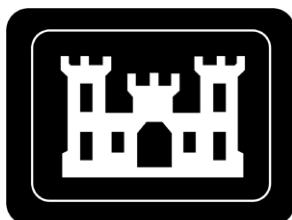

REVISION 0

ST. LOUIS DOWNTOWN SITE ANNUAL ENVIRONMENTAL MONITORING DATA AND ANALYSIS REPORT FOR CALENDAR YEAR 2018

ST. LOUIS, MISSOURI

JUNE 14, 2019



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

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prepared by

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

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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
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	<i>Code of Federal Regulations</i>
COC	contaminant of concern
CY	calendar year
DL	detection limit
DO	dissolved oxygen
DOD	U.S. Department of Defense
DQO	data quality objective
EDE	effective dose equivalent
ELAP	Environmental Laboratory Accreditation Program
EM	Engineer Manual
EMDAR	Environmental Monitoring Data and Analysis Report
EMG	<i>Environmental Monitoring Guide for the St. Louis Sites</i>
EMICY18	<i>Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2018</i>
EMP	Environmental Monitoring Program
ER	Engineer Regulation
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
GRAAA	Ground-Water 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	<i>Multi-Agency Radiation Survey and Site Investigation Manual</i>
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
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NRC	U.S. Nuclear Regulatory Commission
ORP	oxidation reduction potential
PDI	pre-design investigation
QA	quality assurance
QAPP	quality assurance program plan
QC	quality control

ACRONYMS AND ABBREVIATIONS (Continued)

QSM	<i>Department of Defense (DoD)/Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories</i>
Ra	radium
RA	remedial action
RL	reporting limit
RME	reasonably maximally exposed
Rn	radon
ROD	<i>Record of Decision for the St. Louis Downtown Site</i>
RPD	relative percent difference
SAG	<i>Sampling and Analysis Guide for the St. Louis Sites</i>
SLAPS	St. Louis Airport Site
SLDS	St. Louis Downtown Site
SLS	St. Louis Sites
SOP	standard operating procedure
SOR	sum of ratios
SU	survey unit
TEDE	total effective dose equivalent
Th	thorium
TLD	thermoluminescent dosimeter
TSS	total suspended solid(s)
U	uranium
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
USACE	U.S. Army Corps of Engineers
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
µS/cm	microSiemen(s) per centimeter
Ci	curie(s)
ft	foot/feet
m	meter(s)
mg/L	milligram(s) per liter
mL	milliliter(s)
mrem	millirem
mV	millivolt(s)
NTU	nephelometric turbidity unit
pCi/L	picocurie(s) per liter
WL	working level
yd ³	cubic yard(s)

EXECUTIVE SUMMARY

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2018 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:

1. to document the environmental monitoring activities, and
2. to assess whether remedial actions (RAs) had a measurable environmental impact by:
 - a. reporting the current condition of the SLDS,
 - b. summarizing the data collection effort for CY 2018, and
 - c. providing an analysis of the environmental monitoring data to date.

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.

All environmental monitoring required through implementation of the *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2018* (EMICY18) (USACE 2017) was conducted as planned during CY 2018. 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 EMICY18. 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 1.8 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 AT THE ST. LOUIS DOWNTOWN SITE

CY 2018 was the 20th year excavation-water discharge from the SLDS was monitored 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). This authorization was extended through the issuance of letters dated

June 19, 2006; May 22, 2008; May 10, 2010; May 24, 2012; June 23, 2014; July 18, 2016 and June 11, 2018 (MSD 2006, 2008, 2010, 2012, 2014, 2016, 2018). This authorization expires July 23, 2020 (MSD 2018). During CY 2018, no exceedances of the MSD limits occurred at the SLDS.

GROUND-WATER MONITORING

Ground water was sampled during CY 2018 at the SLDS following a protocol for individual wells and analytes. Samples were analyzed for various radiological constituents and inorganic parameters. Static ground-water elevations for all SLDS wells were measured quarterly.

The environmental sampling requirements and ground-water criteria for each analyte are consistent with the EMICY18. The ground-water criteria are used for comparison and discussion purposes. The criteria for assessing ground-water 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 ground-water criteria are presented in Table 2-6 of the EMICY18 and in Section 4.0 of this EMDAR. For those stations where an analyte exceeded the ground-water criteria at least once during CY 2018 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 2018, three hydrostratigraphic unit (HU)-A monitoring wells (B16W06S, B16W12S, and DW21) were sampled (Figure 4-3). B16W06S was sampled in the fourth quarter for arsenic and cadmium. B16W12S was sampled for arsenic, cadmium, and radionuclides (Ra-226, Ra-228, thorium [Th]-228, Th-230, Th-232, U-234, U-235, and U-238) in the second quarter. DW21 was sampled for arsenic, cadmium, and radionuclides in the third quarter. Trend analysis was conducted for arsenic in B16W06S and DW21, and total U in B16W12S. Based on the graph and a quantitative evaluation of the trend using the Mann-Kendall Trend Test (Section 4.2.3), there is a downward trend in arsenic concentrations in DW21 and no trend in arsenic concentrations in B16W06S. A significant trend for total U in B16W12S was also not identified (Figure 4-5). The remaining SLDS contaminants of concern (COCs) (Ra-226, Ra-228, Th-228, Th-232, and U-235) were not detected in HU-A ground water during CY 2018.

During CY 2018, six HU-B (Mississippi Alluvial Aquifer) monitoring wells (B16W07D, B16W09D, DW14, DW15, DW16, and DW18) were sampled. Mann-Kendall Trend Tests were conducted for COCs that exceeded the ILs in HU-B wells during CY 2018: arsenic in DW14, DW16, and DW18, and cadmium in DW15. The results of the Mann-Kendall Trend Tests for arsenic indicate a statistically significant downward trend in DW14 and a statistically significant upward trend in DW16 and DW18. The Mann-Kendall Trend Test results also indicate a statistically significant upward trend for cadmium in DW15.

Potentiometric surface maps were created from ground-water elevations measured in May and February to illustrate ground-water flow conditions in wet and dry seasons. The ground-water surface in HU-A under the eastern portion of the Mallinckrodt plant is generally sloping northeastward toward the Mississippi River (Figures 4-7 and 4-9). In HU-B, ground-water 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 northeast toward the Mississippi River.

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) 2018 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 enhance the reader's awareness of the current condition of the SLDS, summarize the data collection efforts for CY 2018, and provide analysis of the CY 2018 environmental monitoring data results. This EMDAR presents the following information:

- Sample collection data for various media at the SLDS and interpretation of CY 2018 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 2018* [EMICY18] [USACE 2017]);
- 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).

During CY 2018, the following USACE SLDS documents were finalized:

- *CY 2017 Fourth Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories* (February);
- *Remedial Design/Remedial Action Work Description Heintz Steel and Manufacturing Vicinity Property (DT-6) Storage Building, Supplement No. 2 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site, FUSRAP St. Louis Downtown Site* (June 19);
- *St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for CY 2017* (June 21);
- *CY 2018 First Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories* (May);
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Vicinity Properties City Property (DT-2) West of the Levee and City of Venice (DT 11) (Partial)* (August 20);
- *CY 2018 Second Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories* (August);
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Plant 6 East Half* (September 27);
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Destrehan Street (West) Property* (September 27);
- *Remedial Design/Remedial Action Work Description Gunther Salt Properties, Supplement No. 3 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site, FUSRAP St. Louis Downtown Site* (October 25);
- *CY 2018 Third Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories* (October); and
- *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2019* (December 20).

1.3.1 St. Louis Downtown Site Calendar Year 2018 Remedial Actions

During CY 2018, RAs were performed at the following SLDS properties (Figure 1-2): Heintz Steel (DT-6) Storage Building, Destrehan Street, Gunther Salt North VP (DT-4), Plant 6 West Half (henceforth referred to as Plant 6WH) Building 101, Plant 7 West (henceforth referred to as Plant 7W), and Plant 1 (Former Building 17 Area). RAs at Plant 6WH Building 101 were completed in the first quarter. RAs at Destrehan Street and Plant 7W continued throughout the year and RAs at Plant 1 were completed in the second quarter. RAs at the Heintz Steel (DT-6) Storage Building were initiated and completed in the third quarter and initiated at the Gunther Salt North VP (DT-4) in the fourth quarter. A total of 9,135 yd³ of contaminated material were shipped from the SLDS via railcar to US Ecology in Idaho and Michigan for proper disposal. Additionally, loadout activities were performed at Plant 6.

Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM) (DOD 2000) Class 1 verifications were performed at Gunther Salt North VP (DT-4) (survey unit [SU]-4), Heintz Steel VP (DT-6) (SU-1), Plant 1 Building 10, Plant 1 Building 17 (SU-1 and SU-2), Plant 6WH (SU-19), Plant 7 (SU-6 and SU-7) and Destrehan Street (SU-1, SU-3, SU-5, SU-6, and SU-7) during CY 2018. No MARSSIM Class 2 or Class 3 verifications were performed during CY 2018. 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 Terminal Railroad Association Vicinity Property/Lange-Stegmann (DT-9) and Gunther Salt North VP (DT-4) during CY 2018.

No monitoring wells were decommissioned in CY 2018.

In accordance with the Metropolitan St. Louis Sewer District (MSD) authorization letter for the SLDS, 2,440,251 gallons of excavation water were discharged in CY 2018. Since the beginning of the project, 30,307,745 gallons have been treated and released to MSD at the SLDS.

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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 2018.

All radiological air monitoring required through implementation of the EMICY18 (USACE 2017) was conducted as planned during CY 2018. 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 1.8 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 2018 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 United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR) estimates that the total naturally occurring background radiation dose equivalent due to gamma exposure is 65 mrem per year, 35 mrem per year of which originates from sources on earth and 30 mrem per year of which originates from cosmic sources (UNSCEAR 1982). The background monitoring locations for the SLS (Figure 2-1) are reasonably representative of background gamma radiation for the St. Louis metropolitan area.

Gamma radiation was measured at the SLDS during CY 2018 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.

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 B, Table B-1) as well as above-background concentrations of radioactive materials present at the SLDS.

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., $\mu\text{Ci/mL}$). 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 2018 NESHAP report (Appendix A) 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 4.0 modeling code (USEPA 2014) to demonstrate compliance with the 10 mrem per year ARAR in 40 CFR 61, Subpart I.

CY 2018 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. Radon ATDs were co-located with environmental TLDs 3 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. 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 2018 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 and the South Storage Building at DT-4 North) to monitor for indoor radon exposure. 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.

CY 2018 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 2018 at four 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-1 (for each monitoring period) to provide additional quality control (QC) of monitoring data (Figure 2-2). A summary of TLD monitoring results for CY 2018 at the SLDS is shown in Table 2-1. TLD data are contained in Appendix B, Table B-2, of this EMDAR.

Table 2-1. Summary of SLDS Gamma Radiation Data for CY 2018

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2018 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-1	15.8	0	17.2	0	17.6	0	18.9	0	0	
	DA-1 ^c	15.9	0	17.8	0	18.3	0	19.0	0	0	
	DA-2	18.1	0	19.0	0	20.2	0	20.5	0	0	
	DA-3	17.6	0	19.8	0	19.0	0	19.2	0	0	
	DA-6	18.5	0	20.7	1.0	20.3	0	21.1	0.3	1.3	

Table 2-1. Summary of SLDS Gamma Radiation Data for CY 2018 (Continued)

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2018 Net TLD Data (mrem/year)	
		(mrem/quarter)									
		Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}		
Background	BA-1	18.8	---	19.8	---	21.5	---	20.8	---	---	

^a All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure above background.^b CY 2018 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 2018 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 A) and calculation of TEDE to the critical receptor (Section 6.0). Air sampling for radiological particulates was not conducted at the SLDS perimeter locations during CY 2018 due to the insignificant potential for material to become airborne at the site. The ground surface at the SLDS is generally covered with asphalt or concrete, which limits the potential for material to become airborne. A summary of air particulate monitoring data from excavation perimeters is shown in Table 2-2. Airborne radioactive particulate data are contained in Appendix B, Table B-3, of this EMDAR.

Table 2-2. Summary of SLDS Airborne Radioactive Particulate Data for CY 2018

Monitoring Location	Average Concentration ($\mu\text{Ci/mL}$) ^a	
	Gross Alpha	Gross Beta
Heintz Steel (DT-6)	7.48E-15	2.44E-14
Destrehan Street/Plant 6WH/Plant 7	5.01E-15	2.91E-14
Plant 1, Building 17	3.91E-15	2.84E-14
Gunther Salt (DT-4)	6.60E-16	2.69E-14
Plant 6 Loadout	4.08E-15	2.77E-14
Background Concentration (BA-1) ^b	4.19E-15	2.01E-14

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

2.2.3 Evaluation of Outdoor Airborne Radon Data

Outdoor airborne radon monitoring was performed at the SLDS using ATDs to measure radon emissions. Four detectors were co-located with the TLDs at locations shown on Figure 2-2. One additional detector was located at Monitoring Station DA-1 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 0.03 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 B, Table B-4, of this EMDAR.

Table 2-3. Summary of SLDS Outdoor Airborne Radon (Rn-222) Data for CY 2018

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/09/18 to 07/03/18 (Uncorrected) ^a	07/03/18 to 01/03/19 (Uncorrected) ^a	Average Annual Concentration ^b
SLDS	DA-1	0.2	0.2	0
	DA-1 ^c	0.2	0.3	0.05
	DA-2	0.3	0.3	0.1
	DA-3	0.2	0.2	0
	DA-6	0.2	0.2	0
Background	BA-1	0.2	0.2	---

^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 two SLDS buildings (Building 26 at Plant 1 and the South Storage Building at DT-4 North) using one ATD placed in each building at a height of 5 ft (to approximate breathing zone conditions) to measure radon concentrations (Figure 2-2). The ATDs were installed in January of CY 2018 at each monitoring location, collected for analysis after approximately 6 months of exposure, and replaced with another set 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 each building (Leidos 2019). In addition, the concentrations at each indoor monitoring location were all less than 0.03 WL. Additional details of the data and calculation methodology used to determine indoor radon WL in SLDS buildings are contained in Table 2-4. Indoor ATD data are contained in Appendix B, Table B-4, of this EMDAR.

Table 2-4. Summary of SLDS Indoor Airborne Radon (Rn-222) Data for CY 2018

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)			WL ^c
		01/09/18 to 07/03/18 ^a	07/03/18 to 01/03/19 ^a	Annual Average ^b	
Plant 1, Building 26	DI-1	0.6	0.2	0.40	0.002
DT-4 North, South Storage Building	DI-2	1.1	1.1	1.10	0.004

^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)).

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3.0 EXCAVATION-WATER MONITORING DATA

This section provides a description of the excavation-water discharge monitoring activities conducted at the SLDS during CY 2018. Excavation water is storm water and ground water that accumulates in excavations present at the SLDS as a result of RAs. Excavation-water effluent from the SLDS is discharged to a 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 tested before being discharged to MSD manholes 17D4-353C and 17D3-022C. 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). 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; and July 18, 2016, the MSD issued extensions to the special discharge authorization for the SLDS that remained in effect until July 23, 2010; July 23, 2012; and July 23, 2014; July 23, 2016; July 23, 2018, respectively (MSD 2008, 2010, 2012, 2014, 2016). On June 11, 2018, the MSD issued an extension to the special discharge authorization for the SLDS that remains in effect until July 23, 2020 (MSD 2018). The results obtained from these monitoring activities are presented and evaluated with respect to the discharge limits described in the EMICY18 (USACE 2017).

Section 2.2.2 of the EMICY18 outlines the parameters and annual average discharge limits for the excavation-water discharges at the SLDS (USACE 2017). 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 AT THE ST. LOUIS DOWNTOWN SITE

During CY 2018, 2,440,251 gallons of excavation water from 12 batches were discharged to MSD manholes 17D4-353C and 17D3-022C. The analytical results for all measured parameters by batch, along with the total activity discharged for each parameter, are included in Appendix C, Table C-1. A summary of the number of discharges, gallons of water discharged, and total radiological activity for the CY 2018 excavation-water discharges is provided in Table 3-1. All excavation-water discharge monitoring required through implementation of the EMICY18 was conducted as planned during CY 2018. The evaluation of monitoring data demonstrates compliance with all MSD criteria.

Table 3-1. Excavation Water Discharged at the SLDS in CY 2018

Quarter	Number of Discharges	Number of Gallons Discharged ^a	Total Activity (Ci)		
			Thorium ^b	Uranium (KPA) ^c	Radium ^d
1	3	371,155	1.8E-06	2.7E-05	2.1E-06
2	3	604,485	2.8E-06	3.5E-05	4.1E-06
3	3	779,365	6.2E-06	5.6E-05	5.7E-06
4	3	685,246	3.0E-06	8.4E-05	4.0E-06
Annual Totals	12	2,440,251	1.4E-05	2.0E-04	1.6E-05

^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 GROUND-WATER MONITORING DATA

During CY 2018, nine ground-water monitoring wells were sampled at the SLDS. Ground water 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 continuously during purging of the wells prior to sampling. The ground-water field parameter results for CY 2018 sampling at the SLDS are presented in Appendix D, Table D-1. The SLDS ground-water analytical sampling results for CY 2018 are contained in Appendix D, Table D-2.

Stratigraphy at the St. Louis Downtown Site

Ground water 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 ground water as a potable water supply (City of St. Louis 2005). The expected future use of SLDS ground water 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.

Ground-Water Criteria

The CY 2018 monitoring data for HU-B ground water at the SLDS are compared to the following ground-water 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 ground-water criteria for HU-A ground water. An evaluation of concentration trends is conducted for COCs detected in HU-A.

Summary of Calendar Year 2018 Ground-Water Monitoring Results for the St. Louis Downtown Site

Trend analysis of the COCs detected in HU-A ground water indicates continued improvement in HU-A ground-water quality, as reflected in the downward trend in arsenic concentrations observed in HU-A well DW21. No other significant changes in the concentrations of the COCs occurred in shallow ground water during CY 2018.

During CY 2018, two COCs (arsenic and cadmium) were detected at concentrations above the ROD ground-water criteria in HU-B ground water. The arsenic concentration exceeded the investigative limit (IL) (50 µg/L) in the fourth quarter samples from HU-B wells DW14 (130 µg/L), DW16 (230 µg/L) and DW18 (120 µg/L). The cadmium concentration exceeded the

IL (5 µg/L) in the second-quarter sample from DW15 (5.4 µg/L). However, cadmium does not exceed the IL at DW15 when measurement error is taken into account.

The Mann-Kendall Trend Test results for the HU-B wells indicate a statistically significant upward trend in arsenic concentrations in DW16 and DW18, and a statistically significant downward trend in the arsenic concentrations in DW14. The Mann-Kendall Trend Test results also indicate there is a statistically significant upward trend in cadmium concentrations in HU-B well DW15. No other significant changes in the concentrations of the COCs occurred in HU-B ground water during CY 2018.

4.1 GROUND-WATER MONITORING AT THE ST. LOUIS DOWNTOWN SITE

The selected remedy presented in the ROD involves excavation and disposal of radiologically contaminated accessible soil and ground-water monitoring. The goal of the ground-water 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 ground-water results for the SLDS COCs are compared to the following ROD ground-water 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 Ground-Water 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 ground-water 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 ground water. An evaluation of concentration trends is conducted for select COCs detected in HU-A ground water 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 GROUND-WATER MONITORING DATA

St. Louis Downtown Site Monitoring Well Network

The EMP monitoring well network for the SLDS is shown on Figure 4-3. The screened HUs for the SLDS ground-water 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 2018, nine monitoring wells (three HU-A and six HU-B) were sampled for

radionuclides and inorganic COCs at the SLDS. No new ground-water monitoring wells were installed or transferred at the SLDS in CY 2018. Ground-water sampling at the SLDS was conducted on February 15 (first quarter); May 17 (second quarter); August 15 (third quarter); and November 13 and 14 (fourth quarter) of CY 2018. The CY 2018 analytical results for the SLDS are presented in Appendix D, Table D-2. For discussion purposes, the ground-water analytical data acquired from the CY 2018 sampling events at the SLDS are presented separately for HU-A and HU-B. Appendix E provides the well maintenance checklists for the annual inspection of the SLDS ground-water monitoring wells conducted on March 12, 2018.

Table 4-1. Screened HUs for SLDS Ground-Water Monitoring Wells in CY 2018

Well ID	Screened HU
B16W06D	HU-B
B16W06S ^a	HU-A
B16W07D ^a	HU-B
B16W08D	HU-B
B16W08S	HU-A
B16W09D ^a	HU-B
B16W12S ^a	HU-A
DW14 ^a	HU-B
DW15 ^a	HU-B
DW16 ^a	HU-B
DW17	HU-B
DW18 ^a	HU-B
DW19 ^b	HU-B
DW21 ^a	HU-A

^a Wells sampled in CY 2018.

^b DW19 was decommissioned in August 2016, and a replacement well was installed in February 2019 after remediation activities were completed at Plant 6.

4.2.1 Evaluation of HU-A Ground-Water Monitoring Data

The results of the CY 2018 ground-water sampling of HU-A ground water at the SLDS are summarized in Table 4-2. During CY 2018, three HU-A monitoring wells (B16W06S, B16W12S, and DW21) were sampled. B16W06S was sampled in the fourth quarter for arsenic and cadmium. B16W12S was sampled for arsenic, cadmium, and radionuclides (Ra-226, Ra-228, thorium [Th]-228, Th-230, Th-232, U-234, U-235, and U-238) in the second quarter. DW21 was sampled for arsenic, cadmium, and radionuclides in the third quarter.

Table 4-2. Analytes Detected in HU-A Ground Water at the SLDS in CY 2018

Analyte	Units	Station ^a	Minimum Detected	Maximum Detected	Mean Detected	Frequency of Detection
Arsenic	µg/L	B16W06S	260	260	260	1/1
		DW21	87	87	87	1/1
Cadmium	µg/L	B16W06S	1.6	1.6	1.6	1/1
		B16W12S	1.0	1.0	1.0	1/1
U-234	pCi/L	B16W12S	3.56	3.56	3.56	1/1
U-238	pCi/L	B16W12S	4.79	4.79	4.79	1/1
Total U ^b	µg/L	B16W12S	14.3	14.3	14.3	1/1

^a Table lists only those stations at which the analyte was detected in HU-A ground water.

^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.

The analytes detected in HU-A ground water in CY 2018 are listed in Table 4-2. The remaining SLDS COCs (Ra-226, Ra-228, Th-228, Th-230, Th-232, and U-235) were not detected in the

three HU-A ground-water wells monitored during CY 2018. Because the majority of their historical results was near or below their detection limits (DLs), a trend analysis was not performed for cadmium in B16W06S or B16W12S. Trend analysis was conducted for arsenic in B16W06S and DW21, and total U in B16W12S. Because total U values are calculated using the U-234 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 B16W12S. Based on the graphs and quantitative evaluation of trends using the Mann-Kendall Trend Test (Section 4.2.3), there is a statistically significant downward trend in arsenic concentrations in DW21 (Figure 4-4). No statistically significant trend in arsenic concentrations in B16W06S was identified. Based on the time-versus-concentrations plots and quantitative evaluation of trends using the Mann-Kendall Trend Test, no significant trend for total U in B16W12S was identified (Figure 4-5). An expanded version of the time-versus-concentration plot for arsenic in DW21 is provided on Figure 4-6.

4.2.2 Evaluation of HU-B Ground-Water Monitoring Data

During CY 2018, six SLDS wells completed in the HU-B were monitored for various parameters, including the COCs arsenic, cadmium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238. Detected concentrations were compared to the respective ROD ground-water criteria. Table 4-3 lists the analytes detected in HU-B ground water during CY 2018 and compares the results with the ROD ground-water criteria.

Table 4-3. Analytes Detected in HU-B Ground Water at the SLDS in CY 2018

Analyte	ROD Ground-Water Criteria		Units	Station ^b	Minimum Detected	Maximum Detected	Mean Detected	Number of Detects > ROD Ground-Water Criteria	Frequency of Detection
	IL ^a	40 CFR 192.02, Table 1, Subpart A							
Arsenic	50	NA	$\mu\text{g/L}$	B16W07D	29	29	29	0	1/1
				B16W09D	16	16	16	0	1/1
				DW14	130	130	130	1	1/1
				DW16	230	230	230	1	1/1
				DW18	120	120	120	1	1/1
Cadmium	5	NA	$\mu\text{g/L}$	B16W07D	2	2	2	0	1/1
				B16W09D	0.36	0.36	0.36	0	1/1
				DW14	0.77	0.77	0.77	0	1/1
				DW15	2.5	5.4	4.0	1	2/2
				DW16	1.2	1.2	1.2	0	1/1
				DW18	0.49	0.49	0.49	0	1/1
Ra-226	NA ^c	5 ^d	pCi/L	B16W09D	1.49 J	1.49 J	1.49 J	0	1/1
				DW14	1.94 J	1.94 J	1.94 J	0	1/1
Th-228	NA	NA	pCi/L	DW14	1.07 J	1.07 J	1.07 J	NA	1/1
Th-230	NA	NA	pCi/L	B16W09D	0.82 J	0.82 J	0.82 J	NA	1/1
				DW18	0.35 J	0.35 J	0.35 J	NA	1/1
U-234	NA	NA	pCi/L	B16W07D	0.97 J	0.97 J	0.97 J	NA	1/1
				B16W09D	0.69 J	0.69 J	0.69 J	NA	1/1
				DW14	0.42 J	0.42 J	0.42 J	NA	1/1
				DW15	0.84 J	0.84 J	0.84 J	NA	1/1
U-238	NA	NA	pCi/L	B16W07D	1.22 J	1.22 J	1.22 J	NA	1/1
				B16W09D	0.86 J	0.86 J	0.86 J	NA	1/1
				DW14	0.69 J	0.69 J	0.69 J	NA	1/1
				DW15	0.63 J	0.63 J	0.63 J	NA	1/1

Table 4-3. Analytes Detected in HU-B Ground Water at the SLDS in CY 2018 (Continued)

Analyte	ROD Ground-Water Criteria		Units	Station ^b	Minimum Detected	Maximum Detected	Mean Detected	Number of Detects > ROD Ground-Water Criteria	Frequency of Detection
	IL ^a	40 CFR 192.02, Table 1, Subpart A							
Total U ^e	20	NA	µg/L	B16W07D	3.6	3.6	3.6	0	1/1
				B16W09D	2.6	2.6	2.6	0	1/1
				DW14	2.2	2.2	2.2	0	1/1
				DW15	1.9	1.9	1.9	0	1/1

^a USACE 1998a.^b Table lists only those stations at which the analyte was detected in HU-B ground water.^c Although the ROD does not reference an IL for Ra-226, it does reference the maximum constituent concentration listed in Table 1 of 40 CFR 192.02, Subpart A.^d Concentration limit for combined Ra-226 and Ra-228.^e 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 2018, two inorganic SLDS COCs (arsenic and cadmium) were detected at concentrations above their ROD ground-water criteria in HU-B ground water. The concentration of arsenic exceeded the IL (50 µg/L) in the November 2018 samples from DW14 (130 µg/L), DW16 (230 µg/L) and DW18 (120 µg/L). The time-versus-concentration plots for arsenic in DW14, DW16, and DW18 are provided on Figures 4-4 and 4-6. The concentration of cadmium in the May 2018 sample from DW15 (5.4 µg/L) slightly exceeded the IL (5 µg/L). However, cadmium does not exceed the IL when measurement error is taken into account. The cadmium concentration in the November 2018 sample from DW15 (2.5 µg/L) did not exceed the IL.

No radiological COCs exceeded the ROD ground-water criteria in HU-B ground water at the SLDS during CY 2018. The concentration of total U has exceeded the IL (20 µg/L) in the annual ground-water samples collected from one HU-B well at the SLDS, DW19, since installation of the well in CY 1999. Results of the CY 2015 trend analysis indicated that the total U concentrations in DW19 were decreasing. On August 3, 2016, DW19 was plugged and abandoned so that remediation activities could be conducted in that area. Installation of a replacement well was delayed until remediation and backfill activities were completed at Plant 6. Two wells, a deep (HU-B) replacement well and an adjacent shallow (HU-A) well, were installed in February 2019 to allow continued assessment of contaminant concentration trends in this area. The monitoring results for these wells will be reported in future EMDARs. The total U concentration trends in unfiltered ground water 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), four statistically significant trends were identified in HU-B ground water. There is a statistically significant downward trend in arsenic concentrations in DW14. In addition there are statistically significant upward trends in arsenic concentrations in DW16 and DW18, and a statistically significant upward trend for cadmium in DW15. An expanded version of the time-versus-concentration plots for arsenic in DW14, DW16, and DW18 and for cadmium in DW15, are provided on Figure 4-6.

4.2.3 Comparison of Historical Ground-Water Data at the St. Louis Downtown Site

A quantitative evaluation of COC concentration trends in SLDS ground water was conducted based on available sampling data for the period from January 1999 through December 2018. 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 ground-water criteria in HU-B during CY 2018. 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 and DW21; and total U in B16W12S. A trend analysis was not conducted for cadmium in B16W06S and B16W12S because the historical results were generally below or only slightly above the DLs. The Mann-Kendall Trend Test was conducted for two COCs that exceeded the ILs in HU-B wells during CY 2018: arsenic in DW14, DW16, and DW18, and cadmium in DW15. For cadmium in DW15, the dataset was restricted to the time period CY 2003 through CY 2018 in order to meet the Mann-Kendall Trend Test requirement that the dataset have a detection frequency greater than 50 percent.

Statistical Method and Trend Analysis

Several statistical methods are available to evaluate contaminant trends in ground water. 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. However, because the Mann-Kendall Trend Test is a nonparametric test that uses relative magnitudes and not actual values, it is generally valid even in cases in which there are large numbers of non-detects.

Only unfiltered data were used, and split sample and QC sample results were not included in the database 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 Ground Water at the St. Louis Downtown Site

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 DW14, DW16, DW18, and DW21; and cadmium in DW15) are provided on Figure 4-6.

Table 4-4. Results of Mann-Kendall Trend Test for SLDS Ground Water in CY 2018

Analyte	Station	HU	N ^a	Test Statistics ^{b,c}		Trend ^d
				S	Z	
Arsenic	B16W06S	HU-A	24	-48	-1.17	No Trend
	DW14	HU-B	24	-128	-3.16	Downward Trend
	DW16	HU-B	24	143	3.53	Upward Trend
	DW18	HU-B	30	256	4.55	Upward Trend
	DW21	HU-A	29	-160	-2.99	Downward Trend
Cadmium	DW15	HU-B	16	51	2.29	Upward Trend
Total U	B16W12S	HU-A	19	29	0.98	No Trend

^a N is the number of unfiltered ground-water sample results for a particular analyte at the well over a particular time period. With the exception of cadmium at DW15, the time period is between January of 1999 and December of 2018. For cadmium at DW15, the dataset was restricted to the period between January of 2003 and December of 2018 to meet the Mann-Kendall Trend Test requirement that the dataset have a detection frequency greater than 50 percent.

^b Mann-Kendall Trend Tests were performed at a 95 percent level of confidence. For non-radiological data, non-detected results were replaced with one half of the lowest DL.

^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 significant downward trends for arsenic (one HU-A well, DW21, and one HU-B well, DW14), and two wells exhibit significant upward trends for arsenic (HU-B wells DW16 and 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 DW14, DW16, 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. The Mann-Kendall Trend Test results also indicate a statistically significant upward trend for cadmium in HU-B well DW15 for the period between January 2003 and December 2018. No other significant changes in the concentrations of the inorganic COCs occurred in HU-A or HU-B ground water during CY 2018.

Radionuclides

The Mann-Kendall Trend Test results indicate there is no significant trend for total U in HU-A well B16W12S. As shown in the time-versus-concentration plot for B16W12S on Figure 4-5, the

concentration of total U in B16W12S reached its maximum (28.4 µg/L) in CY 2005. No radiological COCs exceeded the ILs in HU-B ground water. Therefore, the Mann-Kendall Trend Test was not conducted for any radionuclides in HU-B ground water.

4.2.4 Evaluation of Potentiometric Surface at the St. Louis Downtown Site

Ground-water elevations were measured in monitoring wells at the SLDS in February, May, August, and November of CY 2018. Potentiometric surface maps were created to illustrate ground-water flow conditions in wet and dry seasons. Previous EMDARs include potentiometric maps based on the second quarter (May) and fourth quarter (November) measurements to represent ground-water flow conditions during the wet and dry seasons, respectively. Similarly, for CY 2018, the May measurements have been used for mapping ground-water flow conditions during the wet season. However, instead of using the November measurements, the February measurements have been used to represent dry conditions; the November 2018 measurements were not considered to be representative of the dry season due to above average precipitation in the form of heavy snowfall. The potentiometric maps for both HU-A and HU-B are presented on Figures 4-7 through 4-10.

The ground-water surface in HU-A under the eastern portion of the Mallinckrodt plant is generally sloping northeast toward the Mississippi River (Figures 4-7 and 4-9). The ground water may be present in separate lenses or subunits of the heterogeneous HU-A. Comparison of Figure 4-7 (May) with Figure 4-9 (February) indicates ground-water flow direction patterns in HU-A are similar for the wet and dry season conditions, but the hydraulic gradient is much higher (steeper) during the dry season. During CY 2018, the HU-A potentiometric surface elevations showed some seasonal fluctuation in ground-water elevations, with elevations averaging approximately 9.1 ft higher during the wet season (May) than during the dry season (February).

As shown on Figures 4-8 and 4-10, the ground-water flow direction and gradient in HU-B are strongly influenced by river stage. This indicates that ground water in HU-B is hydraulically connected to the Mississippi River. The water levels measured at the SLDS indicate that HU-B ground-water elevations averaged approximately 19.7 ft higher on May 17 than on February 15; this generally corresponds to the difference in the daily river stage, which was 21.1 ft higher on May 17 (402.4 ft above mean sea level [amsl]) than on February 15 (381.3 ft amsl). The flow direction in HU-B at the SLDS is generally northeast toward the Mississippi River.

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 numbers are issued until the associated data are evaluated. The Missouri Department of Natural Resources (MDNR) conducted site visits on August 15, 2018 and November 14, 2018, to observe and participate in the environmental monitoring activities. USEPA Region 7 and MDNR regulatory oversight of sampling activities provided an additional level of QA/QC.

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 documents for 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 EMICY18 outlines the analyses to be performed at each site for various media (USACE 2017).

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.

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 EMICY18 (USACE 2017).

5.5.1 Field Assessments

Internal assessments (audit or surveillance) of field activities (sampling and measurements) were conducted by the QA/QC Officer (or designee). Assessments included 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 MDNR.

5.5.2 Laboratory Audits

The on-site USACE St. Louis District FUSRAP 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) (U.S. Department of Defense [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.

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 USACE Hazardous, Toxic and Radioactive Waste – Center of Expertise and/or the local oversight 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 ground water and soil, and samples 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 USACE St. Louis FUSRAP laboratory or contract laboratories. The identity of duplicate samples is held blind to the analysts, and 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 each medium addressed by this project and were submitted to the contracted laboratories for analysis. Approximately one duplicate sample was collected for every 20 field samples of each matrix and analyte across the SLS. 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 2018 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-1. Non-Radiological Duplicate Sample Analysis for CY 2018 – Ground Water

Ground-Water Sample Name ^a	Arsenic		Cadmium	
	RPD ^b	RPD ^b	RPD ^b	RPD ^b
SLD205332 / SLD205332-1	13.90			NC

^a Ground-water samples ending in “-1” are duplicate ground-water 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 5-2. Radiological Duplicate Sample Analysis for CY 2018 – Ground Water

Ground-Water Sample Name ^a	Ra-226		Ra-228		Th-228		Th-230	
	RPD ^b	NAD						
SLD205332 / SLD205332-1	NC	NA	*	*	NC	NA	NC	NA
Ground-Water Sample Name ^a	Th-232		U-234		U-235		U-238	
	RPD ^b	NAD						
SLD205332 / SLD205332-1	NC	NA	NC	NA	NC	NA	NC	NA

^a Ground-water samples ending in “-1” are duplicate ground-water 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 field samples of each matrix for non-radiological and radiological analytes across the SLS. 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 2018 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-3. Non-Radiological Split Sample Analysis for CY 2018 – Ground Water

Ground-Water Sample Name ^a	Arsenic		Cadmium	
	RPD ^b	RPD ^b	RPD ^b	RPD ^b
SLD205332 / SLD205332-2	3.99		NC	

^a Ground-water samples ending in “-2” are split ground-water 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 2018 – Ground Water

Ground-Water Sample Name ^a	Ra-226		Ra-228		Th-228		Th-230	
	RPD ^b	NAD						
SLD205332 / SLD205332-2	NC	NA	*	*	NC	NA	NC	NA
Ground-Water Sample Name ^a	Th-232		U-234		U-235		U-238	
	RPD ^b	NAD						
SLD205332 / SLD205332-2	NC	NA	NC	NA	NC	NA	NC	NA

^a Ground-water samples ending in “-2” are split ground-water 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 2018 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

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 2018 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 2018 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 EMICY18, 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 2018 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., storm-water 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 2018 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

Summaries of the QA parent sample results and associated duplicate and/or split sample results are presented in Table 5-5 and Table 5-6.

Table 5-5. Non-Radiological Parent Samples and Associated Duplicate and Split Samples for CY 2018 – Ground Water

Ground-Water Sample Name ^a	Arsenic ^b				Cadmium ^b			
	Result	DL	VQ	Result	DL	VQ		
SLD205332	87.00	4.00	=	0.20	0.20	U		
SLD205332-1	100.00	4.00	=	0.20	0.20	U		
SLD205332-2	83.60	5.00	=	3.00	3.00	U		

^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, “U” for not detected.

Table 5-6. Radiological Parent Samples and Associated Duplicate and Split Samples for CY 2018- Ground Water

Ground-Water Sample Name ^b	Ra-226 ^a				Ra-228 ^a				Th-228 ^a			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
SLD205332	0.00	0.00	1.47	U	*	*	*	*	0.17	0.24	0.43	UJ
SLD205332-1	0.85	0.80	1.17	UJ	*	*	*	*	0.25	0.40	0.86	UJ
SLD205332-2	0.56	0.19	0.14	J	*	*	*	*	-0.08	0.08	0.19	UJ
Ground-Water Sample Name ^b	Th-230 ^a				Th-232 ^a				U-234 ^a			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
SLD205332	0.00	0.00	1.52	U	0.00	0.00	0.18	U	0.00	0.00	0.67	U
SLD205332-1	0.29	0.31	0.41	UJ	0.00	0.00	0.21	U	0.16	0.23	0.42	UJ
SLD205332-2	0.14	0.19	0.24	UJ	-0.02	0.05	0.14	UJ	-0.01	0.09	0.22	UJ
Ground-Water Sample Name ^b	U-235 ^a				U-238 ^a							
	Result	Error	MDC	VQ	Result	Error	MDC	VQ				
SLD205332	0.00	0.00	0.24	U	0.21	0.29	0.53	UJ				
SLD205332-1	0.00	0.00	0.22	U	0.11	0.19	0.35	UJ				
SLD205332-2	-0.01	0.01	0.13	UJ	0.11	0.10	0.07	J				

^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 not available from laboratory analysis. Ra-228 assumed to be in equilibrium with Th-228.

VQ symbols indicate: “J” analyte was identified as estimated quantity, “U” for not detected, 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 A (the “St. Louis Downtown Site 2016 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 1.8 mrem per year, estimated for an individual who works full-time at Thomas & Proetz Lumber Company (DT-10).

Figure 6-1 documents annual dose trends from CY 2000 to CY 2018 at the SLDS. A comparison of the maximum annual dose from CY 2000 to CY 2018 at the SLDS to the annual average natural background dose of approximately 300 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 2018 and were thus incorporated into radiological dose estimates.

Table 6-1. Complete Radiological Exposure Pathways for the SLDS

Exposure Pathway	Pathway Description	Applicable to CY 2018 Dose Estimate
Liquid A	Ingestion of ground water 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 2018. 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 2018 dose estimates for the SLDS. The Liquid A exposure pathway was not applicable in CY 2018, 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 A), 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 2018 monitoring data. Calculations for dose scenarios are provided in Appendix F. 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 2018 TEDE for a hypothetical maximally exposed individual near the SLDS is 1.8 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 80 m from the assumed line source. Exposure time is 2,000 hours per year (Leidos 2019).
- 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 2019).
- 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 2019).
- Exposure from Rn-222 (and progeny) was calculated using a dispersion factor and Rn-222 (ATD) monitoring data at the site locations representative of areas accessible to the public between the source and receptor (Leidos 2019).

Based on the exposure scenario and assumptions described above, a maximally exposed individual working outside at the receptor location facility received 0.0 mrem per year from external gamma, 0.2 mrem per year from airborne radioactive particulates, and 1.6 mrem per year from Rn-222, for a TEDE of 1.8 mrem per year (Leidos 2019). In comparison, the average exposure to natural background radiation in the United States results in a TEDE of approximately 300 mrem per year (NCRP 2009).

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FIGURES

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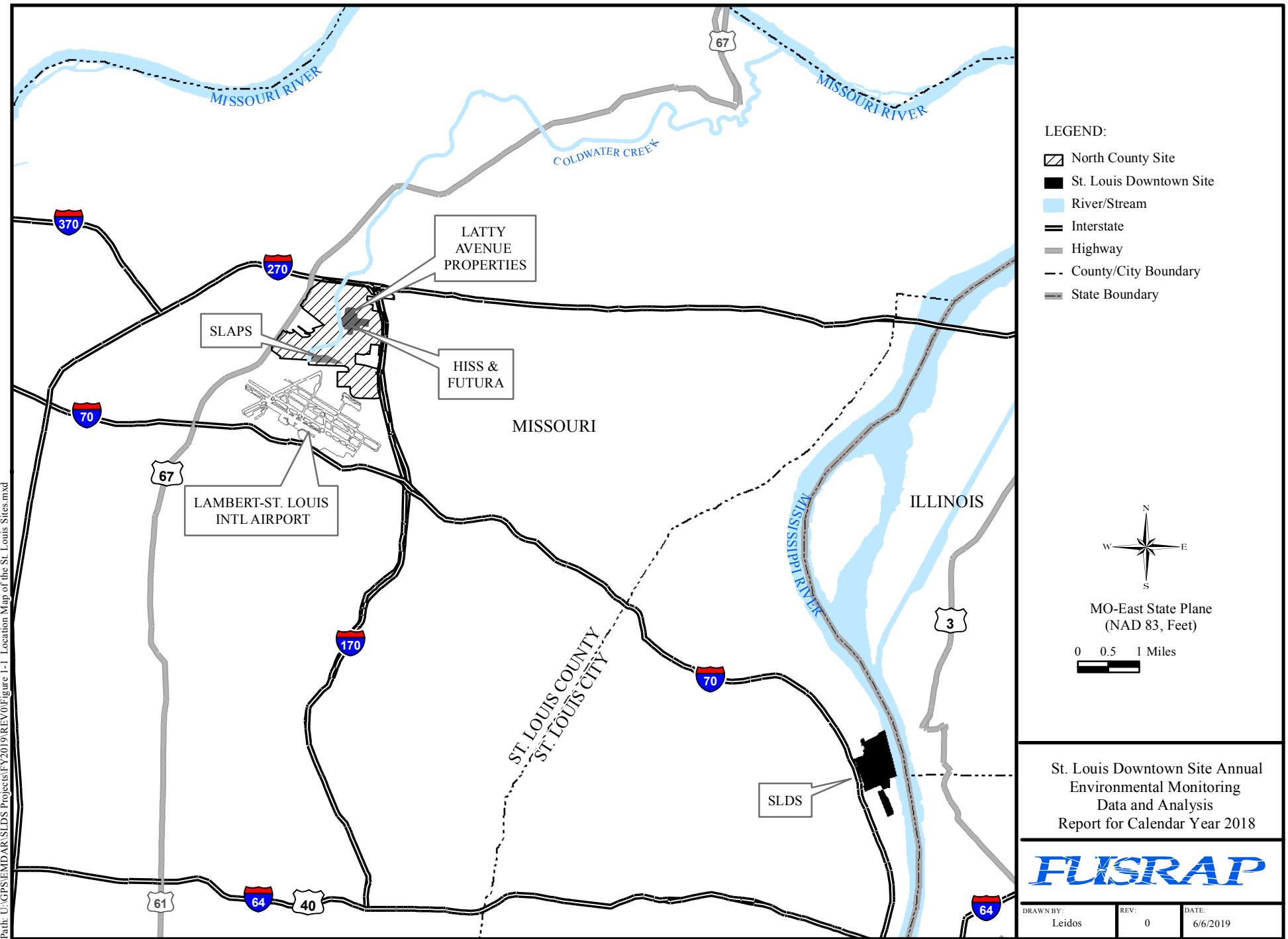
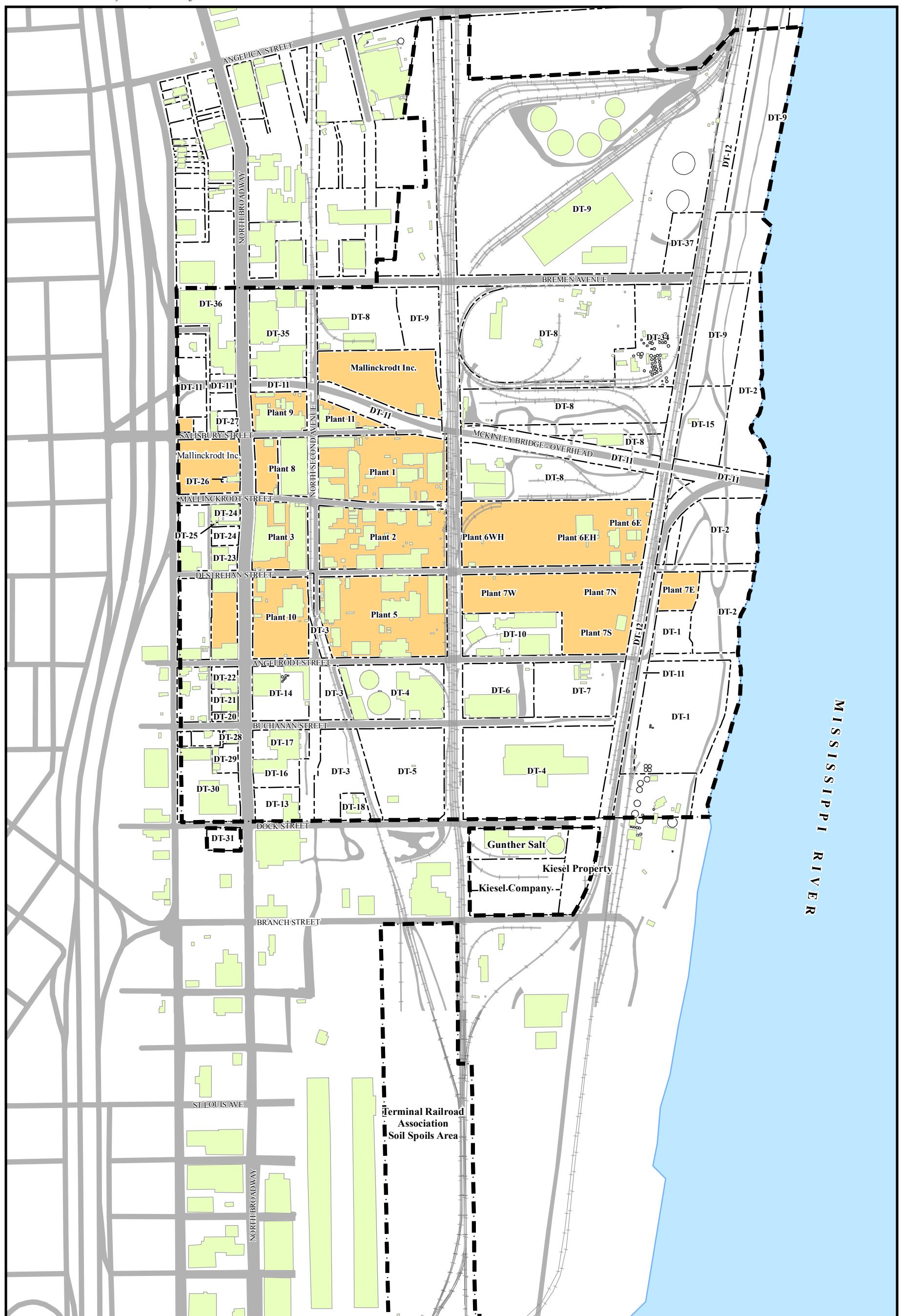
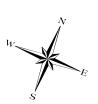


Figure 1-1. Location Map of the St. Louis Sites



LEGEND

- Railroad
- ROD Boundary
- [---] Property Boundary
- Mallinckrodt Property
- River/Stream
- Road
- Building
- Tank



MO-East State Plane
(NAD 83, Feet)

0 250 500
Feet

St. Louis Downtown Site Annual
Environmental Monitoring
Data and Analysis
Report for Calendar Year 2018

