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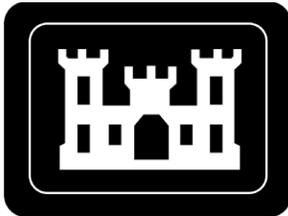
**REVISION 0**

**ST. LOUIS DOWNTOWN SITE  
ANNUAL ENVIRONMENTAL  
MONITORING DATA AND ANALYSIS  
REPORT FOR CALENDAR YEAR 2017**

**ST. LOUIS, MISSOURI**

**JUNE 21, 2018**

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**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

*with assistance from:*

Leidos, Inc.  
under Contract No. W912P9-17-D-0014, Delivery Order 0001



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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
<i>CFR</i>	<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>
EMICY17	<i>Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2017</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 <sup>3</sup>	cubic yard(s)

## EXECUTIVE SUMMARY

This annual Environmental Monitoring Data and Analysis Report (EMDAR) for calendar year (CY) 2017 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 2017, 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 2017* (EMICY17) (USACE 2016) was conducted as planned during CY 2017. 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 EMICY17. 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 less than 0.1 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 2017 was the 19th 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, and July 18, 2016 (MSD 2006, 2008, 2010, 2012, 2014, 2016). This authorization expires July 23, 2018 (MSD 2016). During CY 2017, no exceedances of the MSD limits occurred at the SLDS.

## **GROUND-WATER MONITORING**

Ground water was sampled during CY 2017 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 EMICY17. 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 EMICY17 and in Section 4.0 of this EMDAR. For those stations where an analyte exceeded the ground-water criteria at least once during CY 2017 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 2017, three hydrostratigraphic unit (HU)-A monitoring wells (B16W06S, B16W08S, and DW21) were sampled (Figure 4-3). B16W06S was sampled for arsenic, cadmium, and for radionuclides (Ra-226, Ra-228, thorium [Th]-228, Th-230, Th-232, uranium [U]-234, U-235, and U-238) in the second quarter. B16W08S was sampled for arsenic, cadmium, and radionuclides in the second quarter. DW21 was sampled for arsenic and cadmium in the first and third quarters. Trend analysis was conducted for arsenic in B16W06S and DW21 and total U in B16W08S. 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 B16W06S and DW21. An increasing trend for total U in B16W08S was also 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 2017.

During CY 2017, seven HU-B (Mississippi Alluvial Aquifer) monitoring wells (B16W06D, 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 2017: arsenic in DW14, DW15, 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 DW15 and a statistically significant upward trend in DW18. The Mann-Kendall Trend Test results also indicate a statistically significant upward trend for cadmium in DW15. Trend analysis was not conducted for cadmium in B16W07D because the historical results were generally within the range of measurement error of their DLs.

Potentiometric surface maps were created from ground-water elevations measured in May and November 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) 2017 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 2017, and provide analysis of the CY 2017 environmental monitoring data results. This EMDAR presents the following information:

- Sample collection data for various media at the SLDS and interpretation of CY 2017 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 2017* [EMICY17] [USACE 2016]);
- 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 2017, the following USACE SLDS documents were finalized:

- *CY 2016 Fourth Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri* (February);
- *Remedial Design/Remedial Action Work Description, Mallinckrodt Plant 1 Former Building 17 Area, Supplement No. 1 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site, FUSRAP St. Louis Downtown Site, St. Louis, Missouri* (April 11);
- *Summary of Pre-Design Investigation Data for Mallinckrodt Plant 1 Former Building 17 Area, Appendix A of the Remedial Design/Remedial Action Work Description, Mallinckrodt Plant 1 Former Building 17 Area, Supplement No. 1 to the Remedial Action Work Plan for Selective Remediation at the St. Louis Downtown Site, FUSRAP St. Louis Downtown Site, St. Louis, Missouri.* (May 2);
- *CY 2017 First Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri* (May);
- *St. Louis Downtown Site Annual Environmental Monitoring Data and Analysis Report for CY 2016, St. Louis, Missouri* (July 21);
- *CY 2017 Second Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri* (August);
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Vicinity Property DT-31, St. Louis, Missouri* (September 13);
- *Post-Remedial Action Report and Final Status Survey Evaluation for the Accessible Soil within the St. Louis Downtown Site Plant 7 North and Plant 7 South Properties, St. Louis, Missouri* (September 27);
- *CY 2017 Third Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri* (November); and
- *Environmental Monitoring Implementation Plan for the St. Louis Downtown Site for Calendar Year 2018, St. Louis, Missouri* (December 15)

### **1.3.1 St. Louis Downtown Site Calendar Year 2017 Remedial Actions**

During CY 2017, RAs were performed at the following SLDS properties (Figure 1-2): Plant 6 West Half (henceforth referred to as Plant 6WH) Building 101, Destrehan Street, Plant 7 West (henceforth referred to as Plant 7W), and Plant 1 (Former Building 17 Area). RAs at Plant 6WH Building 101, Destrehan Street, and Plant 7W continued throughout the year and RAs at Plant 1 started in the second quarter and continued through the fourth quarter. A total of 14,947 yd<sup>3</sup> of contaminated material were shipped from the SLDS via railcar to US Ecology in Idaho for proper disposal.

*Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)* (DOD 2000) Class 1 verifications were performed at Plant 1 Building 17 (survey unit [SU]-1), Plant 6WH (SU-19), and Destrehan Street (SU-1, SU-2, SU-3, and SU-4) during CY 2017.

No MARSSIM Class 2 or Class 3 verifications were performed during CY 2017. 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 Plant 1 Building 17, Porter Poultry Vicinity Property (DT-31), Terminal Railroad Association Vicinity Property (DT-9), Gunther Salt North Vicinity Property (DT-4), and the Gunther Salt – Kiesel Property during CY 2017.

No monitoring wells were decommissioned in CY 2017.

In accordance with the Metropolitan St. Louis Sewer District (MSD) authorization letter for the SLDS, 1,962,146 gallons of excavation water were discharged in CY 2017. Since the beginning of the project, 27,867,494 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 2017.

All radiological air monitoring required through implementation of the EMICY17 (USACE 2016) was conducted as planned during CY 2017. 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 less than 0.1 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 2017 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 2017 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 weekly or more frequently.

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

The SLDS CY 2017 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 2017 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 an 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 concentration above background as listed in 40 *CFR* 192.02(b)(2).

CY 2017 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 an off-site laboratory for analysis.

CY 2017 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 2017 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 2017 at the SLDS is shown in Table 2-1. TLD data are located in Appendix B, Table B-2, of this EMDAR.

**Table 2-1. Summary of SLDS Gamma Radiation Data for CY 2017**

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2017 Net TLD Data (mrem/year)
		(mrem/quarter)								
		Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	
SLDS Perimeter	DA-1	17.7	0	15.9	0	17.8	0	17.6	0	0
	DA-1 <sup>c</sup>	17.1	0	16.3	0	17.9	0	17.6	0	0
	DA-2	18.4	0	19.3	0	19.6	0	19.7	0	0
	DA-3	17.8	0	18.9	0	20.1	0	20.5	0.2	0.2
	DA-6	19.7	0	20.0	0.6	20.7	0.7	19.4	0	1.3

**Table 2-1. Summary of SLDS Gamma Radiation Data for CY 2017 (Continued)**

Monitoring Location	Monitoring Station	First Quarter TLD Data		Second Quarter TLD Data		Third Quarter TLD Data		Fourth Quarter TLD Data		CY 2017 Net TLD Data (mrem/year)
		(mrem/quarter)								
		Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	Rpt.	Cor. <sup>a,b</sup>	
Background	BA-1	19.8	---	19.4	---	20.1	---	20.3	---	---

<sup>a</sup> All quarterly data reported from the vendor have been normalized to exactly one quarter's exposure above background.

<sup>b</sup> CY 2017 net TLD data are corrected for background, shelter absorption ( $s/a = 1.075$ ), and fade.

<sup>c</sup> 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 2017 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 2017 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 2017**

Monitoring Location	Average Concentration ( $\mu\text{Ci/mL}$ )	
	Gross Alpha	Gross Beta
Destrehan Street	4.01E-15	2.71E-14
Plant 1, Building 17	6.79E-15	2.84E-14
Plant 6 Loadout	3.73E-15	2.86E-14
Background Concentration <sup>a</sup> (BA-1)	4.93E-15	2.13E-14

<sup>a</sup> 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 0.0 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 2017**

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/04/17 to 07/05/17 <sup>a</sup> (uncorrected)	07/05/17 to 01/09/18 <sup>a</sup> (uncorrected)	Average Annual Concentration <sup>b</sup>
SLDS	DA-1	0.2	0.2	0
	DA-1 <sup>c</sup>	0.2	0.2	0
	DA-2	0.2	0.2	0
	DA-3	0.2	0.2	0
	DA-6	0.2	0.5	0.15
Background	BA-1	0.2	0.2	---

<sup>a</sup> Detectors were installed and removed on the dates listed. Data are as reported from the vendor (gross data including background).

<sup>b</sup> Results reported from vendor for two periods are time-weighted and averaged to estimate an annual average radon concentration (pCi/L) above background.

<sup>c</sup> 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 2017 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 2018). 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 2017**

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)			WL <sup>c</sup>
		01/04/17 to 07/05/17 <sup>a</sup>	07/05/17 to 01/09/18 <sup>a</sup>	Annual Average <sup>b</sup>	
Plant 1, Building 26	DI-1	1.3	0.8	1.05	0.004
DT-4 North, South Storage Building	DI-2	1.1	1.2	1.15	0.005

<sup>a</sup> Detectors were installed and removed on the dates listed. Data are as reported from the vendor.

<sup>b</sup> Results reported from vendor for two periods are averaged to estimate an annual average radon concentration (pCi/L).

<sup>c</sup> 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 2017. 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 inlet 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). 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; and June 23, 2014, 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; and July 23, 2016, respectively (MSD 2008, 2010, 2012, 2014). On July 18, 2016, the MSD issued an extension to the special discharge authorization for the SLDS that remains in effect until July 23, 2018 (MSD 2016). The results obtained from these monitoring activities are presented and evaluated with respect to the discharge limits described in the EMICY17 (USACE 2016).

Section 2.2.2 of the EMICY17 outlines the parameters and annual average discharge limits for the excavation-water discharges at the SLDS (USACE 2016). 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 2017, 1,962,146 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 2017 excavation-water discharges is provided in Table 3-1. All excavation-water discharge monitoring required through implementation of the EMICY17 was conducted as planned during CY 2017. The evaluation of monitoring data demonstrates compliance with all MSD criteria.

**Table 3-1. Excavation Water Discharged at the SLDS in CY 2017**

Quarter	Number of Discharges	Number of Gallons Discharged <sup>a</sup>	Total Activity (Ci)		
			Thorium <sup>b</sup>	Uranium (KPA) <sup>c</sup>	Radium <sup>d</sup>
1	3	210,521	3.5E-06	1.7E-05	1.3E-06
2	3	1,254,218	1.3E-05	1.3E-04	6.5E-06
3	3	397,967	8.8E-06	3.3E-05	2.0E-06
4	3	99,440	3.7E-07	8.4E-06	4.3E-07
Annual Totals	12	1,962,146	2.5E-05	1.9E-04	1.0E-05

<sup>a</sup> Quantities based on actual quarterly discharges from the SLDS.

<sup>b</sup> Calculated value based on the addition of isotopic analyses: thorium (Th)-228, Th-230, and Th-232.

<sup>c</sup> Activity based on total U results (kinetic phosphorescence analysis [KPA]).

<sup>d</sup> Calculated value based on the addition of isotopic analyses: Ra-226 and Ra-228.

## 4.0 GROUND-WATER MONITORING DATA

During CY 2017, 10 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 2017 sampling at the SLDS are presented in Appendix D, Table D-1. The SLDS ground-water analytical sampling results for CY 2017 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 2017 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 2017 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 wells B16W06S and DW21. The Mann-Kendall Trend Test results also indicate there is a statistically significant upward trend for total uranium in HU-A well B16W08S. No other significant changes in the concentrations of the COCs occurred in shallow ground water during CY 2017.

During CY 2017, 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 HU-B wells DW14 (110 µg/L in the second quarter), DW15 (53 µg/L in the fourth quarter) and DW18 (71 µg/L in the second quarter and 91 µg/L in the fourth quarter). The

cadmium concentration exceeded the IL (5 µg/L) in the first-quarter sample from B16W07D (6.6 µg/L) and the second- and third-quarter samples from DW15 (34.0 µg/L, and 14.0 µg/L, respectively).

The Mann-Kendall Trend Test results for the HU-B wells indicate a statistically significant upward trend in arsenic concentrations in DW18, and a statistically significant downward trend in the arsenic concentrations in DW14 and DW15. 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 2017.

#### **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 2017, ten monitoring wells (three HU-A and seven 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 2017. Ground-water sampling at the SLDS was conducted on February 15 (first quarter); May 24 (second quarter); August 16 (third quarter); and November 15 and 16 (fourth quarter) of CY 2017. The CY 2017 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 2017 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 9, 2017.

**Table 4-1. Screened HUs for SLDS Ground-Water Monitoring Wells in CY 2017**

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

<sup>a</sup> Wells sampled in CY 2017.

<sup>b</sup> DW19 was decommissioned in August 2016. Installation of a replacement well is planned after remediation activities are completed at Plant 6.

#### 4.2.1 Evaluation of HU-A Ground-Water Monitoring Data

The results of the CY 2017 ground-water sampling of HU-A ground water at the SLDS are summarized in Table 4-2. During CY 2017, three HU-A monitoring wells (B16W06S, B16W08S, and DW21) were sampled. B16W06S was sampled in the fourth quarter for arsenic, cadmium, and radionuclides (Ra-226, Ra-228, thorium [Th]-228, Th-230, Th-232, U-234, U-235, and U-238). B16W08S was sampled for arsenic, cadmium, and radionuclides in the second quarter. DW21 was sampled for arsenic and cadmium in the first and third quarters.

**Table 4-2. Analytes Detected in HU-A Ground Water at the SLDS in CY 2017**

Analyte	Units	Station <sup>a</sup>	Minimum Detected	Maximum Detected	Mean Detected	Frequency of Detection
Arsenic	µg/L	B16W06S	160	160	160	1/1
		DW21	120	140	130	2/2
Cadmium	µg/L	B16W08S	0.38	0.38	0.38	1/1
		DW21	1.0	3.8	2.4	2/2
Th-230	pCi/L	B16W06S	0.411 J	0.411 J	0.411 J	1/1
		B16W08S	0.504 J	0.504 J	0.504 J	1/1
U-234	pCi/L	B16W08S	3.71	3.71	3.71	1/1
U-238	pCi/L	B16W08S	3.54	3.54	3.54	1/1
Total U <sup>b</sup>	µg/L	B16W08S	10.6	10.6	10.6	1/1

<sup>a</sup> Table lists only those stations at which the analyte was detected in HU-A ground water.

<sup>b</sup> Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide-specific activities and assuming secular equilibrium.

Validation qualifier (VQ) symbol indicates: "J" analyte was identified as estimated quantity.

The analytes detected in HU-A ground water in CY 2017 are listed in Table 4-2. The remaining SLDS COCs (Ra-226, Ra-228, Th-228, Th-232, and U-235) were not detected in the three HU-A ground-water wells monitored during CY 2017. Because the majority of their historical results were near or below their detection limits (DLs), a trend analysis was not performed for cadmium in B16W08S and DW21. Trend analysis was conducted for arsenic in B16W06S and DW21 and total U in B16W08S. 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 B16W08S. 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 B16W06S and DW21 (Figure 4-4). An increasing trend for total U in B16W08S was also identified (Figure 4-5). Figure 4-6 provides expanded versions of the time-versus-concentration plots for arsenic in B16W06S and DW21 and total U in B16W08S.

#### 4.2.2 Evaluation of HU-B Ground-Water Monitoring Data

During CY 2017, seven 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 2017 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 2017**

Analyte	ROD Ground-Water Criteria		Units	Station <sup>b</sup>	Minimum Detected	Maximum Detected	Mean Detected	Number of Detects > ROD Ground-Water Criteria	Frequency of Detection
	IL <sup>a</sup>	40 CFR 192.02, Table 1, Subpart A							
Arsenic	50	NA	µg/L	B16W07D	40	40	40	0	1/1
				B16W09D	16	16	16	0	1/1
				DW14	110	110	110	1	1/1
				DW15	5.9	53	28	1	3/3
				DW16	15	20	17.5	0	2/2
				DW18	71	91	81	2	2/2
Cadmium	5	NA	µg/L	B16W07D	6.60	6.60	6.60	1	1/1
				B16W09D	0.46	0.46	0.46	0	1/1
				DW14	3.4	3.4	3.4	0	1/1
				DW15	3.7	34	17.2	2	3/3
				DW16	0.44	1.2	0.82	0	2/2
				DW18	0.44	0.45	0.445	0	2/2
Th-228	NA	NA	pCi/L	DW16	0.54 J	0.54 J	0.54 J	NA	1/1
Th-230	NA	NA	pCi/L	DW16	0.42 J	0.42 J	0.42 J	NA	1/1
U-234	NA	NA	pCi/L	B16W07D	2.37	2.37	2.37	NA	1/1
				DW16	1.08 J	1.08 J	1.08 J	NA	1/1
U-238	NA	NA	pCi/L	B16W07D	1.26	1.26	1.26	NA	1/1
				DW16	0.82 J	0.82 J	0.82 J	NA	1/1
Total U <sup>c</sup>	20	NA	µg/L	B16W07D	3.8	3.8	3.8	0	1/1
				DW16	2.4	2.4	2.4	0	1/1

<sup>a</sup> USACE 1998a.

<sup>b</sup> Table lists only those stations at which the analyte was detected in HU-B ground water.

<sup>c</sup> 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 2017, 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 May and November 2017 samples from DW18 (71 µg/L and 91 µg/L, respectively). The concentration of arsenic also exceeded the IL in the May 2017 sample from DW14 (110 µg/L) and the November 2017 sample from DW15 (53 µg/L). Figure 4-6 provides the time-versus-concentration plots for arsenic in DW14, DW15, and DW18. The concentrations of cadmium in the February 2017 sample from B16W07D (6.6 µg/L) and the May and August 2017 samples from DW15 (34 µg/L and 14.0 µg/L, respectively) exceeded the IL (5 µg/L). The cadmium concentration in the November 2017 sample from DW15 (3.7 µg/L) did not exceed the IL. Figure 4-6 provides the time-versus-concentration plot for cadmium in DW15.

No radiological COCs exceeded the ROD ground-water criteria in HU-B ground water at the SLDS during CY 2017. 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. No groundwater sampling was conducted at DW19 during CY 2017. On August 3, 2016, DW19 was plugged and abandoned so that remediation activities could be conducted in that area. When remediation and backfill activities are completed at Plant 6, a replacement well will be installed to allow continued assessment of contaminant concentration trends in this area. Figure 4-5 shows the total U concentration trends in unfiltered ground water at the SLDS.

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 are statistically significant downward trends in arsenic concentrations in DW14 and DW15, and a statistically significant upward trend in arsenic concentrations in DW18. In addition, there is a statistically significant upward trend for cadmium in DW15. Figure 4-6 provides an expanded version of the time-versus-concentration plots for arsenic in DW14, DW15, and DW18 and for cadmium in DW15.

### **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 2017. 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 2017. 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 B16W08S. A trend analysis was not conducted for cadmium in B16W08S and DW21 or for Th-230 in B16W06S and B16W08S 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 2017: arsenic in DW14, DW15, and DW18, and cadmium in DW15. For cadmium in DW15, the dataset was restricted to the time period CY 2003 through CY 2017 in order to meet the Mann-Kendall Trend Test requirement that the dataset have a detection frequency greater than 50 percent. Trend analysis was not conducted for cadmium in B16W07D because the historical results were generally within the range of measurement error of their DLs.

### **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  $\pm 1.64$ , 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 B16W06S, DW14, DW15, DW18, and DW21; cadmium in DW15; and total U in B16W08S) are provided on Figure 4-6.

**Table 4-4. Results of Mann-Kendall Trend Test for SLDS Ground Water in CY 2017**

Analyte	Station	HU	N <sup>a</sup>	Test Statistics <sup>b,c</sup>		Trend <sup>d</sup>
				S	Z	
Arsenic	B16W06S	HU-A	23	-69	-1.8	Downward Trend
	DW14	HU-B	23	-123	-3.23	Downward Trend
	DW15	HU-B	28	-98	-1.92	Downward Trend
	DW18	HU-B	29	227	4.24	Upward Trend
	DW21	HU-A	28	-138	-2.71	Downward Trend
Cadmium	DW15	HU-B	14	52	287	Upward Trend
Total U	B16W08S	HU-A	12	28	1.85	Upward Trend

<sup>a</sup> 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 2017. For cadmium at DW15, the dataset was restricted to the period between January of 2003 and December of 2017 to meet the Mann-Kendall Trend Test requirement that the dataset have a detection frequency greater than 50 percent.

<sup>b</sup> 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.

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

<sup>d</sup> Trend: The Z-score is compared to  $\pm 1.64$  to determine trend significance.

## **Inorganics**

Based on the results of the Mann-Kendall Trend Test, three wells exhibit significant downward trends for arsenic (two HU-A wells, B16W06S and DW21, and two HU-B wells, DW14 and DW15), and one well exhibits a significant upward trend for arsenic (HU-B well DW18). Because the Mann-Kendall Trend Test does not consider the effects of measurement error and does not provide any information concerning the magnitude of the trend, time-versus-concentration plots of arsenic in B16W06S, DW14, DW15, 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 2017. No other significant changes in the concentrations of the inorganic COCs occurred in HU-A or HU-B ground water during CY 2017.

## **Radionuclides**

The Mann-Kendall Trend Test results indicate there is a statistically significant upward trend for total U in HU-A well B16W08S. As shown in the time-versus-concentration plot for B16W08S on Figure 4-5, the concentration of total U in B16W08S reached its maximum (13.6  $\mu\text{g/L}$ ) in CY 2002. 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 2017. Potentiometric surface maps were created from the May and November measurements to illustrate ground-water flow conditions in wet and dry seasons, respectively. The potentiometric maps for both HU-A and HU-B are presented on Figures 4-7 through 4-10.

The 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 (November) 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 2017, the HU-A potentiometric surface elevations showed some seasonal fluctuation in ground-water elevations, with elevations averaging approximately 11.9 ft higher during the wet season (May) than during the dry season (November).

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 23.4 ft higher on May 24 than on November 15; this generally corresponds to the difference in the daily river stage, which was 625.4 ft higher on May 24 (412.6 ft above mean sea level [amsl]) than on November 15 (387.3 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 February 15, 2017 and November 15, 2017, 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:

- 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).
- 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 EMICY17 outlines the analyses to be performed at each site for various media (USACE 2016).

