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238981	TERM RAIL	04/20/22	Gross Alpha/Beta	Gross Alpha	2.66E-15	5.37E-15	9.90E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238981	TERM RAIL	04/20/22	Gross Alpha/Beta	Gross Beta	6.59E-14	1.94E-14	2.04E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238982	TERM RAIL	04/21/22	Gross Alpha/Beta	Gross Alpha	0	3.75E-15	9.70E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238982	TERM RAIL	04/21/22	Gross Alpha/Beta	Gross Beta	1.93E-14	1.36E-14	2.00E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238983	TERM RAIL	04/25/22	Gross Alpha/Beta	Gross Alpha	1.73E-15	6.09E-15	1.29E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238983	TERM RAIL	04/25/22	Gross Alpha/Beta	Gross Beta	1.78E-14	1.70E-14	2.67E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD238984	TERM RAIL	04/26/22	Gross Alpha/Beta	Gross Alpha	1.09E-14	3.81E-14	8.09E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238984	TERM RAIL	04/26/22	Gross Alpha/Beta	Gross Beta	-2.34E-14	8.60E-14	1.67E-13	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238985	TERM RAIL	04/28/22	Gross Alpha/Beta	Gross Alpha	1.15E-15	4.02E-15	8.54E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238985	TERM RAIL	04/28/22	Gross Alpha/Beta	Gross Beta	2.75E-14	1.33E-14	1.76E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238986	TERM RAIL	05/02/22	Gross Alpha/Beta	Gross Alpha	0	4.74E-15	1.23E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238986	TERM RAIL	05/02/22	Gross Alpha/Beta	Gross Beta	1.48E-14	1.58E-14	2.53E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238987	TERM RAIL	05/03/22	Gross Alpha/Beta	Gross Alpha	7.13E-15	1.44E-14	2.66E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238987	TERM RAIL	05/03/22	Gross Alpha/Beta	Gross Beta	1.33E-14	3.16E-14	5.49E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238988	TERM RAIL	05/04/22	Gross Alpha/Beta	Gross Alpha	-2.27E-14	6.78E-15	8.46E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238988	TERM RAIL	05/04/22	Gross Alpha/Beta	Gross Beta	-3.19E-14	8.87E-14	1.75E-13	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238989	TERM RAIL	05/09/22	Gross Alpha/Beta	Gross Alpha	4.85E-15	5.99E-15	9.04E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238989	TERM RAIL	05/09/22	Gross Alpha/Beta	Gross Beta	2.52E-14	1.36E-14	1.86E-14	µCi/mL	J	T04, T20	Terminal Railroad Association (General Area)-Perimeter Air
SLD238990	TERM RAIL	05/12/22	Gross Alpha/Beta	Gross Alpha	3.64E-15	5.47E-15	9.04E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238990	TERM RAIL	05/12/22	Gross Alpha/Beta	Gross Beta	5.06E-14	1.66E-14	1.86E-14	µCi/mL	=		Terminal Railroad Association (General Area)-Perimeter Air
SLD238991	TERM RAIL	05/17/22	Gross Alpha/Beta	Gross Alpha	2.08E-14	2.57E-14	3.88E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238991	TERM RAIL	05/17/22	Gross Alpha/Beta	Gross Beta	1.95E-14	4.60E-14	8.00E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238992	TERM RAIL	05/18/22	Gross Alpha/Beta	Gross Alpha	0	7.28E-15	1.88E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD238992	TERM RAIL	05/18/22	Gross Alpha/Beta	Gross Beta	1.44E-14	2.31E-14	3.88E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257545	TERM RAIL	06/15/22	Gross Alpha/Beta	Gross Alpha	-1.90E-15	1.02E-14	2.83E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257545	TERM RAIL	06/15/22	Gross Alpha/Beta	Gross Beta	1.18E-14	3.99E-14	6.94E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257546	TERM RAIL	06/20/22	Gross Alpha/Beta	Gross Alpha	1.63E-15	1.26E-14	2.87E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257546	TERM RAIL	06/20/22	Gross Alpha/Beta	Gross Beta	4.17E-14	4.38E-14	7.04E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257547	TERM RAIL	06/21/22	Gross Alpha/Beta	Gross Alpha	8.02E-15	1.15E-14	1.87E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257547	TERM RAIL	06/21/22	Gross Alpha/Beta	Gross Beta	2.72E-14	2.85E-14	4.59E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257548	TERM RAIL	06/22/22	Gross Alpha/Beta	Gross Alpha	2.76E-15	7.66E-15	1.52E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257548	TERM RAIL	06/22/22	Gross Alpha/Beta	Gross Beta	2.82E-14	2.39E-14	3.74E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD257549	TERM RAIL	06/27/22	Gross Alpha/Beta	Gross Alpha	1.75E-14	1.49E-14	1.89E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD257549	TERM RAIL	06/27/22	Gross Alpha/Beta	Gross Beta	1.54E-14	2.74E-14	4.63E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257550	TERM RAIL	07/07/22	Gross Alpha/Beta	Gross Alpha	1.66E-15	4.61E-15	9.17E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257550	TERM RAIL	07/07/22	Gross Alpha/Beta	Gross Beta	9.66E-15	1.36E-14	2.25E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257557	TERM RAIL	07/13/22	Gross Alpha/Beta	Gross Alpha	9.60E-17	3.33E-15	8.50E-15	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257557	TERM RAIL	07/13/22	Gross Alpha/Beta	Gross Beta	-5.52E-15	9.19E-15	1.86E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257558	TERM RAIL	07/18/22	Gross Alpha/Beta	Gross Alpha	-6.47E-15	1.97E-15	2.48E-14	µCi/mL	UJ	T06	Terminal Railroad Association (General Area)-Perimeter Air
SLD257558	TERM RAIL	07/18/22	Gross Alpha/Beta	Gross Beta	5.24E-14	3.66E-14	5.42E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD257559	TERM RAIL	07/19/22	Gross Alpha/Beta	Gross Alpha	1.17E-14	1.00E-14	1.22E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air
SLD257559	TERM RAIL	07/19/22	Gross Alpha/Beta	Gross Beta	2.57E-14	1.79E-14	2.66E-14	µCi/mL	UJ	T04, T05	Terminal Railroad Association (General Area)-Perimeter Air

Table C-3. Perimeter Air Data Results for CY 2022 (Continued)