FUSRAP

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6/6/2019

Figure 1-2. Plan View of the SLDS

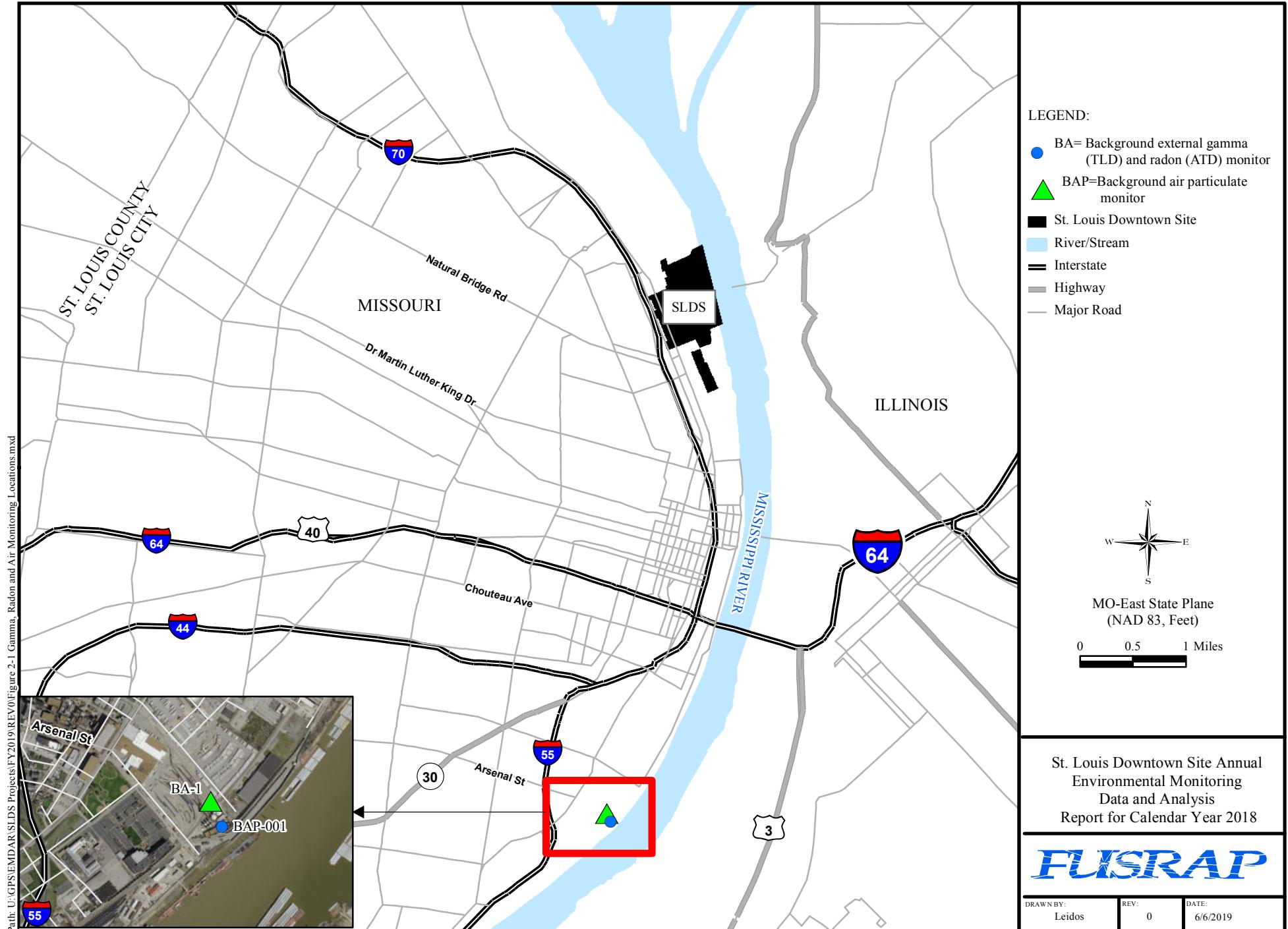
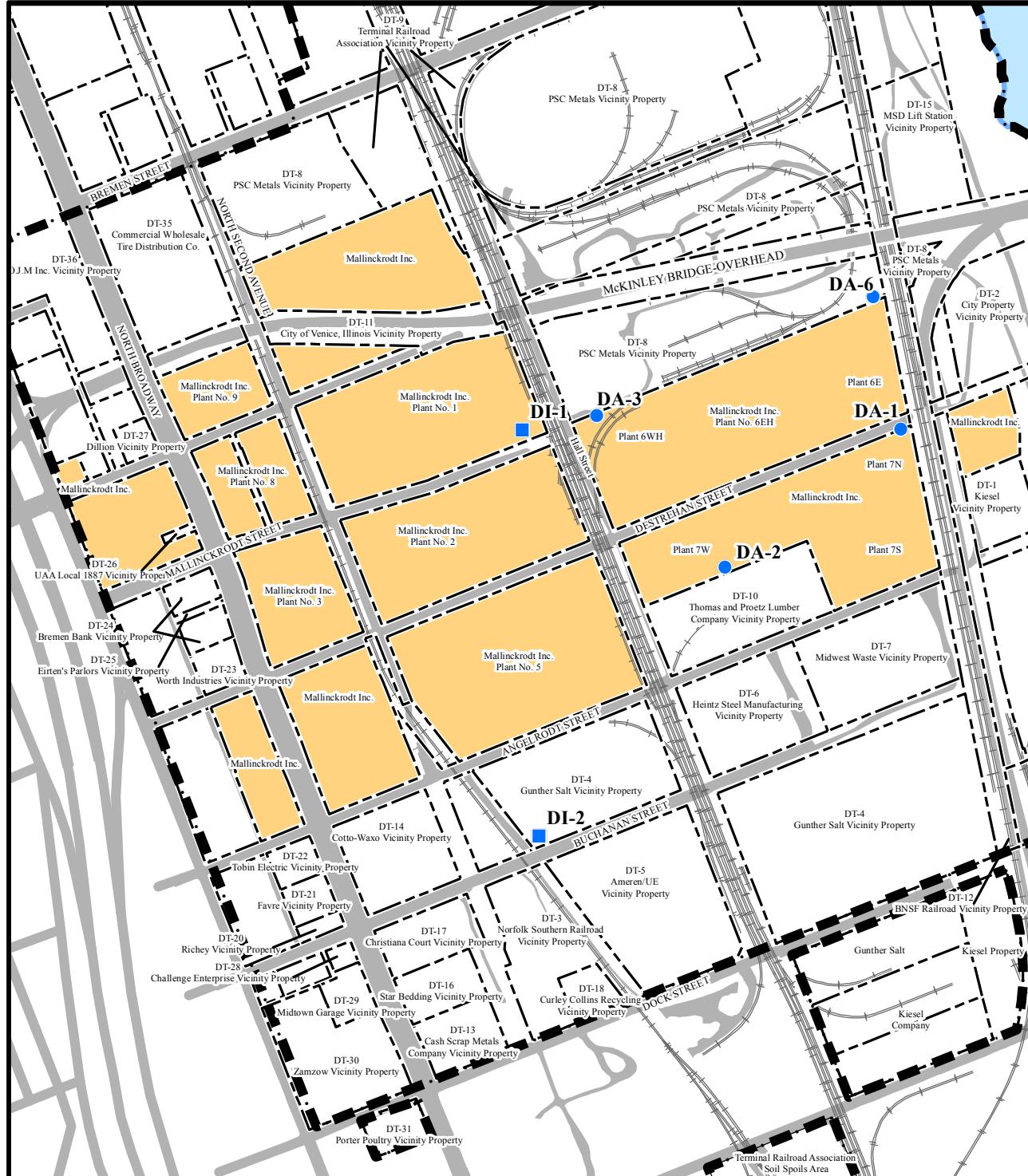


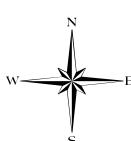
Figure 2-1. Gamma Radiation, Radon, and Particulate Air Monitoring at St. Louis Background Location - USACE Service Base



Legend

- DA=SLDS External gamma (TLD) and radon (ATD) monitoring location
- DI=SLDS indoor air radon (ATD) monitoring location
- ROD Boundary
- [] Vicinity Properties
- Railroad
- Mallinckrodt Property
- River/Stream

Note: TLD/ATD monitoring locations differed from those planned in the EMICY18. Actual locations monitored the most substantial RAs conducted at the SLDS in CY 2018



MO-East State Plane
(NAD 83, Feet)

0 125 250 Feet

St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2018

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Figure 2-2. Gamma Radiation and Radon Monitoring Locations at the SLDS

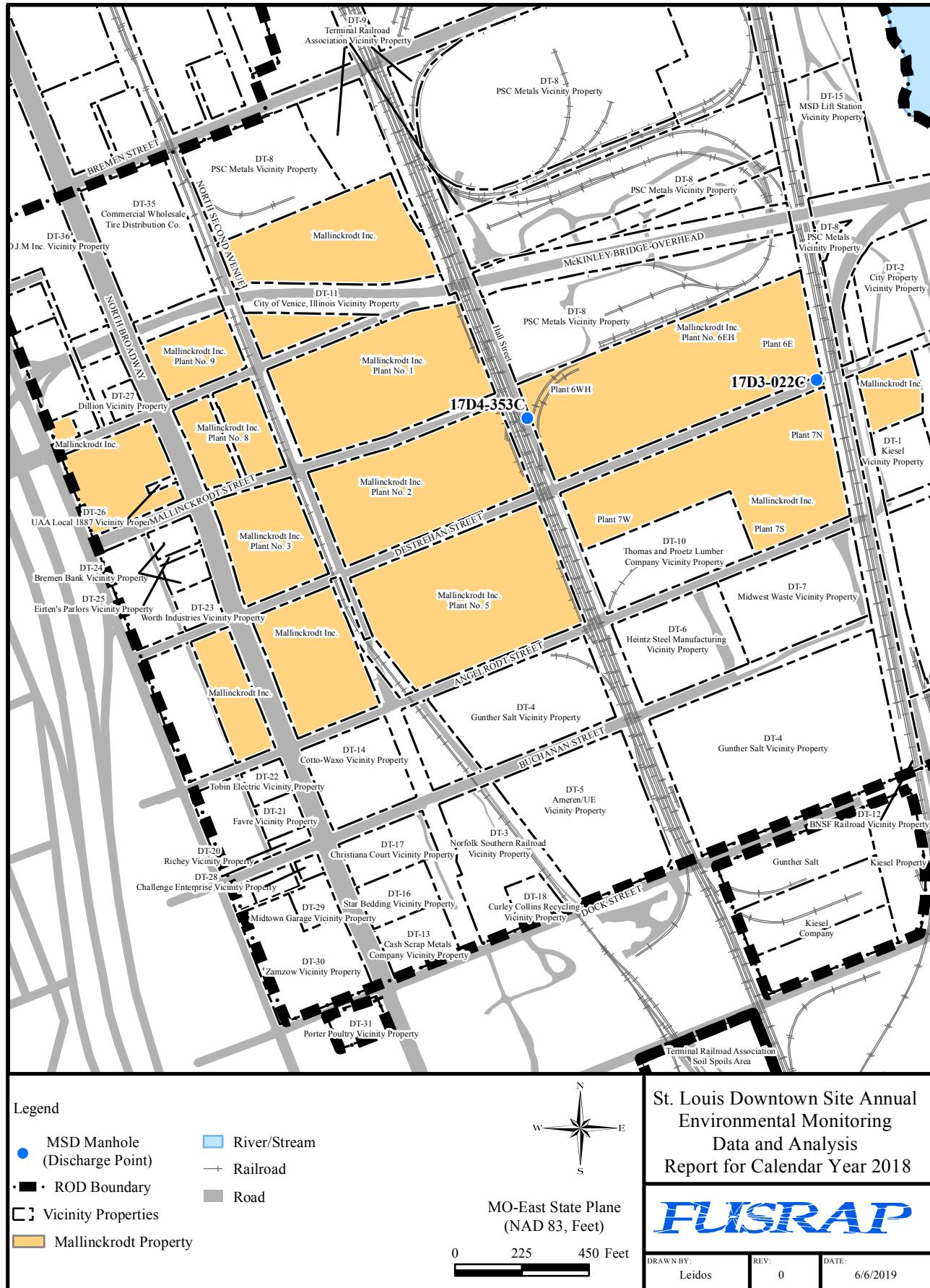
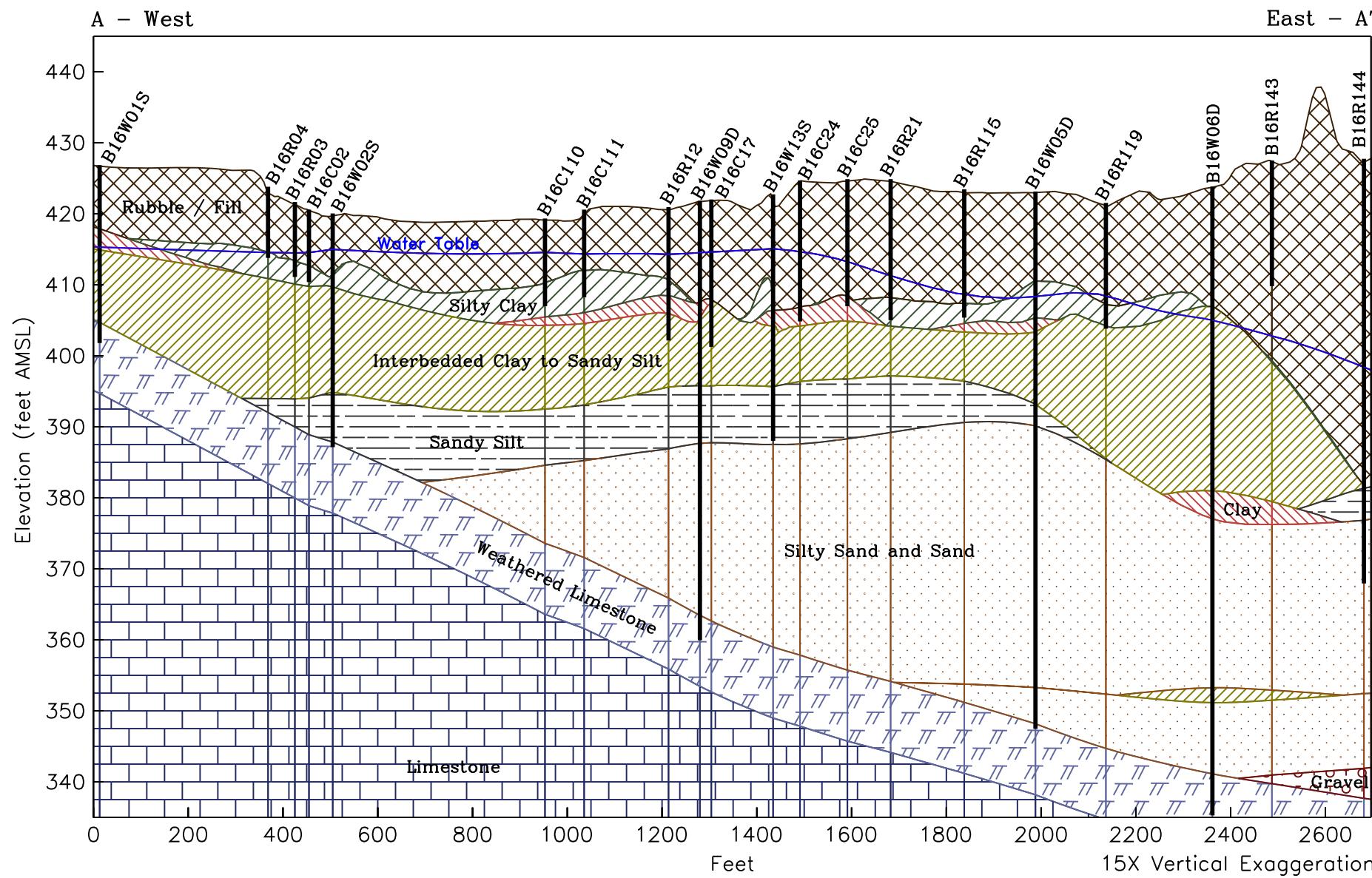


Figure 3-1. MSD Excavation-Water Discharge Points at the SLDS

Unit Designation	Approximate Thickness (ft)	Description						
Upper Hydrostratigraphic Unit (HU-A)	0-25	<p>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.</p>						
	0-10	<p>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.</p>						
	0-5	<p>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.</p>						
	0-2.5	<p>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.</p>						
Lower Hydrostratigraphic Unit (HU-B)	0-10	<p>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.</p>						
	0-50	<p>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.</p>						
Limestone Bedrock Unit (HU-C)	Total thickness not penetrated during drilling	<p>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.</p>						
SOURCE: MODIFIED FROM DOE 1994. NOTE: THE CODES IN PARENTHESES FOLLOWING THE LITHOLOGIES ARE THE UNIFIED SOIL CLASSIFICATION SYSTEM (USCS) CODES.		 <p>St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2018</p> <table border="1"> <tr> <td>DRAWN BY:</td> <td>REV. NO./DATE:</td> <td>CAD FILE:</td> </tr> <tr> <td>C.Kaple</td> <td>0 - 04/17/2019</td> <td></td> </tr> </table>	DRAWN BY:	REV. NO./DATE:	CAD FILE:	C.Kaple	0 - 04/17/2019	
DRAWN BY:	REV. NO./DATE:	CAD FILE:						
C.Kaple	0 - 04/17/2019							
THE CODES IN PARENTHESES FOLLOWING THE COLOR DESCRIPTIONS REPRESENT CHROMA, HUE, AND VALUE FROM THE MUNSELL SOIL COLOR CHARTS.								
NOT TO SCALE								

Figure 4-1. Generalized Stratigraphic Column for the SLDS



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

Cross Section Location Map



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St. Louis Downtown Site
Annual Environmental Monitoring
Data and Analysis Report for
Calendar Year 2018

Drawn By: R. Smith

Date: 03/24/1999, rev01/24/2017

File: SLDSGlg01XSectA.sho

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

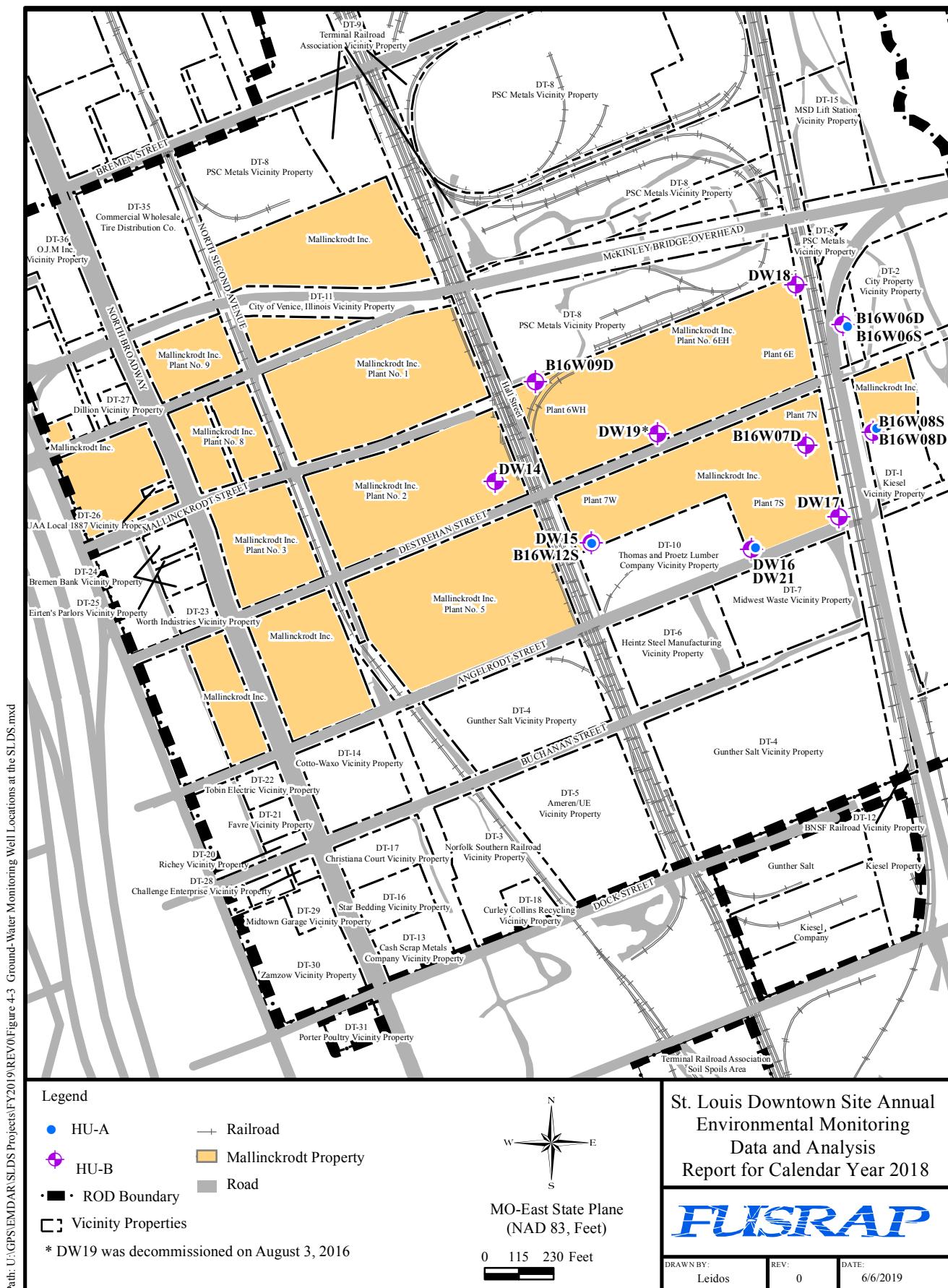


Figure 4-3. Ground-Water Monitoring Well Locations at the SLDS

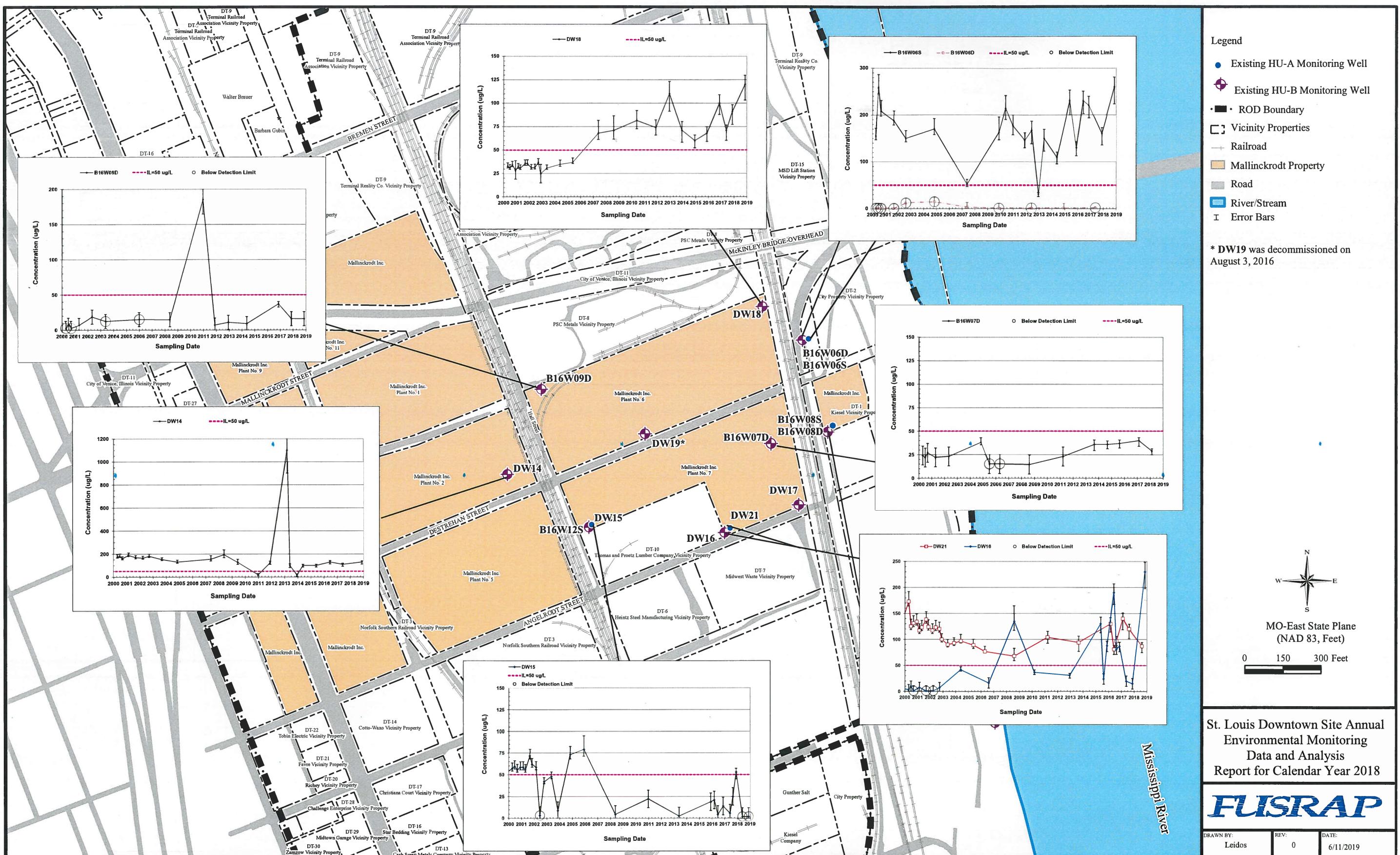


Figure 4-4. Arsenic Concentration Trends in Unfiltered Ground Water at the SLDS

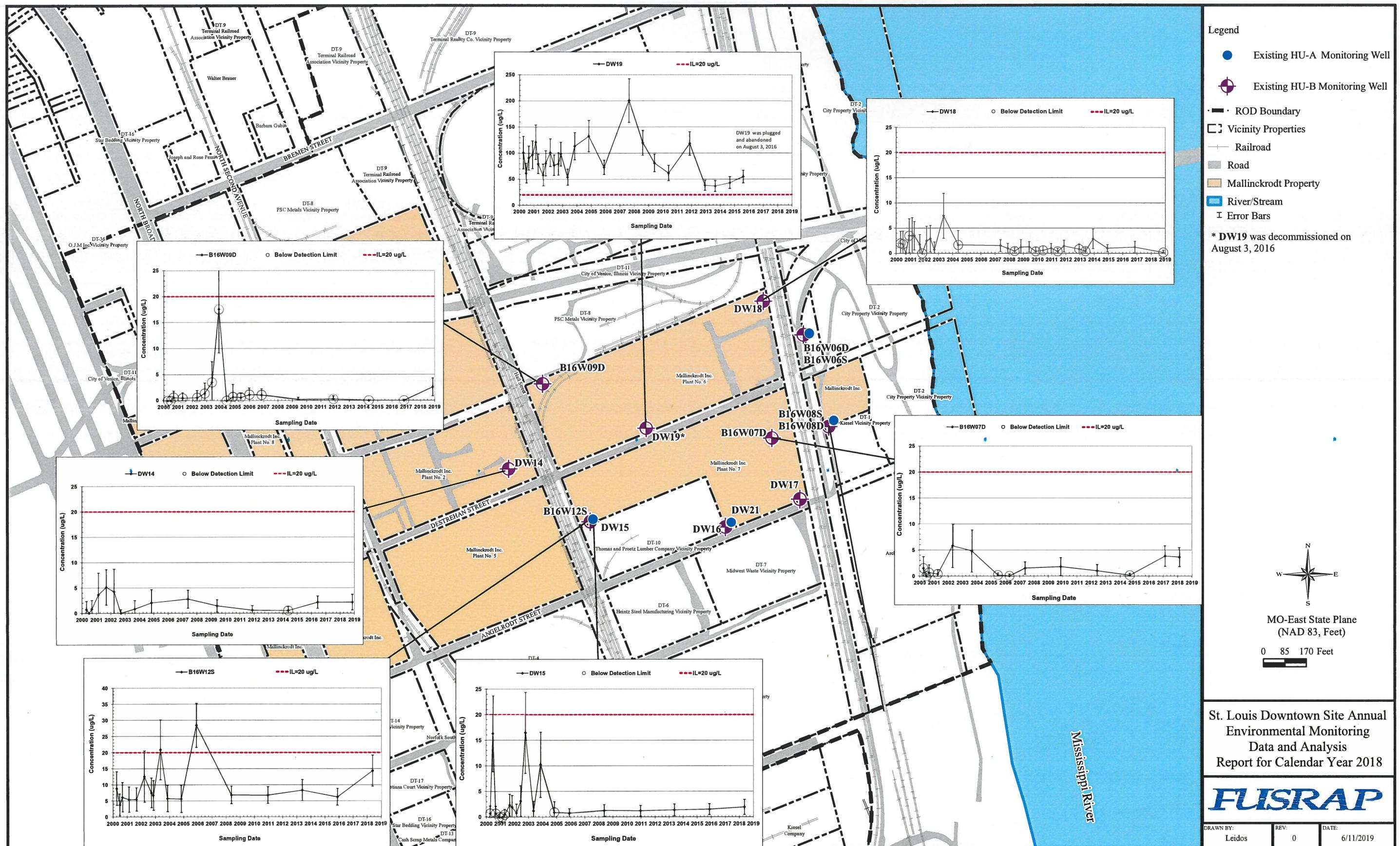
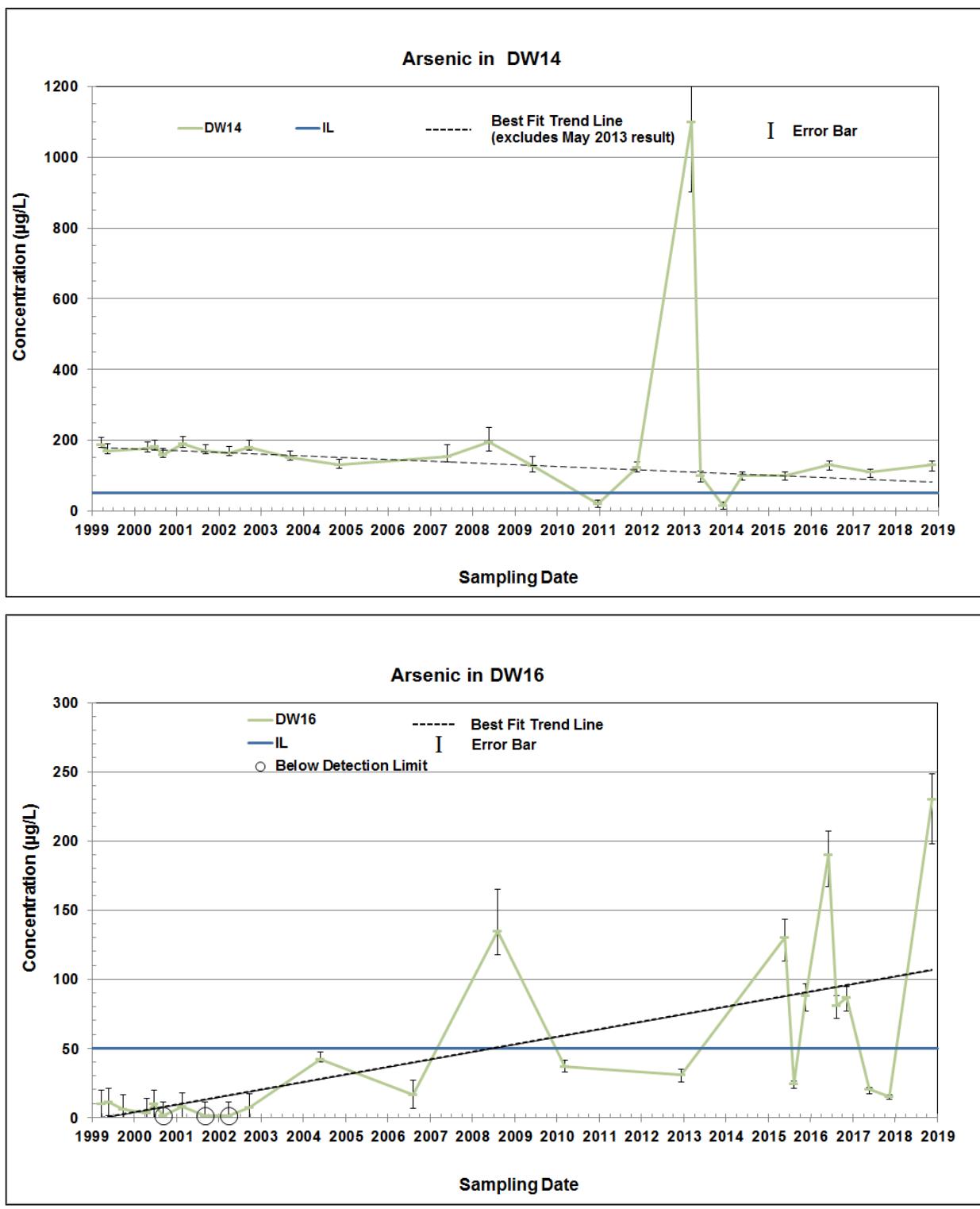


Figure 4-5. Total U Concentration Trends in Unfiltered Ground Water at the SLDS



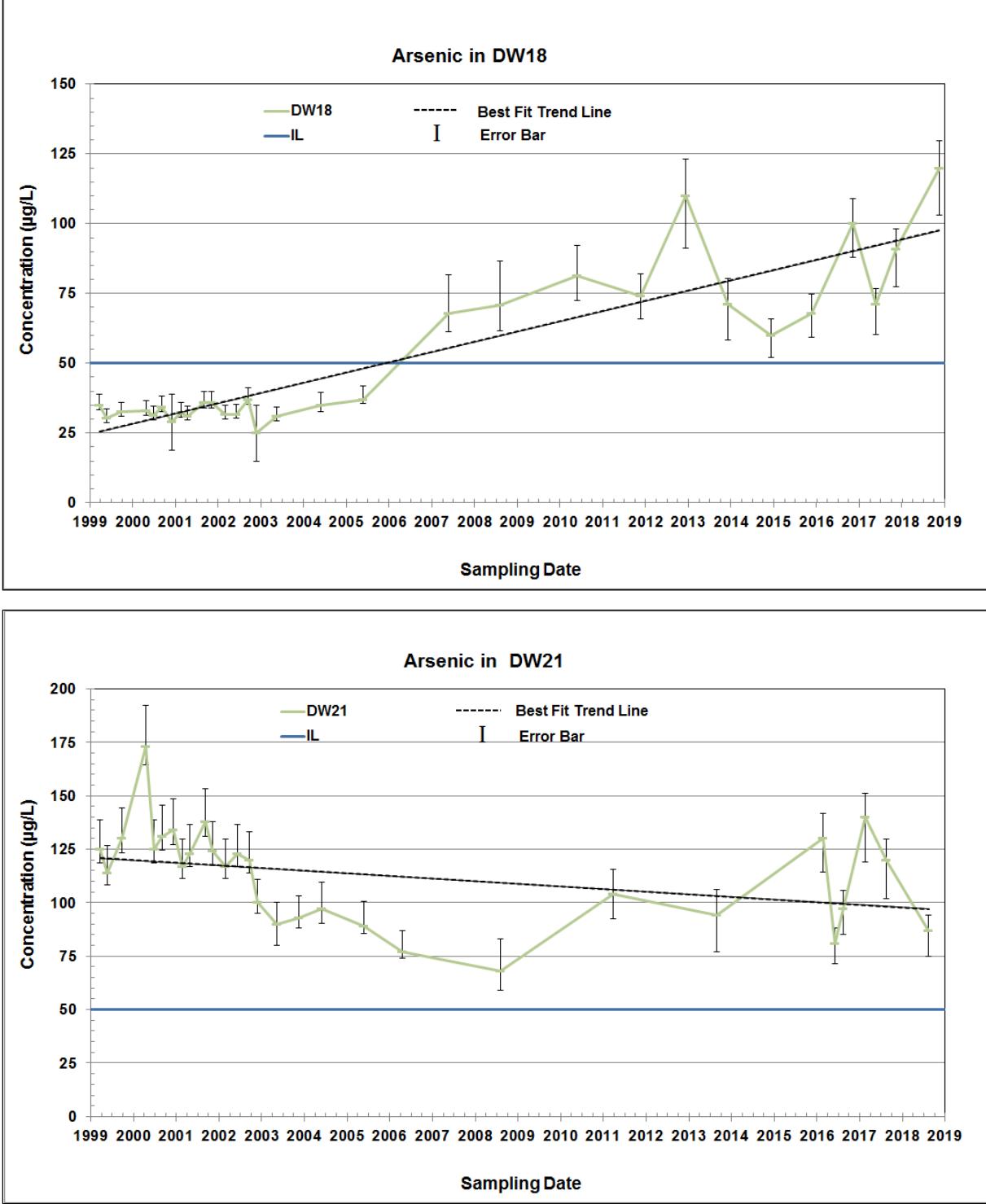
Notes:

For arsenic results less than 3 times the reporting limit (RL), the error bar represents $\pm \text{RL}$.

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.

Figure 4-6. Time-Versus-Concentration Plots for Arsenic and Cadmium in Ground-Water Monitoring Wells at the SLDS



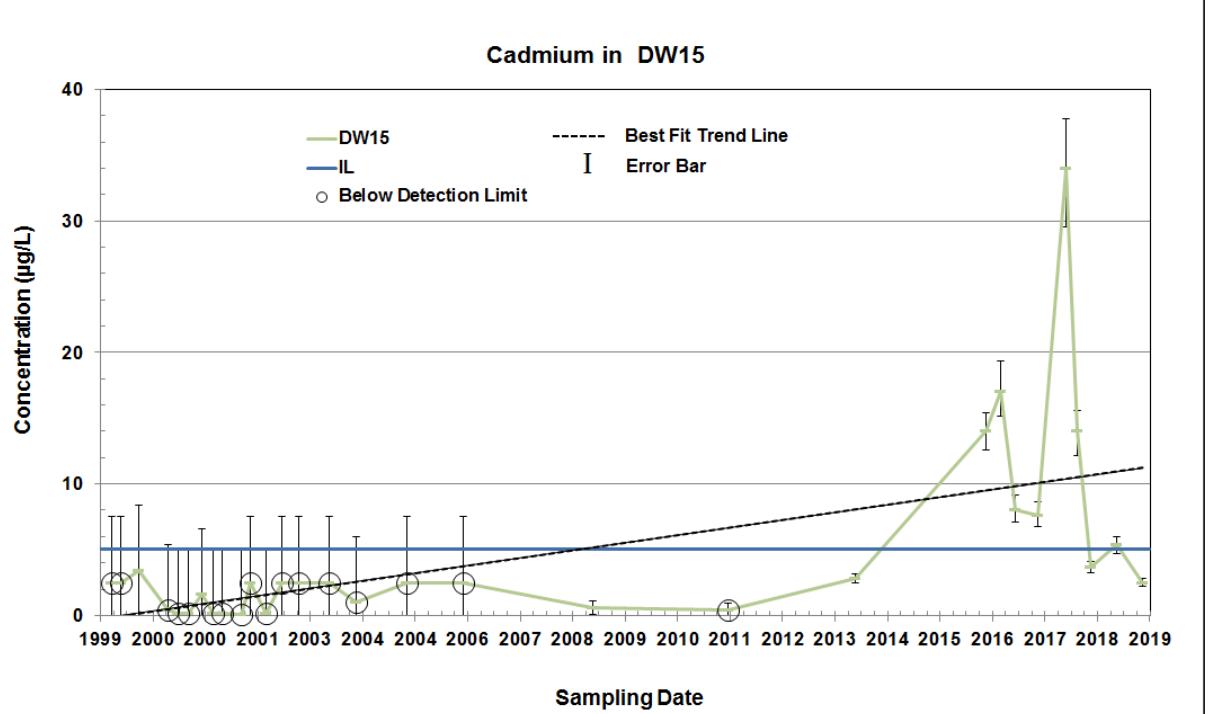
Notes:

For arsenic results less than 3 times the RL, the error bar represents $\pm \text{RL}$.

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.

Figure 4-6. Time-Versus-Concentration Plots for Arsenic and Cadmium in Ground-Water Monitoring Wells at the SLDS (Continued)



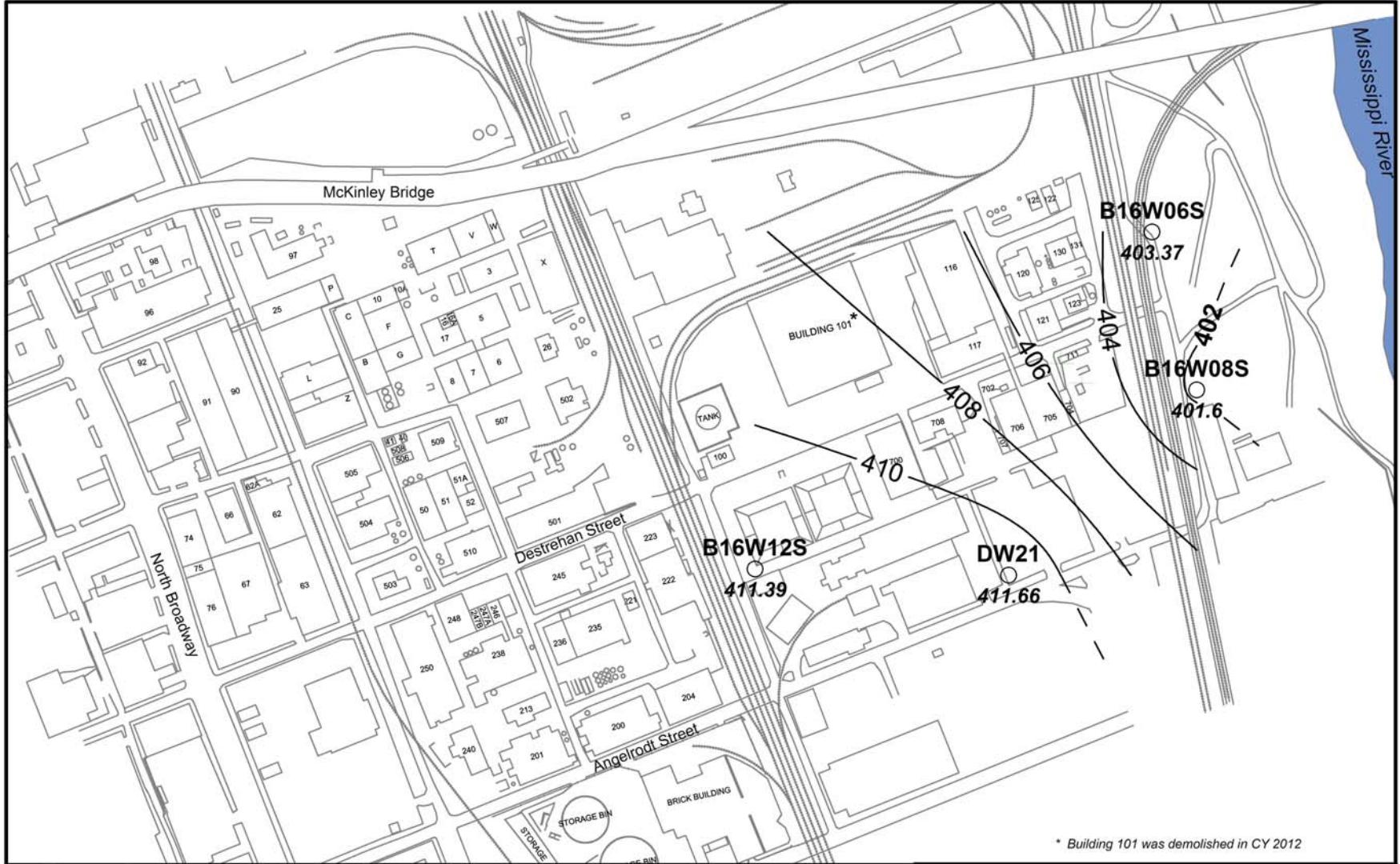
Notes:

For cadmium results less than 3 times the RL, the error bar represents \pm RL.

For cadmium results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.

Error bars for cadmium 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.