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 EMICY17 (USACE 2016).

##### **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). In conjunction, 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 2013). 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 2017 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

**Table 5-1. Non-Radiological Duplicate Sample Analysis for CY 2017 – Ground Water**

Ground-Water Sample Name <sup>a</sup>	Arsenic	Cadmium
	RPD <sup>b</sup>	RPD <sup>b</sup>
SLD199815 / SLD199815-1	0.00	NC

<sup>a</sup> Ground-water samples ending in "-1" are duplicate ground-water samples.

<sup>b</sup> RPD criterion for liquid samples is less than or equal to 30 percent.

-1 Sample Duplicate

NC – not calculated due to one or both concentrations being below MDCs.

**Table 5-2. Radiological Duplicate Sample Analysis for CY 2017 – Ground Water**

Ground-Water Sample Name	Ra-226		Ra-228		Th-228		Th-230	
	RPD <sup>b</sup>	NAD						
SLD199815 / SLD199815-1	NC	NA	*	*	NC	NA	7.04	NA
Ground-Water Sample Name	Th-232		U-234		U-235		U-238	
	RPD <sup>b</sup>	NAD						
SLD199815 / SLD199815-1	NC	NA	NC	NA	NC	NA	NC	NA

<sup>a</sup> 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.

<sup>b</sup> RPD criterion for liquid samples is less than or equal to 30 percent.

\* Not calculated, because either the parent or split sample was not analyzed.

-1 Sample Duplicate

NC – not calculated due to one or both concentrations being below MDCs.

NA – not applicable; see RPD.

### 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 2017 environmental monitoring activities was acceptable. See Section 5.9 for the evaluation process.

**Table 5-3. Non-Radiological Split Sample Analysis for CY 2017 – Ground Water**

Ground-Water Sample Name <sup>a</sup>	Arsenic	Cadmium
	RPD <sup>b</sup>	RPD <sup>b</sup>
SLD199815 / SLD199815-2	6.45	NC

<sup>a</sup> Ground-water samples ending in “-2” are split ground-water samples.

<sup>b</sup> RPD criterion for liquid samples is less than or equal to 30 percent.

-2 Sample Split

NC – not calculated due to one or both concentrations being below MDCs.

**Table 5-4. Radiological Split Sample Analysis for CY 2017 – Ground Water**

Ground-Water Sample Name <sup>a</sup>	Ra-226		Ra-228		Th-228		Th-230	
	RPD <sup>b</sup>	NAD						
SLD199815 / SLD199815-2	NC	NA	*	*	NC	NA	19.49	NA
Ground-Water Sample Name <sup>a</sup>	Th-232		U-234		U-235		U-238	
	RPD <sup>b</sup>	NAD						
SLD199815 / SLD199815-2	NC	NA	NC	NA	NC	NA	NC	NA

<sup>a</sup> 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.

<sup>b</sup> RPD criterion for liquid samples is less than or equal to 30 percent.

\* Not calculated, because either the parent or split sample was not analyzed.

-2 Sample Split

NC – not calculated due to one or both concentrations being below MDCs.

NA – not applicable; see RPD.

### 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 2017 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<sub>S</sub> = Parent Sample Uncertainty
- U<sub>D</sub> = 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 2017 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 2017 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 EMICY17, 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 2017 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 2017 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 2017 – Ground Water**

Ground-Water Sample Name <sup>a</sup>	Arsenic <sup>b</sup>			Cadmium <sup>b</sup>		
	Result	DL	VQ	Result	DL	VQ
SLD199815	160.00	4.00	=	0.20	0.20	U
SLD199815-1	160.00	4.00	=	0.20	0.20	U
SLD199815-2	150.00	0.33	=	0.27	0.27	U

<sup>a</sup> Samples ending in “-1” are duplicate samples. Samples ending in “-2” are split samples.

<sup>b</sup> 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 2017- Ground Water**

Ground-Water Sample Name <sup>b</sup>	Ra-226 <sup>a</sup>				Ra-228 <sup>a</sup>				Th-228 <sup>a</sup>			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
SLD199815	0.44	0.63	1.05	UJ	*	*	*	*	0.00	0.16	0.46	UJ
SLD199815-1	0.54	1.16	2.34	UJ	*	*	*	*	0.13	0.24	0.46	UJ
SLD199815-2	5.59	0.66	0.09	=	*	*	*	*	0.25	0.16	0.20	J
Ground-Water Sample Name <sup>b</sup>	Th-230 <sup>a</sup>				Th-232 <sup>a</sup>				U-234 <sup>a</sup>			
	Result	Error	MDC	VQ	Result	Error	MDC	VQ	Result	Error	MDC	VQ
SLD199815	0.41	0.35	0.38	J	0.06	0.13	0.17	UJ	0.06	0.13	0.17	UJ
SLD199815-1	0.44	0.34	0.17	J	-0.03	0.06	0.38	UJ	0.00	0.00	0.17	U
SLD199815-2	0.34	0.17	0.16	J	-0.01	0.01	0.10	UJ	-0.02	0.04	0.15	UJ
Ground-Water Sample Name <sup>b</sup>	U-235 <sup>a</sup>				U-238 <sup>a</sup>							
	Result	Error	MDC	VQ	Result	Error	MDC	VQ				
SLD199815	-0.05	0.10	0.50	UJ	-0.04	0.08	0.41	UJ				
SLD199815-1	-0.05	0.11	0.51	UJ	0.25	0.26	0.17	UJ				
SLD199815-2	0.01	0.05	0.13	UJ	0.00	0.04	0.11	UJ				

<sup>a</sup> Results are expressed in pCi/L. Negative results are less than the laboratory system’s background level.

<sup>b</sup> 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: “=” for positively identified results, “J” analyte was identified as estimated quantity, and “UJ” analyte was not detected and had QC deficiencies

## 6.0 RADIOLOGICAL DOSE ASSESSMENT

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

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

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

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

Dose calculations related to airborne emissions, as required by 40 *CFR* 61, Subpart I (*National Emission Standards for Emissions of Radionuclides Other Than Radon From Federal Facilities Other Than Nuclear Regulatory Commission Licensees and Not Covered By Subpart H*), are presented in Appendix 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 less than 0.1 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 2017 at the SLDS. Figure 6-2 provides a comparison of the maximum annual dose from CY 2000 to CY 2017 at the SLDS to the annual average natural background dose of approximately 300 mrem per year.

### 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 2017 and were thus incorporated into radiological dose estimates.

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

<b>Exposure Pathway</b>	<b>Pathway Description</b>	<b>Applicable to CY 2017 Dose Estimate</b>
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

Data from the SLDS storm-water discharges and MSD discharges are not applicable to the hypothesized recreational receptor; therefore, those data are not evaluated in this section.

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 2017. 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 2017 dose estimates for the SLDS. The Liquid A exposure pathway was not applicable in CY 2017, 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 2017 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 2017 TEDE for a hypothetical maximally exposed individual near the SLDS is less than 0.1 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:

- Exposure to radiation from all SLDS sources occurs to the maximally exposed individual while working full-time outside at the receptor location facility located approximately 50 m from the assumed line source. Exposure time is 2,000 hours per year (Leidos 2018).
- 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.
- 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 2018).
- 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 2018).

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, less than 0.1 mrem per year from airborne radioactive particulates, and 0.0 mrem per year from Rn-222, for a TEDE of less than 0.1 mrem per year (Leidos 2018). 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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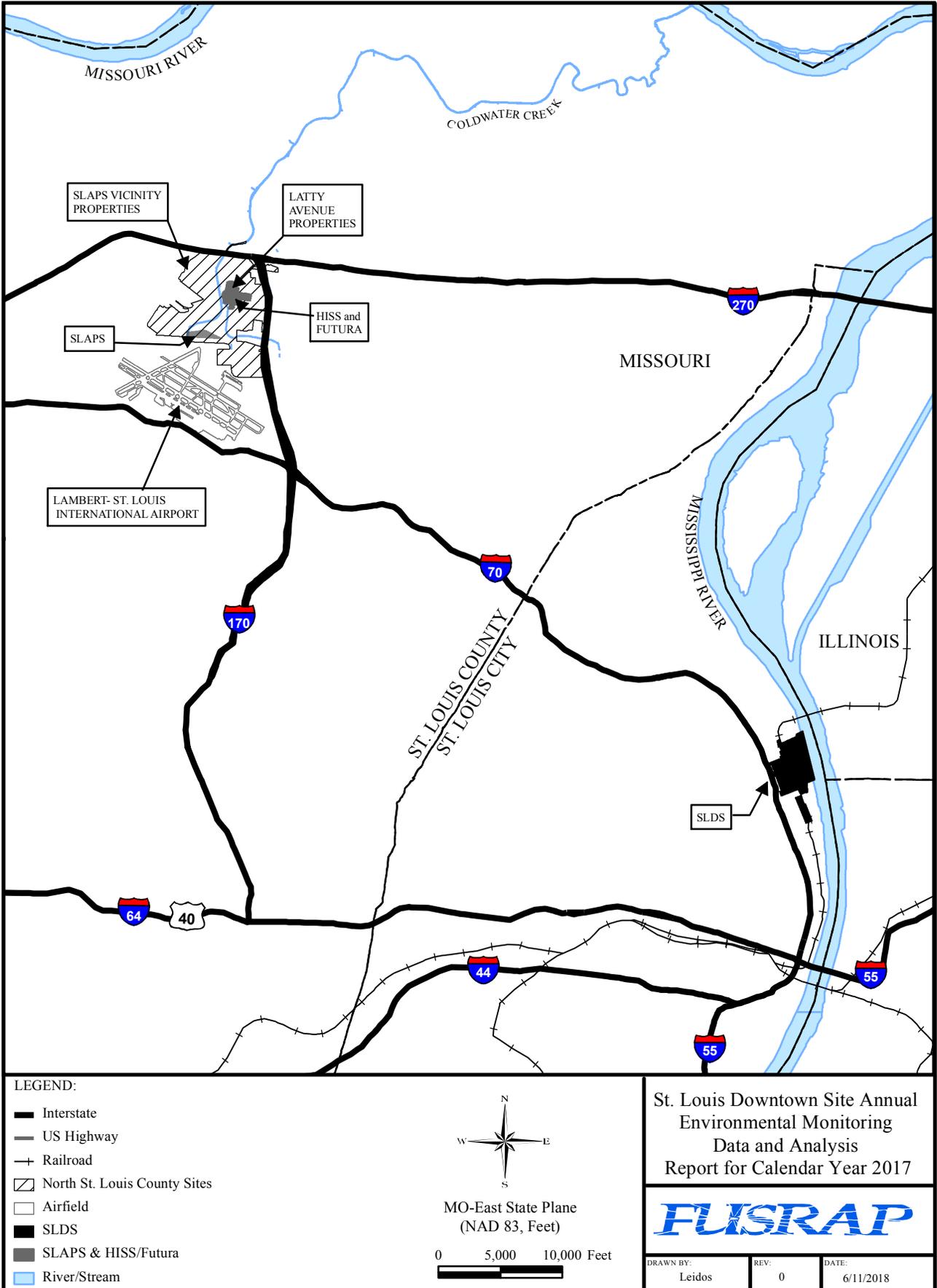


Figure 1-1. Location Map of the St. Louis Sites

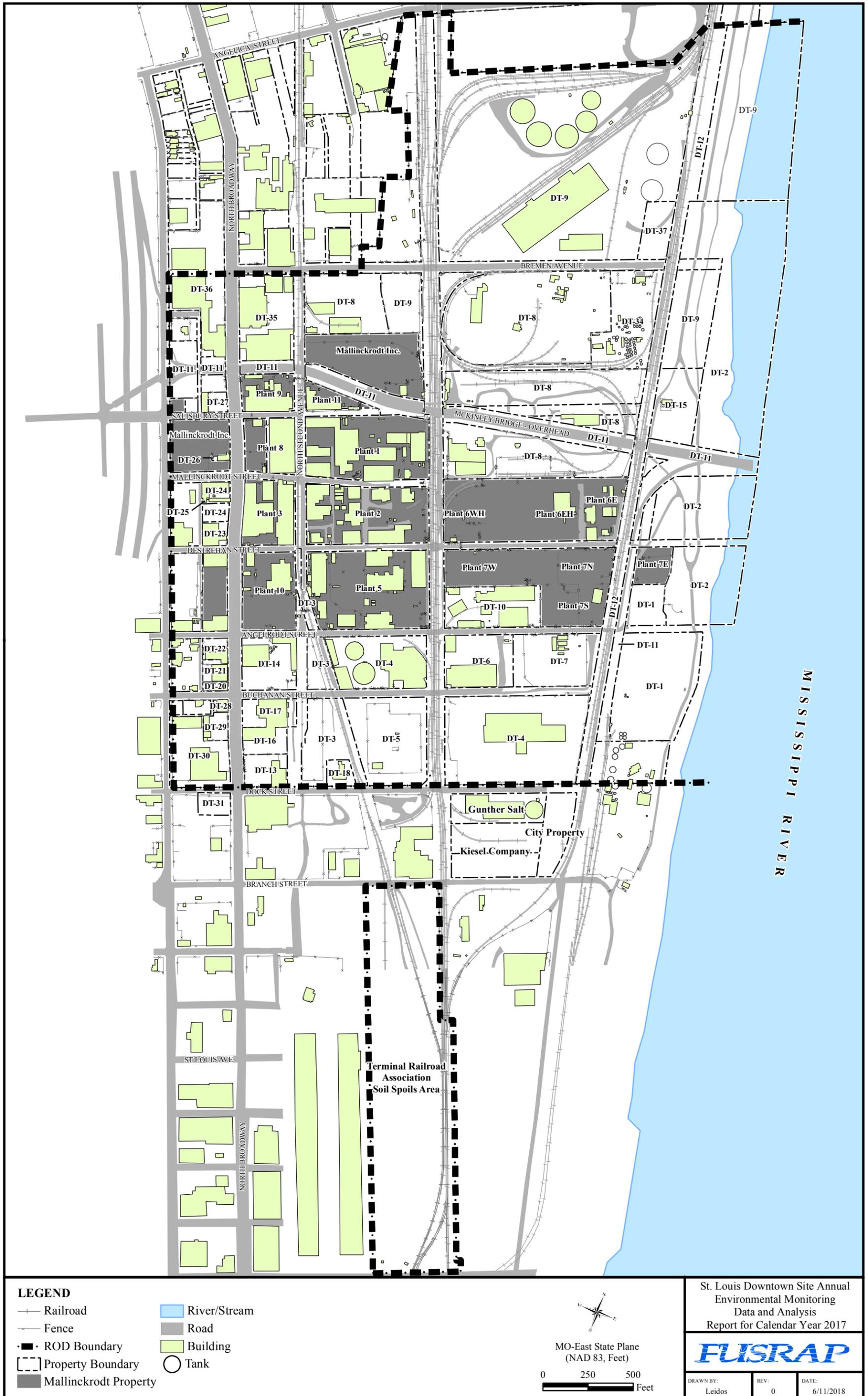


Figure 1-2. Plan View of the SLDS

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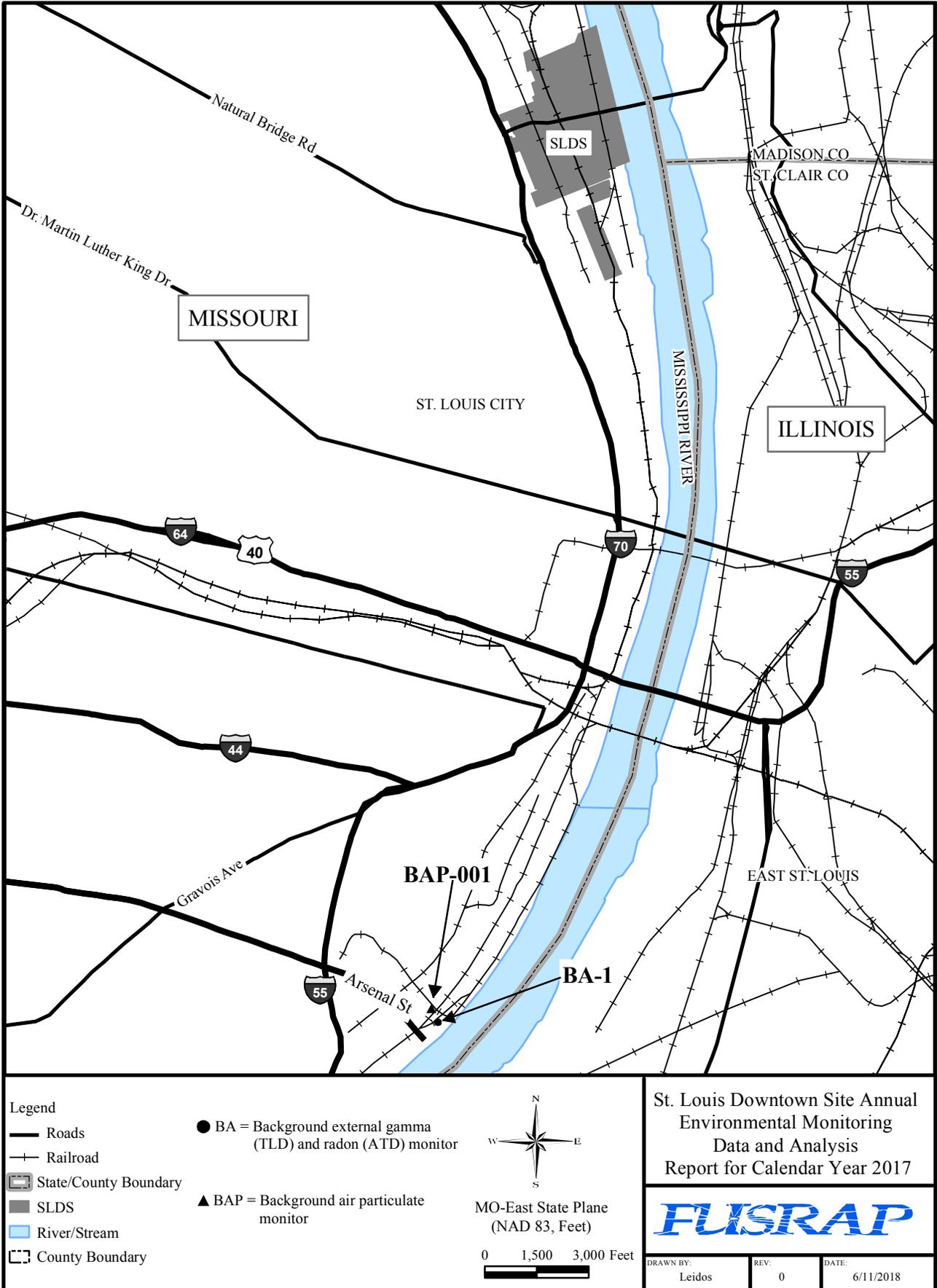


Figure 2-1. Gamma Radiation, Radon, and Particulate Air Monitoring at St. Louis Background Location - USACE Service Base



Path: U:\GPS\EMDAR\SLDS Projects\FY2018\Rev0\Figure 3-1 Excavation-Water Discharge Stations at the SLDS.mxd



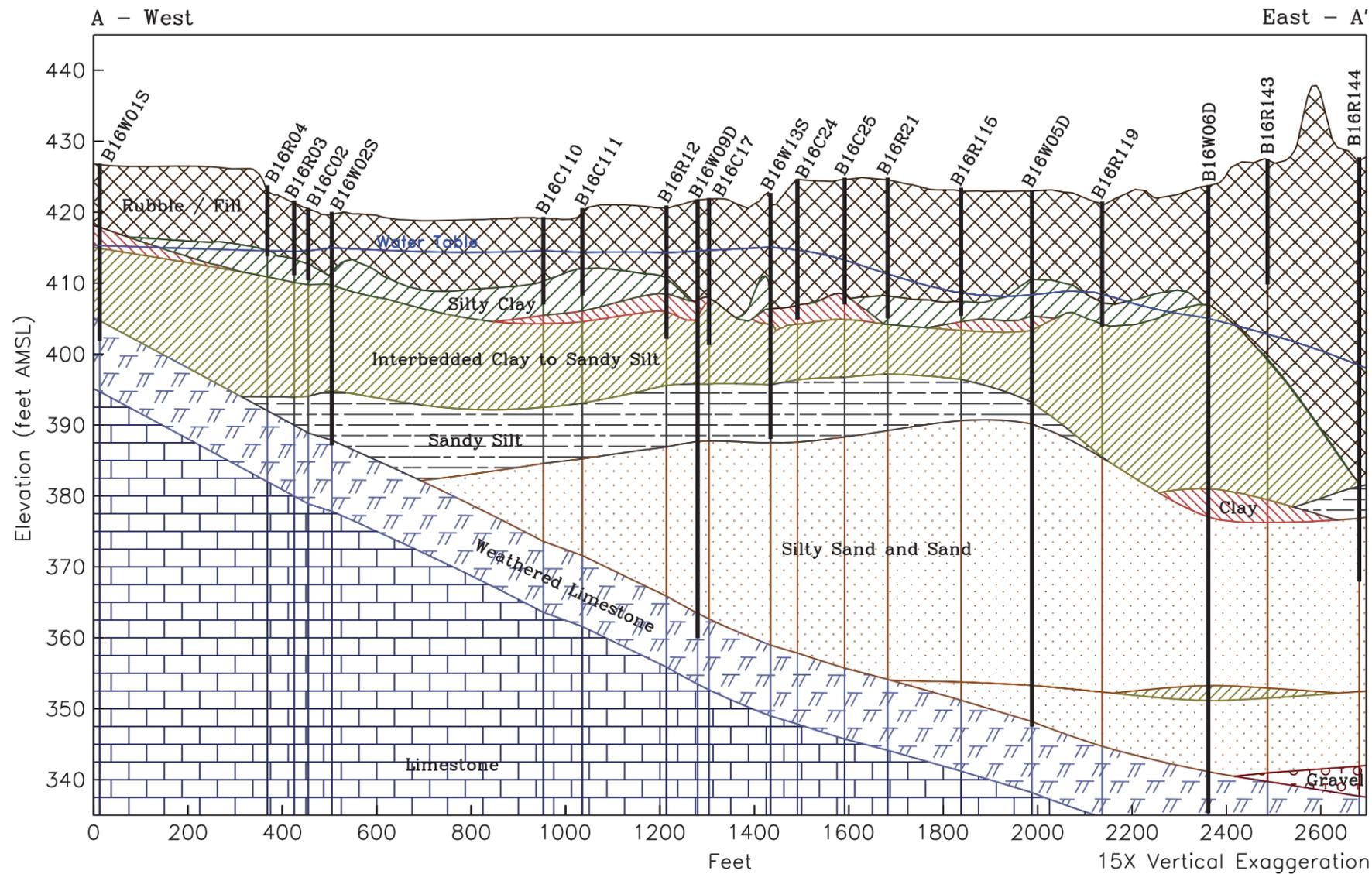
Figure 3-1. MSD Excavation-Water Discharge Points at the SLDS