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD257574	TERM RAIL	08/08/22	Gross Alpha/Beta	Gross Alpha	7.08E-15	7.30E-15	1.04E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257574	TERM RAIL	08/08/22	Gross Alpha/Beta	Gross Beta	1.96E-14	1.54E-14	2.38E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257575	TERM RAIL	08/09/22	Gross Alpha/Beta	Gross Alpha	7.09E-15	8.31E-15	1.26E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257575	TERM RAIL	08/09/22	Gross Alpha/Beta	Gross Beta	1.81E-14	1.80E-14	2.87E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257576	TERM RAIL	08/10/22	Gross Alpha/Beta	Gross Alpha	-3.13E-16	8.87E-15	2.17E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257576	TERM RAIL	08/10/22	Gross Alpha/Beta	Gross Beta	-1.72E-14	2.54E-14	4.96E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257577	TERM RAIL	08/11/22	Gross Alpha/Beta	Gross Alpha	-1.83E-15	4.75E-15	1.41E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257577	TERM RAIL	08/11/22	Gross Alpha/Beta	Gross Beta	2.23E-14	2.04E-14	3.22E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257578	TERM RAIL	08/15/22	Gross Alpha/Beta	Gross Alpha	-8.08E-16	2.29E-14	5.59E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257578	TERM RAIL	08/15/22	Gross Alpha/Beta	Gross Beta	1.05E-13	8.27E-14	1.28E-13	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257579	TERM RAIL	08/18/22	Gross Alpha/Beta	Gross Alpha	7.44E-15	1.03E-14	1.66E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257579	TERM RAIL	08/18/22	Gross Alpha/Beta	Gross Beta	3.38E-14	2.48E-14	3.79E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257580	TERM RAIL	08/22/22	Gross Alpha/Beta	Gross Alpha	2.23E-15	5.38E-15	1.03E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257580	TERM RAIL	08/22/22	Gross Alpha/Beta	Gross Beta	2.09E-14	1.53E-14	2.35E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257581	TERM RAIL	08/23/22	Gross Alpha/Beta	Gross Alpha	1.70E-14	1.44E-14	1.86E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257581	TERM RAIL	08/23/22	Gross Alpha/Beta	Gross Beta	2.82E-14	2.68E-14	4.26E-14	µCi/mL	UJ	T04, T05	Term Rail (General Area)-Perimeter Air
SLD257582	TERM RAIL	08/24/22	Gross Alpha/Beta	Gross Alpha	2.76E-15	1.28E-14	2.72E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257582	TERM RAIL	08/24/22	Gross Alpha/Beta	Gross Beta	1.28E-14	3.60E-14	6.23E-14	µCi/mL	UJ	T06	Term Rail (General Area)-Perimeter Air
SLD257614	TERM RAIL	10/05/22	Gross Alpha/Beta	Gross Alpha	1.24E-14	9.45E-15	1.13E-14	µCi/mL	J	T04, T20	Term Rail (General Area)-Perimeter Air
SLD257614	TERM RAIL	10/05/22	Gross Alpha/Beta	Gross Beta	3.37E-14	1.86E-14	2.68E-14	µCi/mL	J	T04, T20	Term Rail (General Area)-Perimeter Air

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

F01 - Sample data were qualified as a result of the method blank.

J01 - Duplicate RPD/NAD was outside the control limit.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainty 50 to 100 percent of the result.

Table C-4. Radon-222 Results for CY 2022

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS258827	BA-1	07/05/22	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
HIS265490	BA-1	01/04/23	Radiological	Rn-222	0.14	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258842	DA-3	07/05/22	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265481	DA-3	01/04/23	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258843	DA-7	07/05/22	Radiological	Rn-222	0.08	0	0.08	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265482	DA-7	01/04/23	Radiological	Rn-222	0.24	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258844	DA-8	07/05/22	Radiological	Rn-222	0.11	0	0.11	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265483	DA-8	01/04/23	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258844-1	DA-8 dup	07/05/22	Radiological	Rn-222	0.11	0	0.11	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265483-1	DA-8 dup	01/04/23	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258845	DA-9	07/05/22	Radiological	Rn-222	0.11	0	0.11	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265484	DA-9	01/04/23	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258846	DA-10	07/05/22	Radiological	Rn-222	0.11	0	0.11	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265485	DA-10	01/04/23	Radiological	Rn-222	0.14	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258847	DA-11	07/05/22	Radiological	Rn-222	0.08	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265486	DA-11	01/04/23	Radiological	Rn-222	0.19	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258848	DA-12	07/05/22	Radiological	Rn-222	0.16	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265487	DA-12	01/04/23	Radiological	Rn-222	0.22	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258849	DA-13	07/05/22	Radiological	Rn-222	0.16	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265488	DA-13	01/04/23	Radiological	Rn-222	0.19	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022
SLD258850	DI-1	07/05/22	Radiological	Rn-222	0.35	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2022
SLD265489	DI-1	01/04/23	Radiological	Rn-222	0.62	0	0.08	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2022

VQs:

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Code:

Y01 - FUSRAP Only: Not enough supporting documentation to perform validation.

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX D

STORMWATER, WASTEWATER, AND EXCAVATION WATER DATA

THIS PAGE INTENTIONALLY LEFT BLANK

Table D-1. Self-Monitoring Report for Excavation Water Discharge During CY 2022
First Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK625	01/04/22 - 01/19/22 (Gunther Salt)	68.1	pCi/L	88,742	2.3E-05	3,000	pCi/L	0.03
Gross Beta			40.4	pCi/L		1.4E-05	NA		
Th-228			<1	pCi/L		1.6E-07	2,000	pCi/L	
Th-230			1.9	pCi/L		6.4E-07	1,000	pCi/L	
Th-232			<1	pCi/L		1.6E-07	300	pCi/L	
Uranium (KPA)			72.7	pCi/L		2.4E-05	3,000	pCi/L	
Ra-226[c]			1.5	pCi/L		4.9E-07	10	pCi/L	
Ra-228[d,e]			<1	pCi/L		1.6E-07	30	pCi/L	
TSS			44.2	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK626	02/01/22 - 02/17/22 (Gunther Salt)	<11.3	pCi/L	97,456	2.1E-06	3,000	pCi/L	0.01
Gross Beta			<13.1	pCi/L		2.4E-06	NA		
Th-228			<1.1	pCi/L		2.0E-07	2,000	pCi/L	
Th-230			3.2	pCi/L		1.2E-06	1,000	pCi/L	
Th-232			<0.6	pCi/L		1.0E-07	300	pCi/L	
Uranium (KPA)			<15.2	pCi/L		2.8E-06	3,000	pCi/L	
Ra-226[c]			<1.4	pCi/L		2.5E-07	10	pCi/L	
Ra-228[d,e]			<1.1	pCi/L		2.0E-07	30	pCi/L	
TSS			199.5	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK627	03/02/22 - 03/31/22 (Gunther Salt)	26.3	pCi/L	193,583	1.9E-05	3,000	pCi/L	0.02
Gross Beta			21.1	pCi/L		1.5E-05	NA		
Th-228			0.8	pCi/L		5.6E-07	2,000	pCi/L	
Th-230			2.9	pCi/L		2.1E-06	1,000	pCi/L	
Th-232			<0.6	pCi/L		2.1E-07	300	pCi/L	
Uranium (KPA)			30.4	pCi/L		2.2E-05	3,000	pCi/L	
Ra-226[c]			<1	pCi/L		3.8E-07	10	pCi/L	
Ra-228[d,e]			0.8	pCi/L		5.6E-07	30	pCi/L	
TSS			215.5	mg/L		-	-		

Total Activity Discharged in First Quarter of CY 2022 (Ci)

Th-228	9.2E-07
Th-230	3.9E-06
Th-232	4.7E-07
Uranium (KPA)	5.0E-05
Ra-226	1.1E-06
Ra-228[d]	9.2E-07

Total Activity Discharged through 03/31/22 (Ci)

Th-228	9.2E-07
Th-230	3.9E-06
Th-232	4.7E-07
Uranium (KPA)	5.0E-05
Ra-226	1.1E-06
Ra-228[d]	9.2E-07

Total Volume Discharged in First Quarter of CY 2022 (gallons)

Gallons	379,781

Total Volume Discharged through 03/31/22 (gallons)

Gallons	379,781

[a] Non-detect sample results are converted to half the DL.