Figure 4-6. Time-Versus-Concentration Plots for Arsenic and Cadmium in Ground-Water Monitoring Wells at the SLDS (Continued)



Legend:

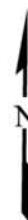
— HU-A Ground-Water Elevation Contours

○ HU-A Monitoring Well Locations

2.0 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft
0 200 400 600 800

MO - East State Plane
Coordinate System
(NAD83, Feet)



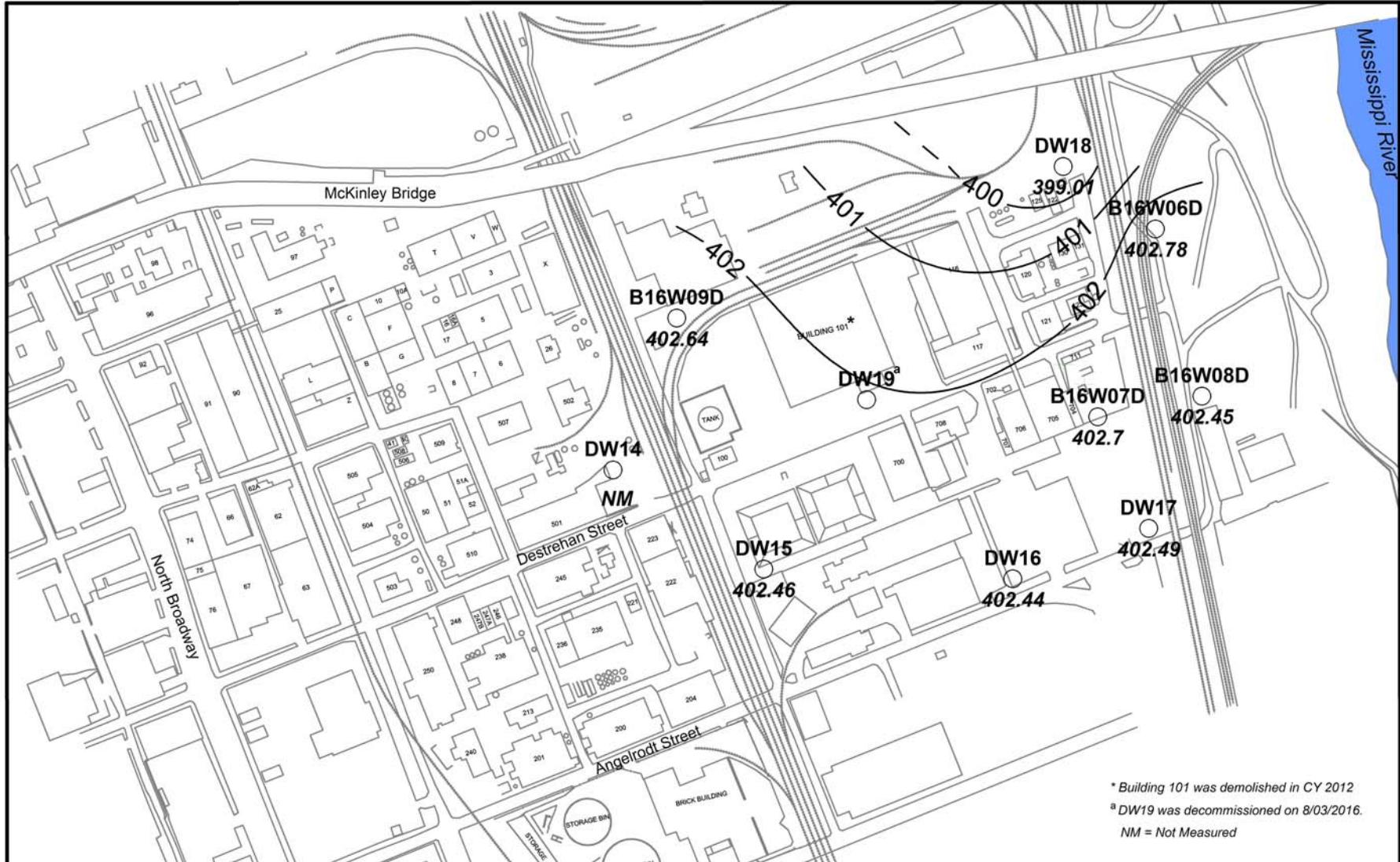
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CMW

REV.- DATE:
2/21/2019

Figure 4-7. HU-A Potentiometric Surface at the SLDS (May 17, 2018)



Legend:

- HU-B Ground-Water Elevation Contours
- HU-B Monitoring Well Locations

Ground-water elevations in feet above mean sea level (amsl)
1.0 foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft
0 200 400 600 800

MO - East State Plane
Coordinate System
(NAD83, Feet)

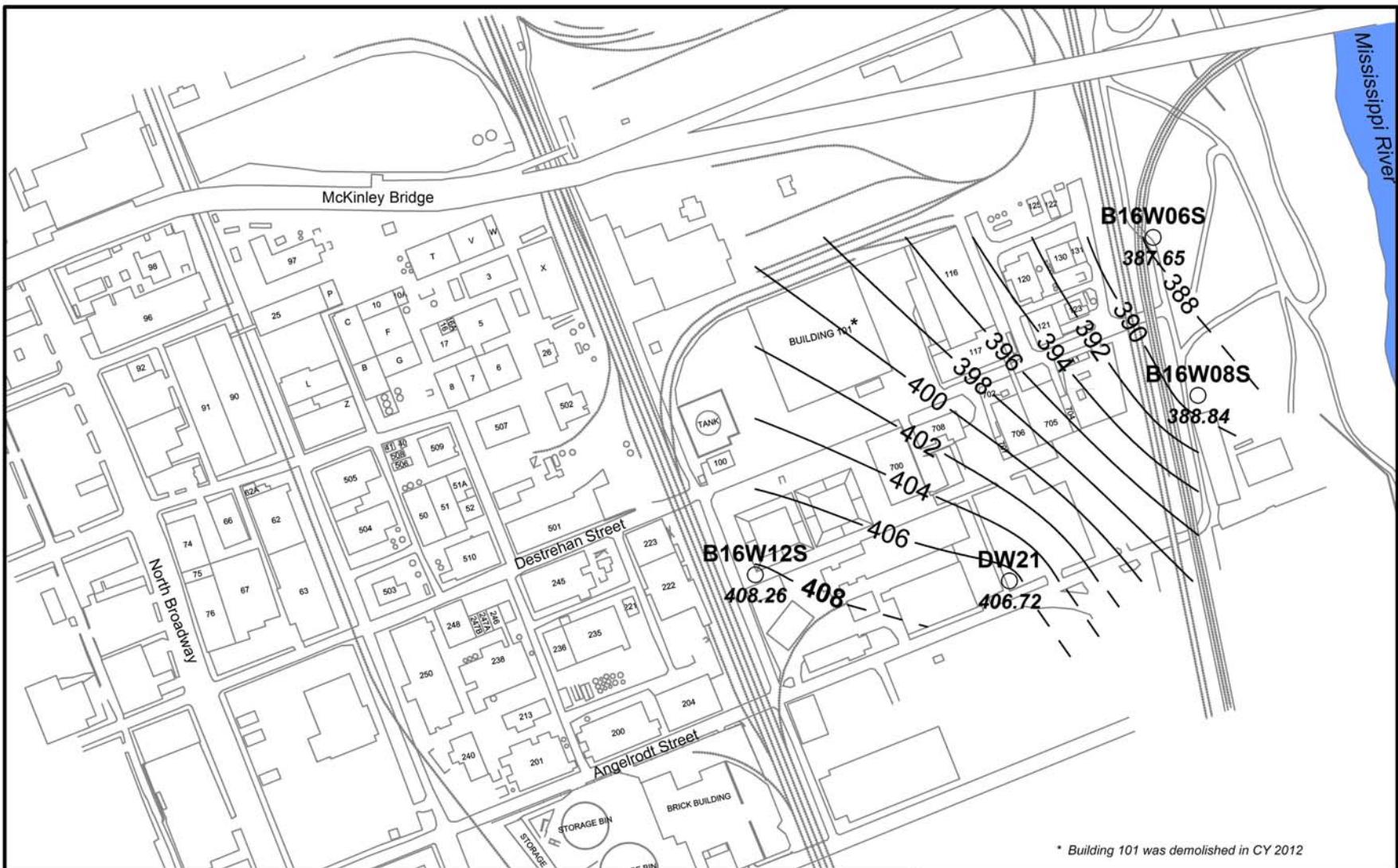


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Figure 4-8. HU-B Potentiometric Surface at the SLDS (May 17, 2018)



* Building 101 was demolished in CY 2012

Legend:

- HU-A Ground-Water Elevation Contours
- HU-A Monitoring Well Locations

Ground-water elevations in feet above mean sea level (amsl)
2.0 - foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft
0 200 400 600 800



MO - East State Plane
Coordinate System
(NAD83, Feet)

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2/21/2019

Figure 4-9. HU-A Potentiometric Surface at the SLDS (February 15, 2018)

St. Louis FUSRAP SLDS Dose Trend

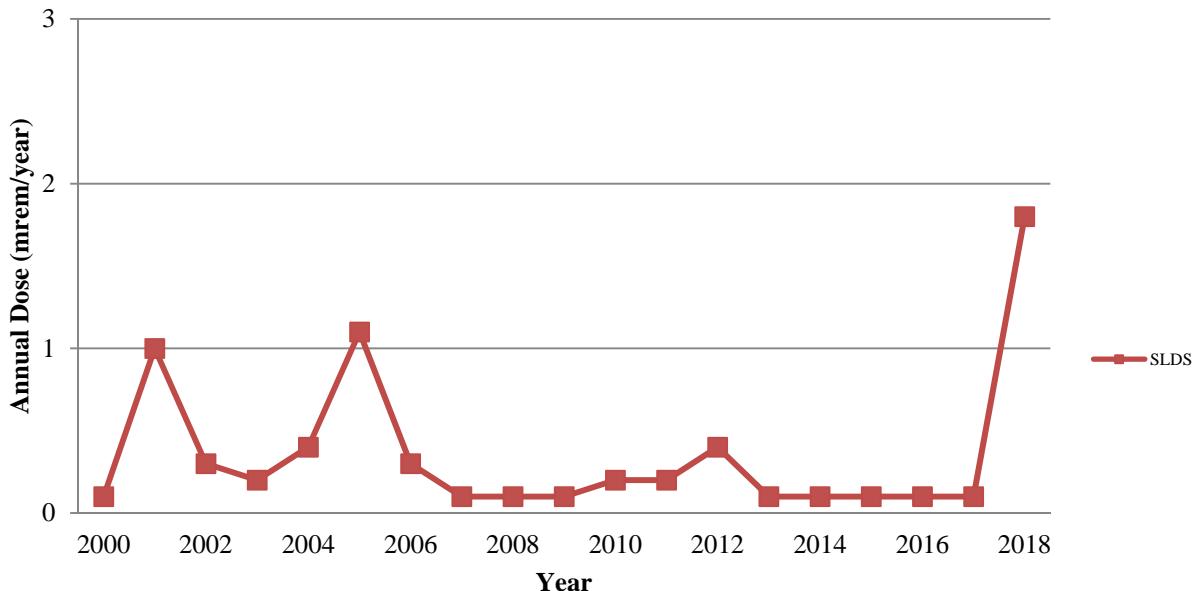


Figure 6-1. St. Louis FUSRAP SLDS Dose Trends

Maximum FUSRAP Dose vs. Background Dose (2000 - 2018)

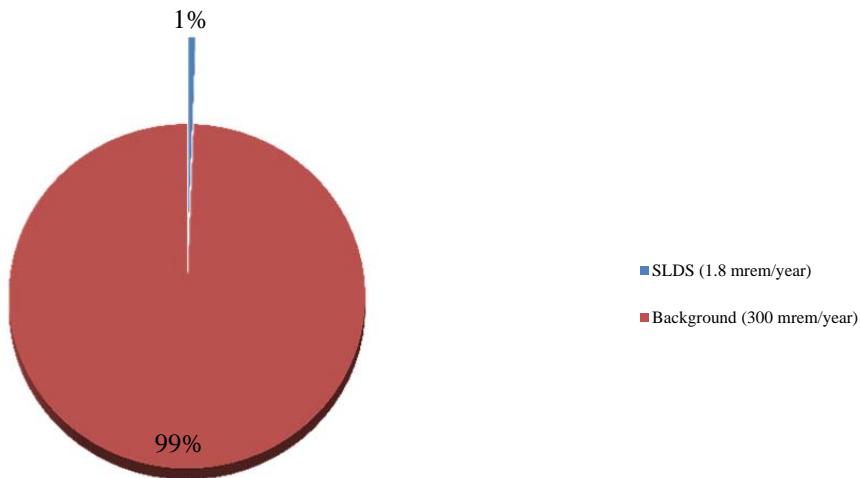
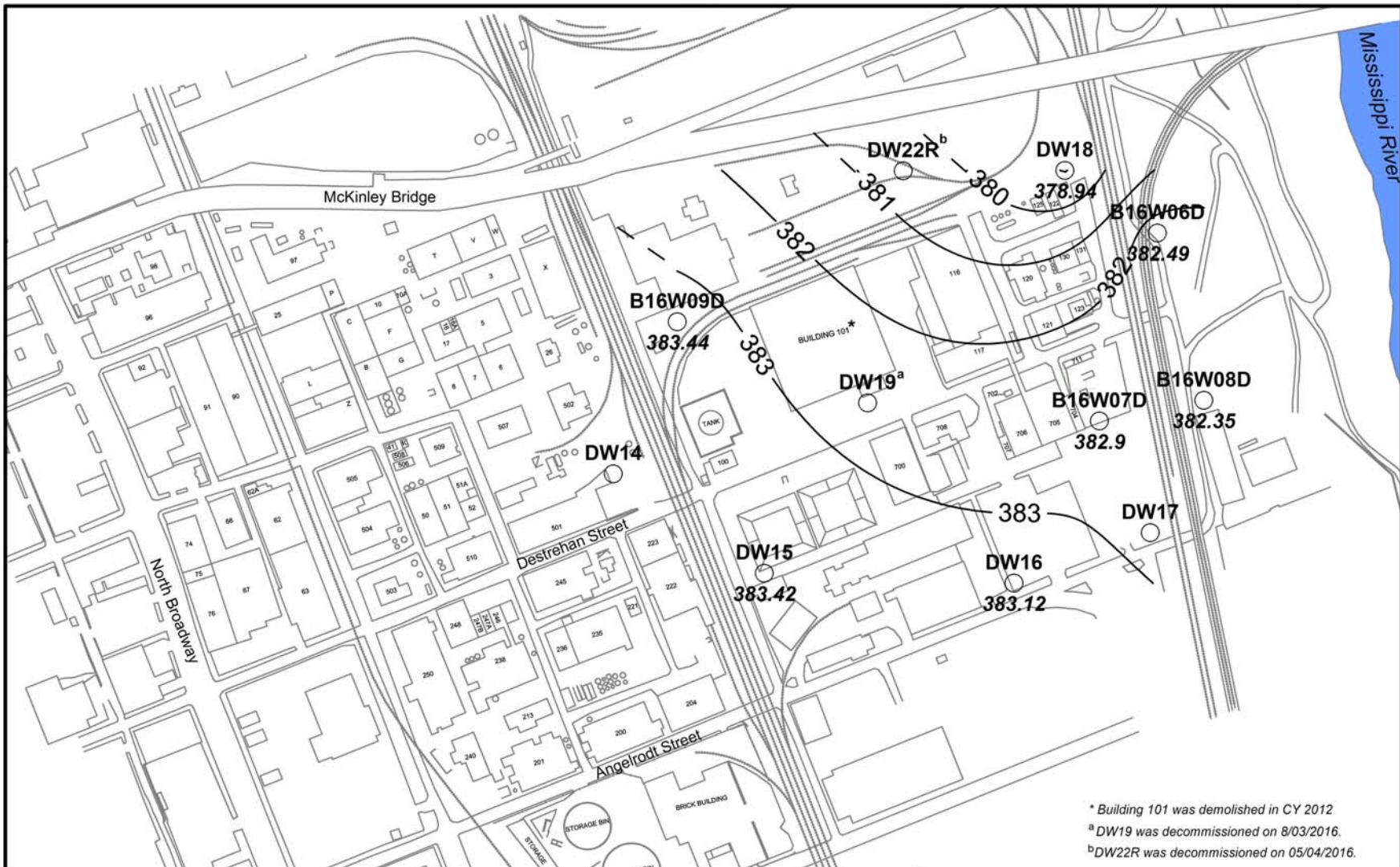


Figure 6-2. St. Louis FUSRAP SLDS Maximum Dose vs. Background Dose



Legend:

- HU-B Ground-Water Elevation Contours
- HU-B Monitoring Well Locations

Ground-water elevations in feet above mean sea level (amsl)
 1.0 foot contour interval; contours dashed where inferred.

SCALE: 1 inch = 400 ft

0	200	400	600	800
---	-----	-----	-----	-----



MO - East State Plane
 Coordinate System
 (NAD83, Feet)

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St. Louis Downtown Site Annual
 Environmental Monitoring Data and
 Analysis Report for Calendar Year 2018

DRAWN BY:

CMW

REV. - DATE:

2/21/19

Figure 4-10. HU-B Potentiometric Surface at the SLDS (February 15, 2018)

APPENDIX A

**ST. LOUIS DOWNTOWN SITE 2018 RADIONUCLIDE EMISSIONS NESHAP REPORT
SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 CFR 61, SUBPART I**

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- Figure A-1. SLDS Critical Receptors

LIST OF ATTACHMENTS

Attachment A-1	Calculated Emission Rates from St. Louis Downtown Site Properties
Attachment A-2	CAP88-PC Output Report for St. Louis Downtown Site Properties

ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	U.S. Atomic Energy Commission
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	<i>Code of Federal Regulations</i>
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
NAD	normalized absolute difference
NESHAP	National Emission Standard for Hazardous Air Pollutants
Pa	protactinium
Ra	radium
RA	remedial action
ROD	<i>Record of Decision for the St. Louis Downtown Site</i>
SLDS	St. Louis Downtown Site
SLS	St. Louis Sites
SU	survey unit
Th	thorium
U	uranium
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.

$^{\circ}\text{C}$	degree(s) Celsius (centigrade)
$\mu\text{Ci}/\text{cm}^3$	microcurie(s) per cubic centimeter
$\mu\text{Ci}/\text{mL}$	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) 2018. 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 Heintz Steel, Destrehan Street, Plant 1, Gunther Salt, and Plant 6 Loadout.

Emissions from the SLDS were evaluated for the entire CY 2018 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 0.2 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: 8945 Latty Ave.
Berkeley, MO 63134
Contact: Jon Rankins

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1.0 PURPOSE

This NESHP 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 Heintz Steel, Destrehan Street, Plant 1, Gunther Salt, 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.

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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 receptors¹, 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 2014). The USEPA continues to maintain and update the CAP88-PC modeling program, and has updated it as recently as September, 2014. 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 receptors¹ is obtained using USEPA computer code CAP88-PC, Version 4.0 (USEPA 2014). 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.

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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 °C

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

Table A-1. St. Louis Wind Speed Frequency

Wind Speed Group (Knots)	Frequency (Percent)
0 – 3	0.10
4 – 7	0.29
8 – 12	0.36
13 – 18	0.21
19 – 24	0.03
25 – 31	0.01

Knot = 1.151 miles per hour

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

Table A-2. St. Louis Wind Rose Frequency

Wind Direction		Wind Frequency (Percent)	Wind Direction		Wind Frequency (Percent)
Wind Toward	Wind From		Wind Toward	Wind From	
N	S	0.131	S	N	0.056
NNW	SSE	0.074	SSE	NNW	0.043
NW	SE	0.068	SE	NW	0.061
WNW	ESE	0.069	ESE	WNW	0.087
W	E	0.055	E	W	0.090
WSW	ENE	0.028	ENE	WSW	0.068
SW	NE	0.031	NE	SW	0.054
SSW	NNE	0.037	NNE	SSW	0.050

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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 *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 2018.

4.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2018

Excavation activities were performed at the SLDS areas of Heintz Steel (DT-6), Destrehan Street (and adjacent Plant 6 West Half [henceforth referred to as Plant 6WH] and Plant 7 West [henceforth referred to as Plant 7W]), Plant 1, and Gunther Salt (DT-4). For the purposes of this evaluation, the excavations at Plant 6WH and Plant 7W are included with the Destrehan Street excavation. 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 2018, with the results used to determine the excavation 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 data stored in the FUSRAP St. Louis database. Attachment A-1 contains Table A-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 2018

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 A-1 and listed in Table A-3. Distances and directions to critical receptors are determined by using tools in a geographic information system (GIS).

Table A-3. SLDS Critical Receptors for CY 2018

Sources	Nearest Residence		Farm		Business		School	
	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction
Heintz Steel	400	W	3,125	NE	120	NE	850	NW
Destrehan Street	465	SW	2,980	NE	80	SSE	800	W
Plant 1	420	SW	2,950	NE	325	SSE	560	W
Gunther Salt	240	W	3,270	NE	290	NE	790	NW
Plant 6 Loadout	495	SW	2,915	NE	160	SSE	750	W

4.6 EMISSIONS DETERMINATION

4.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from several locations 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 2018. The average gross alpha and beta concentrations (in $\mu\text{Ci/mL}$) are determined for each area or plant location for CY 2018. The area or plant average concentrations are presented in Table A-4.

Table A-4. SLDS Average Gross Alpha and Beta Airborne Particulate Emissions for CY 2018

Monitoring Location	Average Concentration ($\mu\text{Ci/mL}$) ^a	
	Gross Alpha	Gross Beta
Heintz Steel (DT-6)	7.48E-15	2.44E-14
Destrehan Street	5.01E-15	2.91E-14
Plant 1 Building 17	3.91E-15	2.84E-14
Gunther Salt (DT-4)	6.60E-16	2.69E-14
Plant 6 Loadout	4.08E-15	2.77E-14
Background Concentrations ^b	4.19E-15	2.01E-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 $\mu\text{Ci}/\text{cm}^3$) for that area. The gross average concentration ($\mu\text{Ci}/\text{cm}^3$) 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.

$$D = (1.3 A)^{1/2} \quad \text{Equation 1}$$

where:

D = effective diameter of the release in m

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

Table A-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 2018. Calculation of the effective surface area is contained in Attachment A-1.

Table A-5. SLDS Excavation Effective Areas and Effective Diameters for CY 2018

SLDS Location	Effective Area (m^2)	Effective Diameter (m)
Heintz Steel	2	2
Destrehan Street	1,565	45
Plant 1	15	4
Gunther Salt	0.4	1
Plant 6 Loadout	460	24

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.

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

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 A-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 A-7. Flow rate and average radionuclide concentration data are contained in Attachment A-1.

Table A-6. SLDS Site Release Flow Rates for CY 2018

SLDS Location	Site Release Flow Rate (m^3/minute)
Heintz Steel	4.8E+02
Destrehan Street	4.3E+05
Plant 1	4.0E+03
Gunther Salt	1.1E+02
Plant 6 Loadout	1.3E+05

4.6.2 St. Louis Downtown Site Total Airborne Radioactive Particulate Emission Rates

The CY 2018 emission rates for each excavated SLDS area are presented in Table A-7 and are based on the air samples collected from the perimeter of the excavated areas.

Table A-7. SLDS Area Airborne Radioactive Particulate Emission Rates Based on Excavation Perimeter Air Samples for CY 2018

Radionuclide	Emission (Ci/year) ^a				
	Heintz Steel	Destrehan Street	Plant 1	Gunther Salt	Plant 6 Loadout
Uranium (U)-238	1.6E-07	3.4E-04	4.7E-07	5.0E-08	8.3E-05
U-235	9.4E-09	1.8E-05	2.8E-08	2.8E-09	4.5E-06
U-234	1.6E-07	3.4E-04	4.7E-07	5.0E-08	8.3E-05
Radium (Ra)-226	8.2E-08	6.9E-05	1.1E-07	3.4E-08	3.3E-05
Thorium (Th)-232	1.3E-08	1.6E-05	3.6E-08	1.0E-08	9.3E-06
Th-230	5.3E-07	3.4E-05	1.5E-07	6.2E-08	2.9E-05
Th-228	1.9E-08	1.6E-05	3.9E-08	1.1E-08	9.3E-06
Ra-224	1.9E-08	1.6E-05	3.9E-08	1.1E-08	9.3E-06
Th-234	3.2E-06	3.0E-03	2.6E-05	6.9E-07	8.0E-04
Protactinium (Pa)-234m	3.2E-06	3.0E-03	2.6E-05	6.9E-07	8.0E-04
Th-231	1.9E-07	1.6E-04	1.5E-06	3.8E-08	4.3E-05
Ra-228	3.2E-07	1.3E-04	2.1E-06	9.9E-08	9.0E-05
Actinium (Ac)-228	3.2E-07	1.3E-04	2.1E-06	9.9E-08	9.0E-05
Pa-231	1.4E-07	1.8E-05	2.8E-08	2.8E-09	4.5E-06
Ac-227	1.3E-07	1.8E-05	2.8E-08	2.8E-09	4.5E-06

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

4.7 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment A-2. The effective area factor input was taken from Table A-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 A-8.

Table A-8. SLDS CAP88-PC Results for Critical Receptors for CY 2018

Source	Dose (mrem/year)			
	Nearest Residence ^a	Farm ^a	Business ^b	School ^b
Heintz Steel	<0.1	<0.1	<0.1	<0.1
Destrehan Street	<0.1	<0.1	0.2	<0.1
Plant 1	<0.1	<0.1	<0.1	<0.1
Gunther Salt	<0.1	<0.1	<0.1	<0.1
Plant 6 Loadout	<0.1	<0.1	<0.1	<0.1
SLDS Total Dose ^c	<0.1	<0.1	0.2	<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.
- USACE 1998. U.S. Army Corps of Engineers. *Record of Decision for the St. Louis Downtown Site*, St. Louis, Missouri, Final, July.
- 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.
- USEPA 2014. U.S. Environmental Protection Agency. CAP88-PC Version 4.0 Computer Code, U.S. Environmental Protection Agency. September.
- 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*.

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APPENDIX A

FIGURE

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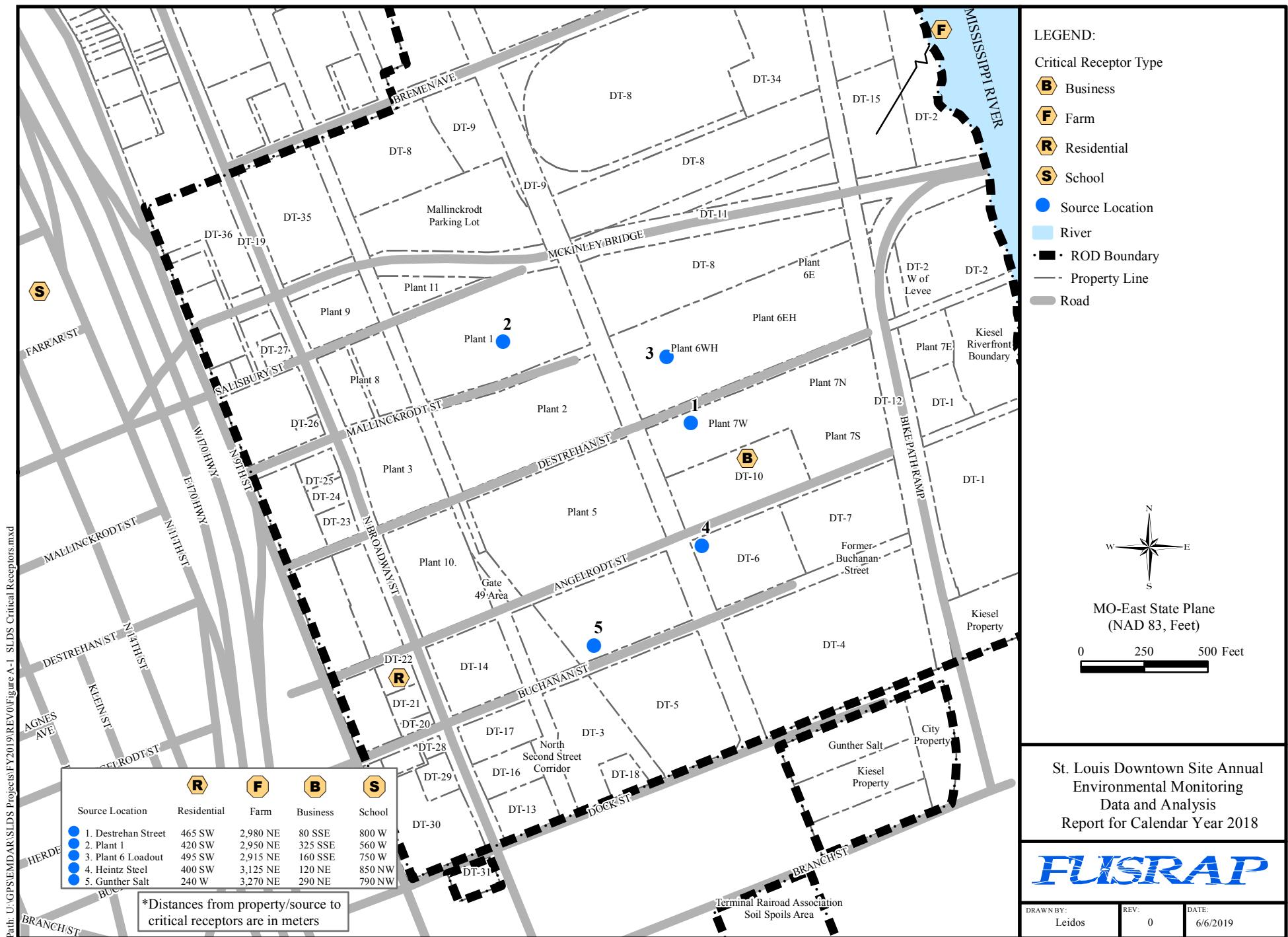


Figure A-1. SLDS Critical Receptors

LEGEND:

Critical Receptor Type

- B Business
- F Farm
- R Residential
- S School

Source Location

River

• - ROD Boundary

- Property Line

Road

N

MO-East State Plane (NAD 83, Feet)

0 250 500 Feet

St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2018

FUSRAP

DRAWN BY:	REV:	DATE:
Leidos	0	6/6/2019

ATTACHMENT A-1

**CALCULATED EMISSION RATES FROM
ST. LOUIS DOWNTOWN SITE PROPERTIES**

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Table A-1-1. SLDS Excavation/Loadout Area Soil Radionuclide Concentrations for CY 2018^a

Property	Heintz Steel	Destrehan Street	Plant 1	Gunther Salt	Plant 6 Loadout Average
Radionuclide	Average Concentration (pCi/g) ^a				
U-238	9.3	24.4	12.4	6.3	4.4
U-235	0.6	1.3	0.8	0.4	0.2
U-234	9.3	24.4	12.4	6.3	4.4
Ra-226	4.9	5.0	3.0	4.3	1.8
Th-232	0.8	1.1	1.0	1.3	0.5
Th-230	31.9	2.4	4.0	7.9	1.5
Th-228	1.1	1.1	1.1	1.4	0.5
Ra-224	1.1	1.1	1.1	1.4	0.5
Th-234	9.3	24.4	12.4	6.3	4.4
Pa-234m	9.3	24.4	12.4	6.3	4.4
Th-231	0.6	1.3	0.8	0.4	0.2
Ra-228	0.9	1.1	1.0	0.9	0.5
Ac-228	0.9	1.1	1.0	0.9	0.5
Pa-231	8.2	1.3	0.8	0.4	0.2
Ac-227	7.8	1.3	0.8	0.4	0.2

^a Average concentration from the SLDS CY 2018 excavated property and loadout area. When data were not available, the radionuclide was assumed to be in secular equilibrium with parent radionuclide.

Table A-1-2. SLDS Average Gross Alpha and Beta Airborne Particulate Concentrations for CY 2018

Monitoring Location	Average Concentration ($\mu\text{Ci/mL}$) for Location ^a	
	Gross Alpha	Gross Beta
Heintz Steel	7.48E-15	2.44E-14
Destrehan Street/Plant 6WH/Plant 7W	5.01E-15	2.91E-14
Plant 1	3.91E-15	2.84E-14
Gunther Salt	6.60E-16	2.69E-14
Plant 6 Loadout	4.08E-15	2.77E-14
Background Concentration ^b	4.91E-15	2.01E-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 A-1-3. SLDS Excavation Data for CY 2018

Excavation Location Name	Surface Area (m^2)	Start Date ^a	Backfill Date ^a
Heintz Steel Storage Building, Survey Unit (SU)-1A	32	08/22/18	09/10/18
Plant 6WH, Building 101 Area, SU-19C	266	01/01/18	01/29/18
Plant 6WH, Building 101 Area, SU-19D	127	01/01/18	02/28/18
Destrehan Street East/Plant 7W North; DS Area 2, SU-5A	452	01/01/18	02/28/18
Destrehan Street East/Plant 7W North, DS Area 1, SU-7A	13	03/27/18	04/26/18
Destrehan Street East/Plant 7W North, DS Area 1, SU-5B	55	01/01/18	09/10/18
Destrehan Street East/Plant 7W North, DS Area 1, SU-6A	80	05/15/18	11/07/18
Destrehan Street East/Plant 7W North, DS Area 1, SU-6B	233	07/16/18	12/31/18
Destrehan Street East/Plant 7W North, DS Area 1, SU-6C	147	07/16/18	12/31/18
Destrehan Street East/Plant 7W North, P7W Area 1, SU-6A	376	01/08/18	11/07/18
Destrehan Street East/Plant 7W North, P7W Area 1, SU-6B	600	01/08/18	09/10/18
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7A	527	05/15/18	11/07/18
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7B	405	07/16/18	12/31/18
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7C	77	07/16/18	12/31/18
Plant 1, Building 17 Area, SU-1F	45	01/01/18	01/02/18

Table A-1-3. SLDS Excavation Data for CY 2018 (Continued)

Excavation Location Name	Surface Area (m ²)	Start Date ^a	Backfill Date ^a
Plant 1, Building 17 Area, SU-1G	43	01/01/18	01/05/18
Plant 1, Building 17 Area, SU-1H	65	01/01/18	01/10/18
Plant 1, Building 17 Area, SU-1I	6	04/18/18	04/26/18
Plant 1, Building 17 Area, SU-1J	54	05/23/18	06/19/18
Plant 1, Building 17 Area, SU-1K	95	06/25/18	07/24/18
Gunther Salt Inaccessible, Area 4, SU-4A	4	11/28/18	11/28/18
Gunther Salt Inaccessible, Area 4, SU-4B	13	11/29/18	11/29/18
Gunther Salt Inaccessible, Area 4, SU-4C	16	12/03/18	12/03/18
Gunther Salt Inaccessible, Area 4, SU-4D	14	12/04/18	12/04/18
Gunther Salt Inaccessible, Area 4, SU-4E	14	12/05/18	12/05/18
Gunther Salt Inaccessible, Area 4, SU-4F	10	12/06/18	12/06/18
Gunther Salt Inaccessible, Area 4, SU-4G	34	12/10/18	12/11/18
Gunther Salt Inaccessible, Area 4, SU-4H	4	12/17/18	12/17/18
Gunther Salt Inaccessible, Area 4, SU-4I	5	12/18/18	12/18/18

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

Table A-1-4. SLDS Average Surface Area and Flow Rate Per Location at the SLDS for CY 2018

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 π [(D) ² / 4]*60 (m ³ /minute)
Heintz Steel					
Heintz Steel Storage Building, SU-1A	20	640			
	Total	640		2	2
Destrehan Street					
Plant 6W, Building 101 Area, SU-19C	29	7,714			
Plant 6W, Building 101 Area, SU-19D	59	7,493			
Destrehan Street East/Plant 7W North; DS Area 2, SU-5A	59	26,668			
Destrehan Street East/Plant 7W North, DS Area 1, SU-7A	31	403			
Destrehan Street East/Plant 7W North, DS Area 1, SU-5B	253	13,915			
Destrehan Street East/Plant 7W North, DS Area 1, SU-6A	177	14,160			
Destrehan Street East/Plant 7W North, DS Area 1, SU-6B	169	39,377			
Destrehan Street East/Plant 7W North, DS Area 1, SU-6C	169	24,843			
Destrehan Street East/Plant 7W North, P7W Area 1, SU-6A	304	114,304			
Destrehan Street East/Plant 7W North, P7W Area 1, SU-6B	246	147,600			
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7A	177	93,279			
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7B	169	68,445			
Destrehan Street East/Plant 7W North, P7W Area 1, SU-7C	169	13,013			
	Total	571,214		1565	45
					4.3E+05

Table A-1-4. SLDS Average Surface Area and Flow Rate Per Location at the SLDS for CY 2018 (Continued)

Location	Total Days	Surface Area x Total Days	Average Surface Area/Year (A)^a (m²)	Diameter of Stack D = (1.3 A)^{1/2} (m)	Flow Rate F = V π [(D)² / 4]*60 (m³/minute)
Plant 1					
Plant 1, Building 17 Area, SU-1F	2	90			
Plant 1, Building 17 Area, SU-1G	5	215			
Plant 1, Building 17 Area, SU-1H	10	650			
Plant 1, Building 17 Area, SU-1I	9	54			
Plant 1, Building 17 Area, SU-1J	28	1,512			
Plant 1, Building 17 Area, SU-1K	30	2,850			
	Total	5,371		15	4
Gunther Salt					
Gunther Salt, Area 4, SU-4A	1	4			
Gunther Salt, Area 4, SU-4B	1	13			
Gunther Salt, Area 4, SU-4C	1	16			
Gunther Salt, Area 4, SU-4D	1	14			
Gunther Salt, Area 4, SU-4E	1	14			
Gunther Salt, Area 4, SU-4F	1	10			
Gunther Salt, Area 4, SU-4G	2	68			
Gunther Salt, Area 4, SU-4H	1	4			
Gunther Salt, Area 4, SU-4I	1	5			
	Total	148		0.4	1
SLDS Loadout					
SLDS Loadout	365	167,900			
	Total	167,900		460	24
					1.3E+05^b

^a Average surface area/year = [Σ(surface area x total days)]/365.^b This value has been multiplied by a factor of 0.23 to account for the loadout pile being uncovered for 2,000 hours per year.

Table A-1-5. SLDS Airborne Radioactive Particulate Emissions Based on Excavation Perimeter Air Samples for CY 2018

Property	Heintz Steel			Destrehan Street			Plant 1			Gunther Salt			Plant 6 Loadout		
	Radionuclide	Activity Fraction ^a	Emission Conc. ($\mu\text{Ci}/\text{cm}^3$) ^b	Release Rate (Ci/year) ^c	Activity Fraction ^a	Emission Conc. ($\mu\text{Ci}/\text{cm}^3$) ^b	Release Rate (Ci/year) ^c	Activity Fraction ^a	Emission Conc. ($\mu\text{Ci}/\text{cm}^3$) ^b	Release Rate (Ci/year) ^c	Activity Fraction ^a	Emission Conc. ($\mu\text{Ci}/\text{cm}^3$) ^b	Release Rate (Ci/year) ^c		
U-238	0.12	6.2E-16	1.6E-07	0.38	1.5E-15	3.4E-04	0.33	2.2E-16	4.7E-07	0.21	8.6E-16	5.0E-08	0.31	1.3E-15	8.3E-05
U-235	0.01	3.7E-17	9.4E-09	0.02	8.0E-17	1.8E-05	0.02	1.3E-17	2.8E-08	0.01	4.8E-17	2.8E-09	0.02	6.8E-17	4.5E-06
U-234 ^d	0.12	6.2E-16	1.6E-07	0.38	1.5E-15	3.4E-04	0.33	2.2E-16	4.7E-07	0.21	8.6E-16	5.0E-08	0.31	1.3E-15	8.3E-05
Ra-226	0.07	3.3E-16	8.2E-08	0.08	3.1E-16	6.9E-05	0.08	5.3E-17	1.1E-07	0.14	5.8E-16	3.4E-08	0.12	5.0E-16	3.3E-05
Th-232	0.01	5.2E-17	1.3E-08	0.02	7.0E-17	1.6E-05	0.03	1.7E-17	3.6E-08	0.04	1.8E-16	1.0E-08	0.03	1.4E-16	9.3E-06
Th-230	0.43	2.1E-15	5.3E-07	0.04	1.5E-16	3.4E-05	0.11	7.1E-17	1.5E-07	0.26	1.1E-15	6.2E-08	0.11	4.3E-16	2.9E-05
Th-228	0.02	7.6E-17	1.9E-08	0.02	7.0E-17	1.6E-05	0.03	1.9E-17	3.9E-08	0.05	1.9E-16	1.1E-08	0.03	1.4E-16	9.3E-06
Ra-224 ^d	0.02	7.6E-17	1.9E-08	0.02	7.0E-17	1.6E-05	0.03	1.9E-17	3.9E-08	0.05	1.9E-16	1.1E-08	0.03	1.4E-16	9.3E-06
Th-234	0.44	1.3E-14	3.2E-06	0.47	1.3E-14	3.0E-03	0.45	1.2E-14	2.6E-05	0.43	1.2E-14	6.9E-07	0.44	1.2E-14	8.0E-04
Pa-234m ^d	0.44	1.3E-14	3.2E-06	0.47	1.3E-14	3.0E-03	0.45	1.2E-14	2.6E-05	0.43	1.2E-14	6.9E-07	0.44	1.2E-14	8.0E-04
Th-231 ^d	0.03	7.8E-16	1.9E-07	0.02	7.1E-16	1.6E-04	0.03	7.3E-16	1.5E-06	0.02	6.5E-16	3.8E-08	0.02	6.6E-16	4.3E-05
Ra-228	0.04	1.3E-15	3.2E-07	0.02	5.7E-16	1.3E-04	0.04	9.9E-16	2.1E-06	0.06	1.7E-15	9.9E-08	0.05	1.4E-15	9.0E-05
Ac-228 ^d	0.04	1.3E-15	3.2E-07	0.02	5.7E-16	1.3E-04	0.04	9.9E-16	2.1E-06	0.06	1.7E-15	9.9E-08	0.05	1.4E-15	9.0E-05
Pa-231 ^d	0.11	5.5E-16	1.4E-07	0.02	8.0E-17	1.8E-05	0.02	1.3E-17	2.8E-08	0.01	4.8E-17	2.8E-09	0.02	6.8E-17	4.5E-06
Ac-227 ^d	0.10	5.2E-16	1.3E-07	0.02	8.0E-17	1.8E-05	0.02	1.3E-17	2.8E-08	0.01	4.8E-17	2.8E-09	0.02	6.8E-17	4.5E-06

^a Derived from the average soil radionuclide concentrations for the SLDS, as presented in Table A-1-1.^b Emission concentration is equal to the activity fraction times the gross alpha or gross beta airborne particulate concentrations listed in Table A-1-2.^c Release rate based on 365-day period at measured flow rate (Table A-1-4) for each site, as determined from the average annual wind speed (4.446 m per second) and calculated site area (Table A-1-4). (Note: 1 mL = 1 cm³).^d When data were not available, the radionuclide was assumed to be in secular equilibrium with parent radionuclide.

Conc. – concentration

ATTACHMENT A-2

**CAP88-PC OUTPUT REPORT FOR
ST. LOUIS DOWNTOWN SITE PROPERTIES**

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CAP88 OUTPUT RESULTS

DESTREHAN STREET

CAP88-PC

Version 4.0

Clean Air Act Assessment Package - 1988

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

Non-Radon Individual Assessment
Wed Mar 06 06:50:52 2019

Facility: Destrehan Street
Address:
 City: St. Louis
 State: MO Zip: 63147

Source Category: Area
 Source Type: Area
 Emission Year: 2018
DOSE Age Group: Adult

Comments: Air

Dataset Name: Destrehan Street
Dataset Date: Mar 6, 2019 06:50 AM
Wind File: C:\Users\finkenbinec\Documents\CAP88\Wind Files\Wind
Files\13994.WND

Wed Mar 06 06:50:52 2019

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	2.96E-01
UB_Wall	3.20E-01
Bone_Sur	2.41E+01
Brain	3.09E-01
Breasts	3.34E-01
St_Wall	3.12E-01
SI_Wall	3.10E-01
ULI_Wall	3.32E-01
LLI_Wall	3.76E-01
Kidneys	7.21E-01
Liver	1.84E+00
Muscle	3.42E-01
Ovaries	4.88E-01
Pancreas	2.98E-01
R_Marrow	1.37E+00
Skin	5.60E+00
Spleen	3.14E-01
Testes	5.28E-01
Thymus	3.10E-01
Thyroid	3.21E-01
GB_Wall	2.99E-01
Ht_Wall	3.09E-01
Uterus	3.06E-01
ET_Reg	1.43E+00
Lung_66	4.60E+00
Effectiv	1.37E+00

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	5.24E-02
INHALATION	1.03E+00
AIR IMMERSION	1.00E-05
GROUND SURFACE	2.90E-01
INTERNAL	1.08E+00
EXTERNAL	2.90E-01
TOTAL	1.37E+00

Wed Mar 06 06:50:52 2019

SUMMARY
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.23E-01
Th-234	7.42E-03
Pa-234m	4.56E-02
Pa-234	8.99E-04
U-234	1.49E-01
Th-230	7.20E-02
Ra-226	4.04E-02
Rn-222	3.00E-05
Po-218	5.36E-10
Pb-214	1.96E-02
At-218	2.01E-09
Bi-214	1.14E-01
Rn-218	1.17E-11
Po-214	6.34E-06
Tl-210	4.47E-05
Pb-210	9.65E-05
Bi-210	1.56E-03
Hg-206	1.26E-10
Po-210	4.04E-07
Tl-206	3.64E-09
U-235	1.01E-02
Th-231	3.29E-04
Pa-231	2.60E-01
Ac-227	1.97E-01
Th-227	2.40E-03
Fr-223	2.26E-05
Ra-223	2.68E-03
Rn-219	1.16E-03
At-219	0.00E+00
Bi-215	5.23E-09
Po-215	3.55E-06
Pb-211	2.28E-03
Bi-211	9.40E-04
Tl-207	1.18E-03
Po-211	4.53E-07
Th-232	6.23E-02
Ra-228	7.86E-02
Ac-228	3.46E-02
Th-228	8.42E-02
Ra-224	5.76E-03
Rn-220	2.39E-05
Po-216	5.77E-07
Pb-212	5.25E-03
Bi-212	6.13E-03
Po-212	0.00E+00
Tl-208	4.23E-02
TOTAL	1.37E+00

Wed Mar 06 06:50:52 2019

SUMMARY
Page 3

CANCER RISK SUMMARY

	Selected Individual
	Total Lifetime
Cancer	Fatal Cancer Risk
_____	_____

PATHWAY RISK SUMMARY

	Selected Individual
	Total Lifetime
Pathway	Fatal Cancer Risk
_____	_____
INGESTION	1.41E-08
INHALATION	2.11E-07
AIR IMMERSION	4.76E-12
GROUND SURFACE	1.36E-07
INTERNAL	2.25E-07
EXTERNAL	1.36E-07
TOTAL	3.61E-07

Wed Mar 06 06:50:52 2019

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	4.12E-08
Th-234	3.05E-09
Pa-234m	7.98E-09
Pa-234	4.89E-10
U-234	5.11E-08
Th-230	1.59E-08
Ra-226	2.11E-08
Rn-222	1.64E-11
Po-218	2.39E-16
Pb-214	1.05E-08
At-218	2.48E-16
Bi-214	6.04E-08
Rn-218	6.38E-18
Po-214	3.48E-12
Tl-210	2.39E-11
Pb-210	4.32E-11
Bi-210	1.73E-10
Hg-206	5.58E-17
Po-210	2.22E-13
Tl-206	4.09E-16
U-235	4.05E-09
Th-231	1.49E-10
Pa-231	1.13E-08
Ac-227	2.47E-08
Th-227	1.30E-09
Fr-223	8.42E-12
Ra-223	1.45E-09
Rn-219	6.36E-10
At-219	0.00E+00
Bi-215	2.33E-15
Po-215	1.95E-12
Pb-211	8.16E-10
Bi-211	5.14E-10
Tl-207	1.52E-10
Po-211	2.48E-13
Th-232	1.37E-08
Ra-228	1.15E-08
Ac-228	1.83E-08
Th-228	3.02E-08
Ra-224	2.16E-09
Rn-220	1.31E-11
Po-216	3.17E-13
Pb-212	2.86E-09
Bi-212	2.36E-09
Po-212	0.00E+00
Tl-208	2.30E-08
TOTAL	3.61E-07

Wed Mar 06 06:50:52 2019

SUMMARY
Page 5INDIVIDUAL COMMITTED EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m)			
	80	465	800	2980
N	1.4E+00	9.9E-02	6.0E-02	4.0E-02
NNW	8.9E-01	6.9E-02	4.9E-02	3.9E-02
NW	9.4E-01	7.4E-02	5.1E-02	3.9E-02
WNW	1.1E+00	8.3E-02	5.4E-02	3.9E-02
W	8.5E-01	7.1E-02	5.0E-02	3.9E-02
WSW	5.0E-01	5.4E-02	4.3E-02	3.8E-02
SW	6.0E-01	6.0E-02	4.6E-02	3.8E-02
SSW	7.1E-01	6.6E-02	4.8E-02	3.8E-02
S	6.4E-01	6.3E-02	4.7E-02	3.8E-02
SSE	5.1E-01	5.5E-02	4.4E-02	3.8E-02
SSE	6.8E-01	6.3E-02	4.7E-02	3.8E-02
ESE	1.1E+00	8.1E-02	5.3E-02	3.9E-02
E	1.4E+00	9.5E-02	5.8E-02	4.0E-02
ENE	1.2E+00	8.5E-02	5.4E-02	3.9E-02
NE	7.8E-01	6.6E-02	4.8E-02	3.9E-02
NNE	7.4E-01	6.2E-02	4.6E-02	3.8E-02

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2018 Radionuclide Emissions NESHAP Report (Appendix A) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

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SUMMARY
Page 6

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

Distance (m)

Direction	80	465	800	2980
N	3.6E-07	2.6E-08	1.6E-08	1.1E-08
NNW	2.3E-07	1.8E-08	1.3E-08	1.0E-08
NW	2.5E-07	2.0E-08	1.4E-08	1.0E-08
WNW	2.9E-07	2.2E-08	1.4E-08	1.1E-08
W	2.2E-07	1.9E-08	1.3E-08	1.0E-08
WSW	1.3E-07	1.4E-08	1.2E-08	1.0E-08
SW	1.6E-07	1.6E-08	1.2E-08	1.0E-08
SSW	1.9E-07	1.8E-08	1.3E-08	1.0E-08
S	1.7E-07	1.7E-08	1.3E-08	1.0E-08
SSE	1.3E-07	1.5E-08	1.2E-08	1.0E-08
SSE	1.8E-07	1.7E-08	1.3E-08	1.0E-08
ESE	2.9E-07	2.2E-08	1.4E-08	1.1E-08
E	3.6E-07	2.5E-08	1.6E-08	1.1E-08
ENE	3.1E-07	2.3E-08	1.5E-08	1.1E-08
NE	2.0E-07	1.8E-08	1.3E-08	1.0E-08
NNE	1.9E-07	1.7E-08	1.2E-08	1.0E-08

CAP88 OUTPUT RESULTS

Plant 1

CAP88-PC

Version 4.0

Clean Air Act Assessment Package - 1988

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

Non-Radon Individual Assessment

Wed Mar 06 07:31:48 2019

Facility: Plant 1
Address:
 City: St. Louis
 State: MO Zip: 63147

Source Category: Area
 Source Type: Area
 Emission Year: 2018
DOSE Age Group: Adult

Comments: Air

Dataset Name: Plant 1.
Dataset Date: Mar 6, 2019 07:31 AM
Wind File: C:\Users\finkenbinec\Documents\CAP88\Wind Files\Wind
Files\13994.WND

Wed Mar 06 07:31:48 2019

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	1.25E-04
UB_Wall	1.37E-04
Bone_Sur	7.36E-03
Brain	1.31E-04
Breasts	1.41E-04
St_Wall	1.33E-04
SI_Wall	1.32E-04
ULI_Wall	1.44E-04
LLI_Wall	1.68E-04
Kidneys	2.54E-04
Liver	4.84E-04
Muscle	1.45E-04
Ovaries	1.72E-04
Pancreas	1.26E-04
R_Marrow	6.04E-04
Skin	1.30E-03
Spleen	1.33E-04
Testes	1.88E-04
Thymus	1.31E-04
Thyroid	1.36E-04
GB_Wall	1.27E-04
Ht_Wall	1.31E-04
Uterus	1.30E-04
ET_Reg	4.25E-04
Lung_66	1.11E-03
Effectiv	4.23E-04

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	6.92E-05
INHALATION	2.36E-04
AIR IMMERSION	1.09E-08
GROUND SURFACE	1.18E-04
INTERNAL	3.05E-04
EXTERNAL	1.18E-04
TOTAL	4.23E-04

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SUMMARY
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	1.54E-05
Th-234	3.99E-06
Pa-234m	6.49E-06
Pa-234	1.28E-07
U-234	1.85E-05
Th-230	2.85E-05
Ra-226	6.62E-06
Rn-222	4.53E-09
Po-218	8.09E-14
Pb-214	2.96E-06
At-218	3.04E-13
Bi-214	1.73E-05
Rn-218	1.76E-15
Po-214	9.58E-10
Tl-210	6.75E-09
Pb-210	1.45E-08
Bi-210	2.35E-07
Hg-206	1.90E-14
Po-210	6.09E-11
Tl-206	5.49E-13
U-235	1.44E-06
Th-231	5.23E-08
Pa-231	3.61E-05
Ac-227	2.73E-05
Th-227	3.49E-07
Fr-223	3.29E-09
Ra-223	3.90E-07
Rn-219	1.69E-07
At-219	0.00E+00
Bi-215	7.60E-13
Po-215	5.16E-10
Pb-211	3.32E-07
Bi-211	1.37E-07
Tl-207	1.72E-07
Po-211	6.58E-11
Th-232	1.25E-05
Ra-228	1.36E-04
Ac-228	3.50E-05
Th-228	1.83E-05
Ra-224	1.54E-06
Rn-220	2.37E-08
Po-216	5.72E-10
Pb-212	5.21E-06
Bi-212	6.07E-06
Po-212	0.00E+00
Tl-208	4.19E-05
TOTAL	4.23E-04