Unit Designation	Approximate Thickness (ft)	Description
Upper Hydrostratigraphic Unit (HU-A)	0-25	<p><b>RUBBLE and FILL</b>            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><b>Silty CLAY (CH)</b>            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><b>CLAY (CL)</b>            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><b>Interbedded CLAY, silty CLAY, SILT and Sandy SILT (CL, ML, SM)</b>            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 down dip. 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><b>Sandy SILT (ML)</b>            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><b>Silty SAND and SAND (SM, SP, SW)</b>            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><b>LIMESTONE</b>            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.				
THE CODES IN PARENTHESES FOLLOWING THE COLOR DESCRIPTIONS REPRESENT CHROMA, HUE, AND VALUE FROM THE MUNSELL SOIL COLOR CHARTS.				
NOT TO SCALE	<p>St. Louis Downtown Site Annual          Environmental Monitoring Data and          Analysis Report for Calendar Year 2017</p> <table border="1"> <tr> <td>DRAWN BY: C.Kaple</td> <td>REV. NO./DATE: 0 - 06/12/2018</td> <td>CAD FILE:</td> </tr> </table>	DRAWN BY: C.Kaple	REV. NO./DATE: 0 - 06/12/2018	CAD FILE:
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Figure 4-1. Generalized Stratigraphic Column for the SLDS



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

Cross Section Location Map



St. Louis Downtown Site  
Annual Environmental Monitoring  
Data and Analysis Report for  
Calendar Year 2017

Drawn By: R. Smith

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

File: SLDSGIg01XSectA.sho

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

Path: U:\GPS\EMDAR\SLDS Projects\FY2018\Rev0\Figure 4-3 Ground-Water Monitoring Well Locations at the SLDS.mxd

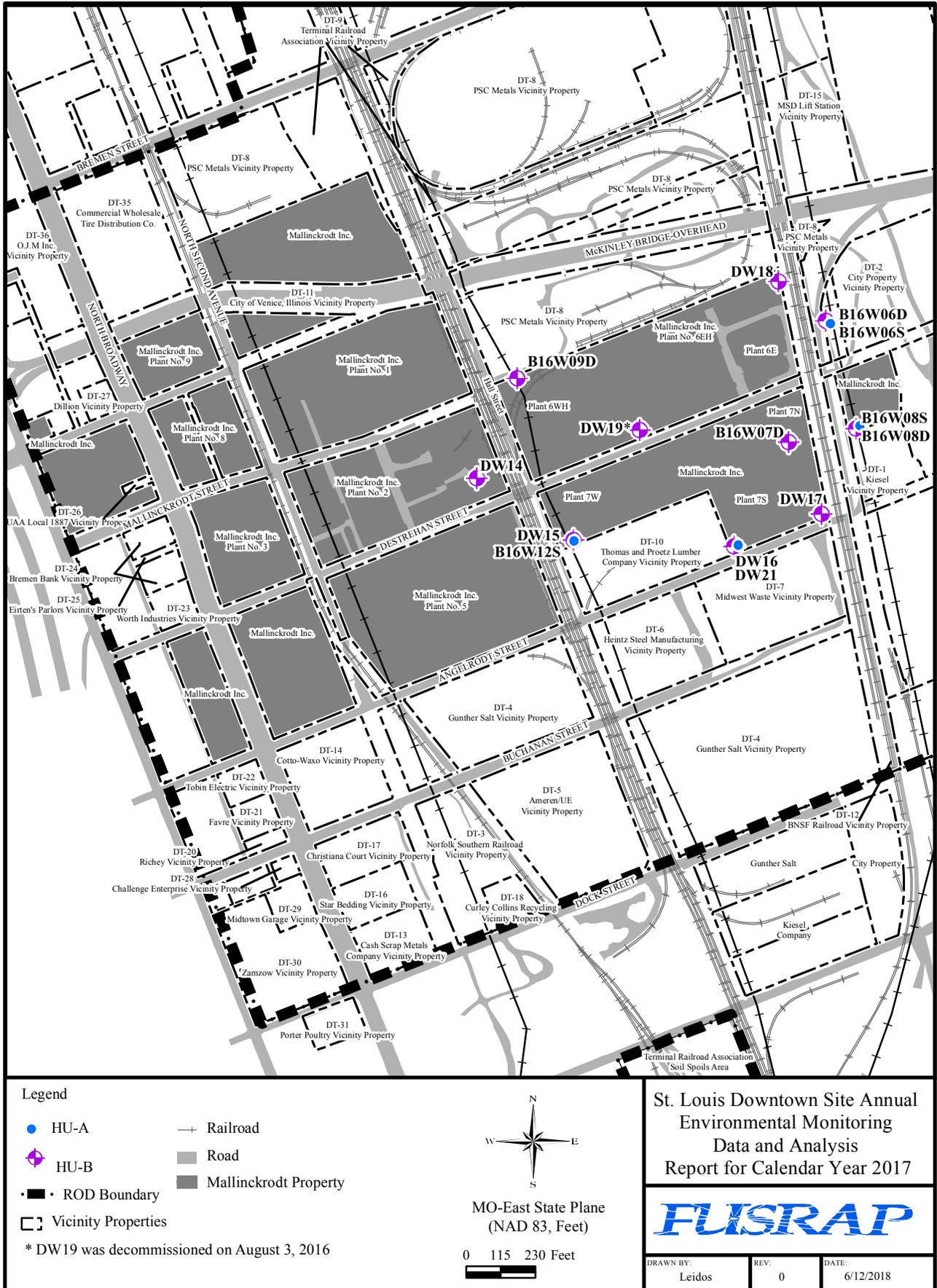


Figure 4-3. Ground-Water Monitoring Well Locations at the SLDS

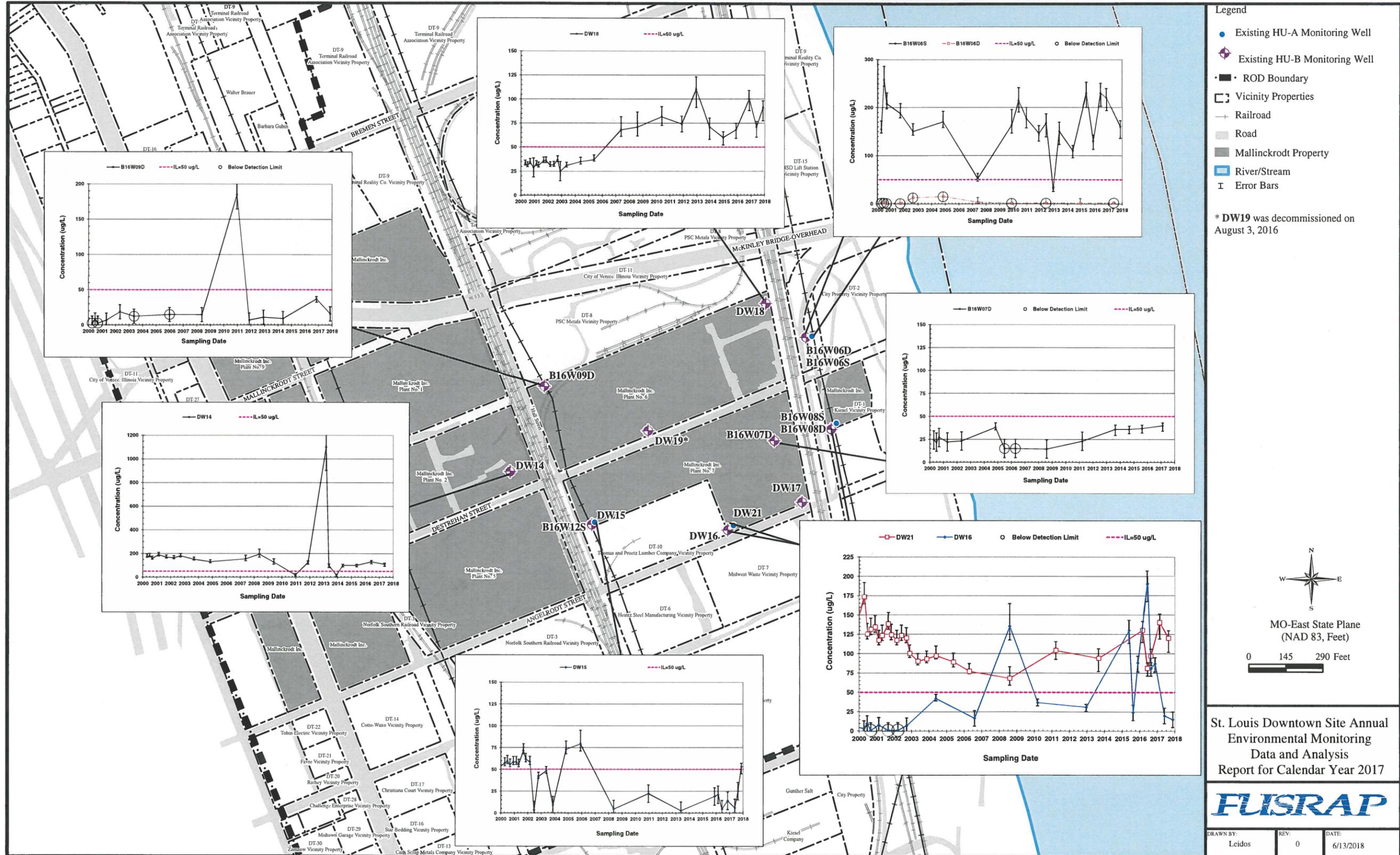


Figure 4-4. Arsenic Concentration Trends in Unfiltered Ground Water at the SLDS

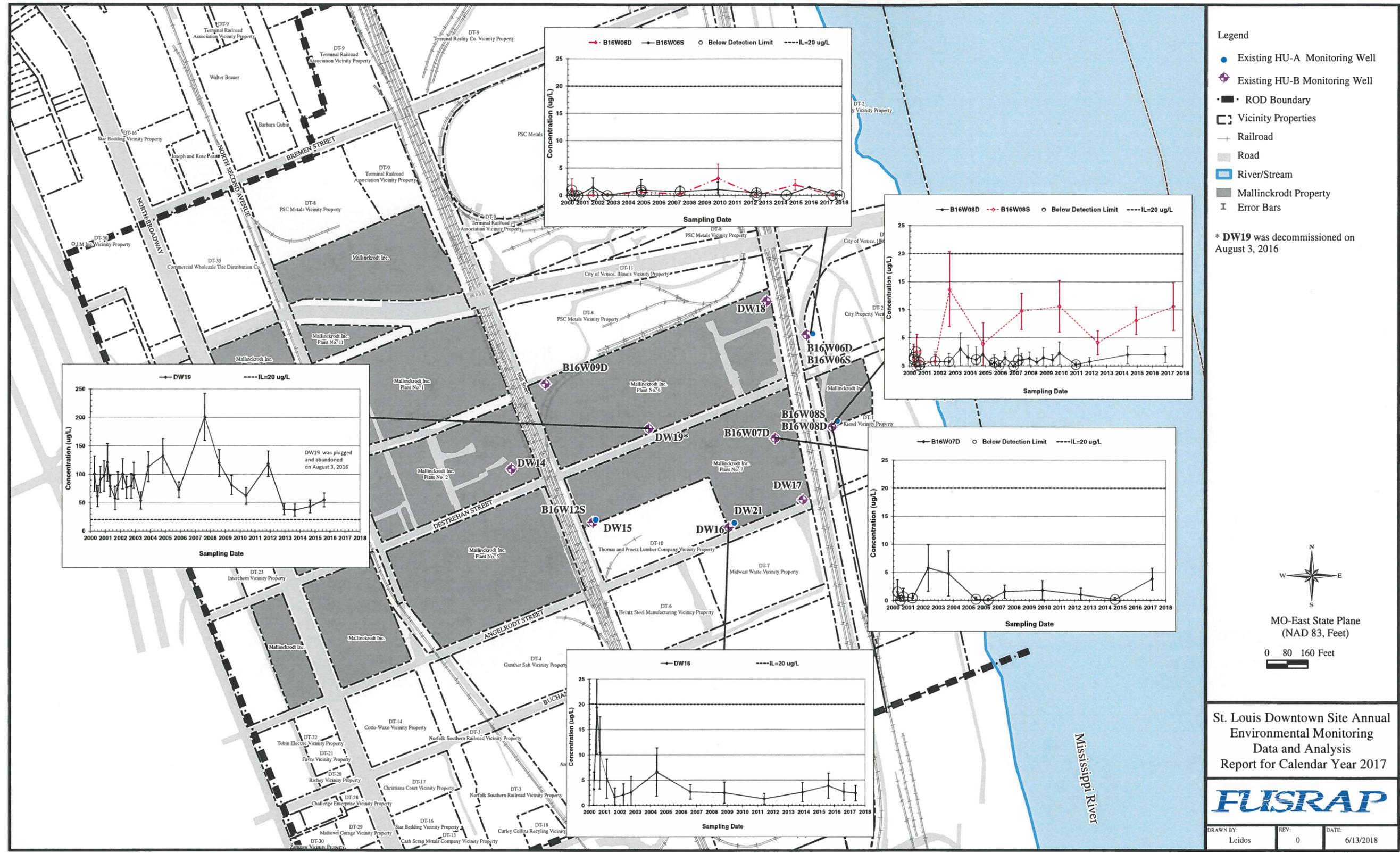
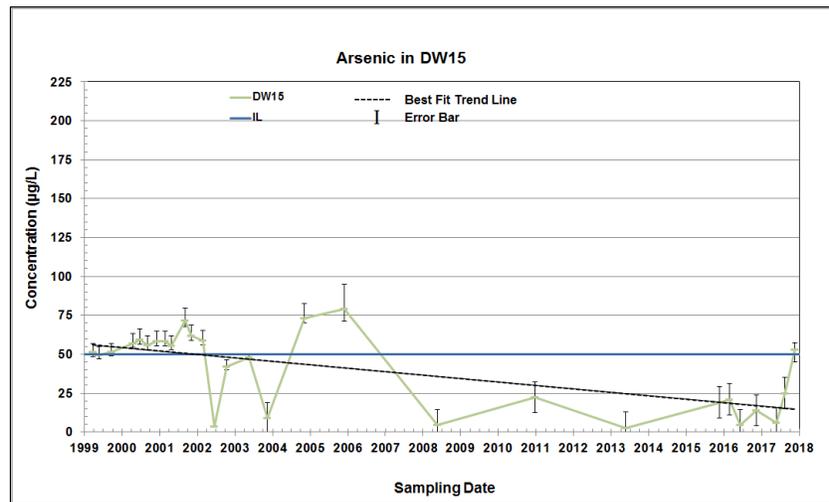
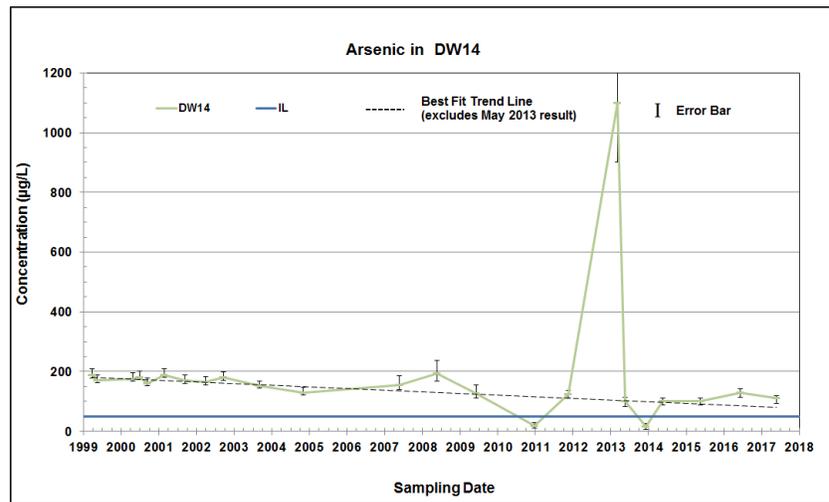
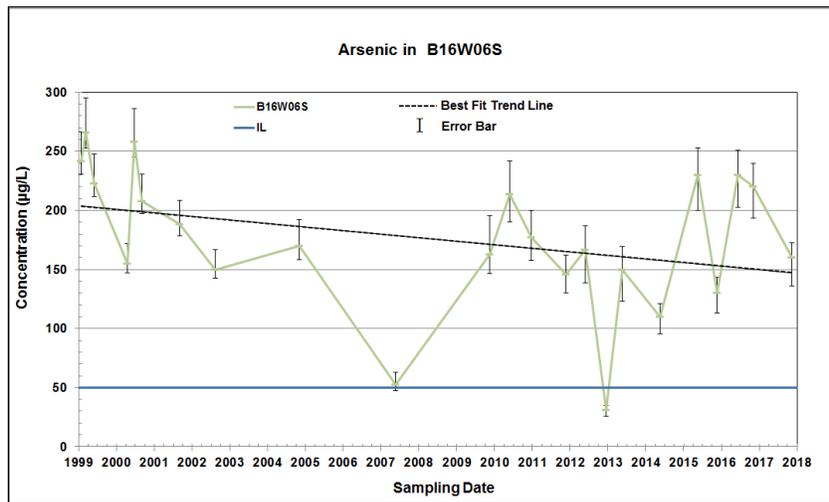


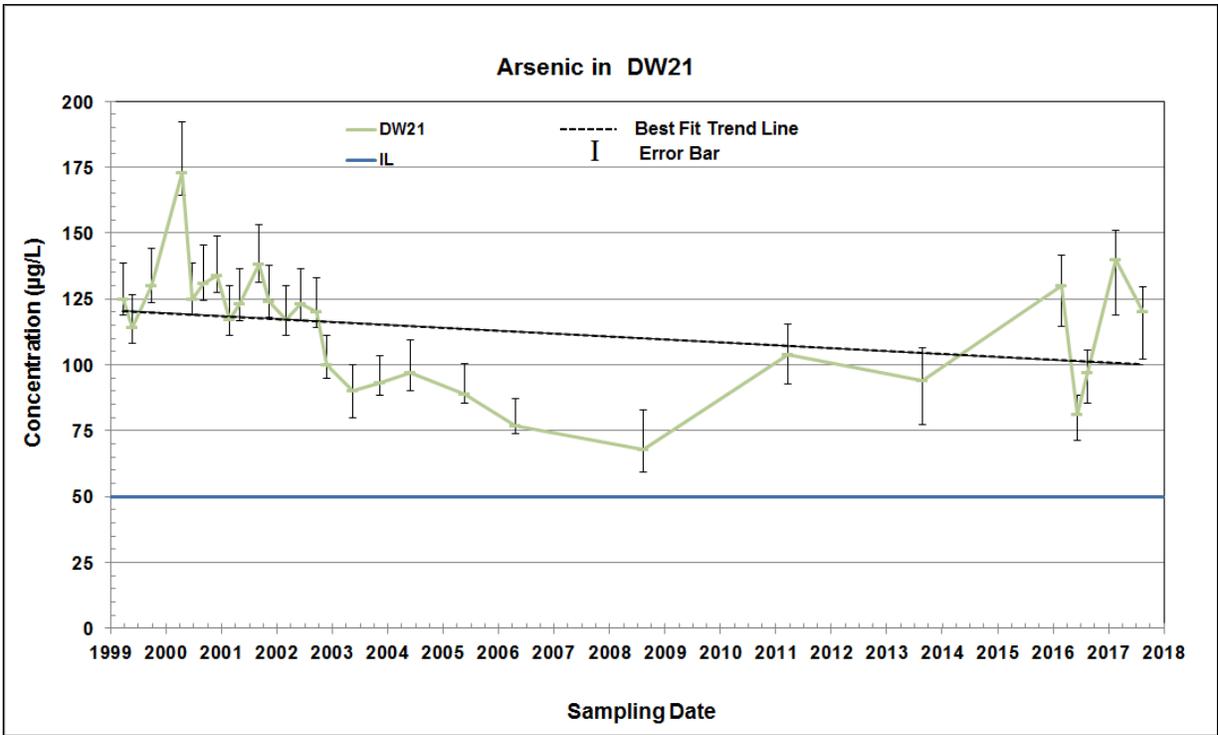
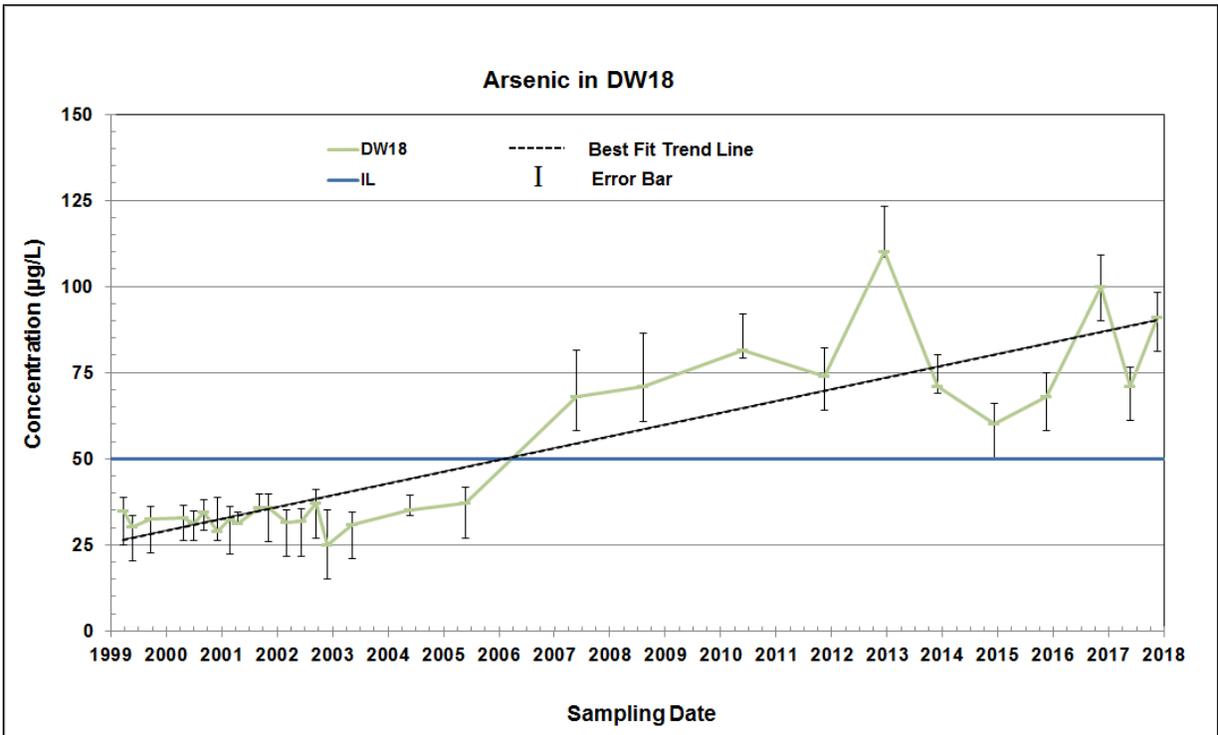
Figure 4-5. Total U Concentration Trends in Unfiltered Ground Water at the SLDS