[b] The weighted average was used to calculate the total activity.

[c] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[d] Ra-228 assumed to be in equilibrium with Th-228.

[e] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit

KPA - kinetic phosphorescence analysis

NA - not applicable

SOR - sum of ratios

TSS - total suspended solid(s)

Table D-1. Self-Monitoring Report for Excavation Water Discharge During CY 2022 (Continued)
Second Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK628	04/07/22 - 04/28/22 (Gunther Salt)	28.4	pCi/L	81,997	8.8E-06	3,000	pCi/L	0.01
Gross Beta			13.8	pCi/L		4.3E-06	NA		
Th-228			<0.8	pCi/L		1.2E-07	2,000	pCi/L	
Th-230			1.0	pCi/L		3.2E-07	1,000	pCi/L	
Th-232			<0.7	pCi/L		1.0E-07	300	pCi/L	
Uranium (KPA)			27.3	pCi/L		8.5E-06	3,000	pCi/L	
Ra-226[c]			<1.4	pCi/L		2.1E-07	10	pCi/L	
Ra-228[d,e]			<0.8	pCi/L		1.2E-07	30	pCi/L	
TSS			23.8	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK629	05/04/22 - 05/26/22 (Gunther Salt)	58.9	pCi/L	219,107	4.9E-05	3,000	pCi/L	0.03
Gross Beta			44.3	pCi/L		3.7E-05	NA		
Th-228			<0.9	pCi/L		3.7E-07	2,000	pCi/L	
Th-230			2.9	pCi/L		2.4E-06	1,000	pCi/L	
Th-232			<0.9	pCi/L		3.7E-07	300	pCi/L	
Uranium (KPA)			63.8	pCi/L		5.3E-05	3,000	pCi/L	
Ra-226[c]			<1.7	pCi/L		7.0E-07	10	pCi/L	
Ra-228[d,e]			<0.9	pCi/L		3.7E-07	30	pCi/L	
TSS			161.8	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK630	06/02/22 - 06/30/22 (Gunther Salt)	68.1	pCi/L	95,422	2.5E-05	3,000	pCi/L	0.03
Gross Beta			41.3	pCi/L		1.5E-05	NA		
Th-228			2.0	pCi/L		7.2E-07	2,000	pCi/L	
Th-230			3.1	pCi/L		1.1E-06	1,000	pCi/L	
Th-232			<0.8	pCi/L		1.5E-07	300	pCi/L	
Uranium (KPA)			62.8	pCi/L		2.3E-05	3,000	pCi/L	
Ra-226[c]			<0.9	pCi/L		1.6E-07	10	pCi/L	
Ra-228[d,e]			2.0	pCi/L		7.2E-07	30	pCi/L	
TSS			23.3	mg/L		-	-		

Total Activity Discharged in Second Quarter of CY 2022 (Ci)

Th-228	1.2E-06
Th-230	3.8E-06
Th-232	6.2E-07
Uranium (KPA)	8.4E-05
Ra-226	1.1E-06
Ra-228[d]	1.2E-06

Total Activity Discharged through 06/30/22 (Ci)

Th-228	2.1E-06
Th-230	7.8E-06
Th-232	1.1E-06
Uranium (KPA)	1.3E-04
Ra-226	2.2E-06
Ra-228[d]	2.1E-06

Total Volume Discharged in Second Quarter of CY 2022 (gallons)

Gallons	396,526

Total Volume Discharged through 06/30/22 (gallons)

Gallons	776,307

[a] Non-detect sample results are converted to half the DL.

[b] The weighted average was used to calculate the total activity.

[c] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[d] Ra-228 assumed to be in equilibrium with Th-228.

[e] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
KPA - kinetic phosphorescence analysis
NA - not applicable
SOR - sum of ratios
TSS - total suspended solid(s)

Table D-1. Self-Monitoring Report for Excavation Water Discharge During CY 2022 (Continued)
Third Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK631	07/07/22 - 07/29/22 (Gunther Salt)	27.4	pCi/L	254,854	2.6E-05	3,000	pCi/L	0.01
Gross Beta			23.5	pCi/L		2.3E-05	NA		
Th-228			<0.9	pCi/L		4.5E-07	2,000	pCi/L	
Th-230			3.2	pCi/L		3.0E-06	1,000	pCi/L	
Th-232			<0.7	pCi/L		3.1E-07	300	pCi/L	
Uranium (KPA)			<25.3	pCi/L		1.2E-05	3,000	pCi/L	
Ra-226[c]			<0.9	pCi/L		4.1E-07	10	pCi/L	
Ra-228[d,e]			<0.9	pCi/L		4.5E-07	30	pCi/L	
TSS			274.6	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK632	08/04/22 - 08/31/22 (Gunther Salt)	25.5	pCi/L	63,340	6.1E-06	3,000	pCi/L	0.02
Gross Beta			23.4	pCi/L		5.6E-06	NA		
Th-228			<1.2	pCi/L		1.5E-07	2,000	pCi/L	
Th-230			3.9	pCi/L		9.3E-07	1,000	pCi/L	
Th-232			<0.8	pCi/L		9.1E-08	300	pCi/L	
Uranium (KPA)			26.7	pCi/L		6.4E-06	3,000	pCi/L	
Ra-226[c]			<1.2	pCi/L		1.5E-07	10	pCi/L	
Ra-228[d,e]			<1.2	pCi/L		1.5E-07	30	pCi/L	
TSS			289.6	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK633	09/05/22 - 09/27/22 (Gunther Salt)	32.9	pCi/L	73,046	9.1E-06	3,000	pCi/L	0.02
Gross Beta			15.2	pCi/L		4.2E-06	NA		
Th-228			0.9	pCi/L		2.5E-07	2,000	pCi/L	
Th-230			1.4	pCi/L		3.9E-07	1,000	pCi/L	
Th-232			<0.6	pCi/L		8.3E-08	300	pCi/L	
Uranium (KPA)			37.3	pCi/L		1.0E-05	3,000	pCi/L	
Ra-226[c]			<1.6	pCi/L		2.2E-07	10	pCi/L	
Ra-228[d,e]			0.9	pCi/L		2.5E-07	30	pCi/L	
TSS			29.7	mg/L		-	-		

Total Activity Discharged in Third Quarter of CY 2022 (Ci)

Th-228	8.4E-07
Th-230	4.4E-06
Th-232	4.9E-07
Uranium (KPA)	2.9E-05
Ra-226	7.8E-07
Ra-228[d]	8.4E-07

Total Activity Discharged through 09/30/22 (Ci)

Th-228	3.0E-06
Th-230	1.2E-05
Th-232	1.6E-06
Uranium (KPA)	1.6E-04
Ra-226	3.0E-06
Ra-228[d]	3.0E-06

Total Volume Discharged in Third Quarter of CY 2022 (gallons)

Gallons	391,240

Total Volume Discharged through 09/30/22 (gallons)

Gallons	1,167,547

[a] Non-detect sample results are converted to half the DL.

[b] The weighted average was used to calculate the total activity.

[c] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[d] Ra-228 assumed to be in equilibrium with Th-228.