Wed Mar 06 07:31:48 2019

SUMMARY
Page 3

CANCER RISK SUMMARY

	Selected Individual
	Total Lifetime
Cancer	Fatal Cancer Risk
_____	_____

PATHWAY RISK SUMMARY

	Selected Individual
	Total Lifetime
Pathway	Fatal Cancer Risk
_____	_____
INGESTION	6.78E-12
INHALATION	4.87E-11
AIR IMMERSION	5.39E-15
GROUND SURFACE	6.00E-11
INTERNAL	5.54E-11
EXTERNAL	6.00E-11
TOTAL	1.15E-10

Wed Mar 06 07:31:48 2019

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.06E-12
Th-234	1.35E-12
Pa-234m	1.14E-12
Pa-234	6.95E-14
U-234	6.36E-12
Th-230	6.28E-12
Ra-226	3.86E-12
Rn-222	2.47E-15
Po-218	3.61E-20
Pb-214	1.58E-12
At-218	3.75E-20
Bi-214	9.13E-12
Rn-218	9.64E-22
Po-214	5.26E-16
Tl-210	3.60E-15
Pb-210	6.51E-15
Bi-210	2.61E-14
Hg-206	8.42E-21
Po-210	3.34E-17
Tl-206	6.17E-20
U-235	5.73E-13
Th-231	2.32E-14
Pa-231	1.56E-12
Ac-227	3.41E-12
Th-227	1.89E-13
Fr-223	1.23E-15
Ra-223	2.11E-13
Rn-219	9.25E-14
At-219	0.00E+00
Bi-215	3.39E-19
Po-215	2.83E-16
Pb-211	1.19E-13
Bi-211	7.47E-14
Tl-207	2.21E-14
Po-211	3.61E-17
Th-232	2.73E-12
Ra-228	1.78E-11
Ac-228	1.85E-11
Th-228	6.59E-12
Ra-224	6.30E-13
Rn-220	1.30E-14
Po-216	3.14E-16
Pb-212	2.83E-12
Bi-212	2.34E-12
Po-212	0.00E+00
Tl-208	2.28E-11
TOTAL	1.15E-10

Wed Mar 06 07:31:48 2019

SUMMARY
Page 5INDIVIDUAL COMMITTED EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m)			
	325	420	560	2950
N	4.2E-04	2.8E-04	1.9E-04	6.4E-05
NNW	2.4E-04	1.7E-04	1.3E-04	6.1E-05
NW	2.8E-04	1.9E-04	1.4E-04	6.1E-05
WNW	3.3E-04	2.2E-04	1.5E-04	6.2E-05
W	2.6E-04	1.8E-04	1.3E-04	6.1E-05
WSW	1.5E-04	1.2E-04	9.2E-05	5.9E-05
SW	1.9E-04	1.4E-04	1.1E-04	5.9E-05
SSW	2.3E-04	1.6E-04	1.2E-04	6.0E-05
S	2.1E-04	1.5E-04	1.1E-04	6.0E-05
SSE	1.6E-04	1.2E-04	9.5E-05	5.9E-05
SSE	2.1E-04	1.5E-04	1.1E-04	6.0E-05
ESE	3.2E-04	2.2E-04	1.5E-04	6.2E-05
E	4.0E-04	2.7E-04	1.8E-04	6.3E-05
ENE	3.4E-04	2.3E-04	1.6E-04	6.2E-05
NE	2.3E-04	1.6E-04	1.2E-04	6.0E-05
NNE	2.0E-04	1.5E-04	1.1E-04	6.0E-05

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2018 Radionuclide Emissions NESHAP Report (Appendix A) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Wed Mar 06 07:31:48 2019

SUMMARY
Page 6

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

Distance (m)

Direction	325	420	560	2950
N	1.2E-10	7.4E-11	4.6E-11	8.0E-12
NNW	6.2E-11	4.1E-11	2.6E-11	6.8E-12
NW	7.2E-11	4.7E-11	3.0E-11	6.9E-12
WNW	8.6E-11	5.6E-11	3.5E-11	7.2E-12
W	6.7E-11	4.3E-11	2.8E-11	6.8E-12
WSW	3.5E-11	2.4E-11	1.6E-11	6.1E-12
SW	4.7E-11	3.1E-11	2.1E-11	6.4E-12
SSW	5.7E-11	3.7E-11	2.4E-11	6.6E-12
S	5.1E-11	3.4E-11	2.2E-11	6.5E-12
SSE	3.7E-11	2.5E-11	1.7E-11	6.2E-12
SSE	5.1E-11	3.4E-11	2.2E-11	6.5E-12
ESE	8.4E-11	5.4E-11	3.4E-11	7.2E-12
E	1.1E-10	6.9E-11	4.3E-11	7.6E-12
ENE	9.1E-11	5.8E-11	3.6E-11	7.3E-12
NE	5.7E-11	3.8E-11	2.4E-11	6.6E-12
NNE	4.9E-11	3.3E-11	2.1E-11	6.5E-12

CAP88 OUTPUT RESULTS

Gunther Salt

CAP88-PC

Version 4.0

Clean Air Act Assessment Package - 1988

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

Non-Radon Individual Assessment

Wed Mar 06 07:59:10 2019

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

Source Category: Area
 Source Type: Area
 Emission Year: 2018
DOSE Age Group: Adult

Comments: Air

Dataset Name: Gunther Salt.
Dataset Date: Mar 6, 2019 07:59 AM
Wind File: C:\Users\finkenbinec\Documents\CAP88\Wind Files\Wind
Files\13994.WND

Wed Mar 06 07:59:10 2019

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	2.24E-05
UB_Wall	2.46E-05
Bone_Sur	1.39E-03
Brain	2.36E-05
Breasts	2.56E-05
St_Wall	2.38E-05
SI_Wall	2.37E-05
ULI_Wall	2.49E-05
LLI_Wall	2.75E-05
Kidneys	4.54E-05
Liver	7.74E-05
Muscle	2.63E-05
Ovaries	3.21E-05
Pancreas	2.26E-05
R_Marrow	9.25E-05
Skin	2.40E-04
Spleen	2.40E-05
Testes	3.54E-05
Thymus	2.37E-05
Thyroid	2.45E-05
GB_Wall	2.27E-05
Ht_Wall	2.36E-05
Uterus	2.34E-05
ET_Reg	1.22E-04
Lung_66	3.41E-04
Effectiv	9.15E-05

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	7.04E-06
INHALATION	6.16E-05
AIR IMMERSION	7.69E-10
GROUND SURFACE	2.29E-05
INTERNAL	6.86E-05
EXTERNAL	2.29E-05
TOTAL	9.15E-05

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SUMMARY
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	2.87E-06
Th-234	2.41E-07
Pa-234m	1.10E-06
Pa-234	2.17E-08
U-234	3.46E-06
Th-230	2.07E-05
Ra-226	3.49E-06
Rn-222	2.44E-09
Po-218	4.37E-14
Pb-214	1.60E-06
At-218	1.64E-13
Bi-214	9.33E-06
Rn-218	9.51E-16
Po-214	5.17E-10
Tl-210	3.64E-09
Pb-210	7.84E-09
Bi-210	1.27E-07
Hg-206	1.02E-14
Po-210	3.28E-11
Tl-206	2.96E-13
U-235	2.52E-07
Th-231	8.37E-09
Pa-231	6.36E-06
Ac-227	4.81E-06
Th-227	6.06E-08
Fr-223	5.71E-10
Ra-223	6.77E-08
Rn-219	2.93E-08
At-219	0.00E+00
Bi-215	1.32E-13
Po-215	8.96E-11
Pb-211	5.76E-08
Bi-211	2.37E-08
Tl-207	2.98E-08
Po-211	1.14E-11
Th-232	6.13E-06
Ra-228	1.08E-05
Ac-228	3.97E-06
Th-228	9.07E-06
Ra-224	6.23E-07
Rn-220	2.75E-09
Po-216	6.63E-11
Pb-212	6.04E-07
Bi-212	7.04E-07
Po-212	0.00E+00
Tl-208	4.86E-06
TOTAL	9.15E-05

Wed Mar 06 07:59:10 2019

SUMMARY
Page 3

CANCER RISK SUMMARY

	Selected Individual
	Total Lifetime
Cancer	Fatal Cancer Risk
_____	_____

PATHWAY RISK SUMMARY

	Selected Individual
	Total Lifetime
Pathway	Fatal Cancer Risk
_____	_____
INGESTION	1.60E-12
INHALATION	1.43E-11
AIR IMMERSION	3.94E-16
GROUND SURFACE	1.16E-11
INTERNAL	1.59E-11
EXTERNAL	1.16E-11
TOTAL	2.75E-11

Wed Mar 06 07:59:10 2019

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	9.49E-13
Th-234	9.23E-14
Pa-234m	1.92E-13
Pa-234	1.18E-14
U-234	1.19E-12
Th-230	4.57E-12
Ra-226	1.99E-12
Rn-222	1.33E-15
Po-218	1.95E-20
Pb-214	8.54E-13
At-218	2.02E-20
Bi-214	4.93E-12
Rn-218	5.20E-22
Po-214	2.84E-16
Tl-210	1.94E-15
Pb-210	3.51E-15
Bi-210	1.41E-14
Hg-206	4.54E-21
Po-210	1.80E-17
Tl-206	3.33E-20
U-235	1.00E-13
Th-231	3.79E-15
Pa-231	2.75E-13
Ac-227	6.01E-13
Th-227	3.28E-14
Fr-223	2.13E-16
Ra-223	3.66E-14
Rn-219	1.60E-14
At-219	0.00E+00
Bi-215	5.88E-20
Po-215	4.91E-17
Pb-211	2.06E-14
Bi-211	1.30E-14
Tl-207	3.83E-15
Po-211	6.25E-18
Th-232	1.34E-12
Ra-228	1.45E-12
Ac-228	2.11E-12
Th-228	3.26E-12
Ra-224	2.34E-13
Rn-220	1.50E-15
Po-216	3.64E-17
Pb-212	3.28E-13
Bi-212	2.72E-13
Po-212	0.00E+00
Tl-208	2.65E-12
TOTAL	2.75E-11

Wed Mar 06 07:59:10 2019

SUMMARY
Page 5INDIVIDUAL COMMITTED EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m)			
	240	290	790	3270
N	9.1E-05	6.6E-05	1.5E-05	6.5E-06
NNW	4.9E-05	3.7E-05	1.0E-05	6.1E-06
NW	5.8E-05	4.2E-05	1.1E-05	6.1E-06
WNW	6.9E-05	5.0E-05	1.2E-05	6.2E-06
W	5.3E-05	3.9E-05	1.1E-05	6.1E-06
WSW	2.9E-05	2.2E-05	8.1E-06	5.8E-06
SW	3.8E-05	2.8E-05	9.1E-06	5.9E-06
SSW	4.6E-05	3.4E-05	9.9E-06	6.0E-06
S	4.1E-05	3.0E-05	9.5E-06	6.0E-06
SSE	3.0E-05	2.3E-05	8.3E-06	5.9E-06
SSE	4.1E-05	3.1E-05	9.5E-06	6.0E-06
ESE	6.7E-05	4.9E-05	1.2E-05	6.2E-06
E	8.7E-05	6.3E-05	1.4E-05	6.4E-06
ENE	7.3E-05	5.3E-05	1.3E-05	6.3E-06
NE	4.6E-05	3.4E-05	1.0E-05	6.0E-06
NNE	4.0E-05	3.0E-05	9.3E-06	6.0E-06

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2018 Radionuclide Emissions NESHAP Report (Appendix A) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Wed Mar 06 07:59:10 2019

SUMMARY
Page 6

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

Distance (m)

Direction	240	290	790	3270
N	2.8E-11	2.0E-11	4.2E-12	1.6E-12
NNW	1.5E-11	1.1E-11	2.8E-12	1.4E-12
NW	1.7E-11	1.2E-11	3.0E-12	1.4E-12
WNW	2.1E-11	1.5E-11	3.4E-12	1.5E-12
W	1.6E-11	1.2E-11	2.9E-12	1.4E-12
WSW	8.3E-12	6.2E-12	2.0E-12	1.3E-12
SW	1.1E-11	8.3E-12	2.3E-12	1.4E-12
SSW	1.4E-11	9.9E-12	2.6E-12	1.4E-12
S	1.2E-11	8.9E-12	2.5E-12	1.4E-12
SSE	8.8E-12	6.6E-12	2.1E-12	1.4E-12
SSE	1.2E-11	9.0E-12	2.5E-12	1.4E-12
ESE	2.0E-11	1.5E-11	3.3E-12	1.5E-12
E	2.6E-11	1.9E-11	3.9E-12	1.5E-12
ENE	2.2E-11	1.6E-11	3.5E-12	1.5E-12
NE	1.4E-11	1.0E-11	2.6E-12	1.4E-12
NNE	1.2E-11	8.6E-12	2.4E-12	1.4E-12

CAP88 OUTPUT RESULTS

Heintz Steel

CAP88-PC

Version 4.0

Clean Air Act Assessment Package - 1988

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

Non-Radon Individual Assessment

Wed Mar 06 07:48:42 2019

Facility: Heintz Steel
Address:
City: St. Louis
State: MO Zip: 63147

Source Category: Area
Source Type: Area
Emission Year: 2018
DOSE Age Group: Adult

Comments: Air

Dataset Name: Heintz Steel.
Dataset Date: Mar 6, 2019 07:48 AM
Wind File: C:\Users\finkenbinec\Documents\CAP88\Wind Files\Wind
Files\13994.WND

Wed Mar 06 07:48:42 2019

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	4.56E-04
UB_Wall	4.79E-04
Bone_Sur	9.45E-02
Brain	4.68E-04
Breasts	4.93E-04
St_Wall	4.71E-04
SI_Wall	4.68E-04
ULI_Wall	5.15E-04
LLI_Wall	6.02E-04
Kidneys	1.48E-03
Liver	6.27E-03
Muscle	4.99E-04
Ovaries	1.23E-03
Pancreas	4.57E-04
R_Marrow	4.18E-03
Skin	3.45E-03
Spleen	4.74E-04
Testes	1.28E-03
Thymus	4.69E-04
Thyroid	4.80E-04
GB_Wall	4.59E-04
Ht_Wall	4.68E-04
Uterus	4.65E-04
ET_Reg	2.48E-03
Lung_66	6.49E-03
Effectiv	3.07E-03

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	7.23E-05
INHALATION	2.75E-03
AIR IMMERSION	9.77E-09
GROUND SURFACE	2.52E-04
INTERNAL	2.82E-03
EXTERNAL	2.52E-04
TOTAL	3.07E-03

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SUMMARY
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	3.21E-05
Th-234	3.31E-06
Pa-234m	1.23E-05
Pa-234	2.43E-07
U-234	3.87E-05
Th-230	6.21E-04
Ra-226	2.65E-05
Rn-222	2.17E-08
Po-218	3.88E-13
Pb-214	1.42E-05
At-218	1.46E-12
Bi-214	8.29E-05
Rn-218	8.45E-15
Po-214	4.59E-09
Tl-210	3.24E-08
Pb-210	6.92E-08
Bi-210	1.12E-06
Hg-206	9.02E-14
Po-210	2.90E-10
Tl-206	2.61E-12
U-235	2.94E-06
Th-231	9.84E-08
Pa-231	1.12E-03
Ac-227	7.88E-04
Th-227	1.01E-05
Fr-223	9.53E-08
Ra-223	1.13E-05
Rn-219	4.90E-06
At-219	0.00E+00
Bi-215	2.20E-11
Po-215	1.50E-08
Pb-211	9.62E-06
Bi-211	3.96E-06
Tl-207	4.98E-06
Po-211	1.91E-09
Th-232	2.80E-05
Ra-228	1.07E-04
Ac-228	3.54E-05
Th-228	5.53E-05
Ra-224	3.92E-06
Rn-220	2.43E-08
Po-216	5.85E-10
Pb-212	5.33E-06
Bi-212	6.22E-06
Po-212	0.00E+00
Tl-208	4.29E-05
TOTAL	3.07E-03

Wed Mar 06 07:48:42 2019

SUMMARY
Page 3

CANCER RISK SUMMARY

	Selected Individual
	Total Lifetime
Cancer	Fatal Cancer Risk

PATHWAY RISK SUMMARY

	Selected Individual
	Total Lifetime
Pathway	Fatal Cancer Risk
INGESTION	1.11E-11
INHALATION	3.54E-10
AIR IMMERSION	4.91E-15
GROUND SURFACE	1.25E-10
INTERNAL	3.65E-10
EXTERNAL	1.25E-10
TOTAL	4.90E-10

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.07E-11
Th-234	1.25E-12
Pa-234m	2.15E-12
Pa-234	1.32E-13
U-234	1.33E-11
Th-230	1.38E-10
Ra-226	1.38E-11
Rn-222	1.18E-14
Po-218	1.73E-19
Pb-214	7.58E-12
At-218	1.80E-19
Bi-214	4.38E-11
Rn-218	4.62E-21
Po-214	2.52E-15
Tl-210	1.73E-14
Pb-210	3.10E-14
Bi-210	1.24E-13
Hg-206	4.00E-20
Po-210	1.59E-16
Tl-206	2.93E-19
U-235	1.18E-12
Th-231	4.44E-14
Pa-231	4.85E-11
Ac-227	9.86E-11
Th-227	5.48E-12
Fr-223	3.55E-14
Ra-223	6.11E-12
Rn-219	2.68E-12
At-219	0.00E+00
Bi-215	9.83E-18
Po-215	8.20E-15
Pb-211	3.44E-12
Bi-211	2.16E-12
Tl-207	6.40E-13
Po-211	1.04E-15
Th-232	6.14E-12
Ra-228	1.56E-11
Ac-228	1.88E-11
Th-228	1.99E-11
Ra-224	1.49E-12
Rn-220	1.33E-14
Po-216	3.22E-16
Pb-212	2.90E-12
Bi-212	2.40E-12
Po-212	0.00E+00
Tl-208	2.34E-11
TOTAL	4.90E-10

Wed Mar 06 07:48:42 2019

SUMMARY

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

	Distance (m)			
Direction	120	400	850	3125
N	3.1E-03	3.8E-04	1.3E-04	5.9E-05
NNW	1.6E-03	2.2E-04	9.1E-05	5.5E-05
NW	1.9E-03	2.5E-04	9.8E-05	5.5E-05
WNW	2.3E-03	2.9E-04	1.1E-04	5.7E-05
W	1.7E-03	2.3E-04	9.4E-05	5.5E-05
WSW	8.6E-04	1.4E-04	7.1E-05	5.3E-05
SW	1.2E-03	1.7E-04	8.0E-05	5.3E-05
SSW	1.5E-03	2.0E-04	8.7E-05	5.4E-05
S	1.3E-03	1.9E-04	8.3E-05	5.4E-05
SSE	9.1E-04	1.4E-04	7.3E-05	5.3E-05
SSE	1.3E-03	1.9E-04	8.4E-05	5.4E-05
ESE	2.2E-03	2.9E-04	1.1E-04	5.6E-05
E	2.9E-03	3.6E-04	1.2E-04	5.8E-05
ENE	2.4E-03	3.1E-04	1.1E-04	5.7E-05
NE	1.5E-03	2.1E-04	8.8E-05	5.4E-05
NNE	1.3E-03	1.8E-04	8.2E-05	5.4E-05

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2018 Radionuclide Emissions NESHAP Report (Appendix A) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Wed Mar 06 07:48:42 2019

SUMMARY
Page 6

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

Distance (m)

Direction	120	400	850	3125
N	4.9E-10	6.1E-11	2.1E-11	9.3E-12
NNW	2.5E-10	3.5E-11	1.5E-11	8.6E-12
NW	3.0E-10	4.0E-11	1.6E-11	8.7E-12
WNW	3.7E-10	4.7E-11	1.7E-11	8.8E-12
W	2.8E-10	3.7E-11	1.5E-11	8.6E-12
WSW	1.4E-10	2.2E-11	1.1E-11	8.2E-12
SW	1.9E-10	2.8E-11	1.3E-11	8.3E-12
SSW	2.4E-10	3.3E-11	1.4E-11	8.4E-12
S	2.1E-10	3.0E-11	1.3E-11	8.4E-12
SSE	1.5E-10	2.3E-11	1.2E-11	8.2E-12
SSE	2.1E-10	3.0E-11	1.3E-11	8.4E-12
ESE	3.5E-10	4.6E-11	1.7E-11	8.8E-12
E	4.6E-10	5.7E-11	2.0E-11	9.1E-12
ENE	3.8E-10	4.9E-11	1.8E-11	8.9E-12
NE	2.4E-10	3.3E-11	1.4E-11	8.5E-12
NNE	2.0E-10	2.9E-11	1.3E-11	8.4E-12

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CAP88 OUTPUT RESULTS

Plant 6 Loadout

CAP88-PC

Version 4.0

Clean Air Act Assessment Package - 1988

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 05 10:45:51 2019

Facility: Plant 6 Loadout
Address: SLDS
City: St. Louis
State: MO Zip: 63147

Source Category: Area
Source Type: Stack
Emission Year: 2018
DOSE Age Group: Adult

Comments: Air

Dataset Name: Plant 6 Loadout.
Dataset Date: Mar 5, 2019 10:45 AM
Wind File: C:\Users\finkenbinec\Documents\CAP88\Wind Files\Wind
Files\13994.WND

Tue Mar 05 10:45:51 2019

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	4.56E-02
UB_Wall	5.00E-02
Bone_Sur	2.78E+00
Brain	4.79E-02
Breasts	5.20E-02
St_Wall	4.84E-02
SI_Wall	4.81E-02
ULI_Wall	5.05E-02
LLI_Wall	5.58E-02
Kidneys	9.36E-02
Liver	1.92E-01
Muscle	5.34E-02
Ovaries	6.65E-02
Pancreas	4.60E-02
R_Marrow	1.81E-01
Skin	6.12E-01
Spleen	4.87E-02
Testes	7.32E-02
Thymus	4.81E-02
Thyroid	4.98E-02
GB_Wall	4.62E-02
Ht_Wall	4.79E-02
Uterus	4.75E-02
ET_Reg	2.16E-01
Lung_66	6.39E-01
Effectiv	1.81E-01

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	9.76E-03
INHALATION	1.25E-01
AIR IMMERSION	1.57E-06
GROUND SURFACE	4.68E-02
INTERNAL	1.34E-01
EXTERNAL	4.68E-02
TOTAL	1.81E-01

Tue Mar 05 10:45:51 2019

SUMMARY
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	9.93E-03
Th-234	6.36E-04
Pa-234m	3.75E-03
Pa-234	7.40E-05
U-234	1.20E-02
Th-230	2.03E-02
Ra-226	6.43E-03
Rn-222	4.85E-06
Po-218	8.68E-11
Pb-214	3.17E-03
At-218	3.26E-10
Bi-214	1.85E-02
Rn-218	1.89E-12
Po-214	1.03E-06
Tl-210	7.23E-06
Pb-210	1.56E-05
Bi-210	2.52E-04
Hg-206	2.04E-11
Po-210	6.54E-08
Tl-206	5.89E-10
U-235	8.43E-04
Th-231	2.77E-05
Pa-231	2.15E-02
Ac-227	1.63E-02
Th-227	2.02E-04
Fr-223	1.90E-06
Ra-223	2.26E-04
Rn-219	9.78E-05
At-219	0.00E+00
Bi-215	4.40E-10
Po-215	2.99E-07
Pb-211	1.92E-04
Bi-211	7.91E-05
Tl-207	9.95E-05
Po-211	3.81E-08
Th-232	1.20E-02
Ra-228	1.81E-02
Ac-228	7.56E-03
Th-228	1.62E-02
Ra-224	1.11E-03
Rn-220	5.21E-06
Po-216	1.26E-07
Pb-212	1.14E-03
Bi-212	1.34E-03
Po-212	0.00E+00
Tl-208	9.23E-03
TOTAL	1.81E-01

Tue Mar 05 10:45:51 2019

SUMMARY
Page 3

CANCER RISK SUMMARY

	Selected Individual
	Total Lifetime
Cancer	Fatal Cancer Risk
_____	_____

PATHWAY RISK SUMMARY

	Selected Individual
	Total Lifetime
Pathway	Fatal Cancer Risk
_____	_____
INGESTION	2.31E-09
INHALATION	2.76E-08
AIR IMMERSION	7.96E-13
GROUND SURFACE	2.32E-08
INTERNAL	2.99E-08
EXTERNAL	2.32E-08
TOTAL	5.31E-08

Tue Mar 05 10:45:51 2019

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	3.32E-09
Th-234	2.59E-10
Pa-234m	6.57E-10
Pa-234	4.02E-11
U-234	4.12E-09
Th-230	4.49E-09
Ra-226	3.37E-09
Rn-222	2.65E-12
Po-218	3.88E-17
Pb-214	1.70E-09
At-218	4.02E-17
Bi-214	9.79E-09
Rn-218	1.03E-18
Po-214	5.64E-13
Tl-210	3.86E-12
Pb-210	6.99E-12
Bi-210	2.80E-11
Hg-206	9.03E-18
Po-210	3.59E-14
Tl-206	6.62E-17
U-235	3.37E-10
Th-231	1.26E-11
Pa-231	9.30E-10
Ac-227	2.04E-09
Th-227	1.09E-10
Fr-223	7.09E-13
Ra-223	1.22E-10
Rn-219	5.35E-11
At-219	0.00E+00
Bi-215	1.96E-16
Po-215	1.64E-13
Pb-211	6.86E-11
Bi-211	4.32E-11
Tl-207	1.28E-11
Po-211	2.09E-14
Th-232	2.62E-09
Ra-228	2.63E-09
Ac-228	4.00E-09
Th-228	5.80E-09
Ra-224	4.19E-10
Rn-220	2.85E-12
Po-216	6.91E-14
Pb-212	6.23E-10
Bi-212	5.15E-10
Po-212	0.00E+00
Tl-208	5.02E-09
TOTAL	5.31E-08

Tue Mar 05 10:45:51 2019

SUMMARY
Page 5INDIVIDUAL COMMITTED EFFECTIVE DOSE EQUIVALENT (mrem)
(All Radionuclides and Pathways)

Direction	Distance (m)			
	160	495	750	2915
N	1.8E-01	2.9E-02	1.7E-02	8.0E-03
NNW	9.6E-02	1.8E-02	1.2E-02	7.6E-03
NW	1.1E-01	2.0E-02	1.3E-02	7.6E-03
WNW	1.4E-01	2.3E-02	1.4E-02	7.8E-03
W	1.0E-01	1.9E-02	1.3E-02	7.6E-03
WSW	5.4E-02	1.3E-02	9.7E-03	7.3E-03
SW	7.3E-02	1.5E-02	1.1E-02	7.4E-03
SSW	8.9E-02	1.7E-02	1.2E-02	7.5E-03
S	7.8E-02	1.6E-02	1.1E-02	7.5E-03
SSE	5.7E-02	1.3E-02	9.9E-03	7.3E-03
SSE	7.9E-02	1.6E-02	1.1E-02	7.5E-03
ESE	1.3E-01	2.2E-02	1.4E-02	7.7E-03
E	1.7E-01	2.7E-02	1.6E-02	7.9E-03
ENE	1.4E-01	2.4E-02	1.5E-02	7.8E-03
NE	9.0E-02	1.7E-02	1.2E-02	7.5E-03
NNE	7.6E-02	1.6E-02	1.1E-02	7.4E-03

Note: Highlighted EDE values (mrem) are applicable to the critical receptors as defined in the 2018 Radionuclide Emissions NESHAP Report (Appendix A) taking into account the distance and direction from the applicable site to each receptor. The highlighted value assumes 100 percent occupancy.

Tue Mar 05 10:45:51 2019

SUMMARY
Page 6

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

Distance (m)

Direction	160	495	750	2915
N	5.3E-08	8.1E-09	4.7E-09	2.0E-09
NNW	2.8E-08	5.0E-09	3.2E-09	1.8E-09
NW	3.3E-08	5.5E-09	3.4E-09	1.8E-09
WNW	4.0E-08	6.4E-09	3.8E-09	1.9E-09
W	3.0E-08	5.2E-09	3.3E-09	1.8E-09
WSW	1.5E-08	3.4E-09	2.4E-09	1.7E-09
SW	2.1E-08	4.1E-09	2.8E-09	1.8E-09
SSW	2.6E-08	4.6E-09	3.0E-09	1.8E-09
S	2.3E-08	4.3E-09	2.9E-09	1.8E-09
SSE	1.6E-08	3.5E-09	2.5E-09	1.7E-09
SSE	2.3E-08	4.4E-09	2.9E-09	1.8E-09
ESE	3.9E-08	6.3E-09	3.8E-09	1.9E-09
E	5.0E-08	7.6E-09	4.4E-09	1.9E-09
ENE	4.2E-08	6.6E-09	3.9E-09	1.9E-09
NE	2.6E-08	4.7E-09	3.1E-09	1.8E-09
NNE	2.2E-08	4.2E-09	2.8E-09	1.8E-09

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APPENDIX B

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

(On the CD-ROM on the Back Cover of this Report)

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Table B-1. Background Air Particulate Data Results for CY 2018

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG200023	BAP-001	01/02/18	Gross Alpha/Beta	Gross Alpha	6.14E-15	1.30E-15	5.31E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200023	BAP-001	01/02/18	Gross Alpha/Beta	Gross Beta	2.72E-14	2.84E-15	9.29E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200023	BAP-001	01/02/18	Gross Alpha/Beta	Gross Alpha	7.27E-15	1.42E-15	5.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200023	BAP-001	01/02/18	Gross Alpha/Beta	Gross Beta	2.80E-14	2.90E-15	9.29E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200024	BAP-001	01/08/18	Gross Alpha/Beta	Gross Alpha	1.22E-14	2.21E-15	7.50E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200024	BAP-001	01/08/18	Gross Alpha/Beta	Gross Beta	3.62E-14	3.85E-15	1.31E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200025	BAP-001	01/16/18	Gross Alpha/Beta	Gross Alpha	5.23E-15	1.12E-15	4.66E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200025	BAP-001	01/16/18	Gross Alpha/Beta	Gross Beta	2.11E-14	2.28E-15	8.15E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200026	BAP-001	01/22/18	Gross Alpha/Beta	Gross Alpha	6.56E-15	1.64E-15	8.09E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200026	BAP-001	01/22/18	Gross Alpha/Beta	Gross Beta	2.59E-14	3.17E-15	1.42E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200027	BAP-001	01/29/18	Gross Alpha/Beta	Gross Alpha	4.69E-15	1.11E-15	5.21E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200027	BAP-001	01/29/18	Gross Alpha/Beta	Gross Beta	1.73E-14	2.08E-15	9.12E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200028	BAP-001	02/05/18	Gross Alpha/Beta	Gross Alpha	4.94E-15	1.19E-15	5.62E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200028	BAP-001	02/05/18	Gross Alpha/Beta	Gross Beta	1.97E-14	2.33E-15	9.84E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200029	BAP-001	02/12/18	Gross Alpha/Beta	Gross Alpha	2.23E-15	7.96E-16	5.61E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200029	BAP-001	02/12/18	Gross Alpha/Beta	Gross Beta	2.36E-14	2.62E-15	9.81E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200030	BAP-001	02/20/18	Gross Alpha/Beta	Gross Alpha	3.91E-15	9.76E-16	4.82E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200030	BAP-001	02/20/18	Gross Alpha/Beta	Gross Beta	2.14E-14	2.34E-15	8.44E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200031	BAP-001	02/26/18	Gross Alpha/Beta	Gross Alpha	2.03E-15	8.12E-16	6.34E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200031	BAP-001	02/26/18	Gross Alpha/Beta	Gross Beta	7.99E-15	1.49E-15	1.11E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200032	BAP-001	03/05/18	Gross Alpha/Beta	Gross Alpha	4.26E-15	1.16E-15	6.28E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200032	BAP-001	03/05/18	Gross Alpha/Beta	Gross Beta	2.46E-14	2.80E-15	1.10E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200033	BAP-001	03/12/18	Gross Alpha/Beta	Gross Alpha	2.30E-15	7.85E-16	5.32E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200033	BAP-001	03/12/18	Gross Alpha/Beta	Gross Beta	1.85E-14	2.19E-15	9.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200034	BAP-001	03/19/18	Gross Alpha/Beta	Gross Alpha	2.12E-15	8.04E-16	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200034	BAP-001	03/19/18	Gross Alpha/Beta	Gross Beta	2.53E-14	2.81E-15	1.05E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200035	BAP-001	03/26/18	Gross Alpha/Beta	Gross Alpha	2.40E-15	7.99E-16	5.28E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200035	BAP-001	03/26/18	Gross Alpha/Beta	Gross Beta	1.87E-14	2.20E-15	9.25E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200036	BAP-001	04/02/18	Gross Alpha/Beta	Gross Alpha	6.49E-15	1.37E-15	5.99E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200036	BAP-001	04/02/18	Gross Alpha/Beta	Gross Beta	1.69E-14	2.08E-15	9.39E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200036	BAP-001	04/02/18	Gross Alpha/Beta	Gross Alpha	5.14E-15	1.22E-15	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200036	BAP-001	04/02/18	Gross Alpha/Beta	Gross Beta	1.68E-14	2.07E-15	9.39E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200037	BAP-001	04/09/18	Gross Alpha/Beta	Gross Alpha	4.71E-15	1.16E-15	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200037	BAP-001	04/09/18	Gross Alpha/Beta	Gross Beta	1.57E-14	1.99E-15	9.39E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200038	BAP-001	04/17/18	Gross Alpha/Beta	Gross Alpha	1.98E-15	6.97E-16	4.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200038	BAP-001	04/17/18	Gross Alpha/Beta	Gross Beta	1.08E-14	1.47E-15	7.83E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200039	BAP-001	04/22/18	Gross Alpha/Beta	Gross Alpha	4.46E-15	1.32E-15	8.10E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200039	BAP-001	04/22/18	Gross Alpha/Beta	Gross Beta	1.45E-14	2.15E-15	1.27E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200040	BAP-001	04/30/18	Gross Alpha/Beta	Gross Alpha	4.03E-15	1.10E-15	6.26E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200040	BAP-001	04/30/18	Gross Alpha/Beta	Gross Beta	1.55E-14	2.00E-15	9.82E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200041	BAP-001	05/07/18	Gross Alpha/Beta	Gross Alpha	3.42E-15	9.93E-16	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200041	BAP-001	05/07/18	Gross Alpha/Beta	Gross Beta	1.84E-14	2.20E-15	9.39E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200042	BAP-001	05/14/18	Gross Alpha/Beta	Gross Alpha	3.59E-15	1.03E-15	6.17E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200042	BAP-001	05/14/18	Gross Alpha/Beta	Gross Beta	2.33E-14	2.59E-15	9.67E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200043	BAP-001	05/14/18	Gross Alpha/Beta	Gross Alpha	-3.32E-16	6.35E-15	1.30E-14	µCi/mL	UJ	T06	Background Air (Particulate Air)-Environmental Monitoring

Table B-1. Background Air Particulate Data Results for CY 2018

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG200043	BAP-001	05/14/18	Gross Alpha/Beta	Gross Beta	2.27E-14	1.46E-14	2.03E-14	µCi/mL	J	T04, T20	Background Air (Particulate Air)-Environmental Monitoring
BKG200044	BAP-001	05/29/18	Gross Alpha/Beta	Gross Alpha	3.03E-15	9.77E-16	6.48E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200044	BAP-001	05/29/18	Gross Alpha/Beta	Gross Beta	2.32E-14	2.63E-15	1.02E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200045	BAP-001	06/05/18	Gross Alpha/Beta	Gross Alpha	2.36E-15	8.43E-16	6.11E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200045	BAP-001	06/05/18	Gross Alpha/Beta	Gross Beta	1.53E-14	1.97E-15	9.58E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200046	BAP-001	06/11/18	Gross Alpha/Beta	Gross Alpha	2.15E-15	8.93E-16	7.29E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200046	BAP-001	06/11/18	Gross Alpha/Beta	Gross Beta	2.40E-14	2.79E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200047	BAP-001	06/18/18	Gross Alpha/Beta	Gross Alpha	1.24E-15	6.40E-16	6.11E-16	µCi/mL	J	T04, T20	Background Air (Particulate Air)-Environmental Monitoring
BKG200047	BAP-001	06/18/18	Gross Alpha/Beta	Gross Beta	1.97E-14	2.31E-15	9.58E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200048	BAP-001	06/25/18	Gross Alpha/Beta	Gross Alpha	1.46E-15	6.77E-16	5.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200048	BAP-001	06/25/18	Gross Alpha/Beta	Gross Beta	1.39E-14	1.85E-15	9.39E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200049	BAP-001	07/02/18	Gross Alpha/Beta	Gross Alpha	5.32E-15	1.33E-15	5.66E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200049	BAP-001	07/02/18	Gross Alpha/Beta	Gross Beta	1.58E-14	2.22E-15	1.41E-15	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200049	BAP-001	07/02/18	Gross Alpha/Beta	Gross Alpha	5.25E-15	1.32E-15	5.66E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200049	BAP-001	07/02/18	Gross Alpha/Beta	Gross Beta	1.50E-14	2.15E-15	1.41E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200050	BAP-001	07/09/18	Gross Alpha/Beta	Gross Alpha	5.64E-15	1.30E-15	5.09E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200050	BAP-001	07/09/18	Gross Alpha/Beta	Gross Beta	2.11E-14	2.52E-15	1.27E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200051	BAP-001	07/14/18	Gross Alpha/Beta	Gross Alpha	5.80E-15	1.55E-15	7.03E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200051	BAP-001	07/14/18	Gross Alpha/Beta	Gross Beta	1.45E-14	2.35E-15	1.76E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200052	BAP-001	07/23/18	Gross Alpha/Beta	Gross Alpha	6.65E-15	1.41E-15	5.01E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200052	BAP-001	07/23/18	Gross Alpha/Beta	Gross Beta	2.27E-14	2.62E-15	1.25E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200053	BAP-001	07/30/18	Gross Alpha/Beta	Gross Alpha	6.30E-15	1.43E-15	5.50E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200053	BAP-001	07/30/18	Gross Alpha/Beta	Gross Beta	1.99E-14	2.50E-15	1.37E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200054	BAP-001	08/06/18	Gross Alpha/Beta	Gross Alpha	4.76E-15	1.22E-15	5.36E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200054	BAP-001	08/06/18	Gross Alpha/Beta	Gross Beta	2.73E-14	3.02E-15	1.34E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200055	BAP-001	08/13/18	Gross Alpha/Beta	Gross Alpha	5.04E-15	1.27E-15	5.44E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200055	BAP-001	08/13/18	Gross Alpha/Beta	Gross Beta	2.18E-14	2.63E-15	1.36E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200056	BAP-001	08/20/18	Gross Alpha/Beta	Gross Alpha	4.08E-15	1.11E-15	5.11E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200056	BAP-001	08/20/18	Gross Alpha/Beta	Gross Beta	2.01E-14	2.44E-15	1.28E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200057	BAP-001	08/27/18	Gross Alpha/Beta	Gross Alpha	6.27E-15	1.49E-15	6.01E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200057	BAP-001	08/27/18	Gross Alpha/Beta	Gross Beta	2.40E-14	2.90E-15	1.50E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200058	BAP-001	09/04/18	Gross Alpha/Beta	Gross Alpha	2.29E-15	7.86E-16	4.56E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200058	BAP-001	09/04/18	Gross Alpha/Beta	Gross Beta	1.29E-14	1.80E-15	1.14E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200059	BAP-001	09/10/18	Gross Alpha/Beta	Gross Alpha	2.70E-15	1.00E-15	6.19E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200059	BAP-001	09/10/18	Gross Alpha/Beta	Gross Beta	1.61E-14	2.33E-15	1.55E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200060	BAP-001	09/17/18	Gross Alpha/Beta	Gross Alpha	2.00E-15	7.90E-16	5.19E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200060	BAP-001	09/17/18	Gross Alpha/Beta	Gross Beta	1.68E-14	2.21E-15	1.29E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200061	BAP-001	09/24/18	Gross Alpha/Beta	Gross Alpha	2.13E-15	8.29E-16	5.36E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200061	BAP-001	09/24/18	Gross Alpha/Beta	Gross Beta	2.21E-14	2.64E-15	1.34E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200062	BAP-001	10/01/18	Gross Alpha/Beta	Gross Alpha	6.05E-15	1.37E-15	5.13E-16	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200062	BAP-001	10/01/18	Gross Alpha/Beta	Gross Beta	1.83E-14	2.34E-15	1.32E-15	µCi/mL			Background Air (Particulate Air)-Environmental Monitoring
BKG200062	BAP-001	10/01/18	Gross Alpha/Beta	Gross Alpha	6.05E-15	1.37E-15	5.13E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200062	BAP-001	10/01/18	Gross Alpha/Beta	Gross Beta	1.89E-14	2.39E-15	1.32E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200063	BAP-001	10/08/18	Gross Alpha/Beta	Gross Alpha	5.57E-15	1.33E-15	5.26E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200063	BAP-001	10/08/18	Gross Alpha/Beta	Gross Beta	1.79E-14	2.34E-15	1.35E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring

Table B-1. Background Air Particulate Data Results for CY 2018

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
BKG200064	BAP-001	10/15/18	Gross Alpha/Beta	Gross Alpha	4.98E-15	1.20E-15	4.82E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200064	BAP-001	10/15/18	Gross Alpha/Beta	Gross Beta	1.54E-14	2.07E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200065	BAP-001	10/22/18	Gross Alpha/Beta	Gross Alpha	4.67E-15	1.23E-15	5.43E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200065	BAP-001	10/22/18	Gross Alpha/Beta	Gross Beta	1.89E-14	2.45E-15	1.39E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200066	BAP-001	10/29/18	Gross Alpha/Beta	Gross Alpha	3.97E-15	1.08E-15	4.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200066	BAP-001	10/29/18	Gross Alpha/Beta	Gross Beta	1.90E-14	2.37E-15	1.28E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200067	BAP-001	11/05/18	Gross Alpha/Beta	Gross Alpha	5.21E-15	1.29E-15	5.38E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200067	BAP-001	11/05/18	Gross Alpha/Beta	Gross Beta	1.87E-14	2.42E-15	1.38E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200068	BAP-001	11/12/18	Gross Alpha/Beta	Gross Alpha	4.23E-15	1.12E-15	4.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200068	BAP-001	11/12/18	Gross Alpha/Beta	Gross Beta	1.75E-14	2.26E-15	1.28E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200069	BAP-001	11/19/18	Gross Alpha/Beta	Gross Alpha	5.53E-15	1.31E-15	5.15E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200069	BAP-001	11/19/18	Gross Alpha/Beta	Gross Beta	2.28E-14	2.69E-15	1.32E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200070	BAP-001	11/26/18	Gross Alpha/Beta	Gross Alpha	4.11E-15	1.09E-15	4.85E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200070	BAP-001	11/26/18	Gross Alpha/Beta	Gross Beta	3.09E-14	3.21E-15	1.24E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200071	BAP-001	12/03/18	Gross Alpha/Beta	Gross Alpha	3.66E-15	1.07E-15	5.31E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200071	BAP-001	12/03/18	Gross Alpha/Beta	Gross Beta	1.75E-14	2.32E-15	1.36E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200072	BAP-001	12/10/18	Gross Alpha/Beta	Gross Alpha	3.72E-15	1.06E-15	5.10E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200072	BAP-001	12/10/18	Gross Alpha/Beta	Gross Beta	2.66E-14	2.95E-15	1.31E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200073	BAP-001	12/17/18	Gross Alpha/Beta	Gross Alpha	2.84E-15	9.37E-16	5.22E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200073	BAP-001	12/17/18	Gross Alpha/Beta	Gross Beta	2.64E-14	2.96E-15	1.34E-15	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200074	BAP-001	12/26/18	Gross Alpha/Beta	Gross Alpha	1.75E-15	6.39E-16	3.89E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG200074	BAP-001	12/26/18	Gross Alpha/Beta	Gross Beta	2.09E-14	2.30E-15	9.99E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG209168	BAP-001	12/31/18	Gross Alpha/Beta	Gross Alpha	2.22E-15	1.02E-15	7.62E-16	µCi/mL	=		Background Air (Particulate Air)-Environmental Monitoring
BKG209168	BAP-001	12/31/18	Gross Alpha/Beta	Gross Beta	2.27E-14	3.14E-15	1.95E-15	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.