**Notes:**

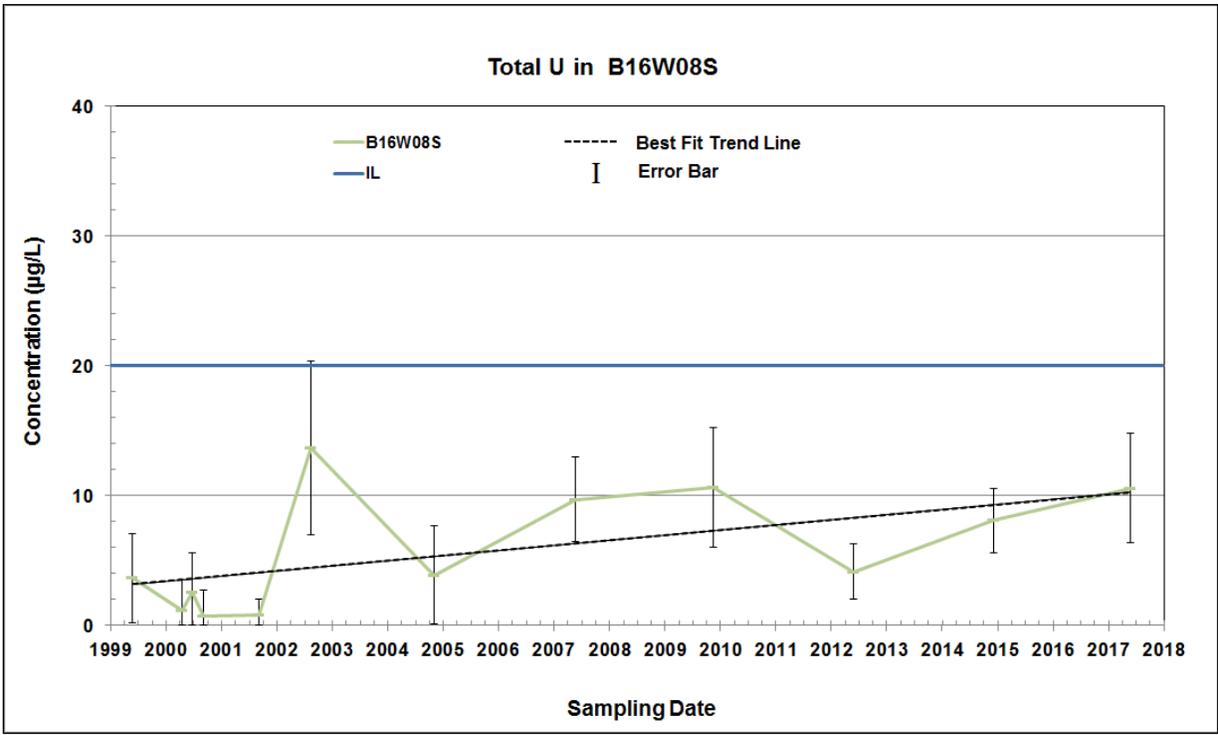
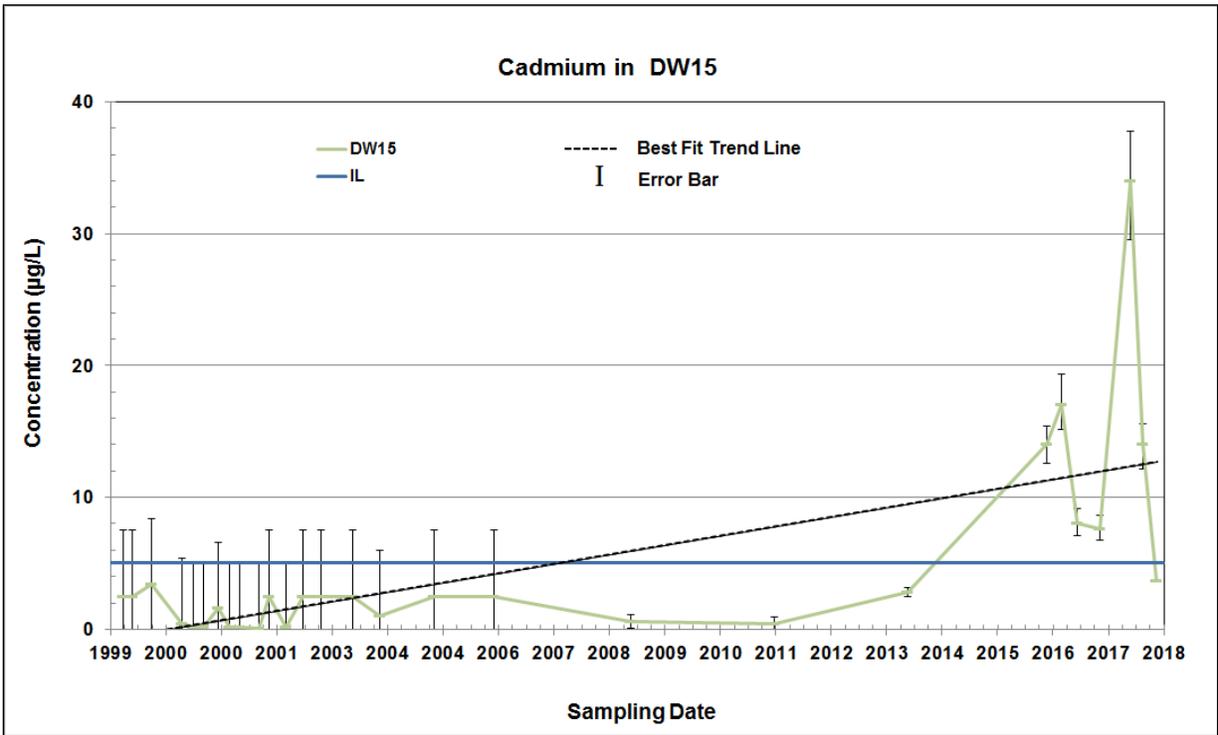
For arsenic and cadmium results less than 3 times the reporting limit (RL), the error bar represents  $\pm$  RL.  
 For arsenic and cadmium results exceeding 3 times the RL, the error bar represents the upper and lower control limits on the control spike samples.  
 Error bars for arsenic and cadmium 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.  
 For total U, the error bar represents  $\pm$  the sum of the measurement errors for U-234, U-235, and U-238, converted to  $\mu\text{g/L}$ .

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



**Notes:**  
 For arsenic and cadmium results less than 3 times the RL, the error bar represents  $\pm$  RL.  
 For arsenic and 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 arsenic and 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.  
 For total U, the error bar represents  $\pm$  the sum of the measurement errors for U-234, U-235, and U-238, converted to  $\mu\text{g/L}$ .

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



**Notes:**  
 For arsenic and cadmium results less than 3 times the RL, the error bar represents  $\pm$  RL.  
 For arsenic and 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 arsenic and 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.  
 For total U, the error bar represents  $\pm$  the sum of the measurement errors for U-234, U-235, and U-238, converted to  $\mu\text{g/L}$ .

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

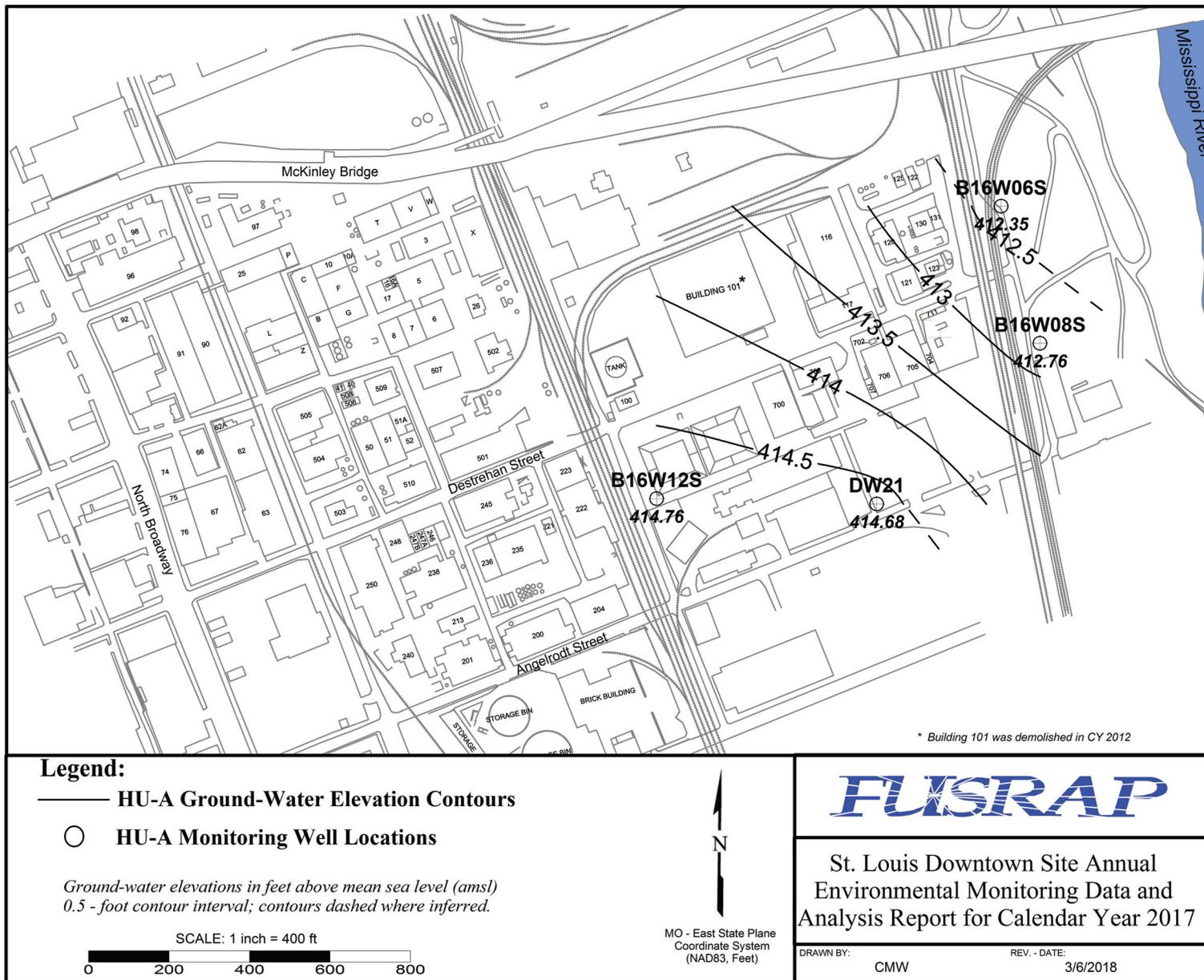


Figure 4-7. HU-A Potentiometric Surface at the SLDS (May 24, 2017)

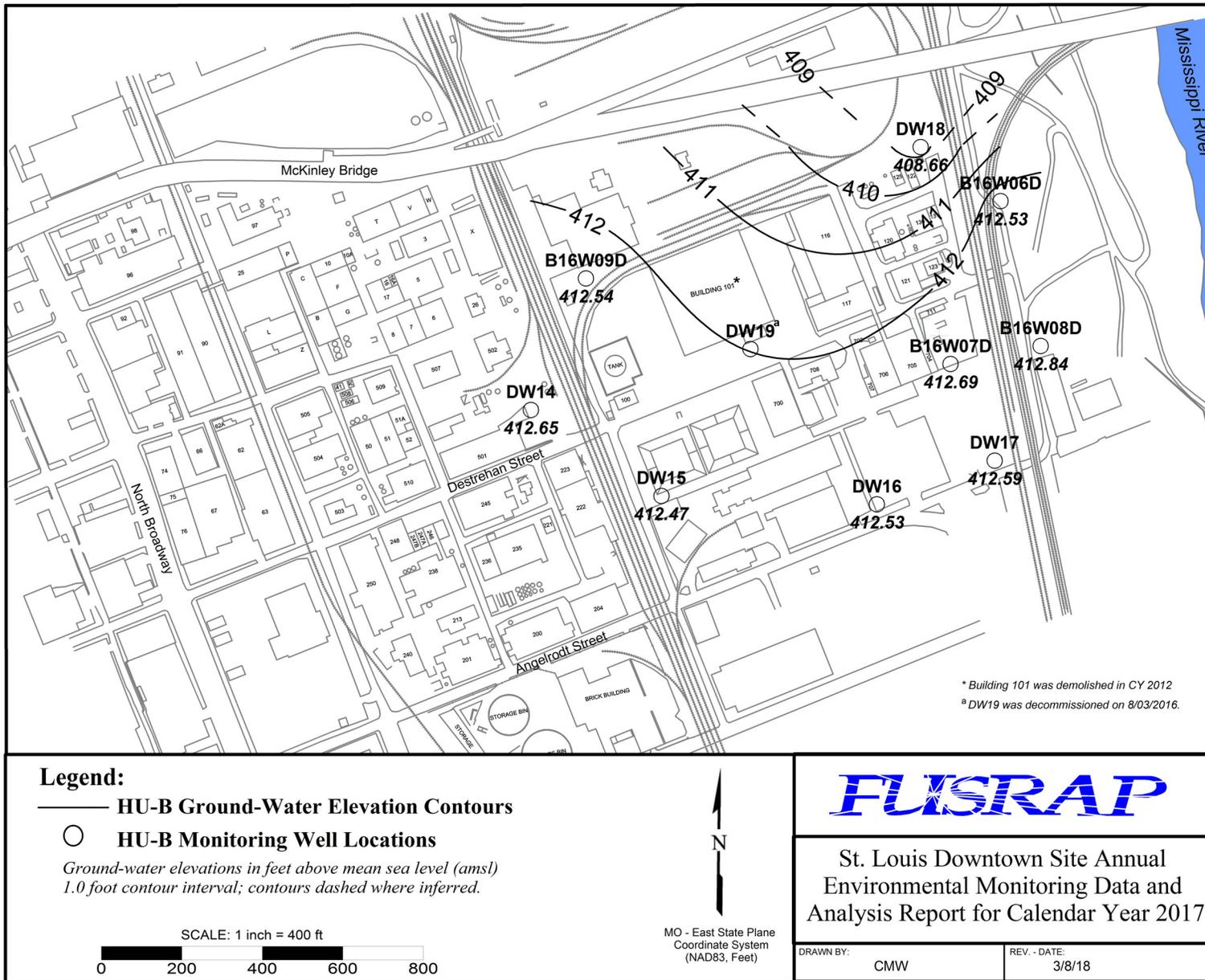


Figure 4-8. HU-B Potentiometric Surface at the SLDS (May 24, 2017)

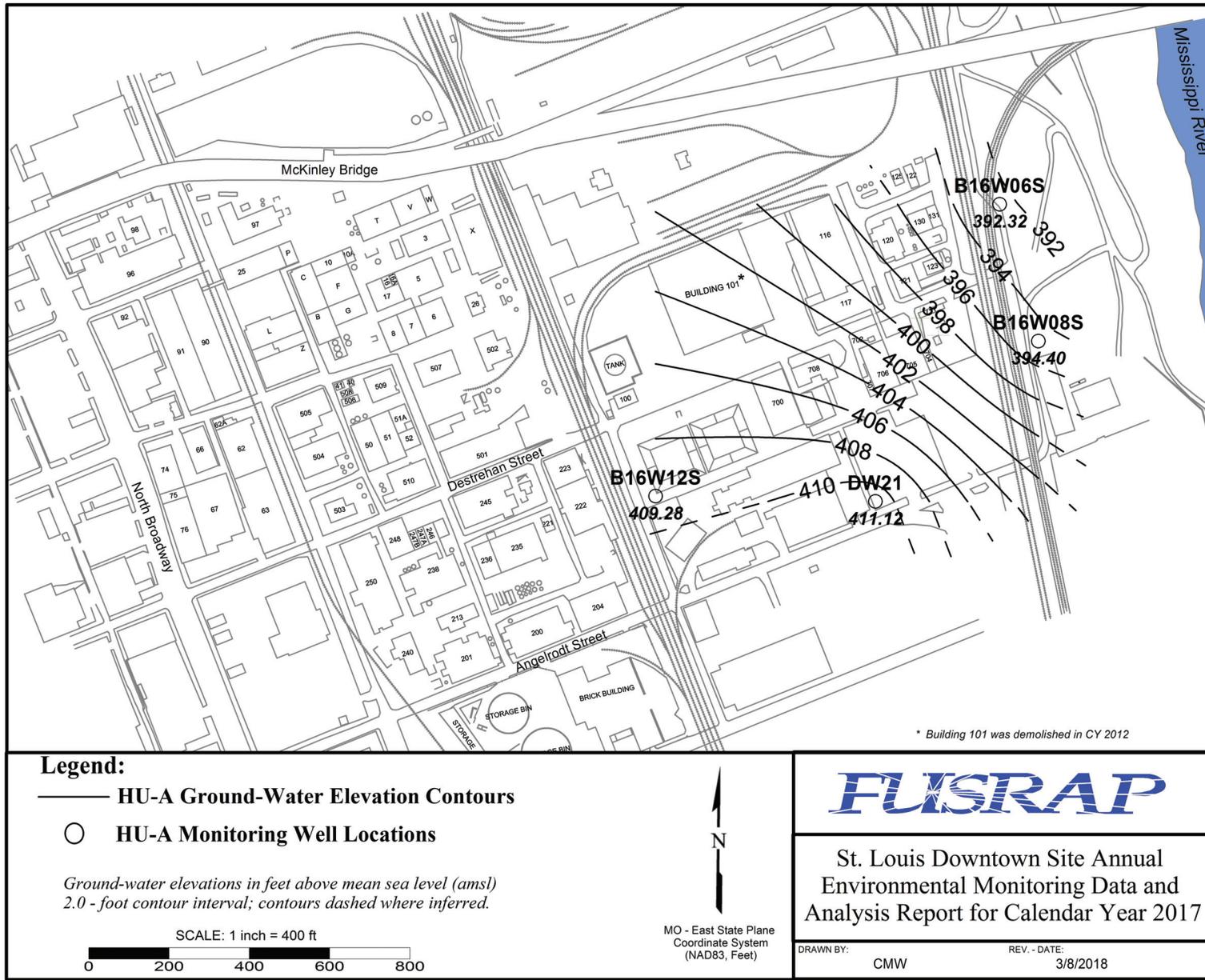


Figure 4-9. HU-A Potentiometric Surface at the SLDS (November 15, 2017)

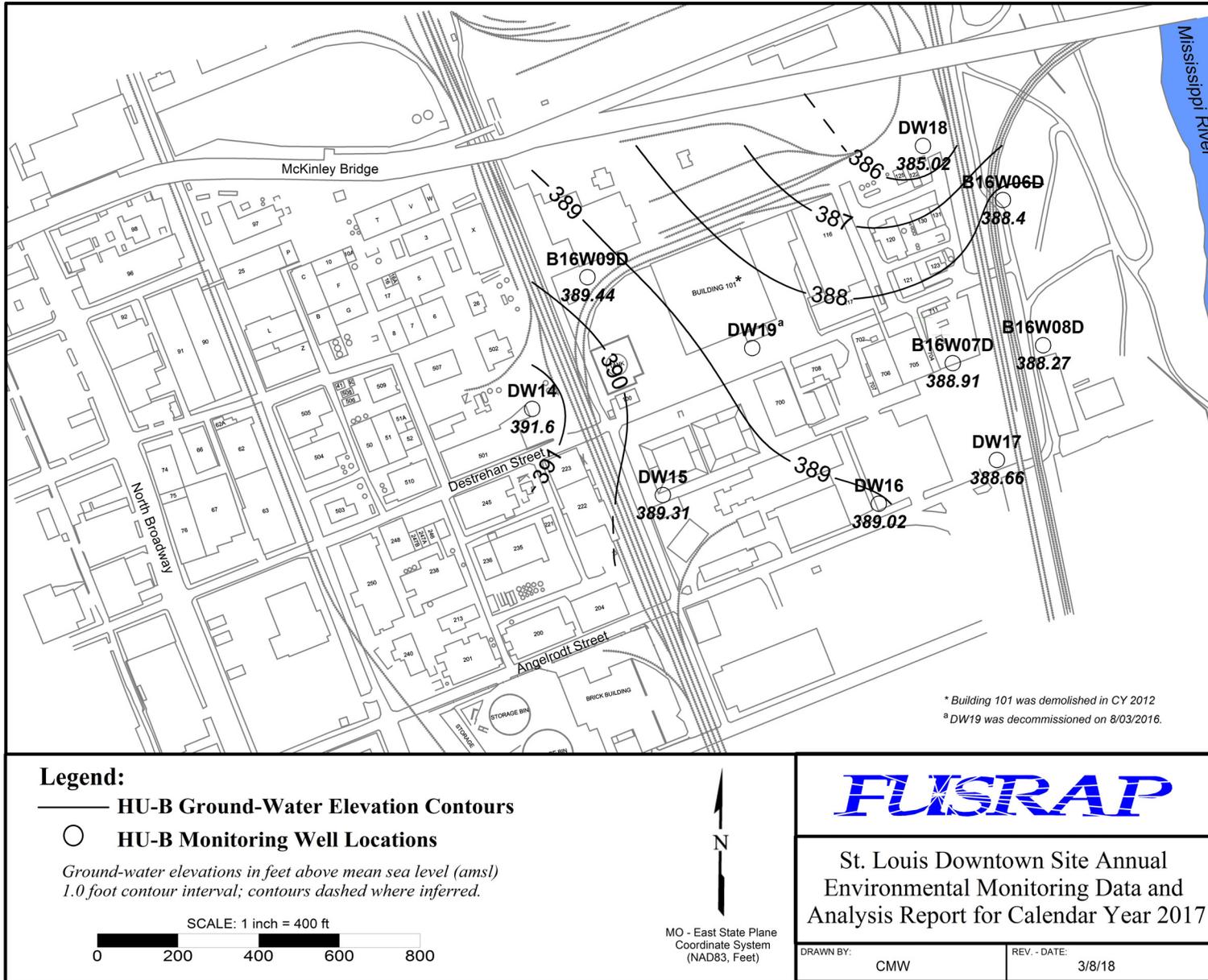


Figure 4-10. HU-B Potentiometric Surface at the SLDS (November 15, 2017)