[e] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
KPA - kinetic phosphorescence analysis
NA - not applicable
SOR - sum of ratios
TSS - total suspended solid(s)

Table D-1. Self-Monitoring Report for Excavation Water Discharge During CY 2022 (Continued)
Fourth Quarter

Parameter	Batch Number	Date of Discharge	Batch Results[a]		Amount Discharged (Gallons)	Total Activity per Discharge (Ci)[b]	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK634	10/06/22 - 10/31/22 (Gunther Salt)	18.3	pCi/L	121,337	8.4E-06	3,000	pCi/L	0.01
Gross Beta			22	pCi/L		9.9E-06	NA		
Th-228			<0.5	pCi/L		1.2E-07	2,000	pCi/L	
Th-230			1.5	pCi/L		7.0E-07	1,000	pCi/L	
Th-232			<0.6	pCi/L		1.3E-07	300	pCi/L	
Uranium (KPA)			22.3	pCi/L		1.0E-05	3,000	pCi/L	
Ra-226[c]			<0.8	pCi/L		1.8E-07	10	pCi/L	
Ra-228[d,e]			<0.5	pCi/L		1.2E-07	30	pCi/L	
TSS			170.2	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK635	11/07/22 - 11/28/22 (Gunther Salt)	28.2	pCi/L	56,114	6.0E-06	3,000	pCi/L	0.01
Gross Beta			15.7	pCi/L		3.3E-06	NA		
Th-228			<0.8	pCi/L		8.5E-08	2,000	pCi/L	
Th-230			1	pCi/L		2.8E-07	1,000	pCi/L	
Th-232			<0.7	pCi/L		7.3E-08	300	pCi/L	
Uranium (KPA)			30.8	pCi/L		6.5E-06	3,000	pCi/L	
Ra-226[c]			<0.7	pCi/L		7.9E-08	10	pCi/L	
Ra-228[d,e]			<0.8	pCi/L		8.5E-08	30	pCi/L	
TSS			16.0	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK636	12/12/22 - 12/29/22 (Gunther Salt)	19.7	pCi/L	53,993	4.0E-06	3,000	pCi/L	0.01
Gross Beta			13.4	pCi/L		2.7E-06	NA		
Th-228			<0.7	pCi/L		7.6E-08	2,000	pCi/L	
Th-230			2.2	pCi/L		4.5E-07	1,000	pCi/L	
Th-232			<0.5	pCi/L		4.9E-08	300	pCi/L	
Uranium (KPA)			21.0	pCi/L		4.3E-06	3,000	pCi/L	
Ra-226[c]			<0.9	pCi/L		8.8E-08	10	pCi/L	
Ra-228[d,e]			<0.7	pCi/L		7.6E-08	30	pCi/L	
TSS			51.5	mg/L		-	-		

Total Activity Discharged in Fourth Quarter of CY 2022 (Ci)

Th-228	2.8E-07
Th-230	1.4E-06
Th-232	2.5E-07
Uranium (KPA)	2.1E-05
Ra-226	3.4E-07
Ra-228[d]	2.8E-07

Total Activity Discharged through 12/31/22 (Ci)

Th-228	3.3E-06
Th-230	1.4E-05
Th-232	1.8E-06
Uranium (KPA)	1.8E-04
Ra-226	3.3E-06
Ra-228[d]	3.3E-06

Total Volume Discharged in Fourth Quarter of CY 2022 (gallons)

Gallons	231,444

Total Volume Discharged through 12/31/22 (gallons)

Gallons	1,398,991

[a] Non-detect sample results are converted to half the DL.

[b] The weighted average was used to calculate the total activity.

[c] 10 *CFR* 20 limit is 600 pCi/L for Ra-226.

[d] Ra-228 assumed to be in equilibrium with Th-228.

[e] 10 *CFR* 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
KPA - kinetic phosphorescence analysis
NA - not applicable
SOR - sum of ratios
TSS - total suspended solid(s)

ATTACHMENT D-1

DAILY DISCHARGE LIMIT INCREASE APPROVAL EMAIL, DATED JULY 26, 2022

THIS PAGE INTENTIONALLY LEFT BLANK

-----Original Message-----
From: Adams, Susan L CIV USARMY CEMVS (USA) <Susan.L.Adams@usace.army.mil>
Sent: Tuesday, July 26, 2022 12:11 PM
To: Kriete, Dale <Dale.Kriete@aptim.com>; Hodapp, Ryan M <ryan.hodapp@aptim.com>; Neil DeYong <ndeyong@hgl.com>; Stewart, Zackary <zstewart@hgl.com>; dthompson@hgl.com
Cc: ALGUTIFAN, FAISAL H CIV USARMY CEMVS (USA) <Faisal.H.Algutifan@usace.army.mil>; aweiss@pe-engrs.com; Evans, David M CIV USARMY CEMVS (USA) <David.M.Evans@usace.army.mil>; Skoba, Gwenan <gskoba@hgl.com> Subject: FW: SLDS Discharge

Please see MSD approval below to increase the daily limit to 150,000 gallons. Thanks,

Susan Adams
Contracting Officer's Representative
114 James S. McDonnell Blvd
Hazelwood, MO 63042
Office: 314-260-3930
Cell: 314-422-7205

-----Original Message-----
From: Steve Grace <sgrace@stlmsd.com>
Sent: Tuesday, July 26, 2022 11:56 AM
To: 'Skoba, Gwenan' <gskoba@hgl.com>
Cc: Evans, David M CIV USARMY CEMVS (USA) <David.M.Evans@usace.army.mil>; Adams, Susan L CIV USARMY CEMVS (USA) <Susan.L.Adams@usace.army.mil>; ALGUTIFAN, FAISAL H CIV USARMY CEMVS (USA) <Faisal.H.Algutifan@usace.army.mil>; DeYong, Neil <ndeyong@hgl.com>; Brian G. Gibson <bgibson@stlmsd.com> Subject: [Non-DoD Source] RE: SLDS Discharge

Hello Gwenan,

Your request for the daily limit increase is approved. If you guys start building an ark, save me a seat, lol 😊!

Steve Grace

-----Original Message-----
From: Skoba, Gwenan <gskoba@hgl.com>
Sent: Tuesday, July 26, 2022 11:36 AM
To: Steve Grace <sgrace@stlmsd.com>
Cc: Dave Evans <David.M.Evans@usace.army.mil>; susan.l.adams@usace.army.mil; Faisal.H.Algutifan@usace.army.mil; DeYong, Neil <ndeyong@hgl.com>
Subject: SLDS Discharge

Hello Steve,
SLDS received over 7 inches of rain. Would it be possible to increase our daily limit to 150,000 gallons so we can get discharge the excess water on-site for the next few days.

Please let me know if you have any questions/concerns.

Thank you!