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

Validation Reason Code:

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

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 B-2. SLDS TLD (External Gamma Radiation) Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS200326	BA-1	04/03/18	Radiological	External gamma radiation	18.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
HIS200329	BA-1	07/03/18	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
HIS200332	BA-1	10/02/18	Radiological	External gamma radiation	21.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
HIS207147	BA-1	01/03/19	Radiological	External gamma radiation	20.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018
SLD200339	DA-1	04/03/18	Radiological	External gamma radiation	15.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
SLD200343	DA-1	07/03/18	Radiological	External gamma radiation	17.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
SLD200347	DA-1	10/02/18	Radiological	External gamma radiation	17.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
SLD207156	DA-1	01/03/19	Radiological	External gamma radiation	18.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018
SLD200339-1	DA-1 dup	04/03/18	Radiological	External gamma radiation	15.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
SLD200343-1	DA-1 dup	07/03/18	Radiological	External gamma radiation	17.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
SLD200347-1	DA-1 dup	10/02/18	Radiological	External gamma radiation	18.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
SLD207156-1	DA-1 dup	01/03/19	Radiological	External gamma radiation	19	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018
SLD200340	DA-2	04/03/18	Radiological	External gamma radiation	18.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
SLD200344	DA-2	07/03/18	Radiological	External gamma radiation	19	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
SLD200348	DA-2	10/02/18	Radiological	External gamma radiation	20.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
SLD207157	DA-2	01/03/19	Radiological	External gamma radiation	20.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018
SLD200341	DA-3	04/03/18	Radiological	External gamma radiation	17.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
SLD200345	DA-3	07/03/18	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
SLD200349	DA-3	10/02/18	Radiological	External gamma radiation	19	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
SLD207158	DA-3	01/03/19	Radiological	External gamma radiation	19.2	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018
SLD200342	DA-6	04/03/18	Radiological	External gamma radiation	18.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2018
SLD200346	DA-6	07/03/18	Radiological	External gamma radiation	20.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2018
SLD200350	DA-6	10/02/18	Radiological	External gamma radiation	20.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2018
SLD207159	DA-6	01/03/19	Radiological	External gamma radiation	21.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2018