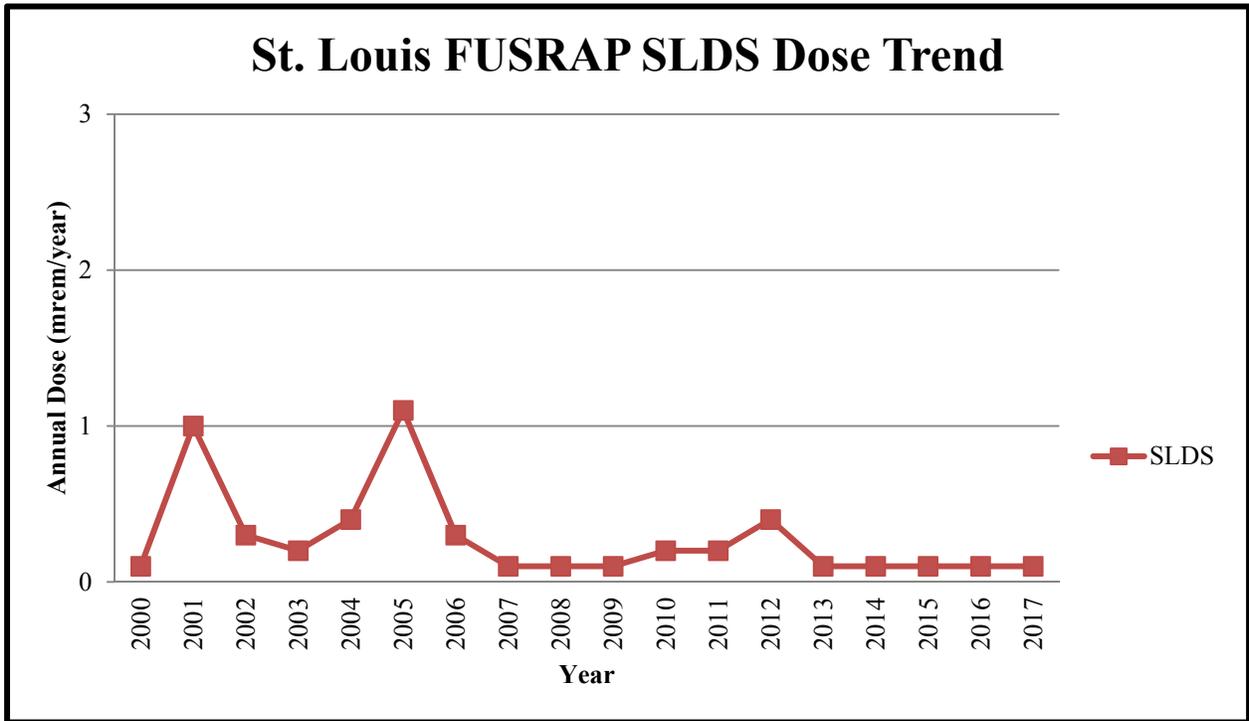


Figure 6-1. St. Louis FUSRAP SLDS Dose Trends

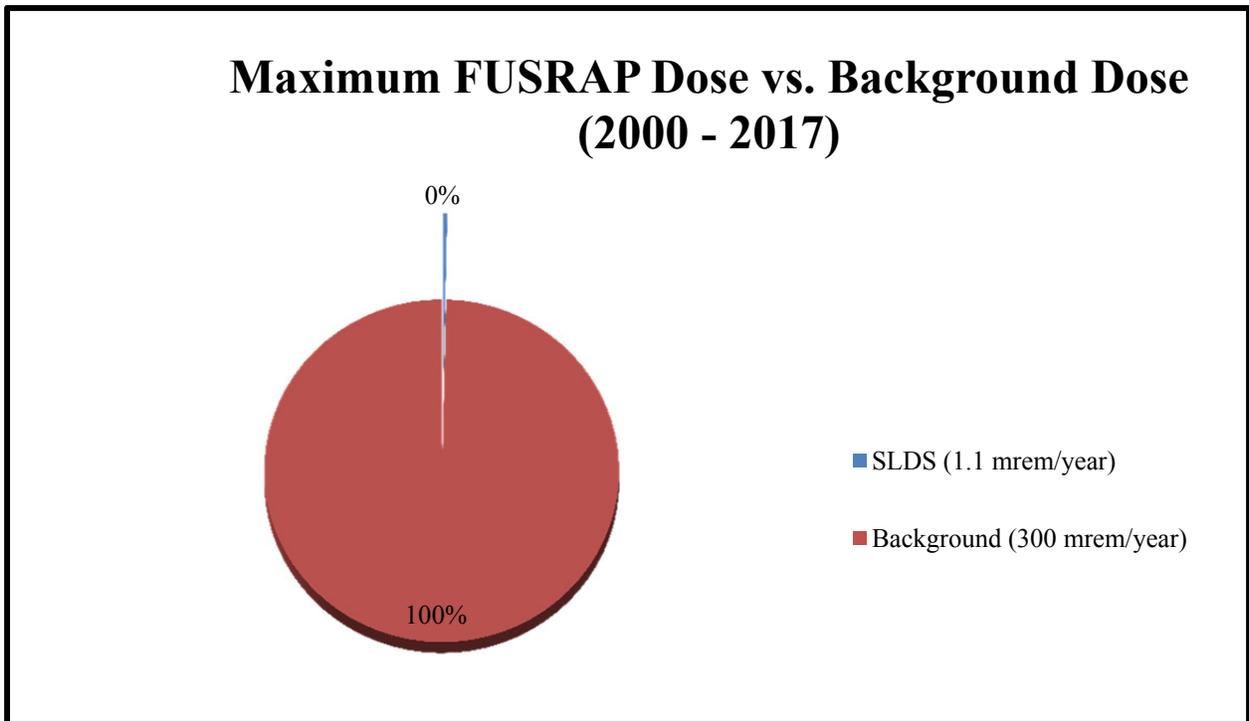


Figure 6-2. St. Louis FUSRAP SLDS Maximum Dose vs. Background Dose

**APPENDIX A**

**ST. LOUIS DOWNTOWN SITE 2017 RADIONUCLIDE EMISSIONS NESHAP REPORT  
SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 CFR 61, SUBPART I**

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**LIST OF ATTACHMENTS**

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Attachment A-2	CAP88-PC Output Report for St. Louis Downtown Site Properties

## ACRONYMS AND ABBREVIATIONS

Ac	actinium
AEC	U.S. Atomic Energy Commission
<i>CFR</i>	<i>Code of Federal Regulations</i>
CY	calendar year
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
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.

°C	degree(s) Celsius (centigrade)
μCi/cm <sup>3</sup>	microcurie(s) per cubic centimeter
μCi/mL	microcurie(s) per milliliter
Ci	curie(s)
cm	centimeter(s)
cm <sup>3</sup>	cubic centimeter(s)
m	meter(s)
m <sup>2</sup>	square meter(s)
m <sup>3</sup>	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) 2017. 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: Destrehan Street, Plant 1, and Plant 6 Loadout.

Emissions from the SLDS were evaluated for the entire CY 2017 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 less than 0.1 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

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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 NESHAP report contains the EDE calculations from radionuclide emissions (exclusive of radon) to critical receptors from the SLDS properties at which a reasonable potential existed for radionuclide emissions due to St. Louis FUSRAP activities. These sites include: Destrehan Street, Plant 1, 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 receptors<sup>1</sup>, 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 receptors<sup>1</sup> 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.

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<sup>1</sup> “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
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	Wind Direction		Wind Frequency
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.

### **4.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2017**

Excavation activities were performed at the SLDS areas of Plant 1 and Destrehan Street (and adjacent Plant 6 West Half [henceforth referred to as Plant 6WH] and Plant 7 West [henceforth referred to as Plant 7W]). 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 2017, 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 from radionuclide concentrations listed in the *St. Louis-FUSRAP Internal Dosimetry Technical Basis Manual* (USACE 2000) or in property-specific pre-design investigation reports. Attachment A-1 contains summary tables of the radionuclide concentrations for each area or plant and vicinity properties (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 2017**

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 2017**

Sources	Nearest Residence		Farm		Business		School	
	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction	Distance (m)	Direction
Destrehan Street	275	SW	3,115	NE	280	E	610	WNW
Plant 1	420	SW	3,015	NE	325	SE	520	W
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 2017. The average gross alpha and beta concentrations (in  $\mu\text{Ci/mL}$ ) are determined for each area or plant location for CY 2017. 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 2017**

Sampler Location	Average Concentration ( $\mu\text{Ci/mL}$ )	
	Gross Alpha	Gross Beta
Destrehan Street	4.01E-15	2.71E-14
Plant 1	6.79E-15	2.84E-14
Plant 6 Loadout	3.73E-15	2.86E-14
Background Concentrations	4.93E-15	2.13E-14

<sup>a</sup> 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  $\mu\text{Ci/cm}^3$ ) for that area. The gross average concentration ( $\mu\text{Ci/cm}^3$ ) is converted to a release (emission) rate, measured in Ci per year using Equations 1 and 2.

*A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions from NRC-Licensed and Non-DOE Federal Facilities* (USEPA 1989) (page 3-21, [2]) provides Equation 1 for determination of 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  $\text{m}^2$ )

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 2017. Calculation of the effective surface area is contained in Attachment A-1.

**Table A-5. SLDS Excavation Effective Areas and Effective Diameters for CY 2017**

SLDS Location	Effective Area (m <sup>2</sup> )	Effective Diameter (m)
Destrehan Street	1,123	38
Plant 1	74	10
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<sup>3</sup> per minute)

$\pi$  = 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 2017**

SLDS Location	Site Release Flow Rate (m <sup>3</sup> /minute)
Destrehan Street	3.1E+05
Plant 1	2.0E+04
Plant 6 Loadout	1.3E+05

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

The CY 2017 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 2017**

Radionuclide	Emission (Ci/year) <sup>a</sup>		
	Destrehan Street	Plant 1	Plant 6 Loadout
Uranium (U)-238	2.1E-04	2.2E-05	2.2E-05
U-235	1.1E-05	1.2E-06	1.2E-06
U-234	2.1E-04	2.2E-05	2.2E-05
Radium (Ra)-226	4.8E-05	7.4E-06	7.4E-06
Thorium (Th)-232	1.7E-05	3.0E-06	3.0E-06

**Table A-7. SLDS Area Airborne Radioactive Particulate Emission Rates Based on Excavation Perimeter Air Samples for CY 2017 (Continued)**

Radionuclide	Emission (Ci/year) <sup>a</sup>		
	Destrehan Street	Plant 1	Plant 6 Loadout
Th-230	9.3E-05	7.1E-06	7.1E-06
Th-228	1.9E-05	3.4E-06	3.4E-06
Ra-224	1.9E-05	3.4E-06	3.4E-06
Th-234	2.0E-03	1.3E-04	1.3E-04
Protactinium (Pa)-234m	2.0E-03	1.3E-04	1.3E-04
Th-231	1.0E-04	7.2E-06	7.2E-06
Ra-228	1.6E-04	1.8E-05	1.8E-05
Actinium (Ac)-228	1.6E-04	1.8E-05	1.8E-05
Pa-231	1.1E-05	1.2E-06	1.2E-06
Ac-227	1.1E-05	1.2E-06	1.2E-06

<sup>a</sup> 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 2017**

Source	Dose (mrem/year)			
	Nearest Residence <sup>a</sup>	Farm <sup>a</sup>	Business <sup>b</sup>	School <sup>b</sup>
Destrehan Street	<0.1	<0.1	<0.1	<0.1
Plant 1	<0.1	<0.1	<0.1	<0.1
Plant 6 Loadout	<0.1	<0.1	<0.1	<0.1
SLDS Total Dose <sup>c</sup>	<0.1	<0.1	<0.1	<0.1

<sup>a</sup> 100 percent occupancy factor.

<sup>b</sup> Corrected for the 23 percent occupancy factor (40 hours per week for 50 weeks per year).

<sup>c</sup> Combined dose from all sources at the SLDS.

## 5.0 REFERENCES

- USACE 2000. U.S. Army Corps of Engineers, St. Louis District Office. *St. Louis-FUSRAP Internal Dosimetry Technical Basis Manual*. September.
- 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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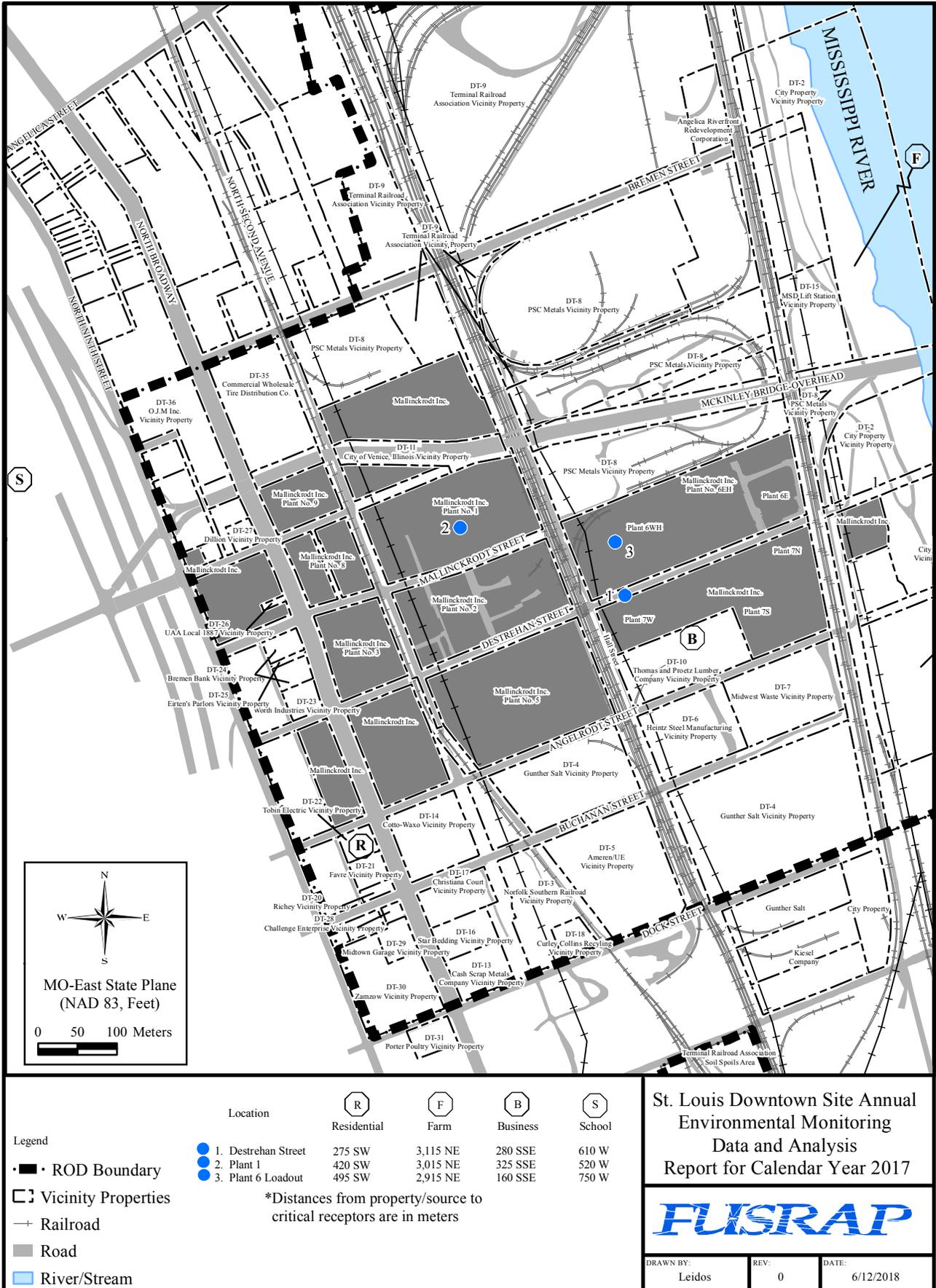


Figure A-1. SLDS Critical Receptors

**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 2017<sup>a</sup>**

Property	Destrehan Street	Plant 1	Plant 6 Loadout Average
Radionuclide	Average Concentration (pCi/g)		
U-238	11.8	7.5	3.0
U-235	0.6	0.4	0.8
U-234	11.8	7.5	3.0
Ra-226	2.7	2.5	1.6
Th-232	0.9	1.0	0.4
Th-230	5.2	2.4	1.0
Th-228	1.1	1.2	0.4
Ra-224	1.1	1.2	0.4
Th-234	11.8	7.5	3.0
Pa-234m	11.8	7.5	3.0
Th-231	0.6	0.4	0.8
Ra-228	0.9	1.1	0.4
Ac-228	0.9	1.1	0.4
Pa-231	0.6	0.4	0.8
Ac-227	0.6	0.4	0.8

<sup>a</sup> Average concentration from the SLDS CY 2017 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 2017**

Location	Average Concentration ( $\mu\text{Ci/mL}$ ) for Location <sup>a</sup>	
	Gross Alpha	Gross Beta
Destrehan Street	4.01E-15	2.71E-14
Plant 1	6.79E-15	2.84E-14
Plant 6 Loadout	3.73E-15	2.86E-14
Background Concentration <sup>b</sup>	4.93E-15	2.13E-14

<sup>a</sup> Average concentration values for the sampling period by location.

<sup>b</sup> 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 2017**

Excavation Location Name	Surface Area (m <sup>2</sup> )	Start Date <sup>a</sup>	Backfill Date <sup>a</sup>
Plant 6WH, Building 101/Destrehan Street Survey Unit (SU)-19A	438	01/01/17	01/18/17
Plant 6WH, Building 101/Destrehan Street SU-19B	554	01/01/17	09/27/17
Destrehan Street/Plant 7W SU-1B	358	01/01/17	02/27/17
Destrehan Street/Plant 7W SU-1C	61	01/01/17	04/06/17
Destrehan Street/Plant 7W SU-1D	10	01/01/17	04/06/17
Destrehan Street/Plant 7W SU-2	848	02/16/17	04/11/17
Destrehan Street/Plant 7W SU-3A	356	04/13/17	08/21/17
Destrehan Street/Plant 7W SU-3B	680	07/17/17	09/27/17
Destrehan Street/Plant 7W SU-4A	256	08/01/17	10/30/17
Destrehan Street/Plant 7W SU-4B	384	09/18/17	12/21/17
Destrehan Street/Plant 7W SU-5A	452	11/13/17	12/31/17
Plant 1, Building 17 SU-1A	156	06/08/17	07/03/17
Plant 1, Building 17 SU-1B	89	06/08/17	07/12/17
Plant 1, Building 17 SU-1C	48	09/18/17	10/04/17
Plant 1, Building 17 SU-1D	27	09/18/17	10/24/17
Plant 1, Building 17 SU-1E	43	09/18/17	11/08/17
Plant 1, Building 17 SU-1F	45	09/18/17	12/31/17
Plant 1, Building 17 SU-1G	43	09/25/17	12/31/17
Plant 1, Building 17 SU-1H	65	09/18/17	12/31/17

<sup>a</sup> 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 2017**

Location	Total Days	Surface Area × Total Days	Average Surface Area/Year (A) <sup>a</sup> (m <sup>2</sup> )	Diameter of Stack D = (1.3 A) <sup>1/2</sup> (m)	Flow Rate F = V π [(D) <sup>2</sup> / 4]*60 (m <sup>3</sup> /minute)
<b>Destrehan St</b>					
Plant 6WH, Building 101 / Destrehan Street SU-19A	18	7,884			
Plant 6WH, Building 101 / Destrehan Street SU-19B	270	149,580			
Destrehan Street/Plant 7W SU-1B	58	20,764			
Destrehan Street/Plant 7W SU-1C	96	5,856			
Destrehan Street/Plant 7W SU-1D	96	960			
Destrehan Street/Plant 7W SU-2	55	46,640			
Destrehan Street/Plant 7W SU-3A	131	46,636			
Destrehan Street/Plant 7W SU-3B	73	49,640			
Destrehan Street/Plant 7W SU-4A	91	23,296			
Destrehan Street/Plant 7W SU-4B	95	36,480			
Destrehan Street/Plant 7W SU-5A	49	22,148			
<b>Total</b>		409,884	1,123	38	3.1E+05
<b>Plant 1</b>					
Plant 1, Building 17 SU-1A	26	4,056			
Plant 1, Building 17 SU-1B	35	3,115			
Plant 1, Building 17 SU-1C	17	816			
Plant 1, Building 17 SU-1D	37	999			
Plant 1, Building 17 SU-1E	52	2,236			
Plant 1, Building 17 SU-1F	105	4,725			
Plant 1, Building 17 SU-1G	98	4,214			
Plant 1, Building 17 SU-1H	105	6,825			
<b>Total</b>		26,986	74	10	2.0E+04
<b>Plant 6 Loadout</b>					
Plant 6 Loadout	365	167,900			
<b>Total</b>		167,900	460	24	1.3E+05 <sup>b</sup>

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

<sup>b</sup> 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 2017**

Property Radionuclide	Destrehan Street			Plant 1			Plant 6 Loadout		
	Activity Fraction <sup>a</sup>	Emission Conc. (μCi/cm <sup>3</sup> ) <sup>b</sup>	Release Rate (Ci/year) <sup>c</sup>	Activity Fraction <sup>a</sup>	Emission Conc. (μCi/cm <sup>3</sup> ) <sup>b</sup>	Release Rate (Ci/year) <sup>c</sup>	Activity Fraction <sup>a</sup>	Emission Conc. (μCi/cm <sup>3</sup> ) <sup>b</sup>	Release Rate (Ci/year) <sup>c</sup>
U-238	0.32	1.3E-15	2.1E-04	0.31	2.1E-15	2.2E-05	0.25	9.2E-16	6.1E-05
U-235	0.02	6.6E-17	1.1E-05	0.02	1.2E-16	1.2E-06	0.07	2.4E-16	1.6E-05
U-234 <sup>d</sup>	0.32	1.3E-15	2.1E-04	0.31	2.1E-15	2.2E-05	0.25	9.2E-16	6.1E-05
Ra-226	0.07	3.0E-16	4.8E-05	0.10	6.9E-16	7.4E-06	0.13	4.9E-16	3.2E-05
Th-232	0.03	1.0E-16	1.7E-05	0.04	2.8E-16	3.0E-06	0.03	1.2E-16	8.1E-06
Th-230	0.14	5.8E-16	9.3E-05	0.10	6.7E-16	7.1E-06	0.08	3.1E-16	2.0E-05
Th-228	0.03	1.2E-16	1.9E-05	0.05	3.2E-16	3.4E-06	0.03	1.2E-16	8.1E-06
Ra-224 <sup>d</sup>	0.03	1.2E-16	1.9E-05	0.05	3.2E-16	3.4E-06	0.03	1.2E-16	8.1E-06
Th-234	0.45	1.2E-14	2.0E-03	0.43	1.2E-14	1.3E-04	0.39	1.1E-14	7.5E-04
Pa-234m <sup>d</sup>	0.45	1.2E-14	2.0E-03	0.43	1.2E-14	1.3E-04	0.39	1.1E-14	7.5E-04
Th-231	0.02	6.3E-16	1.0E-04	0.02	6.8E-16	7.2E-06	0.11	3.0E-15	2.0E-04
Ra-228	0.04	9.7E-16	1.6E-04	0.06	1.7E-15	1.8E-05	0.05	1.5E-15	9.9E-05
Ac-228 <sup>d</sup>	0.04	9.7E-16	1.6E-04	0.06	1.7E-15	1.8E-05	0.05	1.5E-15	9.9E-05
Pa-231 <sup>d</sup>	0.02	6.6E-17	1.1E-05	0.02	1.2E-16	1.2E-06	0.07	2.4E-16	1.6E-05
Ac-227 <sup>d</sup>	0.02	6.6E-17	1.1E-05	0.02	1.2E-16	1.2E-06	0.07	2.4E-16	1.6E-05

<sup>a</sup> Derived from the average soil radionuclide concentrations for the SLDS, as presented in Table A-1-1.