Gwenan Skoba
Principal Regulatory Specialist HGL
St. Louis FUSRAP
110 James S. McDonnell Blvd
Hazelwood, MO 63042
636.578.1353
gskoba@hgl.com

APPENDIX E

GROUNDWATER FIELD PARAMETER DATA FOR CALENDAR YEAR 2022 AND ANALYTICAL DATA RESULTS FOR CALENDAR YEAR 2022

THIS PAGE INTENTIONALLY LEFT BLANK

Table E-1. Groundwater Monitoring Field Parameters
First Quarter 2022

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 02/16/22
B16W06D	---	---	---	---	---	---	---	---	---	---	39.89
B16W06S	---	---	---	---	---	---	---	---	---	---	37.34
B16W07D	---	---	---	---	---	---	---	---	---	---	42.40
B16W08D	---	---	---	---	---	---	---	---	---	---	42.43
B16W08S	---	---	---	---	---	---	---	---	---	---	35.70
B16W09D	---	---	---	---	---	---	---	---	---	---	38.22
B16W12S	---	---	---	---	---	---	---	---	---	---	18.26
DW14	---	---	---	---	---	---	---	---	---	---	*
DW15	---	---	---	---	---	---	---	---	---	---	43.93
DW16	---	---	---	---	---	---	---	---	---	---	**
DW17	---	---	---	---	---	---	---	---	---	---	**
DW18	---	---	---	---	---	---	---	---	---	---	43.89
DW19RD	---	---	---	---	---	---	---	---	---	---	39.55
DW19RS	---	---	---	---	---	---	---	---	---	---	**
DW21	02/16/22	50	600	6.76	6.05	7.4	0.00	15.71	-105	13.65	13.23

Table E-1. Groundwater Monitoring Field Parameters (Continued)
Second Quarter 2022

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 05/19/22
B16W06D	05/23/22	200	3,000	6.81	5.91	26.5	0.00	16.53	-123	20.13	21.46
B16W06S	05/23/22	100	1,200	7.12	1.22	61.9	0.00	16.60	-174	22.67	22.23
B16W07D	---	---	---	---	---	---	---	---	---	---	23.69
B16W08D	05/23/22	300	2,700	6.93	1.97	21.9	0.00	16.48	-151	22.75	23.90
B16W08S	05/23/22	70	630	6.90	1.31	21.1	0.00	16.28	-46	21.24	20.76
B16W09D	---	---	---	---	---	---	---	---	---	---	19.40
B16W12S	---	---	---	---	---	---	---	---	---	---	14.60
DW14	---	---	---	---	---	---	---	---	---	---	18.61
DW15	---	---	---	---	---	---	---	---	---	---	25.07
DW16	---	---	---	---	---	---	---	---	---	---	20.59
DW17	---	---	---	---	---	---	---	---	---	---	22.78
DW18	---	---	---	---	---	---	---	---	---	---	25.16
DW19RD	---	---	---	---	---	---	---	---	---	---	20.62
DW19RS	05/19/22	50	750	6.95	3.35	84.8	0.00	17.23	-160	17.30	16.98
DW21	---	---	---	---	---	---	---	---	---	---	9.82

Table E-1. Groundwater Monitoring Field Parameters (Continued)
Third Quarter 2022

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 08/25/22
B16W06D	---	---	---	---	---	---	---	---	---	---	38.79
B16W06S	---	---	---	---	---	---	---	---	---	---	35.18
B16W07D	---	---	---	---	---	---	---	---	---	---	40.60
B16W08D	---	---	---	---	---	---	---	---	---	---	41.08
B16W08S	---	---	---	---	---	---	---	---	---	---	33.29
B16W09D	---	---	---	---	---	---	---	---	---	---	36.02
B16W12S	---	---	---	---	---	---	---	---	---	---	14.61
DW14	---	---	---	---	---	---	---	---	---	---	**
DW15	08/25/22	250	3,000	6.76	4.71	40.3	0.00	18.81	-156	41.57	41.57
DW16	---	---	---	---	---	---	---	---	---	---	37.20
DW17	---	---	---	---	---	---	---	---	---	---	**
DW18	---	---	---	---	---	---	---	---	---	---	42.30
DW19RD	---	---	---	---	---	---	---	---	---	---	37.25
DW19RS	---	---	---	---	---	---	---	---	---	---	24.94
DW21	---	---	---	---	---	---	---	---	---	---	9.05

Table E-1. Groundwater Monitoring Field Parameters (Continued)
Fourth Quarter 2022

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 11/16/22
B16W06D	---	---	---	---	---	---	---	---	---	---	40.00
B16W06S	11/16/22	100	900	7.09	1.22	29.1	0.00	14.65	-159	37.18	36.54
B16W07D	---	---	---	---	---	---	---	---	---	---	42.75
B16W08D	---	---	---	---	---	---	---	---	---	---	42.65
B16W08S	---	---	---	---	---	---	---	---	---	---	35.14
B16W09D	---	---	---	---	---	---	---	---	---	---	38.68
B16W12S	11/16/22	80	720	6.54	1.47	28.7	0.18	13.78	51	17.72	17.46
DW14	---	---	---	---	---	---	---	---	---	---	**
DW15	---	---	---	---	---	---	---	---	---	---	44.40
DW16	---	---	---	---	---	---	---	---	---	---	**
DW17	---	---	---	---	---	---	---	---	---	---	**
DW18	11/16/22	300	3,600	7.07	2.30	13.7	0.00	15.37	-187	44.13	44.13
DW19RD	11/16/22	150	1,800	6.93	2.06	29.5	0.00	16.13	-136	39.96	39.96
DW19RS	---	---	---	---	---	---	---	---	---	---	**
DW21	---	---	---	---	---	---	---	---	---	---	11.34

* Measurement could not be taken at DW14 during the first quarter of 2022 because well was inaccessible.

** Measurement could not be taken because water level was below the top of bladder pump at DW16, DW17, and DW19RS during the first quarter of 2022; at DW14 and DW17 during the third quarter of 2022; and at DW14, DW16, DW17, and DW19RS during the fourth quarter of 2022.

--- Monitoring well was not sampled during this event.