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 B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200096	DESTREHAN ST.	01/03/18	Gross Alpha/Beta	Gross Alpha	1.20E-14	2.06E-14	2.86E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200096	DESTREHAN ST.	01/03/18	Gross Alpha/Beta	Gross Beta	5.72E-14	3.53E-14	4.68E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200097	DESTREHAN ST.	01/04/18	Gross Alpha/Beta	Gross Alpha	7.24E-15	8.97E-15	1.15E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200097	DESTREHAN ST.	01/04/18	Gross Alpha/Beta	Gross Beta	6.25E-14	1.85E-14	1.89E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200098	DESTREHAN ST.	01/08/18	Gross Alpha/Beta	Gross Alpha	4.55E-15	7.81E-15	1.09E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200098	DESTREHAN ST.	01/08/18	Gross Alpha/Beta	Gross Beta	6.10E-14	1.76E-14	1.78E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200099	DESTREHAN ST.	01/09/18	Gross Alpha/Beta	Gross Alpha	9.92E-15	9.06E-15	1.05E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD200099	DESTREHAN ST.	01/09/18	Gross Alpha/Beta	Gross Beta	2.81E-14	1.38E-14	1.72E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200100	DESTREHAN ST.	01/10/18	Gross Alpha/Beta	Gross Alpha	-1.12E-15	5.84E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200100	DESTREHAN ST.	01/10/18	Gross Alpha/Beta	Gross Beta	9.22E-15	1.18E-14	1.75E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200101	DESTREHAN ST.	01/11/18	Gross Alpha/Beta	Gross Alpha	2.26E-15	7.08E-15	1.08E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200101	DESTREHAN ST.	01/11/18	Gross Alpha/Beta	Gross Beta	-1.57E-15	1.04E-14	1.77E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200102	DESTREHAN ST.	01/16/18	Gross Alpha/Beta	Gross Alpha	9.04E-15	1.12E-14	1.44E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200102	DESTREHAN ST.	01/16/18	Gross Alpha/Beta	Gross Beta	2.11E-14	1.69E-14	2.36E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD200103	DESTREHAN ST.	01/17/18	Gross Alpha/Beta	Gross Alpha	7.85E-15	8.64E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200103	DESTREHAN ST.	01/17/18	Gross Alpha/Beta	Gross Beta	3.29E-14	1.45E-14	1.75E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200104	DESTREHAN ST.	01/18/18	Gross Alpha/Beta	Gross Alpha	6.62E-15	8.20E-15	1.05E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200104	DESTREHAN ST.	01/18/18	Gross Alpha/Beta	Gross Beta	4.65E-14	1.58E-14	1.72E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200105	DESTREHAN ST.	01/22/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	7.61E-15	1.06E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200105	DESTREHAN ST.	01/22/18	Gross Alpha/Beta	Gross Beta	2.19E-14	1.31E-14	1.73E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200124	DESTREHAN ST.	01/23/18	Gross Alpha/Beta	Gross Alpha	4.39E-15	6.95E-15	1.08E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200124	DESTREHAN ST.	01/23/18	Gross Alpha/Beta	Gross Beta	2.95E-14	1.40E-14	1.77E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200124-1	DESTREHAN ST.	01/23/18	Gross Alpha/Beta	Gross Alpha	6.64E-15	7.65E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200124-1	DESTREHAN ST.	01/23/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.32E-14	1.77E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200125	DESTREHAN ST.	01/24/18	Gross Alpha/Beta	Gross Alpha	1.08E-14	8.63E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200125	DESTREHAN ST.	01/24/18	Gross Alpha/Beta	Gross Beta	3.28E-14	1.41E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200126	DESTREHAN ST.	01/25/18	Gross Alpha/Beta	Gross Alpha	5.33E-15	7.06E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200126	DESTREHAN ST.	01/25/18	Gross Alpha/Beta	Gross Beta	4.45E-14	1.53E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200127	DESTREHAN ST.	01/29/18	Gross Alpha/Beta	Gross Alpha	1.30E-14	9.17E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200127	DESTREHAN ST.	01/29/18	Gross Alpha/Beta	Gross Beta	5.65E-14	1.65E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200128	DESTREHAN ST.	01/30/18	Gross Alpha/Beta	Gross Alpha	7.90E-15	8.12E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200128	DESTREHAN ST.	01/30/18	Gross Alpha/Beta	Gross Beta	3.08E-14	1.43E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200129	DESTREHAN ST.	01/31/18	Gross Alpha/Beta	Gross Alpha	2.18E-15	6.26E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200129	DESTREHAN ST.	01/31/18	Gross Alpha/Beta	Gross Beta	3.72E-14	1.50E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200130	DESTREHAN ST.	02/01/18	Gross Alpha/Beta	Gross Alpha	6.76E-15	7.79E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200130	DESTREHAN ST.	02/01/18	Gross Alpha/Beta	Gross Beta	3.37E-14	1.47E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200131	DESTREHAN ST.	02/05/18	Gross Alpha/Beta	Gross Alpha	5.82E-15	7.72E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200131	DESTREHAN ST.	02/05/18	Gross Alpha/Beta	Gross Beta	2.43E-14	1.40E-14	1.87E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200132	DESTREHAN ST.	02/06/18	Gross Alpha/Beta	Gross Alpha	3.59E-15	7.21E-15	1.18E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200132	DESTREHAN ST.	02/06/18	Gross Alpha/Beta	Gross Beta	2.53E-14	1.45E-14	1.94E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200133	DESTREHAN ST.	02/07/18	Gross Alpha/Beta	Gross Alpha	7.50E-15	7.71E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200133	DESTREHAN ST.	02/07/18	Gross Alpha/Beta	Gross Beta	3.06E-14	1.38E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200134	DESTREHAN ST.	02/08/18	Gross Alpha/Beta	Gross Alpha	4.53E-15	7.17E-15	1.11E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200134	DESTREHAN ST.	02/08/18	Gross Alpha/Beta	Gross Beta	5.27E-14	1.68E-14	1.82E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200134-1	DESTREHAN ST.	02/08/18	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.87E-15	1.11E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200134-1	DESTREHAN ST.	02/08/18	Gross Alpha/Beta	Gross Beta	6.53E-14	1.81E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200135	DESTREHAN ST.	02/12/18	Gross Alpha/Beta	Gross Alpha	4.28E-15	6.77E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200135	DESTREHAN ST.	02/12/18	Gross Alpha/Beta	Gross Beta	3.99E-14	1.49E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200136	DESTREHAN ST.	02/13/18	Gross Alpha/Beta	Gross Alpha	-2.32E-15	4.21E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200136	DESTREHAN ST.	02/13/18	Gross Alpha/Beta	Gross Beta	3.35E-14	1.44E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200137	DESTREHAN ST.	02/14/18	Gross Alpha/Beta	Gross Alpha	6.73E-15	7.75E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200137	DESTREHAN ST.	02/14/18	Gross Alpha/Beta	Gross Beta	3.57E-14	1.48E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200138	DESTREHAN ST.	02/15/18	Gross Alpha/Beta	Gross Alpha	1.02E-15	5.71E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200138	DESTREHAN ST.	02/15/18	Gross Alpha/Beta	Gross Beta	1.29E-14	1.19E-14	1.75E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200139	DESTREHAN ST.	02/22/18	Gross Alpha/Beta	Gross Alpha	1.02E-15	5.68E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200139	DESTREHAN ST.	02/22/18	Gross Alpha/Beta	Gross Beta	5.73E-15	1.10E-14	1.75E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200140	DESTREHAN ST.	02/26/18	Gross Alpha/Beta	Gross Alpha	2.11E-15	6.07E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200140	DESTREHAN ST.	02/26/18	Gross Alpha/Beta	Gross Beta	4.74E-14	1.57E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200141	DESTREHAN ST.	02/27/18	Gross Alpha/Beta	Gross Alpha	5.80E-15	7.68E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200141	DESTREHAN ST.	02/27/18	Gross Alpha/Beta	Gross Beta	3.48E-14	1.51E-14	1.86E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200142	DESTREHAN ST.	02/28/18	Gross Alpha/Beta	Gross Alpha	7.76E-15	7.98E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200142	DESTREHAN ST.	02/28/18	Gross Alpha/Beta	Gross Beta	2.95E-14	1.40E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200143	DESTREHAN ST.	03/01/18	Gross Alpha/Beta	Gross Alpha	-3.39E-15	3.54E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200143	DESTREHAN ST.	03/01/18	Gross Alpha/Beta	Gross Beta	3.73E-14	1.46E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200237	DESTREHAN ST.	02/20/18	Gross Alpha/Beta	Gross Alpha	3.27E-15	5.80E-15	1.01E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200237	DESTREHAN ST.	02/20/18	Gross Alpha/Beta	Gross Beta	1.27E-14	1.26E-14	1.85E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200237-1	DESTREHAN ST.	02/20/18	Gross Alpha/Beta	Gross Alpha	2.11E-15	5.33E-15	1.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200237-1	DESTREHAN ST.	02/20/18	Gross Alpha/Beta	Gross Beta	9.71E-15	1.23E-14	1.85E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200238	DESTREHAN ST.	02/21/18	Gross Alpha/Beta	Gross Alpha	4.42E-15	6.25E-15	1.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200238	DESTREHAN ST.	02/21/18	Gross Alpha/Beta	Gross Beta	3.07E-15	1.14E-14	1.85E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200239	DESTREHAN ST.	03/05/18	Gross Alpha/Beta	Gross Alpha	3.39E-15	6.02E-15	1.05E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200239	DESTREHAN ST.	03/05/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.42E-14	1.92E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200240	DESTREHAN ST.	03/06/18	Gross Alpha/Beta	Gross Alpha	5.35E-15	6.40E-15	9.74E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200240	DESTREHAN ST.	03/06/18	Gross Alpha/Beta	Gross Beta	5.08E-15	1.13E-14	1.78E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200241	DESTREHAN ST.	03/07/18	Gross Alpha/Beta	Gross Alpha	-1.33E-15	3.48E-15	1.00E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200241	DESTREHAN ST.	03/07/18	Gross Alpha/Beta	Gross Beta	1.18E-14	1.24E-14	1.83E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200242	DESTREHAN ST.	03/08/18	Gross Alpha/Beta	Gross Alpha	4.30E-15	6.08E-15	9.87E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200242	DESTREHAN ST.	03/08/18	Gross Alpha/Beta	Gross Beta	3.46E-14	1.49E-14	1.80E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200243	DESTREHAN ST.	03/12/18	Gross Alpha/Beta	Gross Alpha	6.54E-15	6.87E-15	9.87E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200243	DESTREHAN ST.	03/12/18	Gross Alpha/Beta	Gross Beta	4.47E-14	1.59E-14	1.80E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200244	DESTREHAN ST.	03/13/18	Gross Alpha/Beta	Gross Alpha	1.01E-14	8.09E-15	1.01E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200244	DESTREHAN ST.	03/13/18	Gross Alpha/Beta	Gross Beta	7.47E-15	1.20E-14	1.85E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200245	DESTREHAN ST.	03/14/18	Gross Alpha/Beta	Gross Alpha	7.73E-15	7.30E-15	9.96E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD200245	DESTREHAN ST.	03/14/18	Gross Alpha/Beta	Gross Beta	2.62E-14	1.40E-14	1.82E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200246	DESTREHAN ST.	03/15/18	Gross Alpha/Beta	Gross Alpha	5.83E-15	6.98E-15	1.06E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200246	DESTREHAN ST.	03/15/18	Gross Alpha/Beta	Gross Beta	4.73E-14	1.70E-14	1.94E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200247	DESTREHAN ST.	03/19/18	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.94E-15	1.04E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200247	DESTREHAN ST.	03/19/18	Gross Alpha/Beta	Gross Beta	1.60E-14	1.33E-14	1.90E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200247-1	DESTREHAN ST.	03/19/18	Gross Alpha/Beta	Gross Alpha	4.52E-15	6.39E-15	1.04E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200247-1	DESTREHAN ST.	03/19/18	Gross Alpha/Beta	Gross Beta	2.35E-14	1.42E-14	1.90E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200248	DESTREHAN ST.	03/20/18	Gross Alpha/Beta	Gross Alpha	9.56E-16	4.78E-15	1.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200248	DESTREHAN ST.	03/20/18	Gross Alpha/Beta	Gross Beta	1.41E-14	1.28E-14	1.85E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD200249	DESTREHAN ST.	03/21/18	Gross Alpha/Beta	Gross Alpha	-1.28E-15	3.36E-15	9.66E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200249	DESTREHAN ST.	03/21/18	Gross Alpha/Beta	Gross Beta	2.33E-14	1.34E-14	1.77E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200250	DESTREHAN ST.	03/22/18	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.49E-15	9.87E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200250	DESTREHAN ST.	03/22/18	Gross Alpha/Beta	Gross Beta	2.38E-14	1.37E-14	1.80E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200251	DESTREHAN ST.	03/26/18	Gross Alpha/Beta	Gross Alpha	2.72E-15	1.36E-14	2.87E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200251	DESTREHAN ST.	03/26/18	Gross Alpha/Beta	Gross Beta	2.75E-14	3.48E-14	5.25E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200252	DESTREHAN ST.	03/28/18	Gross Alpha/Beta	Gross Alpha	5.28E-15	6.32E-15	9.62E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200252	DESTREHAN ST.	03/28/18	Gross Alpha/Beta	Gross Beta	3.86E-14	1.50E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD200253	DESTREHAN ST.	03/29/18	Gross Alpha/Beta	Gross Alpha	3.45E-15	6.14E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200253	DESTREHAN ST.	03/29/18	Gross Alpha/Beta	Gross Beta	2.35E-14	1.46E-14	1.96E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200254	DESTREHAN ST.	04/02/18	Gross Alpha/Beta	Gross Alpha	5.78E-15	6.91E-15	1.05E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200254	DESTREHAN ST.	04/02/18	Gross Alpha/Beta	Gross Beta	2.16E-14	1.41E-14	1.92E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200255	DESTREHAN ST.	04/02/18	Gross Alpha/Beta	Gross Alpha	1.05E-15	5.25E-15	1.11E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200255	DESTREHAN ST.	04/02/18	Gross Alpha/Beta	Gross Beta	1.22E-14	1.36E-14	2.03E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200256	DESTREHAN ST.	04/03/18	Gross Alpha/Beta	Gross Alpha	5.55E-15	7.85E-15	1.27E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200256	DESTREHAN ST.	04/03/18	Gross Alpha/Beta	Gross Beta	3.44E-14	1.80E-14	2.33E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201420	DESTREHAN ST.	04/04/18	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.17E-15	9.60E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201420	DESTREHAN ST.	04/04/18	Gross Alpha/Beta	Gross Beta	1.97E-14	1.61E-14	1.76E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201420-1	DESTREHAN ST.	04/04/18	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.17E-15	9.60E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201420-1	DESTREHAN ST.	04/04/18	Gross Alpha/Beta	Gross Beta	1.83E-14	1.60E-14	1.76E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201421	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Alpha	-2.68E-15	9.34E-15	2.50E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201421	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Beta	4.58E-14	4.15E-14	4.60E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201422	DESTREHAN ST.	04/05/18	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.58E-15	1.03E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201422	DESTREHAN ST.	04/05/18	Gross Alpha/Beta	Gross Beta	2.12E-14	1.73E-14	1.90E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201423	DESTREHAN ST.	04/10/18	Gross Alpha/Beta	Gross Alpha	8.72E-15	7.36E-15	9.23E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201423	DESTREHAN ST.	04/10/18	Gross Alpha/Beta	Gross Beta	1.55E-14	1.52E-14	1.69E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201424	DESTREHAN ST.	04/12/18	Gross Alpha/Beta	Gross Alpha	5.60E-15	6.46E-15	9.43E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201424	DESTREHAN ST.	04/12/18	Gross Alpha/Beta	Gross Beta	1.72E-14	1.56E-14	1.73E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201425	DESTREHAN ST.	04/16/18	Gross Alpha/Beta	Gross Alpha	4.54E-15	6.12E-15	9.51E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201425	DESTREHAN ST.	04/16/18	Gross Alpha/Beta	Gross Beta	1.03E-14	1.51E-14	1.75E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201426	DESTREHAN ST.	04/17/18	Gross Alpha/Beta	Gross Alpha	6.62E-15	6.74E-15	9.31E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201426	DESTREHAN ST.	04/17/18	Gross Alpha/Beta	Gross Beta	2.61E-14	1.63E-14	1.71E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201427	DESTREHAN ST.	04/18/18	Gross Alpha/Beta	Gross Alpha	7.04E-15	7.17E-15	9.90E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201427	DESTREHAN ST.	04/18/18	Gross Alpha/Beta	Gross Beta	2.48E-14	1.70E-14	1.82E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201428	DESTREHAN ST.	04/19/18	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.33E-15	9.68E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201428	DESTREHAN ST.	04/19/18	Gross Alpha/Beta	Gross Beta	1.55E-14	1.58E-14	1.78E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201429	DESTREHAN ST.	04/23/18	Gross Alpha/Beta	Gross Alpha	6.89E-15	7.01E-15	9.68E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201429	DESTREHAN ST.	04/23/18	Gross Alpha/Beta	Gross Beta	2.71E-14	1.69E-14	1.78E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201430	DESTREHAN ST.	04/25/18	Gross Alpha/Beta	Gross Alpha	1.34E-14	8.78E-15	9.47E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201430	DESTREHAN ST.	04/25/18	Gross Alpha/Beta	Gross Beta	3.22E-14	1.71E-14	1.74E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201431	DESTREHAN ST.	04/26/18	Gross Alpha/Beta	Gross Alpha	1.24E-15	4.87E-15	9.77E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201431	DESTREHAN ST.	04/26/18	Gross Alpha/Beta	Gross Beta	1.79E-14	1.62E-14	1.79E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201432	DESTREHAN ST.	04/30/18	Gross Alpha/Beta	Gross Alpha	6.89E-15	7.01E-15	9.68E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201432	DESTREHAN ST.	04/30/18	Gross Alpha/Beta	Gross Beta	2.20E-14	1.65E-14	1.78E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201433	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.83E-15	9.86E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201433	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Beta	3.50E-14	1.79E-14	1.81E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201434	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Alpha	9.44E-15	7.97E-15	9.99E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201434	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Beta	2.95E-14	1.76E-14	1.83E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201435	DESTREHAN ST.	05/02/18	Gross Alpha/Beta	Gross Alpha	1.20E-14	1.61E-14	2.50E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201435	DESTREHAN ST.	05/02/18	Gross Alpha/Beta	Gross Beta	3.26E-14	4.02E-14	4.60E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201436	DESTREHAN ST.	05/03/18	Gross Alpha/Beta	Gross Alpha	5.47E-15	7.37E-15	1.15E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201436	DESTREHAN ST.	05/03/18	Gross Alpha/Beta	Gross Beta	7.22E-15	1.77E-14	2.10E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201437	DESTREHAN ST.	05/07/18	Gross Alpha/Beta	Gross Alpha	4.75E-15	6.40E-15	9.95E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201437	DESTREHAN ST.	05/07/18	Gross Alpha/Beta	Gross Beta	1.89E-14	1.66E-14	1.83E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201438	DESTREHAN ST.	05/08/18	Gross Alpha/Beta	Gross Alpha	9.50E-17	4.28E-15	9.73E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201438	DESTREHAN ST.	05/08/18	Gross Alpha/Beta	Gross Beta	2.14E-14	1.65E-14	1.79E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201439	DESTREHAN ST.	05/09/18	Gross Alpha/Beta	Gross Alpha	1.38E-15	5.43E-15	1.09E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201439	DESTREHAN ST.	05/09/18	Gross Alpha/Beta	Gross Beta	2.97E-14	1.90E-14	2.00E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201440	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.46E-15	1.00E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201440	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Beta	3.34E-14	1.80E-14	1.84E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201440-1	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Alpha	8.31E-15	7.64E-15	1.00E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201440-1	DESTREHAN ST.	04/09/18	Gross Alpha/Beta	Gross Beta	2.59E-14	1.73E-14	1.84E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201441	DESTREHAN ST.	04/11/18	Gross Alpha/Beta	Gross Alpha	4.66E-15	6.28E-15	9.77E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201441	DESTREHAN ST.	04/11/18	Gross Alpha/Beta	Gross Beta	1.93E-14	1.63E-14	1.79E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201442	DESTREHAN ST.	04/18/18	Gross Alpha/Beta	Gross Alpha	8.35E-15	7.68E-15	1.01E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201442	DESTREHAN ST.	04/18/18	Gross Alpha/Beta	Gross Beta	2.82E-14	1.76E-14	1.85E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201443	DESTREHAN ST.	04/19/18	Gross Alpha/Beta	Gross Alpha	5.88E-15	6.78E-15	9.90E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201443	DESTREHAN ST.	04/19/18	Gross Alpha/Beta	Gross Beta	1.14E-14	1.58E-14	1.82E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201444	DESTREHAN ST.	04/24/18	Gross Alpha/Beta	Gross Alpha	9.89E-15	7.74E-15	9.31E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201444	DESTREHAN ST.	04/24/18	Gross Alpha/Beta	Gross Beta	1.84E-14	1.56E-14	1.71E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201445	DESTREHAN ST.	04/25/18	Gross Alpha/Beta	Gross Alpha	7.43E-15	1.00E-14	1.56E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201445	DESTREHAN ST.	04/25/18	Gross Alpha/Beta	Gross Beta	2.15E-14	2.51E-14	2.86E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201446	DESTREHAN ST.	04/26/18	Gross Alpha/Beta	Gross Alpha	5.56E-15	7.49E-15	1.17E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201446	DESTREHAN ST.	04/26/18	Gross Alpha/Beta	Gross Beta	1.26E-14	1.85E-14	2.14E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201447	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Alpha	9.31E-15	2.11E-14	3.82E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201447	DESTREHAN ST.	05/01/18	Gross Alpha/Beta	Gross Beta	4.12E-14	6.06E-14	7.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201448	DESTREHAN ST.	05/02/18	Gross Alpha/Beta	Gross Alpha	3.46E-15	5.75E-15	9.60E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201448	DESTREHAN ST.	05/02/18	Gross Alpha/Beta	Gross Beta	3.98E-14	1.80E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201449	DESTREHAN ST.	05/03/18	Gross Alpha/Beta	Gross Alpha	5.05E-15	6.80E-15	1.06E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201449	DESTREHAN ST.	05/03/18	Gross Alpha/Beta	Gross Beta	-4.62E-16	1.56E-14	1.94E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201450	DESTREHAN ST.	05/07/18	Gross Alpha/Beta	Gross Alpha	5.53E-15	7.45E-15	1.16E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201450	DESTREHAN ST.	05/07/18	Gross Alpha/Beta	Gross Beta	1.68E-14	1.88E-14	2.13E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201451	DESTREHAN ST.	05/08/18	Gross Alpha/Beta	Gross Alpha	4.31E-15	7.17E-15	1.20E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201451	DESTREHAN ST.	05/08/18	Gross Alpha/Beta	Gross Beta	2.55E-14	2.02E-14	2.20E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201452	DESTREHAN ST.	05/09/18	Gross Alpha/Beta	Gross Alpha	8.75E-15	1.01E-14	1.47E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201452	DESTREHAN ST.	05/09/18	Gross Alpha/Beta	Gross Beta	4.12E-14	2.57E-14	2.70E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201454	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Alpha	1.03E-14	9.26E-15	1.20E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201454	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Beta	3.99E-14	2.00E-14	2.78E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201544-1	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Alpha	1.32E-14	1.01E-14	1.20E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201544-1	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Beta	3.35E-14	1.94E-14	2.78E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201545	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Alpha	1.54E-15	5.22E-15	1.03E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201545	DESTREHAN ST.	05/10/18	Gross Alpha/Beta	Gross Beta	4.48E-14	1.83E-14	2.40E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201546	DESTREHAN ST.	05/14/18	Gross Alpha/Beta	Gross Alpha	1.46E-14	1.62E-14	2.33E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201546	DESTREHAN ST.	05/14/18	Gross Alpha/Beta	Gross Beta	4.92E-14	3.61E-14	5.42E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201547	DESTREHAN ST.	05/14/18	Gross Alpha/Beta	Gross Alpha	9.99E-15	8.23E-15	1.02E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201547	DESTREHAN ST.	05/14/18	Gross Alpha/Beta	Gross Beta	3.39E-14	1.70E-14	2.36E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201548	DESTREHAN ST.	05/15/18	Gross Alpha/Beta	Gross Alpha	-2.10E-15	2.92E-15	1.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201548	DESTREHAN ST.	05/15/18	Gross Alpha/Beta	Gross Beta	1.43E-14	1.49E-14	2.34E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201549	DESTREHAN ST.	05/16/18	Gross Alpha/Beta	Gross Alpha	3.71E-15	5.81E-15	9.56E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201549	DESTREHAN ST.	05/16/18	Gross Alpha/Beta	Gross Beta	3.19E-14	1.60E-14	2.22E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201550	DESTREHAN ST.	05/17/18	Gross Alpha/Beta	Gross Alpha	1.06E-14	9.46E-15	1.22E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201550	DESTREHAN ST.	05/17/18	Gross Alpha/Beta	Gross Beta	5.38E-14	2.18E-14	2.84E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201551	DESTREHAN ST.	05/21/18	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.69E-15	1.07E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201551	DESTREHAN ST.	05/21/18	Gross Alpha/Beta	Gross Beta	2.26E-14	1.66E-14	2.50E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201552	DESTREHAN ST.	05/22/18	Gross Alpha/Beta	Gross Alpha	2.93E-15	6.10E-15	1.09E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201552	DESTREHAN ST.	05/22/18	Gross Alpha/Beta	Gross Beta	4.98E-14	1.96E-14	2.54E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201553	DESTREHAN ST.	05/23/18	Gross Alpha/Beta	Gross Alpha	6.62E-15	7.36E-15	1.06E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201553	DESTREHAN ST.	05/23/18	Gross Alpha/Beta	Gross Beta	4.58E-14	1.88E-14	2.46E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201554	DESTREHAN ST.	05/24/18	Gross Alpha/Beta	Gross Alpha	1.481E-15	5.011E-15	9.931E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201554	DESTREHAN ST.	05/24/18	Gross Alpha/Beta	Gross Beta	3.92E-14	1.725E-14	2.31E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201555	DESTREHAN ST.	05/29/18	Gross Alpha/Beta	Gross Alpha	5.1E-15	6.57E-15	1.006E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201555	DESTREHAN ST.	05/29/18	Gross Alpha/Beta	Gross Beta	3.664E-14	1.717E-14	2.341E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201556	DESTREHAN ST.	05/30/18	Gross Alpha/Beta	Gross Alpha	3.065E-15	6.376E-15	1.142E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201556	DESTREHAN ST.	05/30/18	Gross Alpha/Beta	Gross Beta	1.362E-14	1.657E-14	2.657E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201557	DESTREHAN ST.	05/31/18	Gross Alpha/Beta	Gross Alpha	8.441E-15	7.557E-15	9.761E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201557	DESTREHAN ST.	05/31/18	Gross Alpha/Beta	Gross Beta	3.031E-14	1.613E-14	2.271E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201558	DESTREHAN ST.	06/04/18	Gross Alpha/Beta	Gross Alpha	-2.855E-15	3.964E-15	1.368E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201558	DESTREHAN ST.	06/04/18	Gross Alpha/Beta	Gross Beta	3.515E-14	2.184E-14	3.182E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201559	DESTREHAN ST.	06/05/18	Gross Alpha/Beta	Gross Alpha	2.95E-16	4.395E-15	9.888E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201559	DESTREHAN ST.	06/05/18	Gross Alpha/Beta	Gross Beta	2.465E-14	1.571E-14	2.3E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201560	DESTREHAN ST.	06/06/18	Gross Alpha/Beta	Gross Alpha	3.784E-15	5.929E-15	9.761E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201560	DESTREHAN ST.	06/06/18	Gross Alpha/Beta	Gross Beta	4.226E-14	1.732E-14	2.271E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201561	DESTREHAN ST.	06/07/18	Gross Alpha/Beta	Gross Alpha	2.94E-16	4.376E-15	9.846E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201561	DESTREHAN ST.	06/07/18	Gross Alpha/Beta	Gross Beta	4.564E-14	1.776E-14	2.29E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201562	DESTREHAN ST.	06/11/18	Gross Alpha/Beta	Gross Alpha	4.383E-15	6.869E-15	1.131E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201562	DESTREHAN ST.	06/11/18	Gross Alpha/Beta	Gross Beta	3.771E-14	1.894E-14	2.63E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201563	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Alpha	5.056E-15	6.513E-15	9.975E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201563	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Beta	2.639E-14	1.601E-14	2.32E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201564	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Alpha	6.21E-15	7.677E-15	1.159E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201564	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Beta	2.247E-14	1.62E-14	2.447E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD201564-1	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Alpha	8.653E-15	8.429E-15	1.159E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201564-1	DESTREHAN ST.	06/12/18	Gross Alpha/Beta	Gross Beta	3.814E-14	1.778E-14	2.447E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201565	DESTREHAN ST.	06/14/18	Gross Alpha/Beta	Gross Alpha	1.323E-15	5.906E-15	1.159E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201565	DESTREHAN ST.	06/14/18	Gross Alpha/Beta	Gross Beta	3.814E-14	1.778E-14	2.447E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201566	DESTREHAN ST.	06/18/18	Gross Alpha/Beta	Gross Alpha	2.522E-15	6.337E-15	1.148E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201566	DESTREHAN ST.	06/18/18	Gross Alpha/Beta	Gross Beta	1.605E-14	1.54E-14	2.425E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201567	DESTREHAN ST.	06/19/18	Gross Alpha/Beta	Gross Alpha	9.7E-17	5.124E-15	1.104E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201567	DESTREHAN ST.	06/19/18	Gross Alpha/Beta	Gross Beta	2.141E-14	1.544E-14	2.332E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201568	DESTREHAN ST.	06/20/18	Gross Alpha/Beta	Gross Alpha	1.8E-16	9.516E-15	2.05E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201568	DESTREHAN ST.	06/20/18	Gross Alpha/Beta	Gross Beta	2.312E-14	2.691E-14	4.33E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201569	DESTREHAN ST.	06/21/18	Gross Alpha/Beta	Gross Alpha	-1.058E-15	4.526E-15	1.095E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201569	DESTREHAN ST.	06/21/18	Gross Alpha/Beta	Gross Beta	1.531E-14	1.469E-14	2.312E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD201570	DESTREHAN ST.	06/25/18	Gross Alpha/Beta	Gross Alpha	1.04E-16	5.5E-15	1.185E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201570	DESTREHAN ST.	06/25/18	Gross Alpha/Beta	Gross Beta	2.539E-14	1.682E-14	2.503E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201571	DESTREHAN ST.	06/27/18	Gross Alpha/Beta	Gross Alpha	6.306E-15	1.584E-14	2.87E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201571	DESTREHAN ST.	06/27/18	Gross Alpha/Beta	Gross Beta	2.848E-14	3.726E-14	6.062E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201572	DESTREHAN ST.	06/28/18	Gross Alpha/Beta	Gross Alpha	2.603E-15	6.54E-15	1.185E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201572	DESTREHAN ST.	06/28/18	Gross Alpha/Beta	Gross Beta	3.26E-14	1.755E-14	2.503E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201573	DESTREHAN ST.	07/02/18	Gross Alpha/Beta	Gross Alpha	1.164E-14	8.93E-15	1.095E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201573	DESTREHAN ST.	07/02/18	Gross Alpha/Beta	Gross Beta	4.641E-14	1.781E-14	2.312E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201574	DESTREHAN ST.	07/03/18	Gross Alpha/Beta	Gross Alpha	7.432E-15	8.061E-15	1.159E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201574	DESTREHAN ST.	07/03/18	Gross Alpha/Beta	Gross Beta	5.382E-14	1.929E-14	2.447E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201575	DESTREHAN ST.	07/05/18	Gross Alpha/Beta	Gross Alpha	1.312E-15	5.854E-15	1.148E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD201575	DESTREHAN ST.	07/05/18	Gross Alpha/Beta	Gross Beta	3.625E-14	1.747E-14	2.425E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD201576	DESTREHAN ST.	07/09/18	Gross Alpha/Beta	Gross Alpha	1.221E-14	9.367E-15	1.148E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD201576	DESTREHAN ST.	07/09/18	Gross Alpha/Beta	Gross Beta	5.489E-14	1.927E-14	2.425E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203825	DESTREHAN ST.	07/10/18	Gross Alpha/Beta	Gross Alpha	1.675E-14	1.039E-14	1.128E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203825	DESTREHAN ST.	07/10/18	Gross Alpha/Beta	Gross Beta	4.401E-14	1.798E-14	2.383E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203826	DESTREHAN ST.	07/11/18	Gross Alpha/Beta	Gross Alpha	6.352E-15	7.853E-15	1.185E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203826	DESTREHAN ST.	07/11/18	Gross Alpha/Beta	Gross Beta	3.501E-14	1.779E-14	2.503E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203827	DESTREHAN ST.	07/12/18	Gross Alpha/Beta	Gross Alpha	6.101E-15	7.542E-15	1.138E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203827	DESTREHAN ST.	07/12/18	Gross Alpha/Beta	Gross Beta	2.361E-14	1.607E-14	2.404E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD203828	DESTREHAN ST.	07/16/18	Gross Alpha/Beta	Gross Alpha	7.301E-15	7.919E-15	1.138E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203828	DESTREHAN ST.	07/16/18	Gross Alpha/Beta	Gross Beta	4.594E-14	1.829E-14	2.404E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203829	DESTREHAN ST.	07/17/18	Gross Alpha/Beta	Gross Alpha	8.427E-15	8.208E-15	1.128E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD203829	DESTREHAN ST.	07/17/18	Gross Alpha/Beta	Gross Beta	3.562E-14	1.716E-14	2.383E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203830	DESTREHAN ST.	07/18/18	Gross Alpha/Beta	Gross Alpha	1.366E-15	6.098E-15	1.196E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203830	DESTREHAN ST.	07/18/18	Gross Alpha/Beta	Gross Beta	3.776E-14	1.82E-14	2.526E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203831	DESTREHAN ST.	07/19/18	Gross Alpha/Beta	Gross Alpha	2.652E-15	6.663E-15	1.207E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203831	DESTREHAN ST.	07/19/18	Gross Alpha/Beta	Gross Beta	4.546E-14	1.909E-14	2.55E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203957	DESTREHAN ST.	07/23/18	Gross Alpha/Beta	Gross Alpha	2.6E-15	1.047E-14	1.228E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD203957	DESTREHAN ST.	07/23/18	Gross Alpha/Beta	Gross Beta	2.008E-14	1.699E-14	2.444E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD203957-1	DESTREHAN ST.	07/23/18	Gross Alpha/Beta	Gross Alpha	9.801E-15	1.203E-14	1.228E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203957-1	DESTREHAN ST.	07/23/18	Gross Alpha/Beta	Gross Beta	2.778E-14	1.773E-14	2.444E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203958	DESTREHAN ST.	07/24/18	Gross Alpha/Beta	Gross Alpha	1.058E-14	1.18E-14	1.181E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203958	DESTREHAN ST.	07/24/18	Gross Alpha/Beta	Gross Beta	5.19E-14	1.936E-14	2.351E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203959	DESTREHAN ST.	07/25/18	Gross Alpha/Beta	Gross Alpha	3.751E-15	1.061E-14	1.212E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203959	DESTREHAN ST.	07/25/18	Gross Alpha/Beta	Gross Beta	1.906E-14	1.67E-14	2.412E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD203960	DESTREHAN ST.	07/26/18	Gross Alpha/Beta	Gross Alpha	4.564E-15	1.291E-14	1.475E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203960	DESTREHAN ST.	07/26/18	Gross Alpha/Beta	Gross Beta	4.909E-14	2.275E-14	2.936E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203961	DESTREHAN ST.	07/30/18	Gross Alpha/Beta	Gross Alpha	8.344E-15	1.143E-14	1.192E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203961	DESTREHAN ST.	07/30/18	Gross Alpha/Beta	Gross Beta	3.815E-14	1.824E-14	2.371E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203962	DESTREHAN ST.	07/31/18	Gross Alpha/Beta	Gross Alpha	3.718E-15	1.052E-14	1.202E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203962	DESTREHAN ST.	07/31/18	Gross Alpha/Beta	Gross Beta	2.944E-14	1.756E-14	2.392E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203963	DESTREHAN ST.	08/01/18	Gross Alpha/Beta	Gross Alpha	8.755E-15	1.199E-14	1.25E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203963	DESTREHAN ST.	08/01/18	Gross Alpha/Beta	Gross Beta	4.787E-14	1.986E-14	2.488E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203964	DESTREHAN ST.	08/02/18	Gross Alpha/Beta	Gross Alpha	1.80E-14	1.35E-14	1.21E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203964	DESTREHAN ST.	08/02/18	Gross Alpha/Beta	Gross Beta	7.38E-14	2.17E-14	2.41E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203965	DESTREHAN ST.	08/06/18	Gross Alpha/Beta	Gross Alpha	1.18E-14	1.21E-14	1.19E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203965	DESTREHAN ST.	08/06/18	Gross Alpha/Beta	Gross Beta	3.44E-14	1.79E-14	2.37E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203966	DESTREHAN ST.	08/08/18	Gross Alpha/Beta	Gross Alpha	1.08E-14	1.21E-14	1.21E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203966	DESTREHAN ST.	08/08/18	Gross Alpha/Beta	Gross Beta	3.41E-14	1.81E-14	2.40E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203967	DESTREHAN ST.	08/09/18	Gross Alpha/Beta	Gross Alpha	7.71E-15	1.20E-14	1.28E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203967	DESTREHAN ST.	08/09/18	Gross Alpha/Beta	Gross Beta	4.42E-14	1.99E-14	2.55E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203968	DESTREHAN ST.	08/13/18	Gross Alpha/Beta	Gross Alpha	6.74E-15	1.23E-14	1.33E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203968	DESTREHAN ST.	08/13/18	Gross Alpha/Beta	Gross Beta	3.19E-14	1.94E-14	2.66E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203969	DESTREHAN ST.	08/14/18	Gross Alpha/Beta	Gross Alpha	8.27E-15	1.13E-14	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203969	DESTREHAN ST.	08/14/18	Gross Alpha/Beta	Gross Beta	4.30E-14	1.86E-14	2.35E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD203970	DESTREHAN ST.	08/16/18	Gross Alpha/Beta	Gross Alpha	4.96E-15	1.09E-14	1.22E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203970	DESTREHAN ST.	08/16/18	Gross Alpha/Beta	Gross Beta	1.08E-14	1.60E-14	2.42E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203971	DESTREHAN ST.	08/20/18	Gross Alpha/Beta	Gross Alpha	-1.14E-15	1.10E-14	1.40E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203971	DESTREHAN ST.	08/20/18	Gross Alpha/Beta	Gross Beta	1.59E-14	1.87E-14	2.79E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203972	DESTREHAN ST.	08/21/18	Gross Alpha/Beta	Gross Alpha	1.40E-15	1.02E-14	1.23E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203972	DESTREHAN ST.	08/21/18	Gross Alpha/Beta	Gross Beta	1.93E-14	1.69E-14	2.44E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD203973	DESTREHAN ST.	08/22/18	Gross Alpha/Beta	Gross Alpha	1.11E-14	1.37E-14	1.39E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203973	DESTREHAN ST.	08/22/18	Gross Alpha/Beta	Gross Beta	1.32E-14	1.84E-14	2.77E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203974	DESTREHAN ST.	08/23/18	Gross Alpha/Beta	Gross Alpha	4.52E-15	9.96E-15	1.11E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203974	DESTREHAN ST.	08/23/18	Gross Alpha/Beta	Gross Beta	1.75E-14	1.53E-14	2.21E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD203975	DESTREHAN ST.	08/27/18	Gross Alpha/Beta	Gross Alpha	2.60E-15	1.05E-14	1.23E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203975	DESTREHAN ST.	08/27/18	Gross Alpha/Beta	Gross Beta	3.47E-14	1.84E-14	2.44E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD203976	DESTREHAN ST.	08/28/18	Gross Alpha/Beta	Gross Alpha	-9.91E-16	9.53E-15	1.22E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD203976	DESTREHAN ST.	08/28/18	Gross Alpha/Beta	Gross Beta	8.46E-15	1.57E-14	2.42E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD204001	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Alpha	4.60E-15	1.58E-14	2.86E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD204001	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Beta	-6.64E-15	4.16E-14	7.03E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD204001-1	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Alpha	1.49E-14	1.99E-14	2.86E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204001-1	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Beta	3.98E-14	4.63E-14	7.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204002	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Alpha	4.07E-16	5.04E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204002	DESTREHAN ST.	08/30/18	Gross Alpha/Beta	Gross Beta	2.98E-14	1.79E-14	2.49E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204003	DESTREHAN ST.	09/04/18	Gross Alpha/Beta	Gross Alpha	7.84E-15	7.95E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204003	DESTREHAN ST.	09/04/18	Gross Alpha/Beta	Gross Beta	1.75E-14	1.70E-14	2.52E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204004	DESTREHAN ST.	09/04/18	Gross Alpha/Beta	Gross Alpha	5.22E-15	6.94E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204004	DESTREHAN ST.	09/04/18	Gross Alpha/Beta	Gross Beta	2.32E-14	1.71E-14	2.46E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204005	DESTREHAN ST.	09/05/18	Gross Alpha/Beta	Gross Alpha	6.40E-15	7.32E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204005	DESTREHAN ST.	09/05/18	Gross Alpha/Beta	Gross Beta	2.62E-14	1.73E-14	2.45E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204006	DESTREHAN ST.	09/05/18	Gross Alpha/Beta	Gross Alpha	1.59E-15	5.48E-15	9.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204006	DESTREHAN ST.	09/05/18	Gross Alpha/Beta	Gross Beta	3.91E-14	1.85E-14	2.44E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204007	DESTREHAN ST.	09/06/18	Gross Alpha/Beta	Gross Alpha	2.27E-15	7.81E-15	1.41E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204007	DESTREHAN ST.	09/06/18	Gross Alpha/Beta	Gross Beta	4.26E-14	2.51E-14	3.47E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204008	DESTREHAN ST.	09/06/18	Gross Alpha/Beta	Gross Alpha	5.52E-15	7.33E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204008	DESTREHAN ST.	09/06/18	Gross Alpha/Beta	Gross Beta	3.02E-14	1.86E-14	2.59E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204009	DESTREHAN ST.	09/12/18	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.91E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204009	DESTREHAN ST.	09/12/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.67E-14	2.45E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204010	DESTREHAN ST.	09/13/18	Gross Alpha/Beta	Gross Alpha	7.67E-15	7.77E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204010	DESTREHAN ST.	09/13/18	Gross Alpha/Beta	Gross Beta	2.25E-14	1.71E-14	2.47E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204011	DESTREHAN ST.	09/17/18	Gross Alpha/Beta	Gross Alpha	2.89E-15	6.20E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204011	DESTREHAN ST.	09/17/18	Gross Alpha/Beta	Gross Beta	2.38E-14	1.76E-14	2.52E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204012	DESTREHAN ST.	09/18/18	Gross Alpha/Beta	Gross Alpha	5.11E-15	6.79E-15	9.79E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD204012	DESTREHAN ST.	09/18/18	Gross Alpha/Beta	Gross Beta	4.24E-14	1.86E-14	2.40E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204013	DESTREHAN ST.	09/19/18	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.51E-15	9.66E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204013	DESTREHAN ST.	09/19/18	Gross Alpha/Beta	Gross Beta	4.63E-14	1.88E-14	2.37E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204014	DESTREHAN ST.	09/20/18	Gross Alpha/Beta	Gross Alpha	7.84E-15	7.95E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204014	DESTREHAN ST.	09/20/18	Gross Alpha/Beta	Gross Beta	3.89E-14	1.90E-14	2.52E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204015	DESTREHAN ST.	09/24/18	Gross Alpha/Beta	Gross Alpha	2.85E-15	6.12E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204015	DESTREHAN ST.	09/24/18	Gross Alpha/Beta	Gross Beta	7.05E-15	1.57E-14	2.49E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204016	DESTREHAN ST.	09/25/18	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.91E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204016	DESTREHAN ST.	09/25/18	Gross Alpha/Beta	Gross Beta	1.46E-14	1.62E-14	2.45E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204017	DESTREHAN ST.	09/26/18	Gross Alpha/Beta	Gross Alpha	-3.23E-15	2.73E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204017	DESTREHAN ST.	09/26/18	Gross Alpha/Beta	Gross Beta	3.03E-14	1.79E-14	2.47E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD204018	DESTREHAN ST.	09/27/18	Gross Alpha/Beta	Gross Alpha	2.83E-15	6.06E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204018	DESTREHAN ST.	09/27/18	Gross Alpha/Beta	Gross Beta	2.25E-14	1.71E-14	2.47E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204019	DESTREHAN ST.	10/01/18	Gross Alpha/Beta	Gross Alpha	-2.12E-15	3.83E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204019	DESTREHAN ST.	10/01/18	Gross Alpha/Beta	Gross Beta	3.27E-14	1.89E-14	2.59E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207312	DESTREHAN ST.	10/02/18	Gross Alpha/Beta	Gross Alpha	6.79E-15	7.60E-15	1.15E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD207312	DESTREHAN ST.	10/02/18	Gross Alpha/Beta	Gross Beta	1.81E-14	1.19E-14	1.75E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD207312-1	DESTREHAN ST.	10/02/18	Gross Alpha/Beta	Gross Alpha	6.79E-15	7.60E-15	1.15E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207312-1	DESTREHAN ST.	10/02/18	Gross Alpha/Beta	Gross Beta	6.85E-15	1.05E-14	1.75E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207313	DESTREHAN ST.	10/03/18	Gross Alpha/Beta	Gross Alpha	9.80E-17	5.52E-15	1.21E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207313	DESTREHAN ST.	10/03/18	Gross Alpha/Beta	Gross Beta	1.01E-14	1.14E-14	1.84E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207314	DESTREHAN ST.	10/04/18	Gross Alpha/Beta	Gross Alpha	3.53E-15	6.70E-15	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207314	DESTREHAN ST.	10/04/18	Gross Alpha/Beta	Gross Beta	2.07E-14	1.25E-14	1.80E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207315	DESTREHAN ST.	10/08/18	Gross Alpha/Beta	Gross Alpha	4.68E-15	7.09E-15	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207315	DESTREHAN ST.	10/08/18	Gross Alpha/Beta	Gross Beta	3.23E-14	1.39E-14	1.80E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207316	DESTREHAN ST.	10/09/18	Gross Alpha/Beta	Gross Alpha	6.70E-15	7.50E-15	1.14E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207316	DESTREHAN ST.	10/09/18	Gross Alpha/Beta	Gross Beta	2.69E-14	1.29E-14	1.73E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207317	DESTREHAN ST.	10/10/18	Gross Alpha/Beta	Gross Alpha	5.77E-15	7.39E-15	1.17E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207317	DESTREHAN ST.	10/10/18	Gross Alpha/Beta	Gross Beta	1.20E-14	1.13E-14	1.78E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD207318	DESTREHAN ST.	10/11/18	Gross Alpha/Beta	Gross Alpha	1.23E-15	5.81E-15	1.17E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207318	DESTREHAN ST.	10/11/18	Gross Alpha/Beta	Gross Beta	1.25E-15	9.85E-15	1.78E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207319	DESTREHAN ST.	10/15/18	Gross Alpha/Beta	Gross Alpha	1.25E-15	5.92E-15	1.19E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207319	DESTREHAN ST.	10/15/18	Gross Alpha/Beta	Gross Beta	2.45E-14	1.31E-14	1.82E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207320	DESTREHAN ST.	10/16/18	Gross Alpha/Beta	Gross Alpha	9.40E-17	5.30E-15	1.16E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207320	DESTREHAN ST.	10/16/18	Gross Alpha/Beta	Gross Beta	2.60E-14	1.30E-14	1.77E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207321	DESTREHAN ST.	10/17/18	Gross Alpha/Beta	Gross Alpha	4.46E-15	6.76E-15	1.13E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207321	DESTREHAN ST.	10/17/18	Gross Alpha/Beta	Gross Beta	7.39E-15	1.03E-14	1.72E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207322	DESTREHAN ST.	10/18/18	Gross Alpha/Beta	Gross Alpha	-1.06E-15	4.93E-15	1.19E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207322	DESTREHAN ST.	10/18/18	Gross Alpha/Beta	Gross Beta	1.95E-14	1.25E-14	1.82E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207323	DESTREHAN ST.	10/22/18	Gross Alpha/Beta	Gross Alpha	-3.26E-15	3.57E-15	1.15E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207323	DESTREHAN ST.	10/22/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.39E-14	1.75E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207324	DESTREHAN ST.	10/23/18	Gross Alpha/Beta	Gross Alpha	5.82E-15	7.45E-15	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207324	DESTREHAN ST.	10/23/18	Gross Alpha/Beta	Gross Beta	2.14E-14	1.26E-14	1.80E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207325	DESTREHAN ST.	10/24/18	Gross Alpha/Beta	Gross Alpha	1.24E-15	5.86E-15	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207325	DESTREHAN ST.	10/24/18	Gross Alpha/Beta	Gross Beta	1.42E-14	1.17E-14	1.80E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD207326	DESTREHAN ST.	10/25/18	Gross Alpha/Beta	Gross Alpha	4.52E-15	8.57E-15	1.51E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207326	DESTREHAN ST.	10/25/18	Gross Alpha/Beta	Gross Beta	1.18E-14	1.41E-14	2.30E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207327	DESTREHAN ST.	10/29/18	Gross Alpha/Beta	Gross Alpha	2.71E-15	7.16E-15	1.34E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207327	DESTREHAN ST.	10/29/18	Gross Alpha/Beta	Gross Beta	2.44E-14	1.43E-14	2.05E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207328	DESTREHAN ST.	10/30/18	Gross Alpha/Beta	Gross Alpha	2.30E-15	6.05E-15	1.14E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207328	DESTREHAN ST.	10/30/18	Gross Alpha/Beta	Gross Beta	3.17E-14	1.34E-14	1.73E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207329	DESTREHAN ST.	10/31/18	Gross Alpha/Beta	Gross Alpha	2.39E-15	6.30E-15	1.18E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207329	DESTREHAN ST.	10/31/18	Gross Alpha/Beta	Gross Beta	4.45E-14	1.53E-14	1.80E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207330	DESTREHAN ST.	11/01/18	Gross Alpha/Beta	Gross Alpha	9.50E-17	5.35E-15	1.17E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207330	DESTREHAN ST.	11/01/18	Gross Alpha/Beta	Gross Beta	1.05E-14	1.11E-14	1.78E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207331	DESTREHAN ST.	11/05/18	Gross Alpha/Beta	Gross Alpha	-6.31E-15	4.03E-15	1.66E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207331	DESTREHAN ST.	11/05/18	Gross Alpha/Beta	Gross Beta	1.90E-14	1.63E-14	2.53E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD207372	DESTREHAN ST.	11/06/18	Gross Alpha/Beta	Gross Alpha	2.23E-15	5.92E-15	1.07E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD207372	DESTREHAN ST.	11/06/18	Gross Alpha/Beta	Gross Beta	2.77E-14	1.38E-14	1.84E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD207372-1	DESTREHAN ST.	11/06/18	Gross Alpha/Beta	Gross Alpha	3.45E-15	6.40E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207372-1	DESTREHAN ST.	11/06/18	Gross Alpha/Beta	Gross Beta	3.15E-14	1.43E-14	1.84E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207373	DESTREHAN ST.	11/07/18	Gross Alpha/Beta	Gross Alpha	6.37E-15	6.90E-15	9.61E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207373	DESTREHAN ST.	11/07/18	Gross Alpha/Beta	Gross Beta	4.00E-14	1.42E-14	1.65E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207374	DESTREHAN ST.	11/08/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	6.52E-15	1.02E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207374	DESTREHAN ST.	11/08/18	Gross Alpha/Beta	Gross Beta	2.12E-14	1.25E-14	1.75E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207375	DESTREHAN ST.	11/13/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	6.52E-15	1.02E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207375	DESTREHAN ST.	11/13/18	Gross Alpha/Beta	Gross Beta	2.49E-14	1.30E-14	1.75E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207376	DESTREHAN ST.	11/19/18	Gross Alpha/Beta	Gross Alpha	-3.94E-15	2.41E-15	1.10E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207376	DESTREHAN ST.	11/19/18	Gross Alpha/Beta	Gross Beta	2.29E-14	1.35E-14	1.88E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207377	DESTREHAN ST.	11/20/18	Gross Alpha/Beta	Gross Alpha	9.48E-15	8.38E-15	1.07E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD207377	DESTREHAN ST.	11/20/18	Gross Alpha/Beta	Gross Beta	3.74E-14	1.49E-14	1.83E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207378	DESTREHAN ST.	11/21/18	Gross Alpha/Beta	Gross Alpha	1.61E-14	9.94E-15	1.03E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD207378	DESTREHAN ST.	11/21/18	Gross Alpha/Beta	Gross Beta	5.66E-14	1.66E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207379	DESTREHAN ST.	11/26/18	Gross Alpha/Beta	Gross Alpha	2.41E-15	6.41E-15	1.16E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207379	DESTREHAN ST.	11/26/18	Gross Alpha/Beta	Gross Beta	3.49E-14	1.55E-14	1.99E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207380	DESTREHAN ST.	11/27/18	Gross Alpha/Beta	Gross Alpha	3.45E-15	6.40E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207380	DESTREHAN ST.	11/27/18	Gross Alpha/Beta	Gross Beta	4.45E-14	1.58E-14	1.84E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207381	DESTREHAN ST.	11/29/18	Gross Alpha/Beta	Gross Alpha	5.37E-15	6.65E-15	9.78E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207381	DESTREHAN ST.	11/29/18	Gross Alpha/Beta	Gross Beta	3.30E-14	1.35E-14	1.68E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207382	DESTREHAN ST.	11/28/18	Gross Alpha/Beta	Gross Alpha	9.63E-16	5.13E-15	1.02E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207382	DESTREHAN ST.	11/28/18	Gross Alpha/Beta	Gross Beta	3.36E-14	1.40E-14	1.75E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD207383	DESTREHAN ST.	12/03/18	Gross Alpha/Beta	Gross Alpha	3.41E-15	6.34E-15	1.06E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD207383	DESTREHAN ST.	12/03/18	Gross Alpha/Beta	Gross Beta	7.70E-15	1.12E-14	1.82E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD208897	DESTREHAN ST.	12/12/18	Gross Alpha/Beta	Gross Alpha	1.33E-15	5.67E-15	1.07E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD208897	DESTREHAN ST.	12/12/18	Gross Alpha/Beta	Gross Beta	5.59E-14	1.70E-14	1.70E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD208897-1	DESTREHAN ST.	12/12/18	Gross Alpha/Beta	Gross Alpha	1.72E-14	1.03E-14	1.07E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD208897-1	DESTREHAN ST.	12/12/18	Gross Alpha/Beta	Gross Beta	6.59E-14	1.80E-14	1.70E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD208898	DESTREHAN ST.	12/13/18	Gross Alpha/Beta	Gross Alpha	2.37E-15	5.87E-15	1.03E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD208898	DESTREHAN ST.	12/13/18	Gross Alpha/Beta	Gross Beta	1.80E-14	1.25E-14	1.63E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD208899	DESTREHAN ST.	12/20/18	Gross Alpha/Beta	Gross Alpha	1.37E-15	5.85E-15	1.10E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD208899	DESTREHAN ST.	12/20/18	Gross Alpha/Beta	Gross Beta	6.51E-14	1.83E-14	1.75E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD208900	DESTREHAN ST.	12/24/18	Gross Alpha/Beta	Gross Alpha	2.31E-15	9.89E-15	1.87E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD208900	DESTREHAN ST.	12/24/18	Gross Alpha/Beta	Gross Beta	2.776E-14	2.22E-14	2.96E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD208901	DESTREHAN ST.	12/26/18	Gross Alpha/Beta	Gross Alpha	1.34E-15	5.72E-15	1.08E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD208901	DESTREHAN ST.	12/26/18	Gross Alpha/Beta	Gross Beta	3.26E-14	1.47E-14	1.71E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD208902	DESTREHAN ST.	12/27/18	Gross Alpha/Beta	Gross Alpha	2.01E-16	5.51E-15	1.13E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD208902	DESTREHAN ST.	12/27/18	Gross Alpha/Beta	Gross Beta	1.69E-14	1.35E-14	1.80E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD208904	GUNTHER SALT	12/17/18	Gross Alpha/Beta	Gross Alpha	-1.43E-15	7.06E-15	1.62E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD208904	GUNTHER SALT	12/17/18	Gross Alpha/Beta	Gross Beta	3.16E-14	2.01E-14	2.57E-14	µCi/mL	J	T04, T20	Gunther Salt North (General Area)-Perimeter Air
SLD208905	GUNTHER SALT	12/18/18	Gross Alpha/Beta	Gross Alpha	1.00E-14	1.09E-14	1.53E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD208905	GUNTHER SALT	12/18/18	Gross Alpha/Beta	Gross Beta	1.56E-14	1.73E-14	2.42E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD208906	GUNTHER SALT	12/19/18	Gross Alpha/Beta	Gross Alpha	4.06E-15	1.74E-14	3.28E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD208906	GUNTHER SALT	12/19/18	Gross Alpha/Beta	Gross Beta	3.56E-14	3.74E-14	5.20E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207403	GUNTHER SALT NORTH	11/28/18	Gross Alpha/Beta	Gross Alpha	-1.05E-16	5.96E-15	1.21E-14	µCi/mL			Gunther Salt North (General Area)-Perimeter Air
SLD207403	GUNTHER SALT NORTH	11/28/18	Gross Alpha/Beta	Gross Beta	2.64E-14	1.85E-14	2.58E-14	µCi/mL			Gunther Salt North (General Area)-Perimeter Air
SLD207403-1	GUNTHER SALT NORTH	11/28/18	Gross Alpha/Beta	Gross Alpha	-2.63E-15	4.78E-15	1.21E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207403-1	GUNTHER SALT NORTH	11/28/18	Gross Alpha/Beta	Gross Beta	1.27E-14	1.72E-14	2.58E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207404	GUNTHER SALT NORTH	11/29/18	Gross Alpha/Beta	Gross Alpha	5.53E-15	8.75E-15	1.36E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207404	GUNTHER SALT NORTH	11/29/18	Gross Alpha/Beta	Gross Beta	5.13E-14	2.27E-14	2.88E-14	µCi/mL	=		Gunther Salt North (General Area)-Perimeter Air
SLD207405	GUNTHER SALT NORTH	12/03/18	Gross Alpha/Beta	Gross Alpha	-2.72E-15	4.94E-15	1.26E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207405	GUNTHER SALT NORTH	12/03/18	Gross Alpha/Beta	Gross Beta	8.08E-15	1.73E-14	2.66E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207406	GUNTHER SALT NORTH	12/04/18	Gross Alpha/Beta	Gross Alpha	-1.68E-15	6.63E-15	1.49E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207406	GUNTHER SALT NORTH	12/04/18	Gross Alpha/Beta	Gross Beta	1.36E-14	2.09E-14	3.16E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207407	GUNTHER SALT NORTH	12/05/18	Gross Alpha/Beta	Gross Alpha	-4.75E-15	4.96E-15	1.48E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207407	GUNTHER SALT NORTH	12/05/18	Gross Alpha/Beta	Gross Beta	3.32E-14	2.27E-14	3.14E-14	µCi/mL	J	T04, T20	Gunther Salt North (General Area)-Perimeter Air
SLD207408	GUNTHER SALT NORTH	12/06/18	Gross Alpha/Beta	Gross Alpha	3.84E-15	1.10E-14	1.93E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207408	GUNTHER SALT NORTH	12/06/18	Gross Alpha/Beta	Gross Beta	2.01E-14	2.73E-14	4.09E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207409	GUNTHER SALT NORTH	12/10/18	Gross Alpha/Beta	Gross Alpha	1.10E-15	6.13E-15	1.15E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207409	GUNTHER SALT NORTH	12/10/18	Gross Alpha/Beta	Gross Beta	4.19E-14	1.91E-14	2.44E-14	µCi/mL	=		Gunther Salt North (General Area)-Perimeter Air
SLD207410	GUNTHER SALT NORTH	12/11/18	Gross Alpha/Beta	Gross Alpha	-3.30E-15	6.00E-15	1.53E-14	µCi/mL	UJ	T06	Gunther Salt North (General Area)-Perimeter Air
SLD207410	GUNTHER SALT NORTH	12/11/18	Gross Alpha/Beta	Gross Beta	3.32E-14	2.32E-14	3.23E-14	µCi/mL	J	T04, T20	Gunther Salt North (General Area)-Perimeter Air
SLD203977	HEINTZ STEEL & MFG	08/22/18	Gross Alpha/Beta	Gross Alpha	7.89E-15	9.50E-15	1.47E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD203977	HEINTZ STEEL & MFG	08/22/18	Gross Alpha/Beta	Gross Beta	3.25E-14	1.74E-14	2.43E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD203977-1	HEINTZ STEEL & MFG	08/22/18	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.05E-14	1.47E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD203977-1	HEINTZ STEEL & MFG	08/22/18	Gross Alpha/Beta	Gross Beta	2.66E-14	1.66E-14	2.43E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD203978	HEINTZ STEEL & MFG	08/23/18	Gross Alpha/Beta	Gross Alpha	2.29E-15	5.52E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD203978	HEINTZ STEEL & MFG	08/23/18	Gross Alpha/Beta	Gross Beta	1.67E-14	1.15E-14	1.71E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD203979	HEINTZ STEEL & MFG	08/27/18	Gross Alpha/Beta	Gross Alpha	9.26E-15	7.47E-15	9.66E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD203979	HEINTZ STEEL & MFG	08/27/18	Gross Alpha/Beta	Gross Beta	3.67E-14	1.32E-14	1.59E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD203980	HEINTZ STEEL & MFG	08/28/18	Gross Alpha/Beta	Gross Alpha	6.97E-15	6.64E-15	9.33E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD203980	HEINTZ STEEL & MFG	08/28/18	Gross Alpha/Beta	Gross Beta	9.44E-15	9.58E-15	1.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199074	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Alpha	2.23E-15	6.01E-15	1.07E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199074	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Beta	4.79E-14	1.79E-14	1.94E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199074-1	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Alpha	1.20E-14	9.18E-15	1.07E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199074-1	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Beta	4.24E-14	1.74E-14	1.94E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199075	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Alpha	2.02E-14	1.31E-14	1.38E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199075	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Beta	5.37E-14	2.23E-14	2.50E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199076	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Alpha	4.46E-15	6.62E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199076	P6WH LOADOUT	01/02/18	Gross Alpha/Beta	Gross Beta	2.85E-14	1.53E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199077	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Alpha	1.01E-15	5.46E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199077	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Beta	6.08E-14	1.91E-14	1.93E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD199078	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Alpha	6.78E-15	7.40E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199078	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Beta	4.49E-14	1.70E-14	1.85E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199079	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Alpha	2.14E-15	5.76E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199079	P6WH LOADOUT	01/03/18	Gross Alpha/Beta	Gross Beta	-1.10E-14	1.07E-14	1.86E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199080	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Alpha	5.73E-15	1.08E-14	1.78E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199080	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Beta	1.53E-13	3.67E-14	3.21E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199081	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Alpha	5.47E-15	6.83E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199081	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Beta	1.04E-14	1.30E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199082	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Alpha	8.99E-15	8.00E-15	1.01E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199082	P6WH LOADOUT	01/04/18	Gross Alpha/Beta	Gross Beta	5.68E-14	1.80E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199083	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Alpha	2.18E-15	5.87E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199083	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Beta	4.44E-14	1.73E-14	1.89E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199084	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.34E-15	9.74E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199084	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Beta	5.91E-14	1.78E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199085	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Alpha	1.52E-14	9.39E-15	9.66E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199085	P6WH LOADOUT	01/08/18	Gross Alpha/Beta	Gross Beta	6.21E-14	1.80E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199086	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Alpha	1.31E-14	9.42E-15	1.06E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199086	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Beta	3.97E-14	1.70E-14	1.92E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199087	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Alpha	1.44E-14	9.32E-15	9.87E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199087	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Beta	4.62E-14	1.67E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199088	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.89E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199088	P6WH LOADOUT	01/09/18	Gross Alpha/Beta	Gross Beta	4.49E-14	1.64E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199089	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Alpha	-1.31E-15	3.94E-15	9.87E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199089	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Beta	5.99E-15	1.24E-14	1.78E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199090	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Alpha	3.21E-15	6.03E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199090	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Beta	8.21E-15	1.28E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199091	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Alpha	2.08E-15	5.58E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199091	P6WH LOADOUT	01/10/18	Gross Alpha/Beta	Gross Beta	7.49E-15	1.27E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200106	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Alpha	-2.48E-15	3.75E-15	1.15E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200106	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Beta	1.07E-14	1.35E-14	1.86E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200106-1	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Alpha	1.09E-15	5.57E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200106-1	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Beta	1.61E-14	1.41E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200107	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Alpha	4.36E-15	6.48E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200107	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Beta	2.91E-15	1.18E-14	1.73E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200108	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Alpha	-9.40E-17	4.77E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200108	P6WH LOADOUT	01/11/18	Gross Alpha/Beta	Gross Beta	1.50E-15	1.18E-14	1.76E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200109	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Alpha	3.57E-15	6.70E-15	1.18E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200109	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Beta	4.55E-14	1.76E-14	1.91E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200110	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Alpha	2.21E-15	5.87E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200110	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Beta	5.10E-14	1.74E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200111	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Alpha	1.06E-15	5.42E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200111	P6WH LOADOUT	01/16/18	Gross Alpha/Beta	Gross Beta	4.45E-14	1.68E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200112	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Alpha	3.61E-15	6.76E-15	1.19E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200112	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Beta	5.15E-14	1.84E-14	1.93E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200113	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Alpha	-2.40E-15	3.63E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200113	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Beta	3.03E-14	1.53E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200114	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Alpha	5.59E-15	7.01E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200114	P6WH LOADOUT	01/17/18	Gross Alpha/Beta	Gross Beta	3.43E-14	1.56E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200115	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Alpha	2.39E-15	6.35E-15	1.20E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200115	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Beta	6.00E-14	1.93E-14	1.95E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200116	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Alpha	7.97E-15	7.83E-15	1.11E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200116	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Beta	3.55E-14	1.59E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200117	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Alpha	4.45E-15	6.63E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200117	P6WH LOADOUT	01/18/18	Gross Alpha/Beta	Gross Beta	4.52E-14	1.67E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200118	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Alpha	1.08E-15	5.49E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200118	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Beta	1.43E-14	1.38E-14	1.83E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200119	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Alpha	6.55E-15	7.18E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200119	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Beta	2.27E-14	1.40E-14	1.73E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200120	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Alpha	-9.20E-17	4.68E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200120	P6WH LOADOUT	01/22/18	Gross Alpha/Beta	Gross Beta	3.20E-14	1.50E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200121	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Alpha	1.09E-15	5.54E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200121	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Beta	2.28E-14	1.48E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200122	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Alpha	4.47E-15	6.66E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200122	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Beta	2.57E-14	1.47E-14	1.78E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200123	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Alpha	-1.23E-15	4.22E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200123	P6WH LOADOUT	01/23/18	Gross Alpha/Beta	Gross Beta	1.09E-14	1.30E-14	1.76E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200144	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Alpha	9.38E-15	8.76E-15	1.14E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200144	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Beta	2.05E-14	1.36E-14	1.87E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200144-1	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Alpha	1.09E-15	6.08E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200144-1	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Beta	3.80E-14	1.55E-14	1.87E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200145	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Alpha	1.00E-14	8.60E-15	1.08E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200145	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Beta	2.95E-14	1.40E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200146	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Alpha	2.22E-15	6.38E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200146	P6WH LOADOUT	01/24/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.41E-14	1.82E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200147	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Alpha	1.01E-14	8.71E-15	1.09E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200147	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Beta	3.57E-14	1.48E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200148	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Alpha	-1.22E-15	4.80E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200148	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Beta	2.22E-15	1.07E-14	1.77E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200149	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Alpha	5.44E-15	7.21E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200149	P6WH LOADOUT	01/25/18	Gross Alpha/Beta	Gross Beta	1.50E-14	1.22E-14	1.75E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200150	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Alpha	2.15E-14	1.10E-14	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200150	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Beta	5.19E-14	1.60E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200151	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Alpha	1.01E-14	8.71E-15	1.09E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200151	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Beta	4.66E-14	1.60E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200152	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.74E-15	1.06E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200152	P6WH LOADOUT	01/29/18	Gross Alpha/Beta	Gross Beta	4.66E-14	1.57E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200153	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.83E-15	1.11E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200153	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Beta	4.14E-14	1.56E-14	1.82E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200153-1	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Alpha	1.26E-14	9.43E-15	1.11E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200153-1	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Beta	3.11E-14	1.45E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200154	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Alpha	4.47E-15	7.08E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200154	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Beta	2.13E-14	1.32E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200155	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Alpha	-3.60E-15	3.76E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200155	P6WH LOADOUT	01/30/18	Gross Alpha/Beta	Gross Beta	4.57E-14	1.62E-14	1.84E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200156	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Alpha	6.70E-15	7.72E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200156	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Beta	3.12E-14	1.43E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200157	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Alpha	5.62E-15	7.44E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200157	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Beta	1.47E-14	1.24E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200158	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	7.01E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200158	P6WH LOADOUT	01/31/18	Gross Alpha/Beta	Gross Beta	3.27E-14	1.45E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200159	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Alpha	-9.30E-17	5.28E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200159	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Beta	3.37E-14	1.44E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200160	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Alpha	2.14E-15	6.15E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200160	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Beta	3.15E-14	1.42E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200161	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Alpha	8.96E-15	8.37E-15	1.09E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200161	P6WH LOADOUT	02/01/18	Gross Alpha/Beta	Gross Beta	4.14E-14	1.54E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200162	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Alpha	-6.49E-16	4.19E-15	1.02E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200162	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Beta	2.43E-14	1.24E-14	1.73E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200162-1	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Alpha	4.91E-15	6.51E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200162-1	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Beta	2.58E-14	1.26E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200163	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Alpha	5.21E-15	6.90E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200163	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Beta	9.18E-15	1.10E-14	1.84E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200164	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.43E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200164	P6WH LOADOUT	02/05/18	Gross Alpha/Beta	Gross Beta	3.67E-14	1.38E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200165	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Alpha	4.93E-15	6.54E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200165	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.22E-14	1.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200166	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Alpha	9.57E-15	8.08E-15	1.05E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200166	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Beta	3.51E-14	1.39E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200167	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Alpha	9.12E-15	7.70E-15	9.96E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200167	P6WH LOADOUT	02/06/18	Gross Alpha/Beta	Gross Beta	3.83E-14	1.38E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200168	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Alpha	8.664E-15	7.961E-15	1.073E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200168	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Beta	4.276E-14	1.508E-14	1.819E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200169	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Alpha	4.999E-15	6.627E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200169	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Beta	4.432E-14	1.494E-14	1.762E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200170	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Alpha	8.785E-15	8.073E-15	1.088E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200170	P6WH LOADOUT	02/07/18	Gross Alpha/Beta	Gross Beta	4.259E-14	1.521E-14	1.844E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200171	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Alpha	9.97E-15	8.419E-15	1.088E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200171	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Beta	6.155E-14	1.727E-14	1.844E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD200171-1	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Alpha	4.047E-15	6.514E-15	1.088E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200171-1	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Beta	5.169E-14	1.622E-14	1.844E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200172	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Alpha	1.801E-14	1.04E-14	1.073E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200172	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Beta	4.649E-14	1.55E-14	1.819E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200173	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Alpha	7.328E-15	7.435E-15	1.049E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200173	P6WH LOADOUT	02/08/18	Gross Alpha/Beta	Gross Beta	6.154E-14	1.688E-14	1.778E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200174	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Alpha	2.748E-15	5.821E-15	1.045E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200174	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Beta	5.762E-14	1.643E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200175	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Alpha	4.933E-15	6.54E-15	1.026E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200175	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Beta	3.444E-14	1.368E-14	1.739E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200176	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.75E-15	1.049E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200176	P6WH LOADOUT	02/12/18	Gross Alpha/Beta	Gross Beta	5.349E-14	1.603E-14	1.778E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200177	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Alpha	8.21E-15	7.55E-15	1.02E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200177	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Beta	4.48E-14	1.48E-14	1.72E-14	µCi/mL	UJ	(blank)	SLDS (General Area)-Perimeter Air
SLD200178	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Alpha	4.72E-16	4.83E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200178	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.38E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200179	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Alpha	1.04E-14	8.18E-15	1.02E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200179	P6WH LOADOUT	02/13/18	Gross Alpha/Beta	Gross Beta	4.41E-14	1.47E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200180	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	7.01E-15	1.09E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200180	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Beta	1.17E-14	1.20E-14	1.78E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200180-1	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Alpha	-9.40E-17	5.35E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200180-1	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Beta	2.25E-14	1.33E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200181	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Alpha	8.88E-15	8.29E-15	1.08E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200181	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.32E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200182	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Alpha	8.80E-15	8.22E-15	1.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200182	P6WH LOADOUT	02/14/18	Gross Alpha/Beta	Gross Beta	3.28E-14	1.43E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200183	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Alpha	1.04E-15	5.81E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200183	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Beta	6.58E-15	1.13E-14	1.78E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200184	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Alpha	2.15E-15	6.18E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200184	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.23E-14	1.77E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200185	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Alpha	7.83E-15	8.05E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200185	P6WH LOADOUT	02/15/18	Gross Alpha/Beta	Gross Beta	1.75E-14	1.27E-14	1.78E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200186	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Alpha	-1.24E-15	4.89E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200186	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Beta	3.72E-15	1.10E-14	1.80E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200187	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Alpha	4.43E-15	7.01E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200187	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Beta	7.31E-15	1.14E-14	1.78E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200188	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Alpha	1.03E-15	5.76E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200188	P6WH LOADOUT	02/20/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.23E-14	1.77E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200189	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Alpha	-3.55E-15	3.71E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200189	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Beta	1.33E-14	1.24E-14	1.82E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200190	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Alpha	-1.27E-15	5.00E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200190	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Beta	9.04E-15	1.20E-14	1.84E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200191	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Alpha	-1.83E-15	3.68E-15	1.06E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200191	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Beta	1.12E-14	1.10E-14	1.79E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200191-1	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Alpha	-2.98E-15	2.87E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200191-1	P6WH LOADOUT	02/22/18	Gross Alpha/Beta	Gross Beta	8.61E-16	9.53E-15	1.79E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200192	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Alpha	3.83E-15	6.17E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200192	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Beta	3.82E-14	1.42E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200193	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Alpha	7.20E-15	7.30E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200193	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Beta	4.90E-14	1.54E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200194	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Alpha	8.32E-15	7.65E-15	1.03E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200194	P6WH LOADOUT	02/26/18	Gross Alpha/Beta	Gross Beta	3.96E-14	1.43E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200195	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Alpha	3.83E-15	6.17E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200195	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Beta	3.46E-14	1.37E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200196	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Alpha	1.56E-15	5.17E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200196	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Beta	4.09E-14	1.43E-14	1.71E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200197	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Alpha	4.81E-15	6.37E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200197	P6WH LOADOUT	02/27/18	Gross Alpha/Beta	Gross Beta	4.33E-14	1.44E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200201	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.90E-15	1.07E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200201	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Beta	5.00E-14	1.97E-14	2.57E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200201-1	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Alpha	6.52E-15	7.73E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200201-1	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Beta	3.39E-14	1.81E-14	2.57E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200202	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Alpha	1.44E-15	5.71E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200202	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Beta	3.15E-14	1.75E-14	2.52E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200203	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Alpha	5.21E-15	7.24E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200203	P6WH LOADOUT	02/21/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.61E-14	2.55E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200204	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Alpha	2.73E-15	6.37E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200204	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Beta	2.33E-14	1.70E-14	2.57E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200205	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Alpha	1.27E-14	9.47E-15	1.05E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200205	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.73E-14	2.54E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200206	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Alpha	2.05E-16	5.13E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200206	P6WH LOADOUT	02/28/18	Gross Alpha/Beta	Gross Beta	1.56E-14	1.58E-14	2.50E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200207	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Alpha	3.94E-15	6.76E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200207	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.79E-14	2.54E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200208	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Alpha	-2.27E-15	3.82E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200208	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Beta	1.97E-14	1.64E-14	2.53E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200209	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Alpha	2.00E-14	1.13E-14	1.05E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200209	P6WH LOADOUT	03/01/18	Gross Alpha/Beta	Gross Beta	5.15E-14	1.95E-14	2.53E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200210	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Alpha	5.71E-15	7.48E-15	1.09E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200210	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Beta	3.14E-14	1.44E-14	1.80E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200210-1	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Alpha	5.71E-15	7.48E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200210-1	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Beta	3.58E-14	1.49E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200211	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Alpha	2.27E-15	6.31E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200211	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Beta	1.31E-14	1.22E-14	1.79E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200212	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Alpha	1.10E-15	5.71E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200212	P6WH LOADOUT	03/05/18	Gross Alpha/Beta	Gross Beta	2.89E-14	1.37E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200213	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Alpha	0.00E+00	5.48E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200213	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Beta	1.84E-14	1.29E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200214	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Alpha	-1.14E-15	4.95E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200214	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Beta	2.34E-14	1.35E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200215	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Alpha	4.59E-15	7.15E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200215	P6WH LOADOUT	03/06/18	Gross Alpha/Beta	Gross Beta	1.47E-14	1.25E-14	1.81E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200216	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Alpha	2.27E-15	6.31E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200216	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Beta	1.82E-14	1.28E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200217	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Alpha	0.00E+00	5.34E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200217	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Beta	1.29E-14	1.20E-14	1.76E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200218	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Alpha	-2.24E-15	4.32E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200218	P6WH LOADOUT	03/07/18	Gross Alpha/Beta	Gross Beta	2.01E-14	1.29E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200219	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.43E-15	1.03E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200219	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Beta	3.25E-14	1.74E-14	2.47E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200219-1	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Alpha	3.83E-15	6.58E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200219-1	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Beta	2.86E-14	1.70E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200220	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Alpha	1.29E-14	1.12E-14	1.34E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200220	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Beta	4.25E-14	2.27E-14	3.23E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200221	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Alpha	7.47E-15	7.82E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200221	P6WH LOADOUT	03/08/18	Gross Alpha/Beta	Gross Beta	3.95E-14	1.81E-14	2.47E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200222	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Alpha	1.24E-14	9.26E-15	1.03E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200222	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.76E-14	2.48E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200223	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Alpha	6.17E-15	7.33E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200223	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Beta	3.05E-14	1.70E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200224	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.43E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200224	P6WH LOADOUT	03/12/18	Gross Alpha/Beta	Gross Beta	1.70E-14	1.58E-14	2.47E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200225	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Alpha	1.34E-14	9.46E-15	1.02E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200225	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Beta	1.99E-14	1.60E-14	2.45E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200226	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Alpha	6.17E-15	7.33E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200226	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Beta	2.67E-14	1.66E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200227	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Alpha	6.20E-15	7.36E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200227	P6WH LOADOUT	03/13/18	Gross Alpha/Beta	Gross Beta	3.38E-14	1.74E-14	2.45E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200228	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Alpha	-3.40E-15	3.73E-15	1.08E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200228	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Beta	2.25E-14	1.33E-14	1.79E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200228-1	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Alpha	2.26E-15	6.29E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200228-1	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Beta	2.61E-14	1.37E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200229	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Alpha	3.43E-15	6.74E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200229	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Beta	3.66E-14	1.50E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200230	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Alpha	4.53E-15	7.06E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200230	P6WH LOADOUT	03/14/18	Gross Alpha/Beta	Gross Beta	2.39E-14	1.35E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200231	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Alpha	1.09E-14	9.29E-15	1.15E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200231	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Beta	3.71E-14	1.57E-14	1.90E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200232	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Alpha	5.71E-15	7.48E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200232	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Beta	2.93E-14	1.42E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200233	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Alpha	0.00E+00	5.43E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200233	P6WH LOADOUT	03/15/18	Gross Alpha/Beta	Gross Beta	-1.46E-15	1.03E-14	1.79E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200234	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Alpha	0.00E+00	5.13E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200234	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Beta	1.72E-14	1.21E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200235	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Alpha	5.49E-15	7.19E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200235	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Beta	2.60E-14	1.34E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200236	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Alpha	3.24E-15	6.37E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200236	P6WH LOADOUT	03/19/18	Gross Alpha/Beta	Gross Beta	2.49E-14	1.31E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200257	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Alpha	-1.91E-16	4.19E-15	1.01E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200257	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.35E-14	1.85E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200257-1	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Alpha	3.25E-15	5.78E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200257-1	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Beta	1.56E-14	1.29E-14	1.85E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200258	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Alpha	4.38E-15	6.19E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200258	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Beta	2.21E-14	1.37E-14	1.84E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200259	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Alpha	2.08E-15	5.23E-15	9.96E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200259	P6WH LOADOUT	03/20/18	Gross Alpha/Beta	Gross Beta	2.98E-14	1.44E-14	1.82E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200260	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Alpha	-1.95E-16	4.27E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200260	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.31E-14	1.88E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200261	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Alpha	7.34E-15	6.93E-15	9.46E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200261	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Beta	2.28E-14	1.31E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200262	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Alpha	5.52E-15	6.60E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200262	P6WH LOADOUT	03/21/18	Gross Alpha/Beta	Gross Beta	1.40E-14	1.27E-14	1.84E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200263	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.58E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200263	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Beta	2.64E-14	1.38E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200264	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Alpha	6.49E-15	6.81E-15	9.79E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200264	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Beta	1.86E-14	1.30E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200265	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Alpha	4.25E-15	6.00E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200265	P6WH LOADOUT	03/22/18	Gross Alpha/Beta	Gross Beta	2.35E-14	1.35E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200266	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Alpha	4.14E-15	5.85E-15	9.50E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200266	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Beta	1.12E-14	1.18E-14	1.74E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200267	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Alpha	-2.86E-15	3.05E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200267	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Beta	1.11E-14	1.41E-14	2.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200268	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Alpha	2.29E-15	5.77E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200268	P6WH LOADOUT	03/26/18	Gross Alpha/Beta	Gross Beta	1.37E-14	1.37E-14	2.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200269	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Alpha	-1.32E-15	3.46E-15	9.96E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200269	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Beta	2.69E-14	1.41E-14	1.82E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200270	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Alpha	2.05E-15	5.16E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200270	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Beta	2.09E-14	1.33E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200271	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Alpha	3.18E-15	5.65E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200271	P6WH LOADOUT	03/28/18	Gross Alpha/Beta	Gross Beta	1.95E-14	1.32E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200272	P6WH LOADOUT	03/29/18	Gross Alpha/Beta	Gross Alpha	-2.08E-16	4.56E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200272	P6WH LOADOUT	03/29/18	Gross Alpha/Beta	Gross Beta	8.93E-15	1.31E-14	2.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200273	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Alpha	4.42E-15	6.25E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200273	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Beta	3.48E-14	1.52E-14	1.85E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200274	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Alpha	2.09E-15	5.28E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200274	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Beta	2.79E-14	1.43E-14	1.84E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201383	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Alpha	7.39E-15	7.43E-15	1.04E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201383	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Beta	2.27E-14	1.28E-14	1.83E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201383-1	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Alpha	1.71E-15	5.40E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201383-1	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.35E-14	1.83E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201384	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Alpha	3.91E-15	6.18E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201384	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Beta	2.09E-14	1.24E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201385	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Alpha	6.25E-15	7.07E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201385	P6WH LOADOUT	04/12/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.35E-14	1.83E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201386	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Alpha	5.12E-15	6.69E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201386	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Beta	2.34E-14	1.29E-14	1.83E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201387	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Alpha	2.77E-15	5.71E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201387	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Beta	6.50E-15	1.05E-14	1.78E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201388	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Alpha	-5.66E-16	4.31E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201388	P6WH LOADOUT	04/16/18	Gross Alpha/Beta	Gross Beta	6.64E-15	1.07E-14	1.82E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201389	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Alpha	8.90E-16	7.66E-15	1.62E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201389	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Beta	-1.01E-14	1.38E-14	2.86E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201390	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Alpha	1.65E-15	5.21E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201390	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Beta	1.70E-14	1.18E-14	1.77E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201391	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Alpha	5.12E-15	6.69E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201391	P6WH LOADOUT	04/17/18	Gross Alpha/Beta	Gross Beta	2.41E-14	1.30E-14	1.83E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201392	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Alpha	8.41E-15	7.67E-15	1.02E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201392	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Beta	2.45E-14	1.29E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201393	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Alpha	2.78E-15	5.73E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201393	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Beta	3.29E-14	1.38E-14	1.79E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201394	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Alpha	7.20E-15	7.24E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201394	P6WH LOADOUT	04/18/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.22E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201395	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Alpha	1.68E-15	5.33E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201395	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Beta	1.88E-14	1.22E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201396	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Alpha	-3.08E-15	1.92E-15	3.95E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201396	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Beta	-2.36E-14	3.31E-15	8.02E-15	µCi/mL	UJ	T06, T07	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201397	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Alpha	6.17E-15	6.98E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201397	P6WH LOADOUT	04/19/18	Gross Alpha/Beta	Gross Beta	2.02E-14	1.24E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201398	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Alpha	-1.66E-15	3.59E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201398	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Beta	2.49E-14	1.28E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201399	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Alpha	3.84E-15	6.07E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201399	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Beta	1.28E-14	1.12E-14	1.77E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201400	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Alpha	2.78E-15	5.73E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201400	P6WH LOADOUT	04/23/18	Gross Alpha/Beta	Gross Beta	3.00E-14	1.35E-14	1.79E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201401	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Alpha	2.86E-15	5.88E-15	1.04E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201401	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Beta	1.77E-14	1.23E-14	1.84E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201401-1	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Alpha	1.71E-15	5.42E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201401-1	P6WH LOADOUT	04/02/18	Gross Alpha/Beta	Gross Beta	1.55E-14	1.20E-14	1.84E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201402	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Alpha	5.84E-16	5.03E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201402	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Beta	5.36E-15	1.09E-14	1.88E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201403	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Alpha	1.82E-15	5.76E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201403	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Beta	9.45E-15	1.18E-14	1.95E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201404	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Alpha	5.19E-15	6.78E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201404	P6WH LOADOUT	04/03/18	Gross Alpha/Beta	Gross Beta	2.59E-14	1.34E-14	1.85E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201405	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Alpha	-5.68E-16	4.33E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201405	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Beta	1.98E-14	1.25E-14	1.83E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201406	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Alpha	1.67E-15	5.28E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201406	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Beta	2.36E-14	1.27E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201407	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Alpha	5.07E-15	6.63E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201407	P6WH LOADOUT	04/04/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.33E-14	1.81E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201408	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Alpha	6.28E-15	7.10E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201408	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Beta	3.52E-14	1.44E-14	1.84E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201409	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Alpha	4.98E-15	6.51E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201409	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Beta	2.49E-14	1.28E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201410	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Alpha	7.36E-15	7.40E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201410	P6WH LOADOUT	04/05/18	Gross Alpha/Beta	Gross Beta	1.90E-14	1.23E-14	1.82E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201411	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.62E-15	1.02E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201411	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Beta	3.75E-14	1.44E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201412	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Alpha	2.74E-15	5.66E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201412	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.31E-14	1.77E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201413	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Alpha	5.00E-15	6.54E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201413	P6WH LOADOUT	04/09/18	Gross Alpha/Beta	Gross Beta	1.65E-14	1.19E-14	1.79E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201414	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Alpha	5.19E-15	6.78E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201414	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Beta	3.26E-14	1.42E-14	1.85E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201415	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Alpha	2.71E-15	2.72E-15	3.79E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201415	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Beta	1.52E-14	5.50E-15	6.69E-15	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201416	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Alpha	6.31E-15	7.13E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201416	P6WH LOADOUT	04/10/18	Gross Alpha/Beta	Gross Beta	1.63E-14	1.21E-14	1.85E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201417	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Alpha	3.88E-15	6.12E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201417	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Beta	3.20E-14	1.37E-14	1.78E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201418	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Alpha	-5.71E-16	4.35E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201418	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Beta	9.63E-15	1.12E-14	1.84E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201419	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Alpha	9.37E-15	7.86E-15	1.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201419	P6WH LOADOUT	04/11/18	Gross Alpha/Beta	Gross Beta	2.84E-14	1.32E-14	1.77E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201453	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Alpha	4.56E-15	6.15E-15	9.56E-15	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201453	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Beta	2.32E-14	1.64E-14	1.75E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201453-1	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.26E-15	9.56E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201453-1	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Beta	2.10E-14	1.62E-14	1.75E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201454	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Alpha	9.30E-17	4.21E-15	9.56E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201454	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Beta	2.18E-14	1.62E-14	1.75E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201455	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Alpha	3.46E-15	5.75E-15	9.60E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201455	P6WH LOADOUT	04/24/18	Gross Alpha/Beta	Gross Beta	1.25E-14	1.54E-14	1.76E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201456	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Alpha	3.57E-15	5.93E-15	9.90E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201456	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Beta	3.81E-14	1.83E-14	1.82E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201457	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Alpha	2.31E-15	5.22E-15	9.47E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201457	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Beta	2.79E-14	1.67E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201458	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.17E-15	9.60E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201458	P6WH LOADOUT	04/25/18	Gross Alpha/Beta	Gross Beta	1.68E-14	1.58E-14	1.76E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201459	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.46E-15	9.90E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201459	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Beta	5.50E-15	1.52E-14	1.82E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201460	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Alpha	4.62E-15	6.23E-15	9.68E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201460	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Beta	2.35E-14	1.66E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201461	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.29E-15	9.60E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201461	P6WH LOADOUT	04/26/18	Gross Alpha/Beta	Gross Beta	1.40E-14	1.56E-14	1.76E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201462	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.24E-15	9.51E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201462	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Beta	2.52E-14	1.65E-14	1.75E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201463	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Alpha	5.58E-15	6.43E-15	9.39E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201463	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Beta	4.18E-14	1.78E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201464	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Alpha	3.41E-15	5.67E-15	9.47E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201464	P6WH LOADOUT	04/30/18	Gross Alpha/Beta	Gross Beta	2.79E-14	1.67E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201465	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Alpha	1.39E-14	9.14E-15	9.86E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201465	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Beta	3.35E-14	1.78E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201466	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.22E-15	9.51E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201466	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Beta	2.88E-14	1.68E-14	1.75E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201467	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Alpha	2.47E-15	5.58E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201467	P6WH LOADOUT	05/01/18	Gross Alpha/Beta	Gross Beta	1.62E-14	1.66E-14	1.86E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201468	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Alpha	9.60E-17	4.34E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201468	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Beta	2.98E-14	1.74E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201469	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Alpha	8.95E-15	7.55E-15	9.47E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201469	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Beta	3.08E-14	1.70E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201470	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Alpha	2.40E-15	5.43E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201470	P6WH LOADOUT	05/02/18	Gross Alpha/Beta	Gross Beta	2.91E-14	1.74E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201471	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Alpha	-9.87E-16	4.51E-15	1.12E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201471	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Beta	1.25E-14	1.44E-14	1.82E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201471-1	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Alpha	1.97E-16	5.10E-15	1.