<sup>b</sup> Emission concentration is equal to the activity fraction times the gross alpha or gross beta airborne particulate concentrations listed in Table A-1-2.

<sup>c</sup> 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 cm<sup>3</sup>).

<sup>d</sup> When data were not available, the radionuclide was assumed to be in secular equilibrium with parent radionuclide.

Conc. – concentration

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**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

Thu Apr 05 08:08:19 2018

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

Source Category: Area  
  Source Type: Area  
  Emission Year: 2017  
DOSE Age Group: Adult

Comments: Air

Dataset Name: Destrehan Street  
Dataset Date: Apr 5, 2018 08:08 AM  
Wind File: C:\Users\passigm\Documents\CAP88\Wind Files\13994.WND

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	3.16E-02
UB_Wall	3.43E-02
Bone_Sur	2.57E+00
Brain	3.30E-02
Breasts	3.57E-02
St_Wall	3.34E-02
SI_Wall	3.32E-02
ULI_Wall	3.56E-02
LLI_Wall	4.08E-02
Kidneys	7.70E-02
Liver	1.64E-01
Muscle	3.66E-02
Ovaries	5.05E-02
Pancreas	3.18E-02
R_Marrow	1.54E-01
Skin	4.90E-01
Spleen	3.36E-02
Testes	5.49E-02
Thymus	3.31E-02
Thyroid	3.43E-02
GB_Wall	3.20E-02
Ht_Wall	3.30E-02
Uterus	3.28E-02
ET_Reg	1.80E-01
Lung_66	5.38E-01
Effectiv	1.50E-01

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	1.10E-02
INHALATION	1.09E-01
AIR IMMERSION	1.15E-06
GROUND SURFACE	3.05E-02
INTERNAL	1.20E-01
EXTERNAL	3.05E-02
TOTAL	1.50E-01

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	9.42E-03
Th-234	6.38E-04
Pa-234m	3.57E-03
Pa-234	7.04E-05
U-234	1.13E-02
Th-230	2.42E-02
Ra-226	4.05E-03
Rn-222	2.70E-06
Po-218	4.82E-11
Pb-214	1.76E-03
At-218	1.81E-10
Bi-214	1.03E-02
Rn-218	1.05E-12
Po-214	5.71E-07
Tl-210	4.02E-06
Pb-210	8.66E-06
Bi-210	1.40E-04
Hg-206	1.13E-11
Po-210	3.63E-08
Tl-206	3.27E-10
U-235	7.73E-04
Th-231	2.54E-05
Pa-231	1.94E-02
Ac-227	1.47E-02
Th-227	1.86E-04
Fr-223	1.75E-06
Ra-223	2.08E-04
Rn-219	9.00E-05
At-219	0.00E+00
Bi-215	4.04E-10
Po-215	2.75E-07
Pb-211	1.77E-04
Bi-211	7.28E-05
Tl-207	9.15E-05
Po-211	3.50E-08
Th-232	8.10E-03
Ra-228	1.46E-02
Ac-228	5.10E-03
Th-228	1.22E-02
Ra-224	8.32E-04
Rn-220	3.53E-06
Po-216	8.53E-08
Pb-212	7.76E-04
Bi-212	9.06E-04
Po-212	0.00E+00
Tl-208	6.26E-03
TOTAL	1.50E-01

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
--------	--

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	2.25E-09
INHALATION	2.37E-08
AIR IMMERSION	5.69E-13
GROUND SURFACE	1.47E-08
INTERNAL	2.59E-08
EXTERNAL	1.47E-08
TOTAL	4.06E-08

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
-----	-----
U-238	3.09E-09
Th-234	2.53E-10
Pa-234m	6.25E-10
Pa-234	3.83E-11
U-234	3.90E-09
Th-230	5.33E-09
Ra-226	2.40E-09
Rn-222	1.47E-12
Po-218	2.15E-17
Pb-214	9.43E-10
At-218	2.23E-17
Bi-214	5.44E-09
Rn-218	5.74E-19
Po-214	3.13E-13
Tl-210	2.15E-12
Pb-210	3.88E-12
Bi-210	1.55E-11
Hg-206	5.01E-18
Po-210	1.99E-14
Tl-206	3.67E-17
U-235	3.06E-10
Th-231	1.15E-11
Pa-231	8.37E-10
Ac-227	1.83E-09
Th-227	1.01E-10
Fr-223	6.52E-13
Ra-223	1.12E-10
Rn-219	4.92E-11
At-219	0.00E+00
Bi-215	1.80E-16
Po-215	1.51E-13
Pb-211	6.31E-11
Bi-211	3.98E-11
Tl-207	1.18E-11
Po-211	1.92E-14
Th-232	1.76E-09
Ra-228	1.89E-09
Ac-228	2.71E-09
Th-228	4.37E-09
Ra-224	3.13E-10
Rn-220	1.93E-12
Po-216	4.69E-14
Pb-212	4.22E-10
Bi-212	3.49E-10
Po-212	0.00E+00
Tl-208	3.40E-09
TOTAL	4.06E-08

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 5

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

Direction	Distance (m)				
	275	280	610	3115	
N	1.5E-01	1.5E-01	4.1E-02	1.1E-02	
NNW	8.1E-02	7.9E-02	2.5E-02	1.0E-02	
NW	9.4E-02	9.1E-02	2.8E-02	1.0E-02	
WNW	1.1E-01	1.1E-01	3.2E-02	1.0E-02	school
W	8.7E-02	8.5E-02	2.7E-02	1.0E-02	
WSW	4.7E-02	4.5E-02	1.7E-02	9.5E-03	
SW	6.2E-02	6.1E-02	2.1E-02	9.7E-03	resident
SSW	7.5E-02	7.3E-02	2.4E-02	9.9E-03	
S	6.7E-02	6.5E-02	2.2E-02	9.8E-03	
SSE	4.9E-02	4.8E-02	1.8E-02	9.6E-03	
SSE	6.8E-02	6.6E-02	2.2E-02	9.9E-03	
ESE	1.1E-01	1.1E-01	3.2E-02	1.0E-02	
E	1.4E-01	1.4E-01	3.9E-02	1.1E-02	business
ENE	1.2E-01	1.2E-01	3.3E-02	1.0E-02	
NE	7.6E-02	7.4E-02	2.4E-02	9.9E-03	farmer
NNE	6.5E-02	6.3E-02	2.2E-02	9.8E-03	

Note: Highlighted EDE values (in mrem) are applicable to the critical receptors as defined in the 2017 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.

Thu Apr 05 08:08:19 2018

SUMMARY  
Page 6

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

---

Direction	Distance (m)			
	275	280	610	3115
N	4.1E-08	3.9E-08	1.1E-08	2.4E-09
NNW	2.2E-08	2.1E-08	6.4E-09	2.1E-09
NW	2.5E-08	2.4E-08	7.2E-09	2.2E-09
WNW	3.1E-08	3.0E-08	8.3E-09	2.2E-09
W	2.3E-08	2.3E-08	6.7E-09	2.1E-09
WSW	1.2E-08	1.2E-08	4.2E-09	2.0E-09
SW	1.7E-08	1.6E-08	5.1E-09	2.0E-09
SSW	2.0E-08	1.9E-08	5.9E-09	2.1E-09
S	1.8E-08	1.7E-08	5.5E-09	2.1E-09
SSE	1.3E-08	1.3E-08	4.4E-09	2.0E-09
SSE	1.8E-08	1.7E-08	5.6E-09	2.1E-09
ESE	3.0E-08	2.9E-08	8.1E-09	2.2E-09
E	3.8E-08	3.7E-08	1.0E-08	2.3E-09
ENE	3.2E-08	3.1E-08	8.6E-09	2.3E-09
NE	2.0E-08	2.0E-08	6.0E-09	2.1E-09
NNE	1.7E-08	1.7E-08	5.3E-09	2.1E-09

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# 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

Thu Apr 05 08:17:53 2018

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

Source Category: Area  
  Source Type: Area  
  Emission Year: 2017  
DOSE Age Group: Adult

Comments: Air

Dataset Name: Plant 1.  
Dataset Date: Apr 5, 2018 08:17 AM  
Wind File: C:\Users\passigm\Documents\CAP88\Wind Files\13994.WND

Thu Apr 05 08:17:53 2018

SUMMARY  
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	3.07E-03
UB_Wall	3.35E-03
Bone_Sur	2.01E-01
Brain	3.22E-03
Breasts	3.49E-03
St_Wall	3.25E-03
SI_Wall	3.23E-03
ULI_Wall	3.41E-03
LLI_Wall	3.81E-03
Kidneys	6.57E-03
Liver	1.36E-02
Muscle	3.58E-03
Ovaries	4.55E-03
Pancreas	3.10E-03
R_Marrow	1.29E-02
Skin	4.25E-02
Spleen	3.28E-03
Testes	4.99E-03
Thymus	3.23E-03
Thyroid	3.35E-03
GB_Wall	3.11E-03
Ht_Wall	3.22E-03
Uterus	3.19E-03
ET_Reg	1.60E-02
Lung_66	4.86E-02
Effectiv	1.32E-02

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	8.85E-04
INHALATION	9.18E-03
AIR IMMERSION	8.06E-08
GROUND SURFACE	3.08E-03
INTERNAL	1.01E-02
EXTERNAL	3.08E-03
TOTAL	1.32E-02

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SUMMARY  
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NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	7.20E-04
Th-234	3.77E-05
Pa-234m	2.74E-04
Pa-234	5.40E-06
U-234	8.68E-04
Th-230	1.35E-03
Ra-226	4.49E-04
Rn-222	3.03E-07
Po-218	5.41E-12
Pb-214	1.98E-04
At-218	2.03E-11
Bi-214	1.16E-03
Rn-218	1.18E-13
Po-214	6.40E-08
Tl-210	4.51E-07
Pb-210	9.73E-07
Bi-210	1.57E-05
Hg-206	1.27E-12
Po-210	4.08E-09
Tl-206	3.67E-11
U-235	6.18E-05
Th-231	2.03E-06
Pa-231	1.55E-03
Ac-227	1.17E-03
Th-227	1.50E-05
Fr-223	1.41E-07
Ra-223	1.67E-05
Rn-219	7.25E-06
At-219	0.00E+00
Bi-215	3.26E-11
Po-215	2.21E-08
Pb-211	1.42E-05
Bi-211	5.86E-06
Tl-207	7.37E-06
Po-211	2.82E-09
Th-232	1.04E-03
Ra-228	1.18E-03
Ac-228	5.08E-04
Th-228	1.59E-03
Ra-224	1.07E-04
Rn-220	3.55E-07
Po-216	8.56E-09
Pb-212	7.80E-05
Bi-212	9.09E-05
Po-212	0.00E+00
Tl-208	6.28E-04
TOTAL	1.32E-02

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SUMMARY  
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
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PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	2.17E-10
INHALATION	2.09E-09
AIR IMMERSION	4.12E-14
GROUND SURFACE	1.52E-09
INTERNAL	2.31E-09
EXTERNAL	1.52E-09
TOTAL	3.83E-09

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SUMMARY  
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NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
-----	-----
U-238	2.37E-10
Th-234	1.59E-11
Pa-234m	4.80E-11
Pa-234	2.94E-12
U-234	2.98E-10
Th-230	2.97E-10
Ra-226	2.63E-10
Rn-222	1.65E-13
Po-218	2.42E-18
Pb-214	1.06E-10
At-218	2.51E-18
Bi-214	6.10E-10
Rn-218	6.45E-20
Po-214	3.51E-14
Tl-210	2.41E-13
Pb-210	4.36E-13
Bi-210	1.74E-12
Hg-206	5.63E-19
Po-210	2.24E-15
Tl-206	4.13E-18
U-235	2.45E-11
Th-231	9.25E-13
Pa-231	6.68E-11
Ac-227	1.46E-10
Th-227	8.11E-12
Fr-223	5.25E-14
Ra-223	9.04E-12
Rn-219	3.97E-12
At-219	0.00E+00
Bi-215	1.45E-17
Po-215	1.21E-14
Pb-211	5.09E-12
Bi-211	3.20E-12
Tl-207	9.47E-13
Po-211	1.55E-15
Th-232	2.28E-10
Ra-228	1.54E-10
Ac-228	2.69E-10
Th-228	5.71E-10
Ra-224	3.99E-11
Rn-220	1.94E-13
Po-216	4.71E-15
Pb-212	4.24E-11
Bi-212	3.51E-11
Po-212	0.00E+00
Tl-208	3.42E-10
TOTAL	3.83E-09

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

Direction	Distance (m)				
	325	420	520	3015	
N	1.3E-02	8.4E-03	5.9E-03	9.7E-04	
NNW	7.1E-03	4.7E-03	3.4E-03	8.5E-04	
NW	8.2E-03	5.4E-03	3.8E-03	8.7E-04	
WNW	9.9E-03	6.4E-03	4.5E-03	9.0E-04	
W	7.6E-03	5.0E-03	3.6E-03	8.5E-04	school
WSW	4.0E-03	2.8E-03	2.1E-03	7.9E-04	
SW	5.4E-03	3.6E-03	2.7E-03	8.1E-04	resident
SSW	6.5E-03	4.3E-03	3.1E-03	8.3E-04	
S	5.8E-03	3.9E-03	2.8E-03	8.2E-04	
SSE	4.3E-03	2.9E-03	2.2E-03	7.9E-04	
SSE	5.9E-03	3.9E-03	2.9E-03	8.3E-04	business
ESE	9.6E-03	6.2E-03	4.4E-03	8.9E-04	
E	1.2E-02	7.9E-03	5.5E-03	9.4E-04	
ENE	1.0E-02	6.7E-03	4.7E-03	9.0E-04	
NE	6.6E-03	4.3E-03	3.2E-03	8.4E-04	farmer
NNE	5.6E-03	3.8E-03	2.8E-03	8.2E-04	

Note: Highlighted EDE values (in mrem) are applicable to the critical receptors as defined in the 2017 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  
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INDIVIDUAL LIFETIME RISK (deaths)  
(All Radionuclides and Pathways)

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Direction	Distance (m)			
	325	420	520	3015
N	3.8E-09	2.4E-09	1.7E-09	2.5E-10
NNW	2.0E-09	1.3E-09	9.6E-10	2.2E-10
NW	2.4E-09	1.5E-09	1.1E-09	2.2E-10
WNW	2.9E-09	1.8E-09	1.3E-09	2.3E-10
W	2.2E-09	1.4E-09	1.0E-09	2.2E-10
WSW	1.2E-09	7.8E-10	5.8E-10	2.0E-10
SW	1.6E-09	1.0E-09	7.5E-10	2.0E-10
SSW	1.9E-09	1.2E-09	8.8E-10	2.1E-10
S	1.7E-09	1.1E-09	8.0E-10	2.1E-10
SSE	1.2E-09	8.3E-10	6.2E-10	2.0E-10
SSE	1.7E-09	1.1E-09	8.2E-10	2.1E-10
ESE	2.8E-09	1.8E-09	1.3E-09	2.3E-10
E	3.6E-09	2.3E-09	1.6E-09	2.4E-10
ENE	3.0E-09	1.9E-09	1.3E-09	2.3E-10
NE	1.9E-09	1.2E-09	8.9E-10	2.1E-10
NNE	1.6E-09	1.1E-09	7.8E-10	2.1E-10

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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

Thu Apr 05 08:40:28 2018

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

Source Category: Area  
Source Type: Area  
Emission Year: 2017  
DOSE Age Group: Adult

Comments: Air

Dataset Name: SLDS Plant 6 Loa  
Dataset Date: Apr 5, 2018 08:40 AM  
Wind File: C:\Users\passigm\Documents\CAP88\Wind Files\13994.WND

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SUMMARY  
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem)
Adrenal	6.05E-02
UB_Wall	6.53E-02
Bone_Sur	6.32E+00
Brain	6.29E-02
Breasts	6.77E-02
St_Wall	6.35E-02
SI_Wall	6.31E-02
ULI_Wall	6.77E-02
LLI_Wall	7.71E-02
Kidneys	1.38E-01
Liver	4.92E-01
Muscle	6.91E-02
Ovaries	1.12E-01
Pancreas	6.09E-02
R_Marrow	3.39E-01
Skin	6.02E-01
Spleen	6.39E-02
Testes	1.20E-01
Thymus	6.32E-02
Thyroid	6.52E-02
GB_Wall	6.11E-02
Ht_Wall	6.30E-02
Uterus	6.25E-02
ET_Reg	5.07E-01
Lung_66	1.66E+00
Effectiv	3.91E-01

PATHWAY COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem)
INGESTION	1.09E-02
INHALATION	3.29E-01
AIR IMMERSION	1.72E-06
GROUND SURFACE	5.07E-02
INTERNAL	3.40E-01
EXTERNAL	5.08E-02
TOTAL	3.91E-01

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SUMMARY  
Page 2

NUCLIDE COMMITTED EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem)
U-238	7.30E-03
Th-234	5.42E-04
Pa-234m	2.77E-03
Pa-234	5.47E-05
U-234	8.80E-03
Th-230	1.40E-03
Ra-226	6.23E-03
Rn-222	4.65E-06
Po-218	8.31E-11
Pb-214	3.04E-03
At-218	3.13E-10
Bi-214	1.78E-02
Rn-218	1.81E-12
Po-214	9.84E-07
Tl-210	6.93E-06
Pb-210	1.50E-05
Bi-210	2.42E-04
Hg-206	1.95E-11
Po-210	6.27E-08
Tl-206	5.65E-10
U-235	3.00E-03
Th-231	9.90E-05
Pa-231	7.64E-02
Ac-227	5.79E-02
Th-227	7.18E-04
Fr-223	6.77E-06
Ra-223	8.03E-04
Rn-219	3.48E-04
At-219	0.00E+00
Bi-215	1.56E-09
Po-215	1.06E-06
Pb-211	6.83E-04
Bi-211	2.81E-04
Tl-207	3.54E-04
Po-211	1.35E-07
Th-232	1.04E-02
Ra-228	1.99E-02
Ac-228	7.72E-03
Th-228	1.41E-01
Ra-224	9.09E-03
Rn-220	6.36E-06
Po-216	1.54E-07
Pb-212	1.40E-03
Bi-212	1.63E-03
Po-212	0.00E+00
Tl-208	1.13E-02
TOTAL	3.91E-01

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SUMMARY  
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
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PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	2.32E-09
INHALATION	7.68E-08
AIR IMMERSION	8.79E-13
GROUND SURFACE	2.55E-08
INTERNAL	7.91E-08
EXTERNAL	2.55E-08
TOTAL	1.05E-07

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SUMMARY  
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	2.44E-09
Th-234	2.15E-10
Pa-234m	4.86E-10
Pa-234	2.97E-11
U-234	3.03E-09
Th-230	3.10E-10
Ra-226	3.27E-09
Rn-222	2.54E-12
Po-218	3.71E-17
Pb-214	1.62E-09
At-218	3.85E-17
Bi-214	9.38E-09
Rn-218	9.90E-19
Po-214	5.40E-13
Tl-210	3.70E-12
Pb-210	6.71E-12
Bi-210	2.68E-11
Hg-206	8.66E-18
Po-210	3.44E-14
Tl-206	6.35E-17
U-235	1.20E-09
Th-231	4.49E-11
Pa-231	3.31E-09
Ac-227	7.24E-09
Th-227	3.89E-10
Fr-223	2.52E-12
Ra-223	4.34E-10
Rn-219	1.90E-10
At-219	0.00E+00
Bi-215	6.98E-16
Po-215	5.82E-13
Pb-211	2.44E-10
Bi-211	1.54E-10
Tl-207	4.55E-11
Po-211	7.42E-14
Th-232	2.28E-09
Ra-228	2.89E-09
Ac-228	4.09E-09
Th-228	5.05E-08
Ra-224	3.31E-09
Rn-220	3.48E-12
Po-216	8.44E-14
Pb-212	7.60E-10
Bi-212	6.29E-10
Po-212	0.00E+00
Tl-208	6.12E-09
TOTAL	1.05E-07

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

Direction	Distance (m)				
	160	495	750	2915	
N	3.9E-01	5.5E-02	2.9E-02	9.9E-03	
NNW	2.0E-01	3.2E-02	1.9E-02	8.9E-03	
NW	2.4E-01	3.6E-02	2.1E-02	9.0E-03	
WNW	2.9E-01	4.2E-02	2.4E-02	9.3E-03	
W	2.2E-01	3.4E-02	2.0E-02	8.9E-03	school
WSW	1.1E-01	2.0E-02	1.3E-02	8.3E-03	
SW	1.5E-01	2.5E-02	1.6E-02	8.5E-03	resident
SSW	1.9E-01	3.0E-02	1.8E-02	8.7E-03	
S	1.6E-01	2.7E-02	1.7E-02	8.7E-03	
SSE	1.2E-01	2.1E-02	1.4E-02	8.4E-03	business
SSE	1.7E-01	2.7E-02	1.7E-02	8.7E-03	
ESE	2.8E-01	4.1E-02	2.3E-02	9.3E-03	
E	3.7E-01	5.2E-02	2.8E-02	9.7E-03	
ENE	3.1E-01	4.4E-02	2.4E-02	9.3E-03	
NE	1.9E-01	3.0E-02	1.8E-02	8.8E-03	farmer
NNE	1.6E-01	2.6E-02	1.6E-02	8.6E-03	

Note: Highlighted EDE values (in mrem) are applicable to the critical receptors as defined in the 2017 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  
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INDIVIDUAL LIFETIME RISK (deaths)  
(All Radionuclides and Pathways)