BTOC - below top of casing

DO - dissolved oxygen

ORP - oxidation reduction potential

Table E-2. CY 2022 Groundwater Sampling Data

Site: SLDS											
Sample Name	**Station Name**	**Sample Collect Date**	**Analytical Method**	**Analyte**	**Analytical Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLD256698	B16W06D	05/23/22	ML-006	Ra-226	0.567	0.5	0.695	pCi/L	UJ	T04, T05	No
SLD256698	B16W06D	05/23/22	ML-005	Th-228	0.321	0.341	0.575	pCi/L	UJ	T06	No
SLD256698	B16W06D	05/23/22	ML-005	Th-230	0.727	0.456	0.359	pCi/L	J	F01, T04, T20	No
SLD256698	B16W06D	05/23/22	ML-005	Th-232	0.253	0.273	0.358	pCi/L	UJ	T06	No
SLD256698	B16W06D	05/23/22	ML-015	U-234	0.22	0.313	0.617	pCi/L	UJ	T06	No
SLD256698	B16W06D	05/23/22	ML-015	U-235	0	0.256	0.667	pCi/L	UJ	T06	No
SLD256698	B16W06D	05/23/22	ML-015	U-238	0.0366	0.164	0.493	pCi/L	UJ	T06	No
SLD256698	B16W06D	05/23/22	SW846 6020	Arsenic	1		0.33	µg/L	=		No
SLD256698	B16W06D	05/23/22	SW846 6020	Cadmium	0.56		0.27	µg/L	=		No
SLD256699	B16W06S	05/23/22	ML-006	Ra-226	0.543	0.466	0.72	pCi/L	UJ	T04, T05	No
SLD256699	B16W06S	05/23/22	ML-005	Th-228	0.264	0.346	0.705	pCi/L	UJ	T06	No
SLD256699	B16W06S	05/23/22	ML-005	Th-230	0.545	0.379	0.331	pCi/L	J	F01, T04, T20	No
SLD256699	B16W06S	05/23/22	ML-005	Th-232	0.11	0.179	0.33	pCi/L	UJ	T06	No
SLD256699	B16W06S	05/23/22	ML-015	U-234	0.00	0.225	0.585	pCi/L	UJ	T06	No
SLD256699	B16W06S	05/23/22	ML-015	U-235	-0.049	0.219	0.66	pCi/L	UJ	T06	No
SLD256699	B16W06S	05/23/22	ML-015	U-238	0	0.224	0.582	pCi/L	UJ	T06	No
SLD264421	B16W06S	11/16/22	SW846 6020	Arsenic	130		1.6	µg/L	=		No
SLD264421	B16W06S	11/16/22	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SLD256700	B16W08D	05/23/22	ML-006	Ra-226	0.625	0.613	0.92	pCi/L	UJ	T04, T05	No
SLD256700	B16W08D	05/23/22	ML-005	Th-228	0.468	0.372	0.514	pCi/L	UJ	T04, T05	No
SLD256700	B16W08D	05/23/22	ML-005	Th-230	0.831	0.461	0.321	pCi/L	J	F01, T04, T20	No
SLD256700	B16W08D	05/23/22	ML-005	Th-232	-0.0302	0.128	0.385	pCi/L	UJ	T06	No
SLD256700	B16W08D	05/23/22	ML-015	U-234	0.0747	0.211	0.55	pCi/L	UJ	T06	No
SLD256700	B16W08D	05/23/22	ML-015	U-235	0	0.261	0.678	pCi/L	UJ	T06	No
SLD256700	B16W08D	05/23/22	ML-015	U-238	0.26	0.308	0.501	pCi/L	UJ	T06	No
SLD256700	B16W08D	05/23/22	SW846 6020	Arsenic	20		0.33	µg/L	=		No
SLD256700	B16W08D	05/23/22	SW846 6020	Cadmium	0.35		0.27	µg/L	=		No
SLD256701	B16W08S	05/23/22	ML-006	Ra-226	0.167	0.29	0.616	pCi/L	UJ	T06	No
SLD256701	B16W08S	05/23/22	ML-005	Th-228	0.179	0.341	0.784	pCi/L	UJ	T06	No
SLD256701	B16W08S	05/23/22	ML-005	Th-230	0.772	0.485	0.382	pCi/L	J	F01, T04, T20	No
SLD256701	B16W08S	05/23/22	ML-005	Th-232	0.197	0.252	0.381	pCi/L	UJ	T06	No
SLD256701	B16W08S	05/23/22	ML-015	U-234	2.48	1.04	0.655	pCi/L	=		No
SLD256701	B16W08S	05/23/22	ML-015	U-235	0.12	0.339	0.882	pCi/L	UJ	T06	No
SLD256701	B16W08S	05/23/22	ML-015	U-238	1.45	0.792	0.712	pCi/L	J	T04, T20	No
SLD256701	B16W08S	05/23/22	SW846 6020	Arsenic	1.90		0.33	µg/L	=		No
SLD256701	B16W08S	05/23/22	SW846 6020	Cadmium	0.68		0.27	µg/L	=		No

Table E-2. CY 2022 Groundwater Sampling Data (Continued)

Site: SLDS											
Sample Name	**Station Name**	**Sample Collect Date**	**Analytical Method**	**Analyte**	**Analytical Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLD264422	B16W12S	11/16/22	ML-006	Ra-226	0	0.423	1.1	pCi/L	UJ	T06	No
SLD264422	B16W12S	11/16/22	ML-005	Th-228	0.178	0.269	0.551	pCi/L	UJ	T06	No
SLD264422	B16W12S	11/16/22	ML-005	Th-230	0.809	0.476	0.413	pCi/L	J	F01, T04, T20	No
SLD264422	B16W12S	11/16/22	ML-005	Th-232	0.129	0.224	0.475	pCi/L	UJ	T06	No
SLD264422	B16W12S	11/16/22	ML-015	U-234	1.96	0.795	0.535	pCi/L	=		No
SLD264422	B16W12S	11/16/22	ML-015	U-235	0.134	0.262	0.573	pCi/L	UJ	T06	No
SLD264422	B16W12S	11/16/22	ML-015	U-238	1.59	0.713	0.533	pCi/L	=		No
SLD264422	B16W12S	11/16/22	SW846 6020	Arsenic	1.9		1.6	µg/L	=		No
SLD264422	B16W12S	11/16/22	SW846 6020	Cadmium	1.1		0.2	µg/L	J	E01, E08	No
SLD259241	DW15	08/25/22	ML-006	Ra-226	0.31	0.366	0.597	pCi/L	UJ	T06	No
SLD259241	DW15	08/25/22	ML-005	Th-228	0.661	0.46	0.401	pCi/L	J	T04, T20	No
SLD259241	DW15	08/25/22	ML-005	Th-230	0.661	0.461	0.401	pCi/L	J	F01, T04, T20	No
SLD259241	DW15	08/25/22	ML-005	Th-232	0.0755	0.214	0.555	pCi/L	UJ	T06	No
SLD259241	DW15	08/25/22	ML-015	U-234	0.408	0.352	0.377	pCi/L	J	T04, T20	No
SLD259241	DW15	08/25/22	ML-015	U-235	0	0.248	0.644	pCi/L	UJ	T06	No
SLD259241	DW15	08/25/22	ML-015	U-238	0.212	0.283	0.52	pCi/L	UJ	T06	No
SLD259241	DW15	08/25/22	SW846 6020	Arsenic	45		0.33	µg/L	=		No
SLD259241	DW15	08/25/22	SW846 6020	Cadmium	0.4		0.27	µg/L	=		No
SLD264419	DW18	11/16/22	SW846 6020	Arsenic	60		1.6	µg/L	=		No
SLD264419	DW18	11/16/22	SW846 6020	Cadmium	0.26		0.2	µg/L	J	E01, E08	No
SLD264420	DW19RD	11/16/22	ML-006	Ra-226	0.907	0.8	1.11	pCi/L	UJ	T04, T05	No
SLD264420	DW19RD	11/16/22	ML-005	Th-228	0.452	0.335	0.31	pCi/L	J	T04, T20	No
SLD264420	DW19RD	11/16/22	ML-005	Th-230	0.643	0.41	0.43	pCi/L	J	F01, T04, T20	No
SLD264420	DW19RD	11/16/22	ML-005	Th-232	0.0146	0.127	0.421	pCi/L	UJ	T06	No
SLD264420	DW19RD	11/16/22	ML-015	U-234	51.7	6.61	0.526	pCi/L	=		No
SLD264420	DW19RD	11/16/22	ML-015	U-235	2.25	0.947	0.662	pCi/L	=		No
SLD264420	DW19RD	11/16/22	ML-015	U-238	51.1	6.54	0.386	pCi/L	=		No
SLD264420	DW19RD	11/16/22	SW846 6020	Arsenic	20		1.6	µg/L	=		No
SLD264420	DW19RD	11/16/22	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SLD264420-1	DW19RD	11/16/22	ML-006	Ra-226	0.523	0.607	0.953	pCi/L	UJ	T06	No
SLD264420-1	DW19RD	11/16/22	ML-005	Th-228	0.371	0.351	0.55	pCi/L	UJ	T04, T05	No
SLD264420-1	DW19RD	11/16/22	ML-005	Th-230	0.904	0.509	0.475	pCi/L	J	F01, T04, T20	No
SLD264420-1	DW19RD	11/16/22	ML-005	Th-232	0.0483	0.133	0.342	pCi/L	UJ	T06	No
SLD264420-1	DW19RD	11/16/22	ML-015	U-234	52.3	6.67	0.386	pCi/L	=		No
SLD264420-1	DW19RD	11/16/22	ML-015	U-235	3.3	1.15	0.477	pCi/L	=		No
SLD264420-1	DW19RD	11/16/22	ML-015	U-238	48.8	6.3	0.533	pCi/L	=		No