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201471-1	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.52E-14	1.82E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201472	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.94E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201472	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Beta	1.73E-14	1.46E-14	1.77E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201473	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Alpha	4.94E-15	6.97E-15	1.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201473	P6WH LOADOUT	05/03/18	Gross Alpha/Beta	Gross Beta	9.42E-15	1.41E-14	1.82E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201474	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Alpha	-2.14E-15	3.79E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201474	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Beta	1.45E-14	1.45E-14	1.79E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201475	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Alpha	-2.11E-15	3.74E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201475	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Beta	2.02E-14	1.49E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201476	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.37E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201476	P6WH LOADOUT	05/07/18	Gross Alpha/Beta	Gross Beta	1.26E-14	1.39E-14	1.74E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201477	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.94E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201477	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Beta	3.06E-14	1.60E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201478	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Alpha	1.85E-16	4.77E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201478	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.46E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201479	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Alpha	4.70E-15	6.63E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201479	P6WH LOADOUT	05/08/18	Gross Alpha/Beta	Gross Beta	1.98E-14	1.46E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201480	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Alpha	5.98E-15	7.20E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201480	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Beta	3.66E-14	1.67E-14	1.78E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201481	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Alpha	6.71E-15	7.11E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201481	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Beta	3.10E-14	1.53E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201482	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Alpha	4.65E-15	6.57E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201482	P6WH LOADOUT	05/09/18	Gross Alpha/Beta	Gross Beta	2.96E-14	1.55E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201483	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Alpha	4.74E-15	6.69E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201483	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Beta	3.82E-14	1.66E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201484	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Alpha	4.61E-15	6.51E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201484	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Beta	2.94E-14	1.54E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201485	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Alpha	9.37E-15	8.18E-15	1.08E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201485	P6WH LOADOUT	05/10/18	Gross Alpha/Beta	Gross Beta	3.85E-14	1.67E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201486	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.54E-15	1.08E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201486	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Beta	3.20E-14	1.61E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201487	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Alpha	3.51E-15	6.12E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201487	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Beta	2.72E-14	1.51E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201488	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Alpha	1.26E-14	8.95E-15	1.06E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201488	P6WH LOADOUT	05/14/18	Gross Alpha/Beta	Gross Beta	4.07E-14	1.67E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201489	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Alpha	6.92E-15	7.33E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201489	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Beta	9.64E-15	1.34E-14	1.72E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201490	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Alpha	3.51E-15	6.12E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201490	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Beta	2.09E-14	1.45E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201491	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Alpha	1.52E-15	5.15E-15	1.02E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201491	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Beta	3.17E-14	1.69E-14	2.37E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201491-1	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Alpha	1.52E-15	5.15E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201491-1	P6WH LOADOUT	05/15/18	Gross Alpha/Beta	Gross Beta	2.62E-14	1.63E-14	2.37E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201492	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.74E-15	1.03E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201492	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Beta	3.68E-14	1.76E-14	2.40E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201493	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Alpha	2.67E-15	5.55E-15	9.93E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201493	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Beta	4.30E-14	1.76E-14	2.31E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201494	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.85E-15	1.01E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201494	P6WH LOADOUT	05/16/18	Gross Alpha/Beta	Gross Beta	4.28E-14	1.78E-14	2.34E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201495	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Alpha	1.85E-15	6.26E-15	1.24E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201495	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Beta	3.95E-14	2.06E-14	2.89E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201496	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Alpha	7.99E-15	8.88E-15	1.28E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201496	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Beta	4.26E-14	2.14E-14	2.97E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201497	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Alpha	7.45E-15	8.28E-15	1.19E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201497	P6WH LOADOUT	05/17/18	Gross Alpha/Beta	Gross Beta	3.69E-14	1.97E-14	2.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201498	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Alpha	2.99E-16	4.45E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201498	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Beta	2.73E-14	1.62E-14	2.33E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201499	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Alpha	5.01E-15	6.46E-15	9.89E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201499	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Beta	3.00E-14	1.63E-14	2.30E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201500	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.96E-15	9.80E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201500	P6WH LOADOUT	05/21/18	Gross Alpha/Beta	Gross Beta	2.82E-14	1.60E-14	2.28E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201501	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Alpha	4.89E-15	6.29E-15	9.64E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201501	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Beta	3.07E-14	1.60E-14	2.24E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201502	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Alpha	8.59E-15	7.69E-15	9.93E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201502	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Beta	4.00E-14	1.73E-14	2.31E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201503	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.57E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201503	P6WH LOADOUT	05/22/18	Gross Alpha/Beta	Gross Beta	2.97E-14	1.65E-14	2.34E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201504	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Alpha	1.64E-14	1.01E-14	1.04E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201504	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Beta	4.50E-14	1.84E-14	2.42E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201505	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Alpha	7.44E-15	7.34E-15	9.98E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201505	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Beta	3.10E-14	1.65E-14	2.32E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201506	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.55E-15	1.01E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201506	P6WH LOADOUT	05/23/18	Gross Alpha/Beta	Gross Beta	3.91E-14	1.75E-14	2.35E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201507	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Alpha	6.14E-15	6.82E-15	9.80E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201507	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Beta	3.27E-14	1.64E-14	2.28E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201508	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Alpha	1.48E-15	5.01E-15	9.93E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201508	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Beta	4.07E-14	1.74E-14	2.31E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201509	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Alpha	1.47E-15	4.97E-15	9.85E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201509	P6WH LOADOUT	05/24/18	Gross Alpha/Beta	Gross Beta	2.08E-14	1.53E-14	2.29E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201510	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Alpha	7.37E-15	7.28E-15	9.89E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201510	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Beta	1.63E-14	1.48E-14	2.30E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201511	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Alpha	-3.05E-15	2.75E-15	1.01E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201511	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Beta	1.13E-14	1.31E-14	1.65E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201511-1	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Alpha	1.79E-16	4.62E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201511-1	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Beta	1.75E-14	1.38E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201512	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Alpha	4.46E-15	6.29E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201512	P6WH LOADOUT	05/29/18	Gross Alpha/Beta	Gross Beta	1.74E-14	1.37E-14	1.64E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201513	P6WH LOADOUT	05/30/18	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.61E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201513	P6WH LOADOUT	05/30/18	Gross Alpha/Beta	Gross Beta	1.35E-14	1.35E-14	1.67E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201514	P6WH LOADOUT	05/30/18	Gross Alpha/Beta	Gross Alpha	1.83E-16	4.72E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201514	P6WH LOADOUT	05/30/18	Gross Alpha/Beta	Gross Beta	1.44E-14	1.37E-14	1.69E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201515	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Alpha	5.72E-15	6.88E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201515	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Beta	1.16E-14	1.35E-14	1.70E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201516	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Alpha	-9.69E-16	4.43E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201516	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Beta	2.56E-14	1.56E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201517	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Alpha	2.39E-15	5.68E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201517	P6WH LOADOUT	05/31/18	Gross Alpha/Beta	Gross Beta	2.01E-14	1.43E-14	1.69E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201518	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.21E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201518	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Beta	1.29E-14	1.35E-14	1.69E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201519	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Alpha	-2.10E-15	3.72E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201519	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Beta	1.50E-14	1.43E-14	1.76E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201520	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Alpha	-3.30E-15	2.21E-15	5.61E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201520	P6WH LOADOUT	06/04/18	Gross Alpha/Beta	Gross Beta	-1.49E-14	9.40E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201521	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Alpha	-9.43E-16	4.31E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201521	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.55E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201522	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Alpha	-3.11E-15	2.81E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201522	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Beta	1.44E-14	1.37E-14	1.69E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201523	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Alpha	1.84E-16	4.74E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201523	P6WH LOADOUT	06/05/18	Gross Alpha/Beta	Gross Beta	1.23E-14	1.35E-14	1.69E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201524	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Alpha	4.80E-15	6.78E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201524	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Beta	3.20E-14	1.61E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201525	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Alpha	2.37E-15	5.63E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201525	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Beta	2.06E-14	1.43E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201526	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Alpha	4.80E-15	6.78E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201526	P6WH LOADOUT	06/06/18	Gross Alpha/Beta	Gross Beta	4.09E-14	1.70E-14	1.77E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201527	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Alpha	-2.05E-15	3.63E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201527	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Beta	5.11E-14	1.76E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201528	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.19E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201528	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Beta	2.48E-14	1.47E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201529	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Alpha	-9.43E-16	4.31E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD201529	P6WH LOADOUT	06/07/18	Gross Alpha/Beta	Gross Beta	4.31E-14	1.70E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203832	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	8.88E-15	1.16E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203832	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Beta	2.99E-14	1.41E-14	1.70E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203832-1	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Alpha	7.95E-15	7.97E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203832-1	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Beta	3.85E-14	1.50E-14	1.70E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203833	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Alpha	3.41E-15	6.48E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203833	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Beta	2.31E-14	1.32E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203834	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.70E-15	1.17E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203834	P6WH LOADOUT	06/11/18	Gross Alpha/Beta	Gross Beta	2.37E-14	1.35E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203835	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Alpha	2.37E-15	6.25E-15	1.17E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203835	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Beta	1.79E-14	1.28E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203836	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.64E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203836	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Beta	1.59E-14	1.23E-14	1.67E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203837	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Alpha	9.60E-17	5.40E-15	1.18E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203837	P6WH LOADOUT	06/12/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.26E-14	1.74E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203838	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Alpha	2.40E-15	6.33E-15	1.19E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203838	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Beta	2.26E-14	1.35E-14	1.75E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203839	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Alpha	4.46E-15	6.76E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203839	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Beta	3.33E-14	1.42E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203840	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Alpha	-2.17E-15	4.27E-15	1.17E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203840	P6WH LOADOUT	06/13/18	Gross Alpha/Beta	Gross Beta	3.16E-14	1.44E-14	1.71E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203841	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Alpha	-1.07E-15	4.98E-15	1.20E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203841	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Beta	2.96E-14	1.45E-14	1.77E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203842	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Alpha	3.52E-15	6.68E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203842	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Beta	3.04E-14	1.43E-14	1.73E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203843	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.62E-15	1.17E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203843	P6WH LOADOUT	06/14/18	Gross Alpha/Beta	Gross Beta	3.23E-14	1.44E-14	1.71E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203844	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Alpha	5.68E-15	7.27E-15	1.15E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203844	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Beta	2.55E-14	1.35E-14	1.69E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203845	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Alpha	5.65E-15	7.23E-15	1.15E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203845	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Beta	1.32E-14	1.20E-14	1.68E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203846	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Alpha	-2.17E-15	4.27E-15	1.17E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203846	P6WH LOADOUT	06/18/18	Gross Alpha/Beta	Gross Beta	1.42E-14	1.23E-14	1.71E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203847	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Alpha	5.83E-15	7.46E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203847	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Beta	4.08E-14	1.55E-14	1.74E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203848	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Alpha	-2.19E-15	4.30E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203848	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Beta	1.94E-14	1.31E-14	1.73E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203849	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Alpha	3.55E-15	6.74E-15	1.19E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203849	P6WH LOADOUT	06/19/18	Gross Alpha/Beta	Gross Beta	2.40E-14	1.37E-14	1.75E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203850	P6WH LOADOUT	06/20/18	Gross Alpha/Beta	Gross Alpha	5.70E-15	7.30E-15	1.16E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203850	P6WH LOADOUT	06/20/18	Gross Alpha/Beta	Gross Beta	6.17E-15	1.12E-14	1.70E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203851	P6WH LOADOUT	06/20/18	Gross Alpha/Beta	Gross Alpha	2.36E-15	6.22E-15	1.17E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203851	P6WH LOADOUT	06/20/18	Gross Alpha/Beta	Gross Beta	1.93E-14	1.29E-14	1.71E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203872	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Alpha	2.38E-15	6.28E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203872	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Beta	2.09E-14	1.32E-14	1.73E-14	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203872-1	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Alpha	3.52E-15	6.68E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203872-1	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.40E-14	1.73E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203873	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Alpha	4.48E-15	6.79E-15	1.13E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203873	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Beta	2.50E-14	1.33E-14	1.66E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203874	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Alpha	-1.05E-15	4.87E-15	1.18E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203874	P6WH LOADOUT	06/21/18	Gross Alpha/Beta	Gross Beta	1.43E-14	1.24E-14	1.73E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203875	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Alpha	-1.04E-15	4.83E-15	1.17E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203875	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Beta	2.22E-14	1.33E-14	1.71E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203876	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Alpha	6.74E-15	7.54E-15	1.14E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203876	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Beta	3.30E-14	1.43E-14	1.68E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203877	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Alpha	1.21E-15	5.72E-15	1.15E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203877	P6WH LOADOUT	06/25/18	Gross Alpha/Beta	Gross Beta	1.54E-14	1.23E-14	1.69E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203878	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Alpha	9.30E-17	5.24E-15	1.15E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203878	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.37E-14	1.68E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203879	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.62E-15	1.13E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203879	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Beta	7.44E-15	1.12E-14	1.66E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203880	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Alpha	2.95E-15	7.78E-15	1.46E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203880	P6WH LOADOUT	06/27/18	Gross Alpha/Beta	Gross Beta	9.59E-15	1.44E-14	2.14E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203881	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Alpha	2.33E-15	6.14E-15	1.15E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203881	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Beta	1.40E-14	1.22E-14	1.69E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203882	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Alpha	2.31E-15	6.09E-15	1.14E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203882	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Beta	1.81E-14	1.26E-14	1.68E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203883	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Alpha	2.31E-15	6.09E-15	1.14E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203883	P6WH LOADOUT	06/28/18	Gross Alpha/Beta	Gross Beta	1.39E-14	1.21E-14	1.68E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203884	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Alpha	4.33E-15	6.56E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203884	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Beta	2.83E-14	1.33E-14	1.61E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203885	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Alpha	1.24E-15	5.85E-15	1.18E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203885	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Beta	2.89E-14	1.42E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203886	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Alpha	9.20E-17	5.19E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203886	P6WH LOADOUT	07/02/18	Gross Alpha/Beta	Gross Beta	2.79E-14	1.37E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203887	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.64E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203887	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Beta	1.10E-14	1.17E-14	1.67E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203888	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Alpha	1.21E-15	5.72E-15	1.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203888	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Beta	5.12E-14	1.63E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203889	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Alpha	2.37E-15	6.25E-15	1.17E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203889	P6WH LOADOUT	07/03/18	Gross Alpha/Beta	Gross Beta	2.37E-14	1.35E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203890	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Alpha	1.27E-15	6.01E-15	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203890	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.34E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203891	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Alpha	9.40E-17	5.31E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203891	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Beta	2.42E-14	1.35E-14	1.71E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203892	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Alpha	1.00E-16	5.26E-15	1.13E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203892	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Beta	3.50E-14	1.72E-14	2.39E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203892-1	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Alpha	-1.10E-15	4.69E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203892-1	P6WH LOADOUT	07/05/18	Gross Alpha/Beta	Gross Beta	3.19E-14	1.69E-14	2.39E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203893	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Alpha	3.64E-15	6.61E-15	1.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203893	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Beta	2.25E-14	1.57E-14	2.36E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203894	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Alpha	6.05E-15	7.48E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203894	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Beta	5.16E-14	1.87E-14	2.38E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203895	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Alpha	4.81E-15	2.28E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203895	P6WH LOADOUT	07/09/18	Gross Alpha/Beta	Gross Beta	2.26E-14	1.63E-14	2.46E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203896	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Alpha	2.68E-15	6.73E-15	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203896	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Beta	4.01E-14	1.87E-14	2.57E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203897	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Alpha	3.53E-15	6.42E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203897	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Beta	3.35E-14	1.64E-14	2.29E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203898	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Alpha	3.78E-15	6.88E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203898	P6WH LOADOUT	07/10/18	Gross Alpha/Beta	Gross Beta	3.83E-14	1.79E-14	2.46E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203899	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Alpha	-1.13E-15	4.83E-15	1.17E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203899	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Beta	3.93E-14	1.80E-14	2.47E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203900	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Alpha	3.52E-15	6.39E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203900	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Beta	2.10E-14	1.51E-14	2.28E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203901	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Alpha	4.97E-15	7.24E-15	1.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203901	P6WH LOADOUT	07/11/18	Gross Alpha/Beta	Gross Beta	3.41E-14	1.73E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203902	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Alpha	6.07E-15	7.51E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203902	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Beta	4.27E-14	1.79E-14	2.39E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203903	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Alpha	6.18E-15	7.64E-15	1.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203903	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Beta	2.47E-14	1.64E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203904	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Alpha	3.82E-15	6.94E-15	1.17E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203904	P6WH LOADOUT	07/12/18	Gross Alpha/Beta	Gross Beta	4.90E-14	1.90E-14	2.48E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203905	P6WH LOADOUT	07/16/18	Gross Alpha/Beta	Gross Alpha	1.29E-15	5.78E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203905	P6WH LOADOUT	07/16/18	Gross Alpha/Beta	Gross Beta	4.11E-14	1.78E-14	2.39E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203906	P6WH LOADOUT	07/16/18	Gross Alpha/Beta	Gross Alpha	9.83E-15	8.74E-15	1.15E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203906	P6WH LOADOUT	07/16/18	Gross Alpha/Beta	Gross Beta	6.14E-14	1.99E-14	2.44E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203907	P6WH LOADOUT	07/17/18	Gross Alpha/Beta	Gross Alpha	4.80E-15	6.99E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203907	P6WH LOADOUT	07/17/18	Gross Alpha/Beta	Gross Beta	2.39E-14	1.58E-14	2.35E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203908	P6WH LOADOUT	07/17/18	Gross Alpha/Beta	Gross Alpha	2.42E-15	6.07E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203908	P6WH LOADOUT	07/17/18	Gross Alpha/Beta	Gross Beta	3.10E-14	1.64E-14	2.32E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203909	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Alpha	4.90E-15	7.15E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203909	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Beta	2.28E-14	1.60E-14	2.40E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203910	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Alpha	3.56E-15	6.47E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203910	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Beta	4.35E-14	1.75E-14	2.31E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203911	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Alpha	2.48E-15	6.23E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203911	P6WH LOADOUT	07/18/18	Gross Alpha/Beta	Gross Beta	1.58E-14	1.51E-14	2.38E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203912	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Alpha	1.38E-15	1.01E-14	1.21E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203912	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Beta	2.59E-14	1.74E-14	2.41E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203912-1	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Alpha	9.67E-15	1.19E-14	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203912-1	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Beta	2.97E-14	1.77E-14	2.41E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203913	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Alpha	5.68E-15	1.03E-14	1.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203913	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Beta	2.40E-14	1.61E-14	2.24E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203914	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Alpha	1.99E-16	9.86E-15	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203914	P6WH LOADOUT	07/19/18	Gross Alpha/Beta	Gross Beta	3.99E-14	1.88E-14	2.43E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203915	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Alpha	5.05E-15	1.11E-14	1.24E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203915	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Beta	3.11E-14	1.82E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203916	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Alpha	8.04E-15	1.10E-14	1.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203916	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Beta	1.09E-14	1.51E-14	2.28E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203917	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Alpha	8.76E-15	1.20E-14	1.25E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203917	P6WH LOADOUT	07/23/18	Gross Alpha/Beta	Gross Beta	3.14E-14	1.83E-14	2.49E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203918	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Alpha	9.80E-15	1.20E-14	1.23E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203918	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Beta	3.32E-14	1.82E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203919	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Alpha	1.24E-14	1.18E-14	1.14E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203919	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Beta	2.79E-14	1.66E-14	2.27E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203920	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Alpha	9.63E-15	1.18E-14	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203920	P6WH LOADOUT	07/24/18	Gross Alpha/Beta	Gross Beta	3.87E-14	1.85E-14	2.40E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203921	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Alpha	2.05E-16	1.02E-14	1.26E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203921	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Beta	1.35E-14	1.68E-14	2.51E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203922	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Alpha	3.55E-15	1.00E-14	1.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203922	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Beta	9.41E-15	1.50E-14	2.28E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203923	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Alpha	2.58E-15	1.04E-14	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203923	P6WH LOADOUT	07/25/18	Gross Alpha/Beta	Gross Beta	2.07E-14	1.69E-14	2.42E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203924	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Alpha	1.44E-14	1.48E-14	1.45E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203924	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Beta	4.65E-14	2.22E-14	2.89E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203925	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Alpha	4.23E-15	1.20E-14	1.37E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203925	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Beta	3.78E-14	2.04E-14	2.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203926	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Alpha	4.52E-15	1.28E-14	1.46E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203926	P6WH LOADOUT	07/26/18	Gross Alpha/Beta	Gross Beta	3.21E-14	2.10E-14	2.91E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203927	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Alpha	5.05E-15	1.11E-14	1.24E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203927	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Beta	3.11E-14	1.82E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203928	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Alpha	5.77E-15	1.05E-14	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203928	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Beta	3.80E-14	1.76E-14	2.27E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203929	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Alpha	6.37E-15	1.16E-14	1.26E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203929	P6WH LOADOUT	07/30/18	Gross Alpha/Beta	Gross Beta	4.04E-14	1.93E-14	2.51E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203930	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Alpha	5.59E-15	1.23E-14	1.37E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203930	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Beta	2.42E-14	1.92E-14	2.73E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203931	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Alpha	4.07E-15	1.15E-14	1.32E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203931	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Beta	3.14E-14	1.91E-14	2.62E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203932	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Alpha	4.36E-15	6.97E-15	1.21E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203932	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Beta	3.28E-14	1.57E-14	2.03E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203932-1	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Alpha	5.67E-15	7.45E-15	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203932-1	P6WH LOADOUT	07/31/18	Gross Alpha/Beta	Gross Beta	4.19E-14	1.67E-14	2.03E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203933	P6WH LOADOUT	08/01/18	Gross Alpha/Beta	Gross Alpha	7.22E-15	7.26E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203933	P6WH LOADOUT	08/01/18	Gross Alpha/Beta	Gross Beta	3.15E-14	1.40E-14	1.77E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203934	P6WH LOADOUT	08/01/18	Gross Alpha/Beta	Gross Alpha	9.26E-15	7.75E-15	1.03E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203934	P6WH LOADOUT	08/01/18	Gross Alpha/Beta	Gross Beta	3.27E-14	1.39E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203935	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Alpha	1.51E-15	5.12E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203935	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Beta	4.70E-14	1.57E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203936	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.83E-15	9.99E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203936	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Beta	3.59E-14	1.39E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203937	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Alpha	3.89E-15	6.21E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203937	P6WH LOADOUT	08/02/18	Gross Alpha/Beta	Gross Beta	4.10E-14	1.53E-14	1.81E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203938	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Alpha	8.22E-15	7.48E-15	1.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203938	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Beta	3.30E-14	1.40E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203939	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Alpha	3.60E-15	5.74E-15	9.99E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203939	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Beta	1.82E-14	1.19E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203940	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Alpha	9.55E-15	7.99E-15	1.06E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203940	P6WH LOADOUT	08/06/18	Gross Alpha/Beta	Gross Beta	2.29E-14	1.31E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203941	P6WH LOADOUT	08/07/18	Gross Alpha/Beta	Gross Alpha	-2.39E-15	1.26E-14	3.32E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203941	P6WH LOADOUT	08/07/18	Gross Alpha/Beta	Gross Beta	2.89E-14	3.55E-14	5.56E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203942	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Alpha	7.39E-15	7.42E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203942	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Beta	3.51E-14	1.46E-14	1.81E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203943	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Alpha	7.098E-15	7.13E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203943	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Beta	3.87E-14	1.46E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203944	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Alpha	3.85E-16	4.67E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203944	P6WH LOADOUT	08/08/18	Gross Alpha/Beta	Gross Beta	3.52E-15	1.07E-14	1.80E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203945	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Alpha	1.40E-14	9.16E-15	1.05E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203945	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Beta	3.70E-14	1.46E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203946	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Alpha	1.46E-15	4.94E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203946	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Beta	3.72E-14	1.42E-14	1.70E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203947	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Alpha	6.19E-15	7.01E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203947	P6WH LOADOUT	08/09/18	Gross Alpha/Beta	Gross Beta	3.93E-14	1.51E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203948	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Alpha	8.01E-15	7.29E-15	1.01E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203948	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Beta	4.59E-14	1.51E-14	1.70E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203949	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Alpha	3.46E-15	7.31E-15	1.37E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203949	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Beta	4.18E-14	1.83E-14	2.30E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203950	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Alpha	3.77E-15	6.02E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203950	P6WH LOADOUT	08/13/18	Gross Alpha/Beta	Gross Beta	3.40E-14	1.42E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203951	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Alpha	9.59E-15	8.03E-15	1.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203951	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Beta	4.98E-14	1.61E-14	1.79E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203981	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Alpha	4.83E-15	5.71E-15	8.72E-15	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203981	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Beta	5.39E-14	1.61E-14	1.60E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203981-1	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	7.80E-15	8.72E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203981-1	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Beta	4.11E-14	1.48E-14	1.60E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203982	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Alpha	8.79E-15	7.45E-15	9.52E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203982	P6WH LOADOUT	08/14/18	Gross Alpha/Beta	Gross Beta	3.74E-14	1.53E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203983	P6WH LOADOUT	08/15/18	Gross Alpha/Beta	Gross Alpha	3.82E-15	5.37E-15	8.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203983	P6WH LOADOUT	08/15/18	Gross Alpha/Beta	Gross Beta	1.91E-14	1.25E-14	1.62E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203984	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Alpha	3.98E-15	5.59E-15	9.22E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203984	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Beta	3.77E-14	1.50E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203985	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Alpha	4.87E-15	5.76E-15	8.80E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203985	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Beta	1.62E-14	1.21E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203986	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Alpha	2.90E-15	5.22E-15	9.43E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203986	P6WH LOADOUT	08/16/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.49E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203987	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Alpha	5.37E-16	3.74E-15	8.72E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203987	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Beta	1.74E-14	1.21E-14	1.60E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203988	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Alpha	6.65E-15	6.17E-15	8.31E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203988	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Beta	1.59E-14	1.15E-14	1.52E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203989	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Alpha	7.41E-15	6.88E-15	9.26E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203989	P6WH LOADOUT	08/20/18	Gross Alpha/Beta	Gross Beta	2.42E-14	1.36E-14	1.69E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203990	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Alpha	2.83E-15	5.08E-15	9.18E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203990	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Beta	2.61E-14	1.37E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203991	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Alpha	9.21E-15	7.22E-15	8.80E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203991	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.28E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203992	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Alpha	8.87E-15	7.52E-15	9.60E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203992	P6WH LOADOUT	08/21/18	Gross Alpha/Beta	Gross Beta	2.36E-14	1.39E-14	1.76E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203993	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Alpha	5.04E-15	5.96E-15	9.10E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203993	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Beta	3.09E-14	1.41E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203994	P6WH LOADOUT	08/23/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	7.80E-15	8.72E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203994	P6WH LOADOUT	08/23/18	Gross Alpha/Beta	Gross Beta	1.67E-14	1.21E-14	1.60E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203995	P6WH LOADOUT	08/23/18	Gross Alpha/Beta	Gross Alpha	4.70E-15	6.65E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203995	P6WH LOADOUT	08/23/18	Gross Alpha/Beta	Gross Beta	3.64E-14	1.43E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203996	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Alpha	8.87E-15	7.73E-15	1.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203996	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Beta	2.23E-14	1.22E-14	1.71E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203997	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Alpha	9.76E-15	7.87E-15	1.02E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203997	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Beta	2.38E-14	1.22E-14	1.68E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203998	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.64E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203998	P6WH LOADOUT	08/22/18	Gross Alpha/Beta	Gross Beta	2.77E-14	1.30E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203999	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.48E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD203999	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Beta	1.36E-14	1.13E-14	1.75E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD204000	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Alpha	-9.80E-16	3.90E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD204000	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Beta	8.24E-15	1.01E-14	1.67E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD204020	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.62E-15	1.06E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD204020	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Beta	4.23E-14	1.47E-14	1.74E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD204020-1	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.78E-15	1.06E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD204020-1	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Beta	5.07E-14	1.56E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204021	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Alpha	2.29E-15	5.52E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204021	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Beta	3.68E-14	1.39E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204022	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Alpha	3.53E-15	6.21E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204022	P6WH LOADOUT	08/27/18	Gross Alpha/Beta	Gross Beta	4.56E-14	1.53E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD204023	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Alpha	2.39E-15	5.77E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204023	P6WH LOADOUT	08/28/18	Gross Alpha/Beta	Gross Beta	1.24E-14	1.14E-14	1.79E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD204024	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Alpha	-2.14E-15	3.41E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD204024	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Beta	7.90E-15	1.05E-14	1.74E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207218	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Alpha	6.43E-15	6.80E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207218	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Beta	2.41E-14	1.21E-14	1.65E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207219	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Alpha	6.91E-15	7.31E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207219	P6WH LOADOUT	08/30/18	Gross Alpha/Beta	Gross Beta	2.16E-14	1.24E-14	1.77E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207220	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	8.52E-15	1.06E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207220	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Beta	2.42E-14	1.26E-14	1.75E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207221	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Alpha	6.45E-15	6.83E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207221	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Beta	3.29E-14	1.31E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207222	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Alpha	3.58E-15	6.29E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207222	P6WH LOADOUT	09/04/18	Gross Alpha/Beta	Gross Beta	3.09E-14	1.38E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207223	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Alpha	1.44E-14	9.18E-15	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207223	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Beta	4.09E-14	1.43E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207224	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Alpha	7.30E-15	6.96E-15	9.78E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD207224	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Beta	3.78E-14	1.34E-14	1.61E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207225	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.62E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207225	P6WH LOADOUT	09/05/18	Gross Alpha/Beta	Gross Beta	2.33E-14	1.25E-14	1.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207226	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Alpha	8.15E-15	7.77E-15	1.09E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD207226	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Beta	3.20E-14	1.38E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207227	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Alpha	3.23E-15	5.68E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207227	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Beta	3.12E-14	1.28E-14	1.64E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207228	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Alpha	5.72E-15	6.89E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207228	P6WH LOADOUT	09/06/18	Gross Alpha/Beta	Gross Beta	3.35E-14	1.38E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207229	P6WH LOADOUT	09/10/18	Gross Alpha/Beta	Gross Alpha	2.29E-15	5.52E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207229	P6WH LOADOUT	09/10/18	Gross Alpha/Beta	Gross Beta	9.83E-15	1.06E-14	1.71E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207230	P6WH LOADOUT	09/10/18	Gross Alpha/Beta	Gross Alpha	6.82E-15	7.22E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207230	P6WH LOADOUT	09/10/18	Gross Alpha/Beta	Gross Beta	3.00E-15	9.84E-15	1.75E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207231	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Alpha	4.76E-15	6.74E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207231	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Beta	2.07E-14	1.26E-14	1.82E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD207232	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Alpha	-9.72E-16	3.87E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD207232	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Beta	3.15E-14	1.30E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD207233	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Alpha	1.62E-15	5.58E-15	1.01E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207233	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Beta	1.48E-14	1.64E-14	2.48E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207233-1	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Alpha	2.84E-15	6.09E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207233-1	P6WH LOADOUT	09/11/18	Gross Alpha/Beta	Gross Beta	2.97E-14	1.79E-14	2.48E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207234	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Alpha	5.25E-15	6.97E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207234	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Beta	2.56E-14	1.74E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207235	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Alpha	9.15E-15	7.72E-15	9.12E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207235	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Beta	2.11E-14	1.56E-14	2.24E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207236	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Alpha	2.79E-15	5.98E-15	9.92E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207236	P6WH LOADOUT	09/12/18	Gross Alpha/Beta	Gross Beta	8.43E-15	1.55E-14	2.44E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207237	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Alpha	1.59E-15	5.46E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207237	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Beta	-7.63E-16	1.45E-14	2.42E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207238	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Alpha	4.72E-15	6.27E-15	9.04E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207238	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Beta	4.20E-14	1.74E-14	2.22E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207239	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Alpha	3.86E-15	6.25E-15	9.62E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207239	P6WH LOADOUT	09/13/18	Gross Alpha/Beta	Gross Beta	2.45E-14	1.67E-14	2.36E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207240	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Alpha	8.84E-15	8.11E-15	1.00E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207240	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Beta	3.71E-14	1.84E-14	2.46E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207241	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Alpha	4.86E-15	6.45E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207241	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Beta	3.45E-14	1.71E-14	2.28E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207242	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Alpha	4.00E-16	4.95E-15	9.96E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207242	P6WH LOADOUT	09/17/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.67E-14	2.45E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207243	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Alpha	1.63E-15	5.60E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207243	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Beta	2.90E-14	1.79E-14	2.49E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207244	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Alpha	4.86E-15	6.45E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207244	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Beta	1.65E-14	1.54E-14	2.28E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207245	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Alpha	6.29E-15	7.19E-15	9.79E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207245	P6WH LOADOUT	09/18/18	Gross Alpha/Beta	Gross Beta	2.57E-14	1.70E-14	2.40E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207246	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Alpha	2.85E-15	6.12E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207246	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Beta	3.76E-14	1.87E-14	2.49E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207247	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Alpha	1.94E-15	6.68E-15	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207247	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Beta	-2.80E-15	1.76E-14	2.97E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207248	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Alpha	2.80E-15	6.01E-15	9.96E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207248	P6WH LOADOUT	09/19/18	Gross Alpha/Beta	Gross Beta	4.08E-14	1.87E-14	2.45E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207249	P6WH LOADOUT	09/20/18	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.16E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207249	P6WH LOADOUT	09/20/18	Gross Alpha/Beta	Gross Beta	3.01E-14	1.74E-14	2.39E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207250	P6WH LOADOUT	09/20/18	Gross Alpha/Beta	Gross Alpha	8.76E-15	8.04E-15	9.92E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207250	P6WH LOADOUT	09/20/18	Gross Alpha/Beta	Gross Beta	5.44E-14	1.99E-14	2.44E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207251	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Alpha	2.78E-15	5.96E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207251	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Beta	3.05E-14	1.76E-14	2.42E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207252	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Alpha	1.50E-15	5.14E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207252	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Beta	4.32E-15	1.42E-14	2.28E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207253	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Alpha	4.05E-15	6.56E-15	1.01E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207253	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Beta	2.58E-14	1.75E-14	2.48E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207253-1	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.89E-15	1.01E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207253-1	P6WH LOADOUT	09/24/18	Gross Alpha/Beta	Gross Beta	3.67E-14	1.85E-14	2.48E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207254	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Alpha	5.18E-15	6.88E-15	9.92E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207254	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Beta	6.90E-15	1.54E-14	2.44E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207255	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Alpha	1.48E-15	5.08E-15	9.19E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207255	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Beta	1.28E-14	1.49E-14	2.26E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207256	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Alpha	4.11E-16	5.09E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207256	P6WH LOADOUT	09/25/18	Gross Alpha/Beta	Gross Beta	4.75E-15	1.56E-14	2.51E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207257	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.64E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207257	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Beta	2.29E-14	1.69E-14	2.42E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207258	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.93E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207258	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Beta	3.88E-14	1.83E-14	2.41E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207259	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Alpha	-8.11E-16	4.39E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207259	P6WH LOADOUT	09/26/18	Gross Alpha/Beta	Gross Beta	4.14E-14	1.90E-14	2.48E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207260	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Alpha	2.78E-15	5.96E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207260	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Beta	3.36E-14	1.79E-14	2.42E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207261	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Alpha	4.82E-15	6.40E-15	9.23E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207261	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.64E-14	2.27E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207262	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Alpha	3.93E-16	4.87E-15	9.79E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207262	P6WH LOADOUT	09/27/18	Gross Alpha/Beta	Gross Beta	3.18E-14	1.76E-14	2.40E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207263	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Alpha	3.95E-16	4.89E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207263	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Beta	5.32E-14	1.97E-14	2.41E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207264	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Alpha	3.74E-15	6.05E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207264	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Beta	3.45E-14	1.71E-14	2.28E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207265	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Alpha	3.97E-15	6.42E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207265	P6WH LOADOUT	10/01/18	Gross Alpha/Beta	Gross Beta	2.37E-14	1.70E-14	2.42E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207266	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.64E-15	9.87E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207266	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Beta	1.45E-14	1.61E-14	2.42E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207267	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Alpha	1.48E-15	5.08E-15	9.19E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207267	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Beta	1.21E-14	1.48E-14	2.26E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207268	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Alpha	3.98E-15	6.44E-15	9.92E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207268	P6WH LOADOUT	10/02/18	Gross Alpha/Beta	Gross Beta	3.45E-14	1.81E-14	2.44E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207269	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Alpha	3.95E-15	6.39E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207269	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Beta	6.84E-15	1.52E-14	2.41E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207270	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Alpha	6.96E-15	7.05E-15	9.12E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207270	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Beta	2.19E-14	1.57E-14	2.24E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207271	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Alpha	1.58E-15	5.43E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207271	P6WH LOADOUT	10/03/18	Gross Alpha/Beta	Gross Beta	2.13E-14	1.67E-14	2.41E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207272	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Alpha	-3.00E-15	3.04E-15	1.04E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207272	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Beta	4.96E-15	1.08E-14	1.67E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207272-1	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Alpha	1.50E-15	5.43E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207272-1	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Beta	8.50E-15	1.13E-14	1.67E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207273	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Alpha	5.61E-15	6.60E-15	9.75E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207273	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Beta	3.44E-14	1.37E-14	1.56E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207274	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Alpha	8.44E-15	7.93E-15	1.07E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207274	P6WH LOADOUT	10/04/18	Gross Alpha/Beta	Gross Beta	2.68E-14	1.37E-14	1.70E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207275	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Alpha	1.52E-15	5.50E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207275	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Beta	3.88E-14	1.50E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207276	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.06E-15	9.71E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207276	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Beta	5.01E-14	1.53E-14	1.55E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207277	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Alpha	8.29E-15	7.79E-15	1.05E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207277	P6WH LOADOUT	10/08/18	Gross Alpha/Beta	Gross Beta	3.84E-14	1.48E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207278	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.35E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207278	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Beta	3.00E-14	1.40E-14	1.68E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207279	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Alpha	7.01E-15	7.29E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207279	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Beta	3.62E-14	1.44E-14	1.64E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207280	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.63E-15	1.03E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207280	P6WH LOADOUT	10/09/18	Gross Alpha/Beta	Gross Beta	2.81E-14	1.36E-14	1.65E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207281	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Alpha	3.74E-16	4.92E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207281	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Beta	2.33E-14	1.31E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207282	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Alpha	-1.75E-15	3.52E-15	9.71E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207282	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Beta	5.93E-15	1.03E-14	1.55E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207283	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Alpha	-3.03E-15	3.07E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207283	P6WH LOADOUT	10/10/18	Gross Alpha/Beta	Gross Beta	6.43E-15	1.11E-14	1.68E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207284	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Alpha	3.79E-16	4.98E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207284	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Beta	1.07E-14	1.17E-14	1.68E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207285	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Alpha	3.54E-15	5.94E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207285	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Beta	6.01E-15	1.04E-14	1.57E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207286	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Alpha	2.62E-15	5.85E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207286	P6WH LOADOUT	10/11/18	Gross Alpha/Beta	Gross Beta	1.41E-14	1.20E-14	1.66E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207287	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Alpha	3.54E-15	5.94E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207287	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Beta	2.34E-14	1.25E-14	1.57E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207288	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Alpha	2.46E-15	5.50E-15	9.75E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207288	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Beta	2.91E-14	1.31E-14	1.56E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207289	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Alpha	1.44E-15	5.22E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207289	P6WH LOADOUT	10/15/18	Gross Alpha/Beta	Gross Beta	3.34E-14	1.39E-14	1.60E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207290	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Alpha	6.92E-15	7.20E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207290	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Beta	2.82E-14	1.34E-14	1.62E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207291	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Alpha	1.39E-15	5.01E-15	9.63E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207291	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Beta	3.99E-14	1.41E-14	1.54E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207292	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Alpha	6.09E-15	6.76E-15	9.99E-15	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207292	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Beta	3.72E-14	1.80E-14	2.28E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207292-1	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Alpha	8.45E-15	7.55E-15	9.99E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207292-1	P6WH LOADOUT	10/16/18	Gross Alpha/Beta	Gross Beta	3.80E-14	1.81E-14	2.28E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207293	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Alpha	3.74E-15	5.87E-15	9.99E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207293	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Beta	1.98E-14	1.64E-14	2.28E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207294	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Alpha	6.80E-15	6.70E-15	9.34E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207294	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Beta	2.98E-14	1.64E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207295	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Alpha	1.98E-16	4.25E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207295	P6WH LOADOUT	10/17/18	Gross Alpha/Beta	Gross Beta	3.75E-14	1.82E-14	2.30E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207296	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Alpha	2.48E-15	5.22E-15	9.70E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207296	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Beta	2.00E-14	1.60E-14	2.21E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207297	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Alpha	7.87E-15	7.03E-15	9.30E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207297	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Beta	2.20E-14	1.56E-14	2.12E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207298	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.77E-15	9.82E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207298	P6WH LOADOUT	10/18/18	Gross Alpha/Beta	Gross Beta	3.14E-14	1.72E-14	2.24E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207299	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Alpha	9.47E-15	7.78E-15	9.82E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207299	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Beta	2.99E-14	1.71E-14	2.24E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207300	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Alpha	-9.19E-16	3.26E-15	9.34E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207300	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Beta	2.84E-14	1.63E-14	2.13E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207301	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Alpha	1.91E-16	4.09E-15	9.70E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207301	P6WH LOADOUT	10/22/18	Gross Alpha/Beta	Gross Beta	2.44E-14	1.64E-14	2.21E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207302	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Alpha	4.85E-15	6.25E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207302	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Beta	2.78E-14	1.70E-14	2.25E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207303	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Alpha	2.38E-15	5.01E-15	9.30E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207303	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Beta	7.17E-15	1.41E-14	2.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207304	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Alpha	1.90E-16	4.07E-15	9.66E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207304	P6WH LOADOUT	10/23/18	Gross Alpha/Beta	Gross Beta	2.72E-14	1.66E-14	2.20E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207305	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.26E-15	9.78E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207305	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Beta	2.31E-14	1.64E-14	2.23E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207306	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Alpha	1.85E-16	3.97E-15	9.42E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207306	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Beta	1.23E-14	1.48E-14	2.15E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207307	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Alpha	1.94E-16	4.16E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207307	P6WH LOADOUT	10/24/18	Gross Alpha/Beta	Gross Beta	8.34E-15	1.50E-14	2.25E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207308	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Alpha	-1.00E-15	3.55E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207308	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Beta	1.01E-14	1.57E-14	2.32E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207309	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Alpha	-2.49E-15	1.38E-15	4.81E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207309	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Beta	-2.56E-14	8.67E-15	1.24E-14	µCi/mL	UJ	T06, T07	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207310	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Alpha	4.89E-15	6.30E-15	9.95E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207310	P6WH LOADOUT	10/25/18	Gross Alpha/Beta	Gross Beta	2.57E-14	1.69E-14	2.27E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207311	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Alpha	-1.00E-15	3.55E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207311	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Beta	3.71E-14	1.83E-14	2.32E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207332	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Alpha	6.19E-15	6.62E-15	9.34E-15	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207332	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Beta	1.52E-14	1.15E-14	1.63E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207332-1	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Alpha	3.01E-15	5.50E-15	9.34E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207332-1	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Beta	3.05E-14	1.33E-14	1.63E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207333	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Alpha	5.37E-15	6.57E-15	9.78E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207333	P6WH LOADOUT	10/29/18	Gross Alpha/Beta	Gross Beta	5.42E-15	1.07E-14	1.71E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207334	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.37E-15	9.91E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207334	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Beta	4.59E-14	1.55E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207335	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Alpha	7.25E-15	6.96E-15	9.34E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207335	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Beta	4.66E-14	1.50E-14	1.63E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207336	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Alpha	1.68E-14	9.85E-15	9.95E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207336	P6WH LOADOUT	10/30/18	Gross Alpha/Beta	Gross Beta	6.03E-14	1.71E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207337	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Alpha	3.23E-15	5.91E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207337	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Beta	5.72E-14	1.69E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207338	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Alpha	8.24E-15	7.22E-15	9.26E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207338	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Beta	3.89E-14	1.41E-14	1.62E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207339	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.30E-15	9.82E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207339	P6WH LOADOUT	10/31/18	Gross Alpha/Beta	Gross Beta	4.55E-14	1.54E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207340	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Alpha	-2.46E-15	2.97E-15	9.99E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207340	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Beta	6.97E-15	1.11E-14	1.75E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207341	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Alpha	5.13E-15	6.27E-15	9.34E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207341	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Beta	1.65E-14	1.16E-14	1.63E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207342	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Alpha	4.26E-15	6.18E-15	9.78E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207342	P6WH LOADOUT	11/01/18	Gross Alpha/Beta	Gross Beta	2.08E-14	1.26E-14	1.71E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207343	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Alpha	-2.04E-16	4.70E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207343	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.44E-14	1.88E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207344	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.62E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207344	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Beta	3.09E-14	1.39E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207345	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Alpha	5.85E-15	7.15E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207345	P6WH LOADOUT	11/05/18	Gross Alpha/Beta	Gross Beta	2.80E-14	1.44E-14	1.86E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207346	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Alpha	3.32E-15	6.07E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207346	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Beta	2.64E-14	1.38E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207347	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Alpha	-1.31E-15	3.69E-15	9.86E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207347	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Beta	2.52E-14	1.32E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207348	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Alpha	2.20E-15	5.73E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207348	P6WH LOADOUT	11/06/18	Gross Alpha/Beta	Gross Beta	3.23E-14	1.47E-14	1.84E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207349	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	8.01E-15	9.15E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207349	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Beta	3.38E-14	1.34E-14	1.60E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207350	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Alpha	9.30E-16	4.84E-15	9.82E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207350	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Beta	2.65E-14	1.33E-14	1.72E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207351	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Alpha	2.10E-15	5.47E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207351	P6WH LOADOUT	11/07/18	Gross Alpha/Beta	Gross Beta	4.38E-14	1.55E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207352	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Alpha	-2.38E-15	4.69E-15	1.06E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207352	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Beta	1.71E-14	1.21E-14	1.74E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207352-1	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Alpha	2.01E-15	6.42E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207352-1	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Beta	1.16E-14	1.14E-14	1.74E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207353	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Alpha	4.03E-15	6.84E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207353	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Beta	1.97E-14	1.20E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207354	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Alpha	4.26E-15	7.23E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207354	P6WH LOADOUT	11/08/18	Gross Alpha/Beta	Gross Beta	1.38E-14	1.19E-14	1.76E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207355	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Alpha	-1.33E-15	5.38E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207355	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Beta	2.64E-14	1.36E-14	1.81E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207356	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Alpha	2.98E-15	6.51E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207356	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Beta	3.23E-14	1.35E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207357	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Alpha	6.51E-15	7.92E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207357	P6WH LOADOUT	11/13/18	Gross Alpha/Beta	Gross Beta	2.30E-14	1.30E-14	1.77E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207358	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Alpha	4.35E-15	7.39E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207358	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Beta	1.91E-14	1.27E-14	1.80E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207359	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Alpha	-1.21E-15	4.88E-15	1.00E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207359	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Beta	2.46E-14	1.24E-14	1.64E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207360	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Alpha	4.24E-15	7.20E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207360	P6WH LOADOUT	11/14/18	Gross Alpha/Beta	Gross Beta	3.05E-14	1.38E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207361	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Alpha	8.78E-15	8.57E-15	1.09E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207361	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Beta	3.30E-14	1.42E-14	1.78E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207362	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Alpha	-2.29E-15	4.51E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207362	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Beta	1.65E-14	1.17E-14	1.68E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207363	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Alpha	2.10E-15	6.70E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207363	P6WH LOADOUT	11/19/18	Gross Alpha/Beta	Gross Beta	2.51E-14	1.35E-14	1.82E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207364	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Alpha	3.14E-15	6.84E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207364	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Beta	5.69E-14	1.66E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207365	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Alpha	9.37E-15	8.39E-15	1.03E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207365	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Beta	3.52E-14	1.39E-14	1.68E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207366	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Alpha	9.06E-16	5.98E-15	1.06E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207366	P6WH LOADOUT	11/20/18	Gross Alpha/Beta	Gross Beta	4.36E-14	1.50E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207367	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Alpha	7.59E-15	8.20E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207367	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Beta	5.30E-14	1.62E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207368	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Alpha	6.14E-15	7.47E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207368	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Beta	4.09E-14	1.44E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207369	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Alpha	-1.29E-15	5.22E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207369	P6WH LOADOUT	11/21/18	Gross Alpha/Beta	Gross Beta	4.37E-14	1.52E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207370	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Alpha	4.24E-15	7.20E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207370	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Beta	1.79E-14	1.23E-14	1.76E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207371	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Alpha	4.10E-15	6.96E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207371	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.38E-14	1.70E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207384	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Alpha	5.72E-15	7.59E-15	1.12E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207384	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Beta	2.81E-14	1.74E-14	2.38E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207384-1	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Alpha	1.39E-14	9.81E-15	1.12E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207384-1	P6WH LOADOUT	11/26/18	Gross Alpha/Beta	Gross Beta	7.07E-14	2.13E-14	2.38E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207385	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Alpha	5.77E-15	7.65E-15	1.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207385	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Beta	1.18E-14	1.60E-14	2.40E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207386	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Alpha	-9.40E-17	5.32E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207386	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Beta	1.85E-14	1.60E-14	2.30E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207387	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Alpha	4.62E-15	7.31E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207387	P6WH LOADOUT	11/27/18	Gross Alpha/Beta	Gross Beta	5.04E-16	1.49E-14	2.41E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207388	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Alpha	2.26E-15	6.50E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207388	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Beta	1.49E-14	1.64E-14	2.41E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207389	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Alpha	-9.20E-17	5.23E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207389	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Beta	2.11E-14	1.61E-14	2.26E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207390	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Alpha	2.21E-15	6.36E-15	1.11E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207390	P6WH LOADOUT	11/28/18	Gross Alpha/Beta	Gross Beta	2.20E-14	1.67E-14	2.36E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207391	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Alpha	3.50E-15	7.04E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207391	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Beta	3.36E-14	1.84E-14	2.45E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207392	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Alpha	1.02E-15	5.73E-15	1.08E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207392	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Beta	4.13E-14	1.80E-14	2.28E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207393	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Alpha	4.70E-15	7.44E-15	1.16E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207393	P6WH LOADOUT	11/29/18	Gross Alpha/Beta	Gross Beta	3.21E-14	1.83E-14	2.45E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207394	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Alpha	-1.28E-15	5.07E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207394	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Beta	5.83E-15	1.55E-14	2.42E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207395	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Alpha	-9.30E-17	5.26E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207395	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Beta	4.76E-15	1.45E-14	2.27E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207396	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Alpha	-3.65E-15	3.82E-15	1.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207396	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Beta	3.55E-15	1.53E-14	2.42E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207397	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Alpha	3.70E-15	7.43E-15	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207397	P6WH LOADOUT	12/03/18	Gross Alpha/Beta	Gross Beta	3.71E-14	1.96E-14	2.59E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207398	P6WH LOADOUT	12/05/18	Gross Alpha/Beta	Gross Alpha	-1.24E-15	4.90E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207398	P6WH LOADOUT	12/05/18	Gross Alpha/Beta	Gross Beta	3.79E-14	1.81E-14	2.34E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207399	P6WH LOADOUT	12/05/18	Gross Alpha/Beta	Gross Alpha	-1.06E-16	5.99E-15	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207399	P6WH LOADOUT	12/05/18	Gross Alpha/Beta	Gross Beta	4.69E-14	2.05E-14	2.59E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207400	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Alpha	-1.06E-16	5.99E-15	1.22E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207400	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Beta	2.01E-14	1.80E-14	2.59E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207401	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Alpha	-9.50E-17	5.36E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207401	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Beta	6.31E-15	1.50E-14	2.32E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207402	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Alpha	-5.15E-15	3.19E-15	1.21E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207402	P6WH LOADOUT	12/04/18	Gross Alpha/Beta	Gross Beta	8.63E-15	1.68E-14	2.58E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD207411	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Alpha	2.62E-15	6.51E-15	1.14E-14	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207411	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Beta	4.74E-14	1.69E-14	1.81E-14	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207411-1	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Alpha	1.07E-15	5.08E-15	8.99E-15	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207411-1	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Beta	1.80E-14	1.18E-14	1.48E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207412	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Alpha	1.31E-15	5.59E-15	1.06E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207412	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Beta	5.59E-14	1.69E-14	1.67E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207413	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Alpha	3.73E-15	6.76E-15	1.11E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207413	P6WH LOADOUT	12/06/18	Gross Alpha/Beta	Gross Beta	5.13E-14	1.70E-14	1.76E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207414	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Alpha	7.03E-15	7.66E-15	1.07E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207414	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Beta	4.18E-14	1.56E-14	1.70E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207415	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Alpha	1.26E-15	5.38E-15	1.02E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207415	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Beta	5.51E-14	1.64E-14	1.61E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207416	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Alpha	4.75E-15	6.94E-15	1.07E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207416	P6WH LOADOUT	12/10/18	Gross Alpha/Beta	Gross Beta	5.54E-14	1.70E-14	1.70E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207417	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Alpha	2.47E-15	6.13E-15	1.07E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD207417	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Beta	5.69E-14	1.72E-14	1.70E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208865	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Alpha	1.84E-16	5.04E-15	1.04E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208865	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Beta	4.73E-14	1.58E-14	1.65E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208866	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Alpha	3.61E-15	6.55E-15	1.07E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208866	P6WH LOADOUT	12/11/18	Gross Alpha/Beta	Gross Beta	7.27E-14	1.87E-14	1.70E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208867	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Alpha	4.88E-15	7.12E-15	1.10E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208867	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Beta	7.98E-14	1.97E-14	1.75E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208868	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Alpha	9.07E-15	8.11E-15	1.05E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208868	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Beta	5.82E-14	1.70E-14	1.66E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208869	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Alpha	9.53E-15	8.51E-15	1.10E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208869	P6WH LOADOUT	12/12/18	Gross Alpha/Beta	Gross Beta	6.18E-14	1.79E-14	1.74E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208870	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Alpha	-2.11E-15	4.13E-15	1.08E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208870	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Beta	2.41E-14	1.38E-14	1.72E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208871	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Alpha	5.69E-15	7.06E-15	1.04E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208871	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Beta	1.47E-14	1.22E-14	1.65E-14	$\mu\text{Ci}/\text{mL}$	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208872	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Alpha	7.07E-15	7.69E-15	1.08E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208872	P6WH LOADOUT	12/13/18	Gross Alpha/Beta	Gross Beta	3.05E-14	1.45E-14	1.71E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208873	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Alpha	3.55E-15	6.43E-15	1.06E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208873	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Beta	2.70E-14	1.38E-14	1.67E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208874	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Alpha	1.81E-16	4.97E-15	1.02E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208874	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Beta	2.75E-14	1.36E-14	1.63E-14	$\mu\text{Ci}/\text{mL}$	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208875	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Alpha	5.79E-15	7.18E-15	1.06E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208875	P6WH LOADOUT	12/17/18	Gross Alpha/Beta	Gross Beta	2.13E-14	1.32E-14	1.67E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208876	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.91E-15	1.02E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208876	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Beta	2.12E-14	1.28E-14	1.61E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208877	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Alpha	4.25E-15	6.20E-15	9.59E-15	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208877	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Beta	1.94E-14	1.20E-14	1.52E-14	$\mu\text{Ci}/\text{mL}$	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208878	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Alpha	1.53E-15	5.49E-15	9.54E-15	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208878	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Beta	1.80E-14	1.77E-14	2.32E-14	$\mu\text{Ci}/\text{mL}$			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208878-1	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Alpha	3.83E-16	4.99E-15	9.54E-15	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208878-1	P6WH LOADOUT	12/18/18	Gross Alpha/Beta	Gross Beta	1.51E-14	1.75E-14	2.32E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208879	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Alpha	1.63E-15	5.84E-15	1.01E-14	$\mu\text{Ci}/\text{mL}$	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD208879	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Beta	3.64E-14	2.04E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208880	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Alpha	1.52E-15	5.45E-15	9.46E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208880	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Beta	-1.16E-15	1.59E-14	2.30E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208881	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Alpha	2.85E-15	6.33E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208881	P6WH LOADOUT	12/19/18	Gross Alpha/Beta	Gross Beta	3.87E-14	2.06E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208882	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Alpha	3.00E-15	6.66E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208882	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Beta	3.99E-14	2.16E-14	2.60E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208883	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Alpha	3.91E-15	6.52E-15	9.74E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208883	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Beta	4.18E-14	2.01E-14	2.37E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208884	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Alpha	2.93E-15	6.50E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208884	P6WH LOADOUT	12/20/18	Gross Alpha/Beta	Gross Beta	4.46E-14	2.15E-14	2.54E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208885	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Alpha	4.07E-15	6.79E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208885	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Beta	2.70E-14	1.95E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208886	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Alpha	1.53E-15	5.49E-15	9.54E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208886	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Beta	2.17E-14	1.81E-14	2.32E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208887	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Alpha	1.63E-15	5.84E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208887	P6WH LOADOUT	12/24/18	Gross Alpha/Beta	Gross Beta	1.44E-14	1.84E-14	2.47E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208888	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Alpha	9.00E-15	8.42E-15	1.02E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208888	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Beta	4.05E-14	2.08E-14	2.48E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208889	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Alpha	3.80E-15	6.33E-15	9.46E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208889	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Beta	2.74E-14	1.84E-14	2.30E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208890	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Alpha	6.40E-15	7.49E-15	9.96E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208890	P6WH LOADOUT	12/26/18	Gross Alpha/Beta	Gross Beta	4.96E-14	2.12E-14	2.42E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208891	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Alpha	2.84E-15	6.30E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208891	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Beta	1.75E-14	1.86E-14	2.46E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208892	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Alpha	-7.90E-16	4.56E-15	9.83E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208892	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Beta	2.01E-14	1.84E-14	2.39E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208893	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Alpha	1.62E-15	5.81E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208893	P6WH LOADOUT	12/27/18	Gross Alpha/Beta	Gross Beta	2.69E-14	1.95E-14	2.46E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208894	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Beta	-4.63E-15	2.17E-14	3.18E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208894	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Alpha	8.40E-15	9.83E-15	1.31E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208895	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Beta	1.02E-14	2.23E-14	3.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208895	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Alpha	2.03E-15	7.27E-15	1.26E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208896	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Beta	1.13E-14	2.27E-14	3.13E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD208896	P6WH LOADOUT	12/31/18	Gross Alpha/Beta	Gross Alpha	3.61E-15	8.02E-15	1.28E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD200090	PLANT 1	01/08/18	Gross Alpha/Beta	Gross Alpha	5.19E-15	9.75E-15	1.61E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200090	PLANT 1	01/08/18	Gross Alpha/Beta	Gross Beta	4.97E-14	2.47E-14	2.91E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200091	PLANT 1	01/09/18	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.60E-15	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200091	PLANT 1	01/09/18	Gross Alpha/Beta	Gross Beta	5.49E-14	1.82E-14	1.88E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200198	PLANT 1	01/10/18	Gross Alpha/Beta	Gross Alpha	4.94E-16	5.05E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200198	PLANT 1	01/10/18	Gross Alpha/Beta	Gross Beta	2.36E-14	1.30E-14	1.84E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200199	PLANT 1	01/11/18	Gross Alpha/Beta	Gross Alpha	1.79E-15	5.94E-15	1.16E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200199	PLANT 1	01/11/18	Gross Alpha/Beta	Gross Beta	7.40E-15	1.14E-14	1.96E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200200	PLANT 1	01/18/18	Gross Alpha/Beta	Gross Alpha	6.86E-15	9.09E-15	1.43E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200200	PLANT 1	01/18/18	Gross Alpha/Beta	Gross Beta	1.21E-14	1.45E-14	2.42E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD201377	PLANT 1	04/18/18	Gross Alpha/Beta	Gross Alpha	7.96E-15	1.64E-14	2.90E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD201377	PLANT 1	04/18/18	Gross Alpha/Beta	Gross Beta	2.89E-14	3.15E-14	5.12E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD201377-1	PLANT 1	04/18/18	Gross Alpha/Beta	Gross Alpha	4.78E-15	1.51E-14	2.90E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201377-1	PLANT 1	04/18/18	Gross Alpha/Beta	Gross Beta	4.93E-14	3.42E-14	5.12E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD201378	PLANT 1	04/19/18	Gross Alpha/Beta	Gross Alpha	-5.40E-16	4.11E-15	9.83E-15	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201378	PLANT 1	04/19/18	Gross Alpha/Beta	Gross Beta	7.72E-15	1.04E-14	1.74E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201379	PLANT 1	04/23/18	Gross Alpha/Beta	Gross Alpha	5.24E-15	8.28E-15	1.37E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201379	PLANT 1	04/23/18	Gross Alpha/Beta	Gross Beta	2.22E-14	1.60E-14	2.41E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD201380	PLANT 1	04/24/18	Gross Alpha/Beta	Gross Alpha	-2.37E-15	5.13E-15	1.44E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201380	PLANT 1	04/24/18	Gross Alpha/Beta	Gross Beta	1.33E-14	1.55E-14	2.54E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201381	PLANT 1	05/01/18	Gross Alpha/Beta	Gross Alpha	1.90E-15	1.64E-14	3.46E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201381	PLANT 1	05/01/18	Gross Alpha/Beta	Gross Beta	1.50E-14	3.50E-14	6.11E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201382	PLANT 1	05/09/18	Gross Alpha/Beta	Gross Alpha	6.60E-16	5.68E-15	1.20E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201382	PLANT 1	05/09/18	Gross Alpha/Beta	Gross Beta	4.75E-14	1.74E-14	2.12E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD201530	PLANT 1	05/10/18	Gross Alpha/Beta	Gross Alpha	4.16E-15	7.26E-15	1.24E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD201530	PLANT 1	05/10/18	Gross Alpha/Beta	Gross Beta	3.48E-14	1.82E-14	2.02E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD201530-1	PLANT 1	05/10/18	Gross Alpha/Beta	Gross Alpha	6.78E-15	8.16E-15	1.24E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201530-1	PLANT 1	05/10/18	Gross Alpha/Beta	Gross Beta	3.73E-14	1.85E-14	2.02E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD201531	PLANT 1	05/14/18	Gross Alpha/Beta	Gross Alpha	8.73E-15	8.33E-15	1.15E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD201531	PLANT 1	05/14/18	Gross Alpha/Beta	Gross Beta	2.22E-14	1.58E-14	1.87E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201532	PLANT 1	05/15/18	Gross Alpha/Beta	Gross Alpha	-4.09E-15	1.71E-15	1.00E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201532	PLANT 1	05/15/18	Gross Alpha/Beta	Gross Beta	3.24E-14	1.52E-14	1.64E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD201533	PLANT 1	05/16/18	Gross Alpha/Beta	Gross Alpha	3.58E-15	6.26E-15	1.07E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201533	PLANT 1	05/16/18	Gross Alpha/Beta	Gross Beta	8.27E-15	1.34E-14	1.74E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201534	PLANT 1	05/23/18	Gross Alpha/Beta	Gross Alpha	5.07E-15	8.86E-15	1.51E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201534	PLANT 1	05/23/18	Gross Alpha/Beta	Gross Beta	3.12E-14	2.10E-14	2.46E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201535	PLANT 1	05/24/18	Gross Alpha/Beta	Gross Alpha	2.39E-15	5.68E-15	1.04E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201535	PLANT 1	05/24/18	Gross Alpha/Beta	Gross Beta	2.43E-14	1.48E-14	1.69E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201536	PLANT 1	05/29/18	Gross Alpha/Beta	Gross Alpha	2.40E-15	5.70E-15	1.04E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201536	PLANT 1	05/29/18	Gross Alpha/Beta	Gross Beta	1.59E-14	1.40E-14	1.70E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD201537	PLANT 1	05/30/18	Gross Alpha/Beta	Gross Alpha	3.42E-15	5.97E-15	1.02E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201537	PLANT 1	05/30/18	Gross Alpha/Beta	Gross Beta	1.55E-14	1.36E-14	1.66E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD201538	PLANT 1	06/04/18	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.94E-15	1.01E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201538	PLANT 1	06/04/18	Gross Alpha/Beta	Gross Beta	1.96E-14	1.40E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201539	PLANT 1	06/05/18	Gross Alpha/Beta	Gross Alpha	6.51E-15	7.84E-15	1.19E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201539	PLANT 1	06/05/18	Gross Alpha/Beta	Gross Beta	2.94E-14	1.71E-14	1.94E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201540	PLANT 1	06/06/18	Gross Alpha/Beta	Gross Alpha	2.52E-15	5.99E-15	1.09E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201540	PLANT 1	06/06/18	Gross Alpha/Beta	Gross Beta	2.34E-14	1.54E-14	1.79E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD201541	PLANT 1	06/07/18	Gross Alpha/Beta	Gross Alpha	3.48E-15	6.07E-15	1.03E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201541	PLANT 1	06/07/18	Gross Alpha/Beta	Gross Beta	3.75E-14	1.61E-14	1.69E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD201542	PLANT 1	06/11/18	Gross Alpha/Beta	Gross Alpha	-1.97E-15	3.49E-15	1.01E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201542	PLANT 1	06/11/18	Gross Alpha/Beta	Gross Beta	3.54E-14	1.56E-14	1.65E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD201543	PLANT 1	06/12/18	Gross Alpha/Beta	Gross Alpha	-1.05E-15	4.80E-15	1.19E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD201543	PLANT 1	06/12/18	Gross Alpha/Beta	Gross Beta	2.05E-14	1.61E-14	1.94E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203852	PLANT 1	06/13/18	Gross Alpha/Beta	Gross Alpha	5.15E-15	7.51E-15	1.20E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD203852	PLANT 1	06/13/18	Gross Alpha/Beta	Gross Beta	2.81E-14	1.72E-14	2.53E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD203852-1	PLANT 1	06/13/18	Gross Alpha/Beta	Gross Alpha	1.02E-14	9.07E-15	1.20E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203852-1	PLANT 1	06/13/18	Gross Alpha/Beta	Gross Beta	2.81E-14	1.72E-14	2.53E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203853	PLANT 1	06/14/18	Gross Alpha/Beta	Gross Alpha	4.90E-15	7.15E-15	1.14E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203853	PLANT 1	06/14/18	Gross Alpha/Beta	Gross Beta	4.06E-14	1.78E-14	2.40E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD203854	PLANT 1	06/18/18	Gross Alpha/Beta	Gross Alpha	5.87E-15	1.07E-14	1.81E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203854	PLANT 1	06/18/18	Gross Alpha/Beta	Gross Beta	-6.52E-15	2.07E-14	3.82E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203855	PLANT 1	06/19/18	Gross Alpha/Beta	Gross Alpha	9.37E-15	9.13E-15	1.25E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203855	PLANT 1	06/19/18	Gross Alpha/Beta	Gross Beta	3.62E-14	1.87E-14	2.65E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203856	PLANT 1	06/21/18	Gross Alpha/Beta	Gross Alpha	5.49E-15	9.98E-15	1.69E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203856	PLANT 1	06/21/18	Gross Alpha/Beta	Gross Beta	5.22E-14	2.56E-14	3.57E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD203857	PLANT 1	06/25/18	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.68E-15	1.06E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203857	PLANT 1	06/25/18	Gross Alpha/Beta	Gross Beta	1.56E-14	1.43E-14	2.25E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203858	PLANT 1	06/27/18	Gross Alpha/Beta	Gross Alpha	1.14E-16	6.03E-15	1.30E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203858	PLANT 1	06/27/18	Gross Alpha/Beta	Gross Beta	2.52E-14	1.82E-14	2.74E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203859	PLANT 1	06/28/18	Gross Alpha/Beta	Gross Alpha	4.97E-15	7.24E-15	1.15E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203859	PLANT 1	06/28/18	Gross Alpha/Beta	Gross Beta	2.39E-14	1.63E-14	2.44E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203860	PLANT 1	07/02/18	Gross Alpha/Beta	Gross Alpha	4.90E-15	7.15E-15	1.14E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203860	PLANT 1	07/02/18	Gross Alpha/Beta	Gross Beta	2.053E-14	1.58E-14	2.40E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203861	PLANT 1	07/03/18	Gross Alpha/Beta	Gross Alpha	3.77E-15	6.85E-15	1.16E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203861	PLANT 1	07/03/18	Gross Alpha/Beta	Gross Beta	2.72E-14	1.67E-14	2.45E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203862	PLANT 1	07/05/18	Gross Alpha/Beta	Gross Alpha	3.34E-15	8.39E-15	1.52E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203862	PLANT 1	07/05/18	Gross Alpha/Beta	Gross Beta	1.10E-14	1.93E-14	3.21E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203863	PLANT 1	07/09/18	Gross Alpha/Beta	Gross Alpha	3.80E-15	6.91E-15	1.17E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203863	PLANT 1	07/09/18	Gross Alpha/Beta	Gross Beta	3.30E-14	1.74E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203864	PLANT 1	07/10/18	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.92E-15	1.07E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203864	PLANT 1	07/10/18	Gross Alpha/Beta	Gross Beta	2.08E-14	1.50E-14	2.26E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203865	PLANT 1	07/11/18	Gross Alpha/Beta	Gross Alpha	-3.49E-15	3.25E-15	1.13E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203865	PLANT 1	07/11/18	Gross Alpha/Beta	Gross Beta	3.27E-14	1.69E-14	2.39E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203866	PLANT 1	07/12/18	Gross Alpha/Beta	Gross Alpha	1.27E-14	9.76E-15	1.20E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203866	PLANT 1	07/12/18	Gross Alpha/Beta	Gross Beta	5.07E-14	1.95E-14	2.53E-14	µCi/mL	=		Plant 1 (General Area)-Perimeter Air
SLD203867	PLANT 1	07/16/18	Gross Alpha/Beta	Gross Alpha	3.74E-15	1.67E-14	3.27E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203867	PLANT 1	07/16/18	Gross Alpha/Beta	Gross Beta	6.12E-14	4.55E-14	6.91E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203868	PLANT 1	07/17/18	Gross Alpha/Beta	Gross Alpha	1.74E-15	7.75E-15	1.52E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203868	PLANT 1	07/17/18	Gross Alpha/Beta	Gross Beta	1.713E-14	2.00E-14	3.21E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203869	PLANT 1	07/18/18	Gross Alpha/Beta	Gross Alpha	-1.13E-15	4.83E-15	1.17E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203869	PLANT 1	07/18/18	Gross Alpha/Beta	Gross Beta	3.06E-14	1.72E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203870	PLANT 1	07/19/18	Gross Alpha/Beta	Gross Alpha	-2.31E-15	4.07E-15	1.14E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203870	PLANT 1	07/19/18	Gross Alpha/Beta	Gross Beta	3.22E-14	1.70E-14	2.41E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203871	PLANT 1	07/23/18	Gross Alpha/Beta	Gross Alpha	2.31E-15	1.03E-14	2.02E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203871	PLANT 1	07/23/18	Gross Alpha/Beta	Gross Beta	4.05E-14	2.84E-14	4.26E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203952	PLANT 1	07/24/18	Gross Alpha/Beta	Gross Alpha	6.70E-15	1.22E-14	1.33E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD203952	PLANT 1	07/24/18	Gross Alpha/Beta	Gross Beta	3.42E-14	1.96E-14	2.64E-14	µCi/mL			Plant 1 (General Area)-Perimeter Air
SLD203952-1	PLANT 1	07/24/18	Gross Alpha/Beta	Gross Alpha	4.11E-15	1.16E-14	1.33E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD203952-1	PLANT 1	07/24/18	Gross Alpha/Beta	Gross Beta	2.59E-14	1.88E-14	2.64E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203953	PLANT 1	07/25/18	Gross Alpha/Beta	Gross Alpha	1.13E-14	1.26E-14	1.26E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203953	PLANT 1	07/25/18	Gross Alpha/Beta	Gross Beta	1.98E-14	1.73E-14	2.50E-14	µCi/mL	UJ	T04, T05	Plant 1 (General Area)-Perimeter Air
SLD203954	PLANT 1	07/26/18	Gross Alpha/Beta	Gross Alpha	4.07E-15	1.64E-14	1.92E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203954	PLANT 1	07/26/18	Gross Alpha/Beta	Gross Beta	5.07E-14	2.84E-14	3.83E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203955	PLANT 1	07/30/18	Gross Alpha/Beta	Gross Alpha	5.48E-15	1.21E-14	1.35E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203955	PLANT 1	07/30/18	Gross Alpha/Beta	Gross Beta	3.72E-14	2.01E-14	2.68E-14	µCi/mL	J	T04, T20	Plant 1 (General Area)-Perimeter Air
SLD203956	PLANT 1	07/31/18	Gross Alpha/Beta	Gross Alpha	9.28E-15	1.45E-14	1.54E-14	µCi/mL	UJ	T06	Plant 1 (General Area)-Perimeter Air
SLD203956	PLANT 1	07/31/18	Gross Alpha/Beta	Gross Beta	2.71E-14	2.15E-14	3.07E-14	µCi/mL	UJ	T04, T05	Plant 1 (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:

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.

T07 Radionuclide Quantitation: Negative analytical result where the absolute value exceeds 2 times the associated MDA.

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

Table B-4. SLDS Radon-222 Results for CY 2018

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS200289	BA-1	07/03/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
HIS207162	BA-1	01/03/19	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200309	DA-1	07/03/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207182	DA-1	01/03/19	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200309-1	DA-1 dup	07/03/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207182-1	DA-1 dup	01/03/19	Radiological	Rn-222	0.3	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200310	DA-2	07/03/18	Radiological	Rn-222	0.3	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207183	DA-2	01/03/19	Radiological	Rn-222	0.3	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200311	DA-3	07/03/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207184	DA-3	01/03/19	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200312	DA-6	07/03/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207185	DA-6	01/03/19	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD200313	DI-1	07/03/18	Radiological	Rn-222	0.6	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD200314	DI-2	07/03/18	Radiological	Rn-222	1.1	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2018
SLD207186	DI-1	01/03/19	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018
SLD207187	DI-2	01/03/19	Radiological	Rn-222	1.1	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2018

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.

APPENDIX C
STORM-WATER, WASTE-WATER, AND EXCAVATION-WATER DATA
(On the CD-ROM on the Back Cover of this Report)

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Table C-1. First Quarter Self-Monitoring Report for Excavation-Water Discharge at the SLDS During CY 2018

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-BK568	01/09/18 - 01/23/18 (Plant 6WH)	<19	pCi/L	24,060	8.7E-07	3,000 pCi/L	0.01
Gross Beta			34.7	pCi/L		3.2E-06	NA	
Th-228			<0.5	pCi/L		2.4E-08	2,000 pCi/L	
Th-230			<0.7	pCi/L		3.1E-08	1,000 pCi/L	
Th-232			<0.4	pCi/L		2.0E-08	300 pCi/L	
Uranium (KPA)			6.2	pCi/L		5.6E-07	3,000 pCi/L	
Ra-226 ^c			<2.3	pCi/L		1.0E-07	10 pCi/L	
Ra-228 ^{d,e}			<0.5	pCi/L		2.4E-08	30 pCi/L	
TSS			239.0	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK569	02/20/18 - 02/27/18 (Plant 6WH)	<13.9	pCi/L	190,907	5.0E-06	3,000 pCi/L	0.01
Gross Beta			<21.4	pCi/L		7.7E-06	NA	
Th-228			<0.7	pCi/L		2.6E-07	2,000 pCi/L	
Th-230			0.9	pCi/L		6.3E-07	1,000 pCi/L	
Th-232			<0.6	pCi/L		2.0E-07	300 pCi/L	
Uranium (KPA)			10.8	pCi/L		7.8E-06	3,000 pCi/L	
Ra-226 ^c			<2.1	pCi/L		7.7E-07	10 pCi/L	
Ra-228 ^{d,e}			<0.7	pCi/L		2.6E-07	30 pCi/L	
TSS			113.1	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK570	03/01/18 - 03/29/18 (Plant 6WH)	29.1	pCi/L	156,188	1.7E-05	3,000 pCi/L	0.01
Gross Beta			<24	pCi/L		7.1E-06	NA	
Th-228			<0.8	pCi/L		2.3E-07	2,000 pCi/L	
Th-230			<0.8	pCi/L		2.3E-07	1,000 pCi/L	
Th-232			<0.7	pCi/L		2.2E-07	300 pCi/L	
Uranium (KPA)			31.1	pCi/L		1.8E-05	3,000 pCi/L	
Ra-226 ^c			<2.3	pCi/L		6.8E-07	10 pCi/L	
Ra-228 ^{d,e}			<0.8	pCi/L		2.3E-07	30 pCi/L	
TSS			130.1	mg/L		-	-	

Total Activity Discharged in First Quarter of CY 2018 (Ci)

Th-228	5.1E-07
Th-230	8.9E-07
Th-232	4.4E-07
Uranium (KPA)	2.7E-05
Ra-226	1.6E-06
Ra-228 ^d	5.1E-07

Total Activity Discharged through 03/31/18 (Ci)

Th-228	5.1E-07
Th-230	8.9E-07
Th-232	4.4E-07
Uranium (KPA)	2.7E-05
Ra-226	1.6E-06
Ra-228 ^d	5.1E-07

Total Volume Discharged in First Quarter of CY 2018 (gallons)

Gallons	371,155
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Total Volume Discharged through 03/31/18 (gallons)

Gallons	371,155
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^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 C-1. Second Quarter Self-Monitoring Report for Excavation-Water Discharge at the SLDS During CY 2018

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-BK571	04/02/18 - 04/23/18 (Plant 6WH)	20.9	pCi/L	114,150	9.0E-06	3,000 pCi/L	0.01
Gross Beta			<27.5	pCi/L		5.9E-06	NA	
Th-228			<0.7	pCi/L		1.4E-07	2,000 pCi/L	
Th-230			<0.5	pCi/L		1.1E-07	1,000 pCi/L	
Th-232			<0.4	pCi/L		8.7E-08	300 pCi/L	
Uranium (KPA)			25.7	pCi/L		1.1E-05	3,000 pCi/L	
Ra-226 ^c			<2.2	pCi/L		4.7E-07	10 pCi/L	
Ra-228 ^{d,e}			<0.7	pCi/L		1.4E-07	30 pCi/L	
TSS			22.6	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK572	05/03/18 - 05/31/18 (Plant 6WH)	26.5	pCi/L	217,980	2.2E-05	3,000 pCi/L	0.01
Gross Beta			<27.5	pCi/L		1.1E-05	NA	
Th-228			<1	pCi/L		4.2E-07	2,000 pCi/L	
Th-230			<1.1	pCi/L		4.7E-07	1,000 pCi/L	
Th-232			<0.8	pCi/L		3.3E-07	300 pCi/L	
Uranium (KPA)			18.6	pCi/L		1.5E-05	3,000 pCi/L	
Ra-226 ^c			<2.6	pCi/L		1.1E-06	10 pCi/L	
Ra-228 ^{d,e}			<1	pCi/L		4.2E-07	30 pCi/L	
TSS			62.2	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK573	06/11/18 - 06/29/18 (Plant 6WH)	<25.1	pCi/L	272,355	1.3E-05	3,000 pCi/L	0.01
Gross Beta			<25.4	pCi/L		1.3E-05	NA	
Th-228			<0.9	pCi/L		4.8E-07	2,000 pCi/L	
Th-230			<0.8	pCi/L		4.2E-07	1,000 pCi/L	
Th-232			<0.7	pCi/L		3.5E-07	300 pCi/L	
Uranium (KPA)			8.2	pCi/L		8.4E-06	3,000 pCi/L	
Ra-226 ^c			<3	pCi/L		1.5E-06	10 pCi/L	
Ra-228 ^{d,e}			<0.9	pCi/L		4.8E-07	30 pCi/L	
TSS			136.2	mg/L		-	-	

Total Activity Discharged in Second Quarter of CY 2018 (Ci)

Th-228	1.0E-06
Th-230	1.0E-06
Th-232	7.6E-07
Uranium (KPA)	3.5E-05
Ra-226	3.1E-06
Ra-228 ^d	1.0E-06

Total Activity Discharged through 06/30/18 (Ci)

Th-228	1.6E-06
Th-230	1.9E-06
Th-232	1.2E-06
Uranium (KPA)	6.2E-05
Ra-226	4.6E-06
Ra-228 ^d	1.6E-06

Total Volume Discharged in Second Quarter of CY 2018 (gallons)

Gallons	604,485
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Total Volume Discharged through 06/30/18 (gallons)

Gallons	975,640
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^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 C-1. Third Quarter Self-Monitoring Report for Excavation-Water Discharge at the SLDS During CY 2018

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-BK574	07/02/18 - 07/26/18 (Plant 6WH)	<25.1	pCi/L	342,970	1.6E-05	3,000 pCi/L	0.01
Gross Beta			<26.5	pCi/L		1.7E-05	NA	
Th-228			<1.1	pCi/L		7.0E-07	2,000 pCi/L	
Th-230			0.7	pCi/L		9.0E-07	1,000 pCi/L	
Th-232			<0.9	pCi/L		6.2E-07	300 pCi/L	
Uranium (KPA)			11.3	pCi/L		1.5E-05	3,000 pCi/L	
Ra-226 ^c			<2.2	pCi/L		1.4E-06	10 pCi/L	
Ra-228 ^{d,e}			<1.1	pCi/L		7.0E-07	30 pCi/L	
TSS			123.8	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK575	08/02/18 - 08/30/18 (Plant 6WH)	30.5	pCi/L	207,725	2.4E-05	3,000 pCi/L	0.02
Gross Beta			<26.5	pCi/L		1.0E-05	NA	
Th-228			<3.7	pCi/L		1.5E-06	2,000 pCi/L	
Th-230			<1.5	pCi/L		5.7E-07	1,000 pCi/L	
Th-232			<0.7	pCi/L		2.8E-07	300 pCi/L	
Uranium (KPA)			28.2	pCi/L		2.2E-05	3,000 pCi/L	
Ra-226 ^c			<2	pCi/L		8.0E-07	10 pCi/L	
Ra-228 ^{d,e}			<3.7	pCi/L		1.5E-06	30 pCi/L	
TSS			48.1	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK576	09/04/18 - 09/27/18 (Plant 6WH)	37.0	pCi/L	228,670	3.2E-05	3,000 pCi/L	0.01
Gross Beta			<26.3	pCi/L		1.1E-05	NA	
Th-228			<1.1	pCi/L		4.6E-07	2,000 pCi/L	
Th-230			<2.3	pCi/L		9.9E-07	1,000 pCi/L	
Th-232			<0.6	pCi/L		2.6E-07	300 pCi/L	
Uranium (KPA)			22.3	pCi/L		1.9E-05	3,000 pCi/L	
Ra-226 ^c			<1.9	pCi/L		8.1E-07	10 pCi/L	
Ra-228 ^{d,e}			<1.1	pCi/L		4.6E-07	30 pCi/L	
TSS			128.1	mg/L		-	-	

Total Activity Discharged in Third Quarter of CY 2018 (Ci)

Th-228	2.6E-06
Th-230	2.5E-06
Th-232	1.2E-06
Uranium (KPA)	5.6E-05
Ra-226	3.0E-06
Ra-228 ^d	2.6E-06

Total Activity Discharged through 09/30/18 (Ci)

Th-228	4.2E-06
Th-230	4.3E-06
Th-232	2.4E-06
Uranium (KPA)	1.2E-04
Ra-226	7.7E-06
Ra-228 ^d	4.2E-06

Total Volume Discharged in Third Quarter of CY 2018 (gallons)

Gallons	779,365
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Total Volume Discharged through 09/30/18 (gallons)

Gallons	1,755,005
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^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 C-1. Fourth Quarter Self-Monitoring Report for Excavation-Water Discharge at the SLDS During CY 2018

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-BK577	10/01/18 - 10/31/18 (Plant 6WH)	<28.1	pCi/L	262,094	1.4E-05	3,000 pCi/L	0.01
Gross Beta			<25.8	pCi/L		1.3E-05	NA	
Th-228			<1	pCi/L		4.7E-07	2,000 pCi/L	
Th-230			0.5	pCi/L		4.6E-07	1,000 pCi/L	
Th-232			<0.8	pCi/L		4.1E-07	300 pCi/L	
Uranium (KPA)			24.9	pCi/L		2.5E-05	3,000 pCi/L	
Ra-226 ^c			<1.9	pCi/L		9.5E-07	10 pCi/L	
Ra-228 ^{d,e}			<1	pCi/L		4.7E-07	30 pCi/L	
TSS			46.7	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK578	11/01/18 - 11/28/18 (Plant 6WH)	38.5	pCi/L	182,090	2.7E-05	3,000 pCi/L	0.02
Gross Beta			<25.3	pCi/L		8.7E-06	NA	
Th-228			<1	pCi/L		3.6E-07	2,000 pCi/L	
Th-230			<0.5	pCi/L		1.9E-07	1,000 pCi/L	
Th-232			<0.9	pCi/L		3.1E-07	300 pCi/L	
Uranium (KPA)			35.5	pCi/L		2.4E-05	3,000 pCi/L	
Ra-226 ^c			<2.3	pCi/L		7.8E-07	10 pCi/L	
Ra-228 ^{d,e}			<1	pCi/L		3.6E-07	30 pCi/L	
TSS			37.8	mg/L		-	-	
Gross Alpha (raw water)	SLDS-BK579	12/03/18 - 12/31/18 (Plant 6WH)	45.0	pCi/L	241,062	4.1E-05	3,000 pCi/L	0.02
Gross Beta			<25.5	pCi/L		1.2E-05	NA	
Th-228			<0.8	pCi/L		3.4E-07	2,000 pCi/L	
Th-230			<0.6	pCi/L		2.6E-07	1,000 pCi/L	
Th-232			<0.4	pCi/L		1.9E-07	300 pCi/L	
Uranium (KPA)			38.6	pCi/L		3.5E-05	3,000 pCi/L	
Ra-226 ^c			<2.3	pCi/L		1.1E-06	10 pCi/L	
Ra-228 ^{d,e}			<0.8	pCi/L		3.4E-07	30 pCi/L	
TSS			36.8	mg/L		-	-	

Total Activity Discharged in Fourth Quarter of CY 2018 (Ci)

Th-228	1.2E-06
Th-230	9.0E-07
Th-232	9.1E-07
Uranium (KPA)	8.4E-05
Ra-226	2.8E-06
Ra-228 ^d	1.2E-06

Total Activity Discharged through 12/31/18 (Ci)

Th-228	5.4E-06
Th-230	5.2E-06
Th-232	3.3E-06
Uranium (KPA)	2.0E-04
Ra-226	1.0E-05
Ra-228 ^d	5.4E-06

Total Volume Discharged in Fourth Quarter of CY 2018 (gallons)

Gallons	685,246
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Total Volume Discharged through 12/31/18 (gallons)

Gallons	2,440,251
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^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)

APPENDIX D

**GROUND-WATER FIELD PARAMETER DATA FOR CALENDAR YEAR 2018
AND ANALYTICAL DATA RESULTS FOR CALENDAR YEAR 2018**

(On the CD-ROM on the Back Cover of this Report)

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Table D-1. Ground-Water Monitoring First Quarter 2018- Field Parameters for the SLDS

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 02/15/18
B16W06D	---	---	---	---	---	---	---	---	---	---	40.52
B16W06S	---	---	---	---	---	---	---	---	---	---	39.13
B16W07D	02/15/18	270	2430	6.84	0.209	38.5	7.76	16.9	-71	42.5	42.5
B16W08D	---	---	---	---	---	---	---	---	---	---	42.88
B16W08S	---	---	---	---	---	---	---	---	---	---	35.86
B16W09D	---	---	---	---	---	---	---	---	---	---	37.94
B16W12S	---	---	---	---	---	---	---	---	---	---	18.74
DW14	---	---	---	---	---	---	---	---	---	---	*
DW15	---	---	---	---	---	---	---	---	---	---	43.43
DW16	---	---	---	---	---	---	---	---	---	---	39.12
DW17	---	---	---	---	---	---	---	---	---	---	*
DW18	---	---	---	---	---	---	---	---	---	---	44.2
DW21	---	---	---	---	---	---	---	---	---	---	15.75

Table D-1. Ground-Water Monitoring Second Quarter 2018 - Field Parameters for the SLDS

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 05/17/18
B16W06D	---	---	---	---	---	---	---	---	---	---	20.23
B16W06S	---	---	---	---	---	---	---	---	---	---	23.41
B16W07D	---	---	---	---	---	---	---	---	---	---	22.7
B16W08D	---	---	---	---	---	---	---	---	---	---	22.78
B16W08S	---	---	---	---	---	---	---	---	---	---	23.1
B16W09D	---	---	---	---	---	---	---	---	---	---	18.74
B16W12S	05/17/18	85	765	6.43	0.171	26.1	7.64	17.1	214	16.01	15.61
DW14	---	---	---	---	---	---	---	---	---	---	**
DW15	05/17/18	1,000	2,000	6.13	0.268	27.1	7.97	20.1	206	24.4	24.39
DW16	---	---	---	---	---	---	---	---	---	---	19.8
DW17	---	---	---	---	---	---	---	---	---	---	18.33
DW18	---	---	---	---	---	---	---	---	---	---	24.13
DW21	---	---	---	---	---	---	---	---	---	---	10.81

Table D-1. Ground-Water Monitoring Third Quarter 2018 - Field Parameters for the SLDS

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 08/15/18
B16W06D	---	---	---	---	---	---	---	---	---	---	30.81
B16W06S	---	---	---	---	---	---	---	---	---	---	30.69
B16W07D	---	---	---	---	---	---	---	---	---	---	32.93
B16W08D	---	---	---	---	---	---	---	---	---	---	33.28
B16W08S	---	---	---	---	---	---	---	---	---	---	28.16
B16W09D	---	---	---	---	---	---	---	---	---	---	28.44
B16W12S	---	---	---	---	---	---	---	---	---	---	15.3
DW14	---	---	---	---	---	---	---	---	---	---	22.7
DW15	---	---	---	---	---	---	---	---	---	---	34.04
DW16	---	---	---	---	---	---	---	---	---	---	29.73
DW17	---	---	---	---	---	---	---	---	---	---	28.58
DW18	---	---	---	---	---	---	---	---	---	---	34.49
DW21	08/15/18	50	600	6.31	0.366	30.3	4.56	19.9	-141	10.59	10.23

Table D-1. Ground-Water Monitoring Fourth Quarter 2018 - Field Parameters for the SLDS

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity ($\mu\text{S}/\text{cm}$)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 11/13/18
B16W06D	---	---	---	---	---	---	---	---	---	---	21.08
B16W06S	11/13/18	100	1,500	6.64	0.134	109	3.47	14.1	-110	23.33	22.51
B16W07D	---	---	---	---	---	---	---	---	---	---	23.44
B16W08D	---	---	---	---	---	---	---	---	---	---	23.6
B16W08S	---	---	---	---	---	---	---	---	---	---	20.62
B16W09D	11/14/18	300	3,600	6.33	0.375	74.7	3.5	17.5	-112	19.39	19.28
B16W12S	---	---	---	---	---	---	---	---	---	---	15.21
DW14	11/14/18	---	2,500	6.47	0.502	93.5	7	13	-25	16.7	16.43
DW15	11/14/18	---	1,000	6.6	0.289	72.6	9.25	12.2	-51	25	24.91
DW16	11/13/18	300	2,700	6.7	0.148	609	3.39	15.8	-84	20.39	20.4
DW17	---	---	---	---	---	---	---	---	---	---	19.03
DW18	11/13/18	300	3,600	6.78	0.173	69.9	3.89	15.5	-140	24.98	24.98
DW21	---	---	---	---	---	---	---	---	---	---	9.18

* Measurement could not be taken. Dry to top of bladder pump, water level below pump.

** Measurement could not be taken at DW14 during 2Q2018 because well was obstructed.

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

BTOC - below top of casing

DO - dissolved oxygen

ORP - oxidation reduction potential

Table D-2. CY 2018 Ground-Water Sampling Data for the SLDS

Site: SLDS												
Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered	
SLD208648	B16W06S	11/13/18	SW846 6020	Arsenic	260		4	µg/L	=		No	
SLD208648	B16W06S	11/13/18	SW846 6020	Cadmium	1.6		0.2	µg/L	=		No	
SLD200659	B16W07D	02/15/18	SW846 6020	Arsenic	29		4	µg/L	=		No	
SLD200659	B16W07D	02/15/18	SW846 6020	Cadmium	2		0.2	µg/L	=		No	
SLD200659	B16W07D	02/15/18	ML-006	Ra-226	-0.0783	0.717	2.47	pCi/L	UJ	T06	No	
SLD200659	B16W07D	02/15/18	ML-005	Th-228	0.328	0.338	0.437	pCi/L	UJ	T06	No	
SLD200659	B16W07D	02/15/18	ML-005	Th-230	0.0729	0.231	0.537	pCi/L	UJ	T06	No	
SLD200659	B16W07D	02/15/18	ML-005	Th-232	0	0	0.197	pCi/L	U		No	
SLD200659	B16W07D	02/15/18	ML-015	U-234	0.97	0.528	0.175	pCi/L	J	T04, T20	No	
SLD200659	B16W07D	02/15/18	ML-015	U-235	-0.0399	0.08	0.478	pCi/L	UJ	T06	No	
SLD200659	B16W07D	02/15/18	ML-015	U-238	1.22	0.599	0.174	pCi/L	J	F01	No	
SLD208649	B16W09D	11/14/18	SW846 6020	Arsenic	16		4	µg/L	=		No	
SLD208649	B16W09D	11/14/18	SW846 6020	Cadmium	0.36		0.2	µg/L	=		No	
SLD208649	B16W09D	11/14/18	ML-006	Ra-226	1	0.995	1.24	pCi/L	J	T04, T20	No	
SLD208649	B16W09D	11/14/18	ML-005	Th-228	0	0.33	0.612	pCi/L	UJ	T06	No	
SLD208649	B16W09D	11/14/18	ML-005	Th-230	0.821	0.514	0.477	pCi/L	J	T04, T20	No	
SLD208649	B16W09D	11/14/18	ML-005	Th-232	0.072	0.204	0.53	pCi/L	UJ	T06	No	
SLD208649	B16W09D	11/14/18	ML-015	U-234	0.689	0.469	0.449	pCi/L	J	T04, T20	No	
SLD208649	B16W09D	11/14/18	ML-015	U-235	-0.0335	0.194	0.759	pCi/L	UJ	T06	No	
SLD208649	B16W09D	11/14/18	ML-015	U-238	0.857	0.535	0.573	pCi/L	J	T04, T20	No	
SLD203630	B16W12S	05/17/18	SW846 6020	Arsenic	4		4	µg/L	U		No	
SLD203630	B16W12S	05/17/18	SW846 6020	Cadmium	1		0.2	µg/L	=		No	
SLD203630	B16W12S	05/17/18	ML-006	Ra-226	0	0	1.16	pCi/L	U		No	
SLD203630	B16W12S	05/17/18	ML-005	Th-228	0.125	0.216	0.459	pCi/L	UJ	T06	No	
SLD203630	B16W12S	05/17/18	ML-005	Th-230	0.265	0.286	0.45	pCi/L	UJ	T06	No	
SLD203630	B16W12S	05/17/18	ML-005	Th-232	-0.0156	0.128	0.331	pCi/L	UJ	T06	No	
SLD203630	B16W12S	05/17/18	ML-015	U-234	3.56	1.3	0.475	pCi/L	J	F01	No	
SLD203630	B16W12S	05/17/18	ML-015	U-235	0.0828	0.228	0.586	pCi/L	UJ	T06	No	
SLD203630	B16W12S	05/17/18	ML-015	U-238	4.79	1.57	0.473	pCi/L	=		No	
SLD208650	DW14	11/14/18	SW846 6020	Arsenic	130		4	µg/L	=		No	

Table D-2. CY 2018 Ground-Water Sampling Data for the SLDS

Site: SLDS											
Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered
SLD208650	DW14	11/14/18	SW846 6020	Cadmium	0.77		0.2	µg/L	=		No
SLD208650	DW14	11/14/18	ML-006	Ra-226	1.94	1.11	1.21	pCi/L	J	T04, T20	No
SLD208650	DW14	11/14/18	ML-005	Th-228	1.07	0.564	0.527	pCi/L	J	T04, T20	No
SLD208650	DW14	11/14/18	ML-005	Th-230	0.377	0.346	0.509	pCi/L	UJ	T04, T05	No
SLD208650	DW14	11/14/18	ML-005	Th-232	-0.024	0.131	0.367	pCi/L	UJ	T06	No
SLD208650	DW14	11/14/18	ML-015	U-234	0.42	0.357	0.32	pCi/L	J	T04, T20	No
SLD208650	DW14	11/14/18	ML-015	U-235	0.233	0.311	0.508	pCi/L	UJ	T06	No
SLD208650	DW14	11/14/18	ML-015	U-238	0.689	0.463	0.41	pCi/L	J	T04, T20	No
SLD203631	DW15	05/17/18	SW846 6020	Arsenic	4		4	µg/L	U		No
SLD203631	DW15	05/17/18	SW846 6020	Cadmium	5.4		0.2	µg/L	=		No
SLD203631	DW15	05/17/18	ML-006	Ra-226	0	0	2.14	pCi/L	U		No
SLD203631	DW15	05/17/18	ML-005	Th-228	0	0	0.867	pCi/L	U		No
SLD203631	DW15	05/17/18	ML-005	Th-230	0.185	0.247	0.453	pCi/L	UJ	T06	No
SLD203631	DW15	05/17/18	ML-005	Th-232	-0.0614	0.138	0.486	pCi/L	UJ	T06	No
SLD203631	DW15	05/17/18	ML-015	U-234	0.841	0.523	0.516	pCi/L	J	F01, T04, T20	No
SLD203631	DW15	05/17/18	ML-015	U-235	0.0864	0.245	0.636	pCi/L	UJ	T06	No
SLD203631	DW15	05/17/18	ML-015	U-238	0.628	0.453	0.513	pCi/L	J	T04, T20	No
SLD208651	DW15	11/14/18	SW846 6020	Arsenic	4		4	µg/L	U		No
SLD208651	DW15	11/14/18	SW846 6020	Cadmium	2.5		0.2	µg/L	=		No
SLD208652	DW16	11/13/18	SW846 6020	Arsenic	230		4	µg/L	=		No
SLD208652	DW16	11/13/18	SW846 6020	Cadmium	1.2		0.2	µg/L	=		No
SLD208653	DW18	11/13/18	SW846 6020	Arsenic	120		4	µg/L	=		No
SLD208653	DW18	11/13/18	SW846 6020	Cadmium	0.49		0.2	µg/L	=		No
SLD208653	DW18	11/13/18	ML-006	Ra-226	0.175	0.453	1.14	pCi/L	UJ	T06	No
SLD208653	DW18	11/13/18	ML-005	Th-228	0.283	0.306	0.52	pCi/L	UJ	T06	No
SLD208653	DW18	11/13/18	ML-005	Th-230	0.352	0.304	0.317	pCi/L	J	T04, T20	No
SLD208653	DW18	11/13/18	ML-005	Th-232	0.115	0.174	0.272	pCi/L	UJ	T06	No
SLD208653	DW18	11/13/18	ML-015	U-234	0.213	0.247	0.377	pCi/L	UJ	T06	No
SLD208653	DW18	11/13/18	ML-015	U-235	0.047	0.154	0.431	pCi/L	UJ	T06	No
SLD208653	DW18	11/13/18	ML-015	U-238	0.0531	0.122	0.27	pCi/L	UJ	T06	No

Table D-2. CY 2018 Ground-Water Sampling Data for the SLDS

Site: SLDS												
Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Filtered	
SLD205332	DW21	08/15/18	SW846 6020	Arsenic	87		4	µg/L	=		No	
SLD205332	DW21	08/15/18	SW846 6020	Cadmium	0.2		0.2	µg/L	U		No	
SLD205332	DW21	08/15/18	ML-006	Ra-226	0	0	1.47	pCi/L	U		No	
SLD205332	DW21	08/15/18	ML-005	Th-228	0.169	0.24	0.431	pCi/L	UJ	T06	No	
SLD205332	DW21	08/15/18	ML-005	Th-230	0	0	1.52	pCi/L	U		No	
SLD205332	DW21	08/15/18	ML-005	Th-232	0	0	0.183	pCi/L	U		No	
SLD205332	DW21	08/15/18	ML-015	U-234	0	0	0.665	pCi/L	U		No	
SLD205332	DW21	08/15/18	ML-015	U-235	0	0	0.24	pCi/L	U		No	
SLD205332	DW21	08/15/18	ML-015	U-238	0.214	0.287	0.525	pCi/L	UJ	T06	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:

- 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 uncertainty 50 to 100 percent of the result.

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APPENDIX E

**WELL MAINTENANCE CHECKLISTS FOR THE ANNUAL
GROUND-WATER MONITORING WELL INSPECTIONS CONDUCTED
AT THE ST. LOUIS DOWNTOWN SITE IN CALENDAR YEAR 2018**

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Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1235

Monitoring Well Station Identification: B16W06D SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 26.48'

Sounding: 82.72' Semi-soft Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1225

Monitoring Well Station Identification: B16W06S SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 28.54'

Sounding: 45.68' Solid Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1055

Monitoring Well Station Identification: B16W07D SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 28.96'

Sounding: 82.40' Semi-soft Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1245

Monitoring Well Station Identification: B16W08D SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 29.10'

Sounding: 75.02' Solid Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1255

Monitoring Well Station Identification: B16W08S SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 28.81'

Sounding: 40.94' Soft Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1300

Monitoring Well Station Identification: B16W09D SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 24.98'

Sounding: 55.81' Soft Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1115

Monitoring Well Station Identification: B16W12S SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

Paint lid and re-mark/label the well ID on the lid.

Water Level: 17.36'

Sounding: 19.91' Solid Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1330

Monitoring Well Station Identification: DW14 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13. Is riser cap present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17. Do the locks work properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments / Observations regarding this well.

Well inaccessible and covered by pallets and gas cylinders. The well will be inspected during the summer event and any deficiencies will be corrected at that time.

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1120

Monitoring Well Station Identification: DW15 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

Added a new compression cap.

Paint and re-mark/label the well ID on the lid.

Faulty bladder pump removed from the well during the 4Q17 monitoring event.

Water Level: 30.76'

Sounding: 63.49'

* - SLAPS and SLAPS Vicinity Properties (VPs)

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1030

Monitoring Well Station Identification: DW16 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

Well pad loose and unstable. Needs replacement.

Water Level: 26.15'

Sounding: 49.52' Solid Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1045

Monitoring Well Station Identification: DW17 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

Flush mount well is located in a low area and grey sediment is infiltrating the well.

Recommend retrofitting to stick up well and redeveloping the well before taking samples

Water Level: 24.65'

Sounding: 42.00' Soft Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1105

Monitoring Well Station Identification: DW18 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 30.31'

Sounding: 57.93' Solid Bottom

Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/12/18 Time: 1030

Monitoring Well Station Identification: DW21 SLAPS* SLDS HISS

	Yes	No	N/A
1. Is well identification number visible on outer casing for a stick up well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is well identification visible on top of well casing for flush mount well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is well accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Is well covered/surrounded by vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Is there standing water or debris inside well casing? If so, remove water.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Is the weep hole open? If not, clear blockage.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Is the protective casing dented, damaged, rusted, or covered in other matter (i.e., bird droppings)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Is the riser casing dented or damaged?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Is the concrete pad intact (free of cracks, chips, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Does the pad move or is it unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. Are there gaps between pad and well casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Are there signs of erosion around the well or pad?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Is riser cap present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Do the wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15. Do the flush mount wells in the Mississippi River and Coldwater Creek floodplain have a properly working pressure cap?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16. Is the well secure (shut properly or locked, if applicable)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. Do the locks work properly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Are the locks rusted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Does surface water flow away from well casing (i.e., no ponding)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Is TOC elevation mark clearly visible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Has there been a change in land use that impacts the well? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
22. Will the well need any type of attention before the next groundwater surface measurement? If yes, describe in comment section.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Comments / Observations regarding this well.

None.

Water Level: 11.89'

Sounding: 22.17' Solid Bottom

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APPENDIX F
DOSE ASSESSMENT ASSUMPTIONS

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DOSE ASSESSMENT ASSUMPTIONS

DOSE FROM THE ST. LOUIS DOWNTOWN SITE 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 southeast of the Mallinckrodt fenceline (DT-10), 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 southeast of the Mallinckrodt fenceline (DT-10) and between 80 to 325 m from the SLDS loadout area and excavation areas.

Airborne Radioactive Particulates

An EDE 0.2 mrem per year to the receptor was calculated by using activity fractions to determine a source term, and then combining the dose results for Heintz Steel (DT-6), Destrehan Street, Plant 1, Gunther Salt (DT-4), and Plant 6 Loadout. The USEPA CAP88-PC modeling code was used to calculate dose to the receptor from the SLDS excavation areas and loadout area (Leidos 2019). The distances and directions of the maximally exposed receptor from the excavated areas are presented on Figure A-1 of Appendix A. Details related to calculation of EDE for the maximally exposed receptor are contained in Appendix A.

External Gamma Pathway

Because station DA-2 was the closest TLD to the receptor, the TLD results from this location were used for the dose calculations. The station DA-2 TLD measured an annual exposure, above background, of 0.0 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).

$$H_1 = 0.0 \text{ mrem/year}$$

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

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

$$H_2 = 0.0 \text{ mrem/year}$$

where:

H_2 = exposure rate to the receptor

H_1 = exposure rate to the TLDs

h_2 = distance from the source to the receptor = 80 m

h_1 = distance from the source to the TLDs = 30 m

L = average distance from centerline of the line source (H_1) to the end of the line source = 150 m

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

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

$$H_{MEI} = 0.0 \text{ mrem/year}$$

Airborne Radon Pathway

Like external gamma calculations, only the radon data from station DA-2 were used to determine dose due to radon and progeny. Appendix B presents the radon results at all stations. Station DA-2 ATDs measured annual exposures above background of 0.1 pCi/L based on 8,760 hours of continuous exposure. Exposure to the receptor from radon (and progeny) was estimated using a dispersion factor (C_2) and the average ATD monitoring data at the site perimeter between the source and the receptor.

In order to calculate the dispersion factor, the radon concentrations were determined to a receptor located at 1.0 m and 50 m, southeast of the SLDS by inputting a radon release rate of 1.0 Ci per year, the St. Louis – Lambert International Airport wind file, and a surface area of 2042 m² into the CAP88-PC model. Effective surface area was determined by summing the time-weighted average annual open surface areas for all SLDS excavation areas and loadout. The CAP88-PC input data and the result of the CAP88-PC run are highlighted and presented in Appendix A. The radon dispersion factor (C_2) for the site was calculated as follows:

$$C_2 = 0.00679/0.0449 = 0.15$$

The average of ATD monitoring data (S_1) at the site perimeter (Plant 7/DT-10 fenceline) was calculated as follows:

$$S_1 = \left[\frac{(0.1) \text{ pCi/L}}{1} \right] = 0.1 \text{ pCi/L}$$

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

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

$$S_{MEI} = 1.6 \text{ mrem/year}$$

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
- WL = working level (concentration unit)
- WLM = working level month (exposure unit)

Total Effective Dose Equivalent

TEDE = CEDE (airborne particulates) + HMEI (external gamma) + SMEI (airborne radon)

$$\text{TEDE} = 0.2 \text{ mrem/year} + 0.0 \text{ mrem/year} + 1.6 \text{ mrem/year} = 1.8 \text{ mrem/year}$$

where:

CEDE = committed effective dose equivalent

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