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Direction	Distance (m)			
	160	495	750	2915
N	1.0E-07	1.4E-08	7.5E-09	2.2E-09
NNW	5.4E-08	8.2E-09	4.7E-09	2.0E-09
NW	6.4E-08	9.3E-09	5.2E-09	2.0E-09
WNW	7.8E-08	1.1E-08	5.9E-09	2.1E-09
W	5.9E-08	8.7E-09	4.9E-09	2.0E-09
WSW	2.9E-08	5.0E-09	3.2E-09	1.8E-09
SW	4.1E-08	6.4E-09	3.8E-09	1.9E-09
SSW	5.0E-08	7.6E-09	4.4E-09	1.9E-09
S	4.4E-08	6.9E-09	4.1E-09	1.9E-09
SSE	3.1E-08	5.3E-09	3.4E-09	1.8E-09
SSE	4.4E-08	7.0E-09	4.1E-09	1.9E-09
ESE	7.5E-08	1.1E-08	5.8E-09	2.1E-09
E	9.9E-08	1.4E-08	7.1E-09	2.2E-09
ENE	8.2E-08	1.1E-08	6.1E-09	2.1E-09
NE	5.0E-08	7.7E-09	4.4E-09	1.9E-09
NNE	4.3E-08	6.7E-09	4.0E-09	1.9E-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 2017**

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
HIS194067	BAP-001	01/03/17	Gross Alpha/Beta	Gross Alpha	7.86E-15	1.47E-15	4.62E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194067	BAP-001	01/03/17	Gross Alpha/Beta	Gross Alpha	8.32E-15	1.51E-15	4.62E-16	µCi/mL			HISS Air (Particulate Air)-Environmental Monitoring
HIS194067	BAP-001	01/03/17	Gross Alpha/Beta	Gross Beta	2.25E-14	2.47E-15	8.72E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194067	BAP-001	01/03/17	Gross Alpha/Beta	Gross Beta	2.26E-14	2.47E-15	8.72E-16	µCi/mL			HISS Air (Particulate Air)-Environmental Monitoring
HIS194068	BAP-001	01/09/17	Gross Alpha/Beta	Gross Alpha	8.52E-15	1.64E-15	5.40E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194068	BAP-001	01/09/17	Gross Alpha/Beta	Gross Beta	2.32E-14	2.65E-15	1.02E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194069	BAP-001	01/17/17	Gross Alpha/Beta	Gross Alpha	6.34E-15	1.29E-15	4.52E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194069	BAP-001	01/17/17	Gross Alpha/Beta	Gross Beta	2.56E-14	2.68E-15	8.53E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194070	BAP-001	01/23/17	Gross Alpha/Beta	Gross Alpha	7.02E-15	1.53E-15	5.84E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194070	BAP-001	01/23/17	Gross Alpha/Beta	Gross Beta	2.26E-14	2.68E-15	1.10E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194071	BAP-001	01/30/17	Gross Alpha/Beta	Gross Alpha	5.81E-15	1.29E-15	4.98E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194071	BAP-001	01/30/17	Gross Alpha/Beta	Gross Beta	1.85E-14	2.23E-15	9.40E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194072	BAP-001	02/06/17	Gross Alpha/Beta	Gross Alpha	6.06E-15	1.34E-15	5.20E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194072	BAP-001	02/06/17	Gross Alpha/Beta	Gross Beta	2.10E-14	2.45E-15	9.81E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194073	BAP-001	02/13/17	Gross Alpha/Beta	Gross Alpha	6.50E-15	1.36E-15	4.90E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194073	BAP-001	02/13/17	Gross Alpha/Beta	Gross Beta	2.55E-14	2.73E-15	9.24E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194074	BAP-001	02/21/17	Gross Alpha/Beta	Gross Alpha	4.67E-15	1.11E-15	4.60E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194074	BAP-001	02/21/17	Gross Alpha/Beta	Gross Beta	1.75E-14	2.09E-15	8.68E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194075	BAP-001	02/27/17	Gross Alpha/Beta	Gross Alpha	3.82E-15	1.11E-15	5.72E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194075	BAP-001	02/27/17	Gross Alpha/Beta	Gross Beta	2.05E-14	2.50E-15	1.08E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194076	BAP-001	03/06/17	Gross Alpha/Beta	Gross Alpha	4.87E-15	1.21E-15	5.32E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194076	BAP-001	03/06/17	Gross Alpha/Beta	Gross Beta	2.46E-14	2.74E-15	1.00E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194077	BAP-001	03/13/17	Gross Alpha/Beta	Gross Alpha	3.06E-15	9.25E-16	4.96E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194077	BAP-001	03/13/17	Gross Alpha/Beta	Gross Beta	1.17E-14	1.70E-15	9.35E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194078	BAP-001	03/20/17	Gross Alpha/Beta	Gross Alpha	3.41E-15	9.90E-16	5.11E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194078	BAP-001	03/20/17	Gross Alpha/Beta	Gross Beta	2.21E-14	2.52E-15	9.63E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194079	BAP-001	03/27/17	Gross Alpha/Beta	Gross Alpha	2.16E-15	8.25E-16	5.49E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194079	BAP-001	03/27/17	Gross Alpha/Beta	Gross Beta	1.81E-14	2.28E-15	1.04E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194080	BAP-001	04/04/17	Gross Alpha/Beta	Gross Alpha	4.10E-15	1.02E-15	4.68E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194080	BAP-001	04/04/17	Gross Alpha/Beta	Gross Alpha	3.05E-15	8.79E-16	4.68E-16	µCi/mL			HISS Air (Particulate Air)-Environmental Monitoring
HIS194080	BAP-001	04/04/17	Gross Alpha/Beta	Gross Beta	1.07E-14	1.51E-15	8.22E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194080	BAP-001	04/04/17	Gross Alpha/Beta	Gross Beta	1.16E-14	1.58E-15	8.22E-16	µCi/mL			HISS Air (Particulate Air)-Environmental Monitoring
HIS194081	BAP-001	04/10/17	Gross Alpha/Beta	Gross Alpha	4.07E-15	1.15E-15	6.03E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194081	BAP-001	04/10/17	Gross Alpha/Beta	Gross Beta	1.28E-14	1.87E-15	1.06E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194082	BAP-001	04/17/17	Gross Alpha/Beta	Gross Alpha	6.00E-15	1.37E-15	5.70E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194082	BAP-001	04/17/17	Gross Alpha/Beta	Gross Beta	1.69E-14	2.14E-15	1.00E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194083	BAP-001	04/24/17	Gross Alpha/Beta	Gross Alpha	4.13E-15	1.05E-15	4.92E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194083	BAP-001	04/24/17	Gross Alpha/Beta	Gross Beta	1.26E-14	1.69E-15	8.63E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194084	BAP-001	05/01/17	Gross Alpha/Beta	Gross Alpha	2.36E-15	8.59E-16	5.68E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194084	BAP-001	05/01/17	Gross Alpha/Beta	Gross Beta	1.13E-14	1.70E-15	9.97E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194085	BAP-001	05/08/17	Gross Alpha/Beta	Gross Alpha	3.00E-15	9.05E-16	5.06E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194085	BAP-001	05/08/17	Gross Alpha/Beta	Gross Beta	1.43E-14	1.85E-15	8.87E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194086	BAP-001	05/15/17	Gross Alpha/Beta	Gross Alpha	5.22E-15	1.25E-15	5.51E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

**Table B-1. Background Air Particulate Data Results for CY 2017**

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
HIS194086	BAP-001	05/15/17	Gross Alpha/Beta	Gross Beta	2.32E-14	2.60E-15	9.66E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194087	BAP-001	05/19/17	Gross Alpha/Beta	Gross Alpha	3.42E-15	1.38E-15	9.93E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194087	BAP-001	05/19/17	Gross Alpha/Beta	Gross Beta	2.40E-14	3.30E-15	1.74E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194088	BAP-001	05/30/17	Gross Alpha/Beta	Gross Alpha	4.33E-15	1.17E-15	5.81E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194088	BAP-001	05/30/17	Gross Alpha/Beta	Gross Beta	1.67E-14	2.15E-15	1.02E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194089	BAP-001	06/06/17	Gross Alpha/Beta	Gross Alpha	3.55E-15	9.79E-16	5.00E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194089	BAP-001	06/06/17	Gross Alpha/Beta	Gross Beta	2.12E-14	2.37E-15	8.77E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194090	BAP-001	06/13/17	Gross Alpha/Beta	Gross Alpha	2.13E-15	8.28E-16	5.79E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194090	BAP-001	06/13/17	Gross Alpha/Beta	Gross Beta	1.57E-14	2.06E-15	1.02E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194091	BAP-001	06/19/17	Gross Alpha/Beta	Gross Alpha	8.95E-16	6.01E-16	6.23E-16	µCi/mL	J	T04, T20	HISS Air (Particulate Air)-Environmental Monitoring
HIS194091	BAP-001	06/19/17	Gross Alpha/Beta	Gross Beta	1.32E-14	1.93E-15	1.09E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194092	BAP-001	06/26/17	Gross Alpha/Beta	Gross Alpha	1.97E-15	7.64E-16	5.35E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194092	BAP-001	06/26/17	Gross Alpha/Beta	Gross Beta	1.63E-14	2.04E-15	9.38E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194093	BAP-001	07/03/17	Gross Alpha/Beta	Gross Alpha	6.63E-15	1.38E-15	4.72E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194093	BAP-001	07/03/17	Gross Alpha/Beta	Gross Alpha	5.63E-15	1.26E-15	4.72E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194093	BAP-001	07/03/17	Gross Alpha/Beta	Gross Beta	1.99E-14	2.41E-15	1.44E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194093	BAP-001	07/03/17	Gross Alpha/Beta	Gross Beta	1.87E-14	2.32E-15	1.44E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194094	BAP-001	07/10/17	Gross Alpha/Beta	Gross Alpha	7.60E-15	1.54E-15	5.12E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194094	BAP-001	07/10/17	Gross Alpha/Beta	Gross Beta	2.57E-14	2.91E-15	1.56E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194095	BAP-001	07/17/17	Gross Alpha/Beta	Gross Alpha	7.08E-15	1.40E-15	4.49E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194095	BAP-001	07/17/17	Gross Alpha/Beta	Gross Beta	1.94E-14	2.33E-15	1.37E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194096	BAP-001	07/25/17	Gross Alpha/Beta	Gross Alpha	5.40E-15	1.26E-15	4.91E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194096	BAP-001	07/25/17	Gross Alpha/Beta	Gross Beta	2.21E-14	2.61E-15	1.50E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194097	BAP-001	07/31/17	Gross Alpha/Beta	Gross Alpha	5.58E-15	1.33E-15	5.33E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194097	BAP-001	07/31/17	Gross Alpha/Beta	Gross Beta	1.90E-14	2.46E-15	1.62E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194098	BAP-001	08/08/17	Gross Alpha/Beta	Gross Alpha	5.08E-15	1.17E-15	4.51E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194098	BAP-001	08/08/17	Gross Alpha/Beta	Gross Beta	2.16E-14	2.49E-15	1.37E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194099	BAP-001	08/14/17	Gross Alpha/Beta	Gross Alpha	5.99E-15	1.41E-15	5.58E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194099	BAP-001	08/14/17	Gross Alpha/Beta	Gross Beta	2.41E-14	2.89E-15	1.70E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194100	BAP-001	08/21/17	Gross Alpha/Beta	Gross Alpha	5.26E-15	1.29E-15	5.36E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194100	BAP-001	08/21/17	Gross Alpha/Beta	Gross Beta	2.31E-14	2.77E-15	1.63E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194101	BAP-001	08/29/17	Gross Alpha/Beta	Gross Alpha	3.92E-15	9.62E-16	4.00E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194101	BAP-001	08/29/17	Gross Alpha/Beta	Gross Beta	2.18E-14	2.40E-15	1.22E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194102	BAP-001	09/05/17	Gross Alpha/Beta	Gross Alpha	4.00E-15	1.15E-15	5.70E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194102	BAP-001	09/05/17	Gross Alpha/Beta	Gross Beta	2.83E-14	3.22E-15	1.73E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194103	BAP-001	09/11/17	Gross Alpha/Beta	Gross Alpha	3.36E-15	1.04E-15	5.52E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194103	BAP-001	09/11/17	Gross Alpha/Beta	Gross Beta	2.19E-14	2.72E-15	1.68E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194104	BAP-001	09/18/17	Gross Alpha/Beta	Gross Alpha	3.51E-15	9.75E-16	4.64E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194104	BAP-001	09/18/17	Gross Alpha/Beta	Gross Beta	2.68E-14	2.90E-15	1.41E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194105	BAP-001	09/25/17	Gross Alpha/Beta	Gross Alpha	1.96E-15	7.66E-16	5.11E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194105	BAP-001	09/25/17	Gross Alpha/Beta	Gross Beta	3.01E-14	3.23E-15	1.56E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194106	BAP-001	10/02/17	Gross Alpha/Beta	Gross Alpha	9.68E-15	1.75E-15	6.24E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194106	BAP-001	10/02/17	Gross Alpha/Beta	Gross Alpha	8.10E-15	1.59E-15	6.24E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

**Table B-1. Background Air Particulate Data Results for CY 2017**

Sample Name	Station Name	Collect Date	Method	Analyte	Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event
HIS194106	BAP-001	10/02/17	Gross Alpha/Beta	Gross Beta	2.90E-14	3.06E-15	1.01E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194106	BAP-001	10/02/17	Gross Alpha/Beta	Gross Beta	2.99E-14	3.12E-15	1.01E-15	µCi/mL			HISS Air (Particulate Air)-Environmental Monitoring
HIS194107	BAP-001	10/11/17	Gross Alpha/Beta	Gross Alpha	5.97E-15	1.14E-15	4.32E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194107	BAP-001	10/11/17	Gross Alpha/Beta	Gross Beta	1.68E-14	1.87E-15	6.97E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194108	BAP-001	10/16/17	Gross Alpha/Beta	Gross Alpha	4.25E-15	1.32E-15	8.39E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194108	BAP-001	10/16/17	Gross Alpha/Beta	Gross Beta	1.63E-14	2.37E-15	1.35E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194109	BAP-001	10/23/17	Gross Alpha/Beta	Gross Alpha	7.96E-15	1.56E-15	6.08E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194109	BAP-001	10/23/17	Gross Alpha/Beta	Gross Beta	2.62E-14	2.82E-15	9.82E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194110	BAP-001	10/30/17	Gross Alpha/Beta	Gross Alpha	4.38E-15	1.15E-15	6.19E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194110	BAP-001	10/30/17	Gross Alpha/Beta	Gross Beta	1.39E-14	1.90E-15	9.99E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194111	BAP-001	11/06/17	Gross Alpha/Beta	Gross Alpha	6.22E-15	1.34E-15	5.83E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194111	BAP-001	11/06/17	Gross Alpha/Beta	Gross Beta	2.92E-14	3.01E-15	9.42E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194112	BAP-001	11/13/17	Gross Alpha/Beta	Gross Alpha	6.19E-15	1.39E-15	6.37E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194112	BAP-001	11/13/17	Gross Alpha/Beta	Gross Beta	2.56E-14	2.82E-15	1.03E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194113	BAP-001	11/20/17	Gross Alpha/Beta	Gross Alpha	7.13E-15	1.46E-15	5.98E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194113	BAP-001	11/20/17	Gross Alpha/Beta	Gross Beta	2.71E-14	2.88E-15	9.65E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194114	BAP-001	11/27/17	Gross Alpha/Beta	Gross Alpha	4.45E-15	1.18E-15	6.39E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194114	BAP-001	11/27/17	Gross Alpha/Beta	Gross Beta	2.63E-14	2.88E-15	1.03E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194115	BAP-001	12/04/17	Gross Alpha/Beta	Gross Alpha	4.74E-15	1.17E-15	5.90E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194115	BAP-001	12/04/17	Gross Alpha/Beta	Gross Beta	2.75E-14	2.90E-15	9.53E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194116	BAP-001	12/11/17	Gross Alpha/Beta	Gross Alpha	3.19E-15	9.91E-16	6.29E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194116	BAP-001	12/11/17	Gross Alpha/Beta	Gross Beta	2.52E-14	2.78E-15	1.02E-15	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194117	BAP-001	12/18/17	Gross Alpha/Beta	Gross Alpha	3.01E-15	9.26E-16	5.82E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194117	BAP-001	12/18/17	Gross Alpha/Beta	Gross Beta	2.58E-14	2.76E-15	9.39E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194118	BAP-001	12/26/17	Gross Alpha/Beta	Gross Alpha	3.14E-15	8.69E-16	4.95E-16	µCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS194118	BAP-001	12/26/17	Gross Alpha/Beta	Gross Beta	3.41E-14	3.23E-15	7.99E-16	µCi/mL	=		HISS 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.

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 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS194368	BA-1	04/03/17	Radiological	External gamma radiation	19.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
HIS194369	BA-1	07/05/17	Radiological	External gamma radiation	19.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
HIS194370	BA-1	10/02/17	Radiological	External gamma radiation	20.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
HIS200323	BA-1	01/09/18	Radiological	External gamma radiation	20.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017
SLD194391	DA-1	04/03/17	Radiological	External gamma radiation	17.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
SLD194395	DA-1	07/05/17	Radiological	External gamma radiation	15.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
SLD194399	DA-1	10/02/17	Radiological	External gamma radiation	17.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
SLD200335	DA-1	01/09/18	Radiological	External gamma radiation	17.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017
SLD194391-1	DA-1 dup	04/03/17	Radiological	External gamma radiation	17.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
SLD194395-1	DA-1dup	07/05/17	Radiological	External gamma radiation	16.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
SLD194399-1	DA-1dup	10/02/17	Radiological	External gamma radiation	17.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
SLD200335-1	DA-1dup	01/09/18	Radiological	External gamma radiation	17.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017
SLD194392	DA-2	04/03/17	Radiological	External gamma radiation	18.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
SLD194396	DA-2	07/05/17	Radiological	External gamma radiation	19.3	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
SLD194400	DA-2	10/02/17	Radiological	External gamma radiation	19.6	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
SLD200336	DA-2	01/09/18	Radiological	External gamma radiation	19.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017
SLD194393	DA-3	04/03/17	Radiological	External gamma radiation	17.8	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
SLD194397	DA-3	07/05/17	Radiological	External gamma radiation	18.9	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
SLD194401	DA-3	10/02/17	Radiological	External gamma radiation	20.1	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
SLD200337	DA-3	01/09/18	Radiological	External gamma radiation	20.5	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017
SLD194394	DA-6	04/03/17	Radiological	External gamma radiation	19.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-1Q2017
SLD194398	DA-6	07/05/17	Radiological	External gamma radiation	20	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-2Q2017
SLD194402	DA-6	10/02/17	Radiological	External gamma radiation	20.7	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-3Q2017
SLD200338	DA-6	01/09/18	Radiological	External gamma radiation	19.4	0	0.1	mrem	J	Y01	Environmental Monitoring (TLDs)-4Q2017