Table E-2. CY 2022 Groundwater Sampling Data (Continued)

Site: SLDS											
Sample Name	**Station Name**	**Sample Collect Date**	**Analytical Method**	**Analyte**	**Analytical Result**	**Measurement Error**	**DL**	**Units**	**VQ**	**Validation Reason Code**	**Filtered**
SLD264420-1	DW19RD	11/16/22	SW846 6020	Arsenic	20		1.6	µg/L	=		No
SLD264420-1	DW19RD	11/16/22	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No
SLD264420-2	DW19RD	11/16/22	SW846 9315 MODL	Ra-226	0.231	0.139	0.187	pCi/L	J	T04, T20	No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	Th-228	-0.0241	0.161	0.334	pCi/L	UJ	T06	No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	Th-230	0.0596	0.244	0.385	pCi/L	UJ	T06	No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	Th-232	0.0308	0.0888	0.187	pCi/L	UJ	T06	No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	U-234	49.6	4.91	0.251	pCi/L	=		No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	U-235	2.47	0.681	0.24	pCi/L	=		No
SLD264420-2	DW19RD	11/16/22	EML A-01-R MOD	U-238	49.2	4.87	0.284	pCi/L	=		No
SLD264420-2	DW19RD	11/16/22	SW846 9320 MODL	Ra-228	1.2	0.508	0.634	pCi/L	=		No
SLD256702	DW19RS	05/19/22	ML-006	Ra-226	0.834	0.716	1.11	pCi/L	UJ	T04, T05	No
SLD256702	DW19RS	05/19/22	ML-005	Th-228	0.583	0.419	0.557	pCi/L	J	T04, T20	No
SLD256702	DW19RS	05/19/22	ML-005	Th-230	1.21	0.565	0.326	pCi/L	J	F01	No
SLD256702	DW19RS	05/19/22	ML-005	Th-232	0.107	0.177	0.326	pCi/L	UJ	T06	No
SLD256702	DW19RS	05/19/22	ML-015	U-234	5.05	1.5	0.689	pCi/L	=		No
SLD256702	DW19RS	05/19/22	ML-015	U-235	0.693	0.616	0.85	pCi/L	UJ	T04, T05	No
SLD256702	DW19RS	05/19/22	ML-015	U-238	3.63	1.25	0.686	pCi/L	=		No
SLD256702	DW19RS	05/19/22	SW846 6020	Arsenic	7.6		0.33	µg/L	=		No
SLD256702	DW19RS	05/19/22	SW846 6020	Cadmium	0.88		0.27	µg/L	=		No
SLD254838	DW21	02/16/22	SW846 6020	Arsenic	81		4	µg/L	=		No
SLD254838	DW21	02/16/22	SW846 6020	Cadmium	0.2		0.2	µg/L	U	E01, E08	No

VQs:

= - Indicates that the data met all QA/QC requirements, and that the parameter has been positively identified and the associated concentration value is accurate.

J - Indicates that the parameter was positively identified; the associated numerical value is the approximate concentration of the parameter in the sample.

U - Indicates that the data met all QA/QC requirements, and that the parameter was analyzed for but was not detected above the reported sample quantitation limit.

UJ - Indicates that the parameter was not detected above the reported sample quantitation limit and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. However, the reported quantitation limit is approximate.

Validation Reason Codes:

E01 - ICP and Furnace Requirements: Interference check sample recovery was outside the control limit.

E08 - ICP and Furnace Requirements: Professional judgement was used to qualify the data.

F01 - Blanks: Sample data were qualified as a result of the method blank.

T04 - Radionuclide Quantitation: Professional judgment was used to qualify the data.

T05 - Radionuclide Quantitation: Analytical result is less than the associated MDA, but greater than the counting uncertainty.

T06 - Radionuclide Quantitation: Analytical result is less than both the associated counting uncertainty and MDA.

T20 - Radionuclide Quantitation: Analytical result is greater than the associated MDA, with uncertainly 50 to 100 percent of the result.

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX F

WELL MAINTENANCE CHECKLISTS FOR THE ANNUAL GROUNDWATER MONITORING WELL INSPECTIONS CONDUCTED IN CALENDAR YEAR 2022

THIS PAGE INTENTIONALLY LEFT BLANK

CALENDAR YEAR 2022 WELL MAINTENANCE CHECKLISTS

THIS PAGE INTENTIONALLY LEFT BLANK

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1040

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W06D

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☐	☒	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-paint and re-label well ID.

Sounding: 82.70', Semi-soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1045

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W06S

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☐	☒	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☐	☒	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Bladder pump is not operational and needs replacement or the portable bladder pump will need to be installed 24 hours before sampling.

Sounding: 45.80', Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0955

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W07D

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☐	☐	☒
15.	Is well bladder pump or dedicated tubing functional and working properly?	☐	☒	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Bladder pump does not operate properly and needs replacement, or the portable bladder pump will need to be installed 24 hours before sampling.

Remark/label well ID.

Sounding: 82.40', Semi-soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0950

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W08D

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Sounding: 75.01', Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0955

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W08S

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Sounding: 40.93', Soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1000

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W09D

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☐	☐	☒
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Sounding: 55.81', Soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0925

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: B16W12S

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-paint and re-label ID.

Sounding: 19.80', Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1035

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW14

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☐	☒	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☐	☐	☒
15.	Is well bladder pump or dedicated tubing functional and working properly?	☐	☒	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☐	☒	☐

Comments/Observations:

Well needs paint and remarking/labeling.

Need to install portable bladder pump 24 hours prior to sampling.

Not permitted to take photographs inside Mallinckrodt plant.

Inaccessible

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0920

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW15

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☐	☒	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Bladder pump is not operable and needs replacement.

Portable bladder pump will need to be installed 24 hours before sampling.
Re-paint and re-label.

Sounding: 63.70', Semi-soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0915

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW16

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☐	☒	☐
10.	Is well pad stable?	☐	☒	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Well pad unstable. Vault and well pad should be replaced.

Re-paint and relabel.

Sounding: 49.52', Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0945

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW17

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Sounding: 46.80', Soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0935

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW18

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☒	☐	☐
2.	Is well identification visible on top of well casing for flush mount well?	☐	☐	☒
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☐	☒	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Bladder pump is not operational and needs replacement or the portable bladder pump will need to be installed 24 hours before sampling.

Re-paint and re-label ID.

Sounding: 58.00', Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1005

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW19RD

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Sounding: 53.25', Semi-soft bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 1015

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW19RS

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☒	☐	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-label ID.

Water level has been below the pump intake the last two attempts to sample this well.

Water level: 27.38’

Sounding: 29.20’, Solid bottom

Well Maintenance Checklist

Name of Observer(s): Lon Hoover & Nathan Gross **Date:** 4/7/22 **Time:** 0915

Property/Location: ☒SLDS ☐SLAPS and Vicinity Properties (VPs) ☐HISS

Monitoring Well Station Identification: DW21

		Yes	No	N/A
1.	Is well identification number visible on outer casing for a stick up well?	☐	☐	☒
2.	Is well identification visible on top of well casing for flush mount well?	☒	☐	☐
3.	Is well accessible?	☒	☐	☐
4.	Is well free of obstructions (i.e. debris, overgrown vegetation, etc.)?	☒	☐	☐
5.	Is well casing free of standing water or debris? If not, remove water.	☒	☐	☐
6.	Is the weep hole open? If not, clear blockage.	☒	☐	☐
7.	Is the protective casing free of dents, damage, rust, or other matter (i.e., bird droppings, wasp nests, etc.)?	☒	☐	☐
8.	Is well riser free of dents or damage?	☒	☐	☐
9.	Is concrete pad intact (i.e. free of major cracks, chips, etc.)?	☐	☒	☐
10.	Is well pad stable?	☒	☐	☐
11.	Is well pad and well casing free of gaps?	☒	☐	☐
12.	Is well and/or pad area free of erosion?	☒	☐	☐
13.	Is riser cap present?	☒	☐	☐
14.	If well is in the Mississippi River and Coldwater Creek floodplain, does it have a properly working pressure cap?	☒	☐	☐
15.	Is well bladder pump or dedicated tubing functional and working properly?	☒	☐	☐
16.	Is the well secure (i.e. shut properly or locked, if applicable)?	☒	☐	☐
17.	Does the lock work properly?	☒	☐	☐
18.	Is lock free of rust?	☒	☐	☐
19.	Does surface water flow away from well casing (i.e., no ponding)?	☒	☐	☐
20.	Is top-of casing (TOC) elevation mark clearly visible?	☒	☐	☐
21.	Is well free from impacts associated with a change in land use or remedial actions? If no, describe in Comments/Observations section below.	☒	☐	☐
22.	Is well ready for the next groundwater monitoring event? If no, describe the type of attention needed in Comments/Observations section below.	☒	☐	☐
23.	Were photographs collected documenting the appearance and condition of the well?	☒	☐	☐

Comments/Observations:

Re-paint and re-label ID.

Well pad cracked but functional.
Sounding: 22.15', Solid bottom

THIS PAGE INTENTIONALLY LEFT BLANK

APPENDIX G

DOSE ASSESSMENT ASSUMPTIONS

THIS PAGE INTENTIONALLY LEFT BLANK

DOSE ASSESSMENT ASSUMPTIONS

DOSE TO A MAXIMALLY EXPOSED INDIVIDUAL

An off-site, worker-based receptor is the most realistic choice to represent the hypothetical maximally exposed individual, because of the proximity of the receptor, approximately 50 m north of the Gunther Salt (DT-4) excavation areas and because of the time the individual will spend at this location. Thus, a realistic assessment of dose can be performed using conservative assumptions of occupancy rate and distance from the source.

The following dose assessment is for a maximally exposed individual who works full-time (2,000 hours per year) at a location approximately 50 m north of the Gunther Salt (DT-4) excavation areas.

Airborne Radioactive Particulates

An EDE of <0.1 mrem per year to the receptor was calculated by using activity fractions to determine a source term, and then combining the dose results for all SLDS excavation areas. The USEPA CAP88-PC modeling code was used to calculate dose to the receptor from the SLDS excavation and loadout areas (Leidos 2023b). The distances and directions of the maximally exposed receptor from the excavated areas are presented on Figure B-1 of Appendix B. Details related to calculation of EDE for the maximally exposed receptor are contained in Appendix B.

External Gamma Pathway

Stations DA-8, DA-9, and DA-10 were close to the receptor, the average TLD results from these locations were used for the dose calculations. The station DA-8, DA-9, and DA-10 TLDs measured an average annual exposure, above background, of 11.0 mrem per year, based on 8,760 hours of continuous detector exposure. The EDE due to gamma exposure for the maximally exposed individual is estimated by assuming that the site approximates a line source with a source strength (H_1) that is the average of the TLD measurements between the source and the receptor (Cember 1996).

$$H_1 = 11.0 \text{ mrem/year}$$

Based on 100 percent occupancy rate, the exposure rate (H_2) to the receptor was calculated as follows:

$$H_2 = H_1 \times \frac{h_1}{h_2} \times \frac{\tan^{-1}(L/h_2)}{\tan^{-1}(L/h_1)}$$

$$H_2 = 0.11 \text{ mrem/year}$$

where:

- H_2 = exposure rate to the receptor
- H_1 = exposure rate to the TLDs
- h_2 = distance from the source to the receptor = 50 m
- h_1 = distance from the source to the TLDs = 1.6 m
- L = average distance from centerline of the line source (H_1) to the end of the line source = 25 m

The actual dose to the maximally exposed individual, who is only present during a normal work year, is calculated as follows:

$$H_{MEI} = H_2 \times \frac{2{,}000 \text{ hours/work year}}{8{,}760 \text{ hours/total year}}$$

$$H_{MEI} = 0.03 \text{ mrem/year}$$

Airborne Radon Pathway

The radon data from Station DA-9 was used to determine dose due to radon and decay chain isotopes since this was the maximum measurement detected above background near the excavation. Appendix C presents the radon results at all stations. Station DA-9 ATDs measured annual exposures above background of 0.06 pCi/L based on 8,760 hours of continuous exposure.

$$S_1 = \left[\frac{(0.06)\ pCi/L}{1}\right] = 0.06 \text{ pCi/L}$$

The actual radon exposure dose to the hypothetical maximally exposed individual was calculated as follows:

$$S_{MEI} = S_1 \times F \times DCF \times T \times C_1 \times C_2$$

$$S_{MEI} = 2.7 \text{ mrem/year}$$

where:

- S_1 = fenceline average of ATD measurements between source and receptor
- S_{MEI} = radon exposure to the hypothetical maximally exposed individual
- F = Equilibrium fraction based on NCRP 97, Section 4, one (1) WL = 100 pCi/L and 0.7 outdoor equilibrium factor
- DCF = dose conversion factor (USEPA 1989) = 1,250 mrem per WLM
- T = exposure time for the hypothetical maximally exposed receptor = 2,000 hours per year
- C_1 = occupancy factor constant = 1 month per 170 hours
- C_2 = dispersion factor = 0.44 [diffusion factor from source to receptor verses source to detector (5 m to detector and 50 m to receptor)]
- WL = working level (concentration unit)
- WLM = working level month (exposure unit)

Total Effective Dose Equivalent

TEDE = CEDE (airborne particulates) + H_{MEI} (external gamma) + S_{MEI} (airborne radon)
TEDE = <0.1 mrem/year + <0.1 mrem/year + 2.7 mrem/year = 2.8 mrem/year

where:

CEDE = committed effective dose equivalent