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 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194185	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Alpha	9.30E-17	4.87E-15	1.06E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194185	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Alpha	1.21E-15	5.36E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194186	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Alpha	1.20E-15	5.31E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194187	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Alpha	-3.21E-15	2.94E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194185	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Beta	1.80E-14	1.38E-14	1.76E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194185	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Beta	3.07E-14	1.51E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194186	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Beta	2.28E-14	1.42E-14	1.75E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194187	P6WH LOADOUT	01/03/17	Gross Alpha/Beta	Gross Beta	2.82E-14	1.47E-14	1.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194188	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Alpha	4.60E-15	6.67E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194189	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Alpha	4.52E-15	6.56E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194190	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.81E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194188	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Beta	3.59E-14	1.58E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194189	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Beta	1.30E-14	1.31E-14	1.75E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194190	P6WH LOADOUT	01/04/17	Gross Alpha/Beta	Gross Beta	3.28E-14	1.53E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194191	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Alpha	9.90E-17	5.19E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194192	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.95E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194193	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Alpha	-1.10E-15	4.64E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194191	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Beta	1.24E-14	1.39E-14	1.88E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194192	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.51E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194193	P6WH LOADOUT	01/05/17	Gross Alpha/Beta	Gross Beta	1.63E-14	1.44E-14	1.89E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194194	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Alpha	2.37E-15	5.91E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194195	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Alpha	1.18E-15	5.25E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194196	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Alpha	4.54E-15	6.59E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194194	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Beta	2.84E-14	1.51E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194195	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Beta	2.45E-14	1.42E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194196	P6WH LOADOUT	01/09/17	Gross Alpha/Beta	Gross Beta	4.53E-14	1.65E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194197	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.27E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194197	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Alpha	3.38E-15	6.12E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194198	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Alpha	-2.08E-15	3.61E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194199	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Alpha	-2.11E-15	3.67E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194197	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Beta	2.39E-14	1.42E-14	1.73E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194197	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Beta	2.32E-14	1.41E-14	1.73E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194198	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Beta	1.27E-14	1.29E-14	1.71E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194199	P6WH LOADOUT	01/10/17	Gross Alpha/Beta	Gross Beta	1.01E-14	1.28E-14	1.74E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194200	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.81E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194201	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Alpha	2.24E-15	5.59E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194202	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Alpha	5.53E-15	6.81E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194200	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Beta	3.70E-14	1.58E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194201	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Beta	4.10E-14	1.57E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194202	P6WH LOADOUT	01/11/17	Gross Alpha/Beta	Gross Beta	5.53E-14	1.72E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194203	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Alpha	6.82E-15	7.37E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194204	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Alpha	1.67E-14	9.90E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194205	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Alpha	8.90E-15	7.89E-15	1.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194203	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Beta	9.31E-14	2.11E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194204	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Beta	7.58E-14	1.94E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194205	P6WH LOADOUT	01/12/17	Gross Alpha/Beta	Gross Beta	8.87E-14	2.05E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194206	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Alpha	-2.17E-15	3.77E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194207	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Alpha	-2.11E-15	3.67E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194208	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Alpha	4.54E-15	6.59E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194206	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Beta	1.11E-14	1.32E-14	1.79E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194207	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Beta	3.88E-15	1.20E-14	1.74E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194208	P6WH LOADOUT	01/17/17	Gross Alpha/Beta	Gross Beta	1.30E-14	1.32E-14	1.75E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194209	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Alpha	2.48E-15	5.95E-15	1.03E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194209	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Alpha	-8.26E-16	4.56E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194210	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Alpha	4.62E-15	6.63E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194211	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Alpha	3.61E-15	6.40E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194209	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Beta	3.66E-14	1.37E-14	1.68E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194209	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Beta	2.76E-14	1.27E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194210	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Beta	2.59E-14	1.23E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194211	P6WH LOADOUT	01/18/17	Gross Alpha/Beta	Gross Beta	2.64E-14	1.26E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194212	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Alpha	-8.40E-16	4.64E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194213	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Alpha	4.72E-15	6.78E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194214	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Alpha	-8.37E-16	4.62E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194212	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Beta	2.10E-14	1.20E-14	1.71E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194213	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Beta	2.22E-14	1.21E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194214	P6WH LOADOUT	01/19/17	Gross Alpha/Beta	Gross Beta	2.09E-14	1.20E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194215	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Alpha	-4.13E-15	2.51E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194216	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Alpha	1.38E-15	5.55E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194217	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Alpha	2.81E-16	5.18E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194215	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Beta	2.41E-14	1.22E-14	1.68E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194216	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Beta	1.16E-14	1.07E-14	1.69E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194217	P6WH LOADOUT	01/23/17	Gross Alpha/Beta	Gross Beta	2.53E-14	1.26E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194218	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Alpha	2.51E-15	6.03E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194219	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Alpha	2.57E-15	6.16E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194220	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Alpha	1.41E-15	5.65E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194218	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Beta	3.36E-14	1.35E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194219	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Beta	3.65E-14	1.41E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194220	P6WH LOADOUT	01/24/17	Gross Alpha/Beta	Gross Beta	3.10E-14	1.33E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194221	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Alpha	1.43E-15	5.72E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194222	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Alpha	7.10E-15	7.65E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194223	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Alpha	1.44E-15	5.77E-15	1.08E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194223	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Alpha	-2.01E-15	4.18E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194221	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Beta	3.29E-14	1.36E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194222	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Beta	4.42E-14	1.49E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194223	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Beta	4.41E-14	1.50E-14	1.76E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194223	P6WH LOADOUT	01/25/17	Gross Alpha/Beta	Gross Beta	4.70E-14	1.53E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194224	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Alpha	2.92E-16	5.37E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194225	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Alpha	2.56E-15	6.13E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194226	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Alpha	-2.01E-15	4.18E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194224	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Beta	3.58E-14	1.42E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194225	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.26E-14	1.73E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194226	P6WH LOADOUT	01/26/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.32E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194227	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Alpha	4.81E-15	6.90E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194228	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Alpha	3.69E-15	6.54E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194229	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Alpha	3.66E-15	6.49E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194227	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Beta	2.62E-14	1.27E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194228	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.26E-14	1.73E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194229	P6WH LOADOUT	01/30/17	Gross Alpha/Beta	Gross Beta	1.75E-14	1.16E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194234	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Alpha	5.40E-15	5.89E-15	7.71E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194234	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Alpha	7.72E-16	3.62E-15	7.71E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194235	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Alpha	3.02E-15	4.78E-15	7.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194236	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Alpha	6.50E-15	6.28E-15	7.64E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194234	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Beta	2.22E-14	1.63E-14	2.52E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194234	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Beta	2.07E-14	1.61E-14	2.52E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194235	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Beta	2.31E-14	1.61E-14	2.47E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194236	P6WH LOADOUT	01/31/17	Gross Alpha/Beta	Gross Beta	3.01E-14	1.69E-14	2.50E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194238	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Alpha	-1.84E-16	5.74E-15	9.73E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194238	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Alpha	2.03E-15	6.54E-15	9.73E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194239	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Alpha	-3.50E-15	4.29E-15	9.73E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194240	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Alpha	-1.90E-16	5.92E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194238	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Beta	1.85E-14	1.23E-14	1.73E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194238	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Beta	3.04E-14	1.37E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194239	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Beta	1.22E-14	1.15E-14	1.73E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194240	P6WH LOADOUT	02/01/17	Gross Alpha/Beta	Gross Beta	1.40E-14	1.21E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194241	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Alpha	3.22E-15	7.09E-15	9.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194242	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Alpha	4.45E-15	7.62E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194243	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Alpha	1.02E-14	9.20E-15	1.02E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194241	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Beta	1.69E-14	1.24E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194242	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Beta	2.31E-14	1.34E-14	1.82E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194243	P6WH LOADOUT	02/02/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.40E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194244	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Alpha	4.37E-15	7.48E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194245	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Alpha	6.57E-15	8.05E-15	9.90E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194246	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Alpha	-1.31E-15	5.37E-15	9.86E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194244	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Beta	3.20E-14	1.42E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194245	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.36E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194246	P6WH LOADOUT	02/06/17	Gross Alpha/Beta	Gross Beta	3.71E-14	1.46E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194247	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Alpha	3.25E-15	7.16E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194248	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Alpha	-1.33E-15	5.44E-15	9.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194249	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Alpha	3.20E-15	7.06E-15	9.95E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194247	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Beta	2.64E-14	1.36E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194248	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Beta	3.26E-14	1.42E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194249	P6WH LOADOUT	02/07/17	Gross Alpha/Beta	Gross Beta	3.96E-14	1.49E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194250	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Alpha	7.94E-15	9.73E-15	1.20E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194251	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Alpha	2.47E-15	7.96E-15	1.18E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194252	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Alpha	9.81E-15	8.26E-15	9.79E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194252	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Alpha	9.81E-15	8.26E-15	9.79E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194250	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.58E-14	2.13E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194251	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Beta	3.27E-14	1.62E-14	2.10E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194252	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Beta	2.38E-14	2.63E-14	3.13E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194252	P6WH LOADOUT	02/08/17	Gross Alpha/Beta	Gross Beta	5.24E-14	2.83E-14	3.13E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194268	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.80E-15	1.01E-14	µCi/mL			SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194268	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Alpha	4.69E-15	6.69E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194269	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Alpha	2.26E-15	5.59E-15	9.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194270	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Alpha	2.26E-15	5.59E-15	9.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194268	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Beta	2.64E-14	1.50E-14	1.83E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194268	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Beta	2.12E-14	1.44E-14	1.83E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194269	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Beta	2.83E-14	1.47E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194270	P6WH LOADOUT	02/09/17	Gross Alpha/Beta	Gross Beta	2.62E-14	1.45E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194271	P6WH LOADOUT	02/13/17	Gross Alpha/Beta	Gross Alpha	7.95E-15	7.59E-15	9.81E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194271	P6WH LOADOUT	02/13/17	Gross Alpha/Beta	Gross Beta	1.27E-14	1.31E-14	1.77E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194272	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Alpha	2.28E-15	5.64E-15	9.85E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194273	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Alpha	3.41E-15	6.06E-15	9.81E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194274	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Alpha	1.04E-14	8.37E-15	9.94E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194272	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Beta	4.66E-14	1.67E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194273	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Beta	2.99E-14	1.50E-14	1.77E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194274	P6WH LOADOUT	02/14/17	Gross Alpha/Beta	Gross Beta	2.01E-14	1.41E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194275	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Alpha	4.52E-15	6.45E-15	9.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194276	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Alpha	2.26E-15	5.59E-15	9.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194277	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Alpha	2.30E-15	5.69E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194275	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Beta	9.75E-15	1.27E-14	1.76E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194276	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Beta	1.76E-14	1.36E-14	1.76E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194277	P6WH LOADOUT	02/15/17	Gross Alpha/Beta	Gross Beta	1.43E-14	1.34E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194278	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.67E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194279	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Alpha	2.30E-15	5.69E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194280	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Alpha	-1.16E-15	4.10E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194278	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Beta	9.20E-15	1.28E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194279	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Beta	1.87E-14	1.39E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194280	P6WH LOADOUT	02/16/17	Gross Alpha/Beta	Gross Beta	7.82E-15	1.28E-14	1.81E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194281	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Alpha	1.26E-14	8.91E-15	9.85E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194282	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Alpha	8.91E-15	7.23E-15	8.81E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194282	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Alpha	8.91E-15	7.23E-15	8.81E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194283	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Alpha	1.16E-14	8.26E-15	9.17E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194281	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Beta	5.30E-14	1.74E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194282	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Beta	6.02E-14	2.30E-14	2.59E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194282	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Beta	6.75E-14	2.36E-14	2.59E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194283	P6WH LOADOUT	02/21/17	Gross Alpha/Beta	Gross Beta	6.04E-14	2.38E-14	2.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194284	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Alpha	9.91E-15	7.49E-15	8.69E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194285	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Alpha	-1.81E-16	3.11E-15	8.43E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194286	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Alpha	9.82E-15	7.42E-15	8.61E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194284	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Beta	2.77E-14	2.03E-14	2.56E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194285	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Beta	1.99E-14	1.92E-14	2.48E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194286	P6WH LOADOUT	02/22/17	Gross Alpha/Beta	Gross Beta	2.96E-14	2.03E-14	2.53E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194287	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Alpha	2.12E-15	4.65E-15	8.97E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194288	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Alpha	4.36E-15	5.59E-15	8.81E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194289	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Alpha	9.27E-16	3.88E-15	8.61E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194287	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Beta	7.00E-15	1.93E-14	2.64E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194288	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Beta	1.93E-14	1.99E-14	2.59E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194289	P6WH LOADOUT	02/23/17	Gross Alpha/Beta	Gross Beta	1.60E-14	1.92E-14	2.53E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194290	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Alpha	-1.32E-15	2.31E-15	8.77E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194291	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Alpha	6.52E-15	6.35E-15	8.65E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194292	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Alpha	7.53E-15	6.65E-15	8.54E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194290	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Beta	1.92E-14	1.98E-14	2.58E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194291	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Beta	2.47E-14	2.00E-14	2.54E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194292	P6WH LOADOUT	02/27/17	Gross Alpha/Beta	Gross Beta	8.08E-15	1.85E-14	2.51E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194293	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Alpha	3.19E-15	5.06E-15	8.73E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194294	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Alpha	-2.36E-15	4.49E-16	8.43E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194295	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Alpha	5.19E-15	5.71E-15	8.33E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194293	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Beta	1.91E-14	1.97E-14	2.57E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194294	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Beta	2.48E-14	1.95E-14	2.48E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194295	P6WH LOADOUT	02/28/17	Gross Alpha/Beta	Gross Beta	2.03E-14	1.90E-14	2.45E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194296	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Alpha	7.352E-15	1.281E-14	1.237E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194296	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Alpha	2.769E-15	1.196E-14	1.237E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194297	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Alpha	8.614E-15	1.32E-14	1.254E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194298	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Alpha	-3.1E-15	1.131E-14	1.296E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194296	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Beta	2.953E-14	1.453E-14	1.746E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194296	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Beta	4.472E-14	1.614E-14	1.746E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194297	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Beta	3.36E-14	1.513E-14	1.77E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194298	P6WH LOADOUT	03/01/17	Gross Alpha/Beta	Gross Beta	3.699E-14	1.587E-14	1.828E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194299	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Alpha	4.662E-15	1.141E-14	1.14E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194300	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Alpha	4.642E-15	1.137E-14	1.135E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194301	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Alpha	2.551E-15	1.101E-14	1.14E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194299	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Beta	2.854E-14	1.353E-14	1.608E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194300	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Beta	4.235E-14	1.494E-14	1.601E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194301	P6WH LOADOUT	03/02/17	Gross Alpha/Beta	Gross Beta	4.12E-14	1.487E-14	1.608E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD194302	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Alpha	4.91E-16	1.183E-14	1.272E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194303	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Alpha	-6.65E-16	1.123E-14	1.232E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194304	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Alpha	1.602E-15	1.158E-14	1.221E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194302	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Beta	2.515E-14	1.436E-14	1.794E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD194303	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Beta	1.572E-14	1.292E-14	1.738E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194304	P6WH LOADOUT	03/06/17	Gross Alpha/Beta	Gross Beta	1.487E-14	1.272E-14	1.722E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194305	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Alpha	-2.832E-15	1.034E-14	1.184E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194306	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Alpha	4.61E-16	1.111E-14	1.194E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194307	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Alpha	-2.882E-15	1.052E-14	1.205E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194305	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Beta	1.58E-14	1.25E-14	1.67E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194306	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Beta	5.468E-15	1.134E-14	1.685E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194307	P6WH LOADOUT	03/07/17	Gross Alpha/Beta	Gross Beta	1.045E-14	1.204E-14	1.7E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194308	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Alpha	-2.92E-15	1.066E-14	1.221E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194309	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Alpha	3.863E-15	1.201E-14	1.221E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194310	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Alpha	-1.814E-15	1.104E-14	1.237E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194310	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Alpha	-2.96E-15	1.08E-14	1.237E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194308	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Beta	1.201E-14	1.238E-14	1.722E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194309	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Beta	2.058E-14	1.338E-14	1.722E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD194310	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Beta	1.073E-14	1.237E-14	1.746E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194310	P6WH LOADOUT	03/08/17	Gross Alpha/Beta	Gross Beta	-1.21E-16	1.1E-14	1.746E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194311	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Alpha	4.95E-16	1.194E-14	1.283E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194312	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Alpha	-1.822E-15	1.109E-14	1.243E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194313	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Alpha	2.708E-15	1.169E-14	1.21E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194311	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Beta	1.788E-14	1.363E-14	1.811E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194312	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Beta	1.441E-14	1.286E-14	1.754E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194313	P6WH LOADOUT	03/09/17	Gross Alpha/Beta	Gross Beta	2.322E-14	1.358E-14	1.707E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD194314	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Alpha	-1.751E-15	1.066E-14	1.194E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194315	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Alpha	-3.998E-15	1.028E-14	1.205E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194316	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Alpha	1.582E-15	3.982E-15	7.835E-15	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194316	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Alpha	3.816E-15	5.089E-15	7.835E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194314	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Beta	1.385E-14	1.236E-14	1.685E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194315	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Beta	1.185E-14	1.221E-14	1.7E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194316	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Beta	1.853E-14	1.706E-14	2.487E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD194316	P6WH LOADOUT	03/13/17	Gross Alpha/Beta	Gross Beta	1.924E-14	1.713E-14	2.487E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194317	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Alpha	4.67E-16	3.31E-15	7.869E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD194318	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Alpha	4.955E-15	5.586E-15	7.869E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195890	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Alpha	6.355E-15	6.301E-15	8.23E-15	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD194317	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Beta	2.941E-14	1.809E-14	2.498E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD194318	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Beta	2.437E-14	1.765E-14	2.498E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD195890	P6WH LOADOUT	03/14/17	Gross Alpha/Beta	Gross Beta	2.248E-14	1.819E-14	2.612E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD195891	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Alpha	1.491E-15	3.753E-15	7.383E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195892	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Alpha	4.707E-15	5.307E-15	7.476E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195893	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Alpha	4.35E-16	3.08E-15	7.323E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195891	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Beta	2.692E-14	1.692E-14	2.344E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195892	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Beta	5.395E-14	1.941E-14	2.373E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195893	P6WH LOADOUT	03/15/17	Gross Alpha/Beta	Gross Beta	2.871E-14	1.695E-14	2.324E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195894	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Alpha	2.797E-15	4.734E-15	8.118E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195895	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Alpha	1.542E-15	3.881E-15	7.635E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195896	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Alpha	4.57E-16	3.239E-15	7.7E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195894	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Beta	2.886E-14	1.853E-14	2.577E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195895	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Beta	2.644E-14	1.737E-14	2.423E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195896	P6WH LOADOUT	03/16/17	Gross Alpha/Beta	Gross Beta	2.667E-14	1.752E-14	2.444E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195897	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Alpha	3.783E-15	5.045E-15	7.767E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195898	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Alpha	4.69E-16	3.324E-15	7.904E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195899	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Alpha	4.912E-15	5.537E-15	7.801E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195897	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Beta	3.898E-14	1.872E-14	2.465E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195898	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Beta	3.678E-14	1.88E-14	2.509E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD195899	P6WH LOADOUT	03/20/17	Gross Alpha/Beta	Gross Beta	3.915E-14	1.88E-14	2.476E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195900	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Alpha	7.136E-15	6.378E-15	7.801E-15	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD195901	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Alpha	2.661E-15	1.149E-14	1.189E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195902	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Alpha	-6.48E-16	1.093E-14	1.199E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD195900	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Beta	4.487E-14	1.929E-14	2.476E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195901	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Beta	4.854E-14	1.608E-14	1.678E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195902	P6WH LOADOUT	03/21/17	Gross Alpha/Beta	Gross Beta	4.546E-14	1.586E-14	1.692E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD195921	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Alpha	8.94E-16	8.28E-16	1.00E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195921	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Alpha	5.51E-16	7.26E-16	1.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195922	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Alpha	-1.32E-16	4.61E-16	9.99E-16	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195923	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Alpha	6.65E-16	7.62E-16	1.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2017

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD195921	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Beta	3.90E-16	1.06E-15	1.77E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195921	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Beta	9.66E-16	1.13E-15	1.77E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195922	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Beta	2.54E-15	1.32E-15	1.76E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195923	P6WH LOADOUT	03/22/17	Gross Alpha/Beta	Gross Beta	2.26E-15	1.30E-15	1.77E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195924	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Alpha	5.51E-16	7.26E-16	1.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195925	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Alpha	2.07E-16	6.03E-16	9.95E-16	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195926	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Alpha	2.11E-16	6.14E-16	1.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195924	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Beta	2.91E-15	1.37E-15	1.77E-15	µCi/mL	J	F01	SLDS (General Area)-Perimeter Air
SLD195925	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Beta	2.46E-15	1.31E-15	1.75E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195926	P6WH LOADOUT	03/23/17	Gross Alpha/Beta	Gross Beta	2.21E-15	1.30E-15	1.78E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195927	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Alpha	4.30E-16	6.77E-16	9.86E-16	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195928	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Alpha	2.03E-16	5.90E-16	9.73E-16	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195929	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Alpha	3.17E-16	6.39E-16	9.86E-16	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195927	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Beta	2.86E-15	1.35E-15	1.73E-15	µCi/mL	J	F01	SLDS (General Area)-Perimeter Air
SLD195928	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Beta	2.75E-15	1.32E-15	1.71E-15	µCi/mL	J	F01	SLDS (General Area)-Perimeter Air
SLD195929	P6WH LOADOUT	03/27/17	Gross Alpha/Beta	Gross Beta	2.08E-15	1.26E-15	1.73E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195930	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Alpha	5.45E-16	8.59E-16	1.25E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195931	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Alpha	5.39E-16	8.49E-16	1.24E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195932	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Alpha	6.72E-16	8.85E-16	1.22E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195930	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Beta	3.54E-15	1.70E-15	2.20E-15	µCi/mL	J	F01	SLDS (General Area)-Perimeter Air
SLD195931	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Beta	2.61E-15	1.57E-15	2.18E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195932	P6WH LOADOUT	03/28/17	Gross Alpha/Beta	Gross Beta	3.90E-15	1.71E-15	2.15E-15	µCi/mL	J	F01	SLDS (General Area)-Perimeter Air
SLD195933	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Alpha	-1.71E-16	5.93E-16	1.29E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195934	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Alpha	3.25E-16	6.53E-16	1.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195935	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Alpha	-2.78E-15	2.54E-15	9.24E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195933	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Beta	3.18E-15	1.69E-15	2.26E-15	µCi/mL	J	F01, T04, T20	SLDS (General Area)-Perimeter Air
SLD195934	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Beta	1.55E-15	1.21E-15	1.77E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195935	P6WH LOADOUT	03/29/17	Gross Alpha/Beta	Gross Beta	2.28E-14	1.43E-14	1.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195940	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Alpha	9.59E-16	5.69E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195941	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Alpha	-1.94E-16	5.25E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195942	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Alpha	-1.34E-15	4.67E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195940	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Beta	1.56E-14	1.22E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195941	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Beta	9.10E-15	1.14E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195942	P6WH LOADOUT	03/30/17	Gross Alpha/Beta	Gross Beta	9.75E-15	1.14E-14	1.78E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195943	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Alpha	2.24E-15	6.52E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195944	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Alpha	1.07E-15	6.32E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195945	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Alpha	-2.13E-16	5.78E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195943	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Beta	1.65E-14	1.29E-14	1.89E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195944	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Beta	1.73E-14	1.35E-14	1.98E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195945	P6WH LOADOUT	04/03/17	Gross Alpha/Beta	Gross Beta	1.73E-14	1.35E-14	1.98E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195946	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Alpha	4.58E-15	7.22E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195947	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Alpha	9.72E-16	5.77E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195948	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Alpha	5.64E-15	7.43E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195946	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Beta	1.99E-14	1.31E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195947	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Beta	2.24E-14	1.32E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195948	P6WH LOADOUT	04/04/17	Gross Alpha/Beta	Gross Beta	2.02E-14	1.29E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195949	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Alpha	6.12E-15	8.06E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD195950	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Alpha	2.24E-15	6.52E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195964	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Alpha	1.90E-15	5.36E-15	9.63E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195964	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Alpha	5.50E-15	6.79E-15	9.63E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195949	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Beta	1.79E-14	1.35E-14	1.96E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195950	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Beta	1.81E-14	1.31E-14	1.89E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195964	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Beta	-6.94E-16	1.05E-14	1.78E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195964	P6WH LOADOUT	04/05/17	Gross Alpha/Beta	Gross Beta	1.60E-14	1.27E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195965	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Alpha	-1.63E-15	3.25E-15	9.24E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195966	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Alpha	-1.63E-15	3.25E-15	9.24E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195967	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Alpha	1.78E-15	5.03E-15	9.04E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195965	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Beta	1.24E-14	1.18E-14	1.71E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195966	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Beta	2.33E-14	1.32E-14	1.71E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195967	P6WH LOADOUT	04/06/17	Gross Alpha/Beta	Gross Beta	2.56E-14	1.32E-14	1.67E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195968	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Alpha	-2.05E-15	4.08E-15	1.16E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195969	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Alpha	3.67E-15	6.96E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195970	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.15E-15	1.10E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195968	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Beta	2.20E-14	1.56E-14	2.15E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195969	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Beta	3.51E-14	1.70E-14	2.11E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195970	P6WH LOADOUT	04/10/17	Gross Alpha/Beta	Gross Beta	2.00E-14	1.48E-14	2.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195971	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Alpha	-1.57E-15	3.12E-15	8.88E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195972	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Alpha	2.88E-15	5.47E-15	8.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195973	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Alpha	5.14E-15	6.35E-15	9.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195971	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Beta	1.54E-14	1.18E-14	1.64E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195972	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Beta	1.56E-14	1.19E-14	1.66E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195973	P6WH LOADOUT	04/11/17	Gross Alpha/Beta	Gross Beta	1.85E-14	1.23E-14	1.66E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195974	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Alpha	5.89E-15	7.27E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195975	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Alpha	5.23E-15	6.46E-15	9.16E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195976	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Alpha	7.48E-15	7.20E-15	9.12E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195974	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Beta	2.12E-14	1.41E-14	1.91E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195975	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Beta	1.88E-14	1.25E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195976	P6WH LOADOUT	04/12/17	Gross Alpha/Beta	Gross Beta	1.37E-14	1.18E-14	1.69E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195977	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Alpha	9.70E-15	7.86E-15	9.08E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195978	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Alpha	1.79E-16	5.00E-15	9.10E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195978	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Alpha	4.48E-15	6.60E-15	9.10E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195979	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Alpha	2.28E-15	5.73E-15	8.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195977	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Beta	2.65E-14	1.33E-14	1.68E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195978	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Beta	4.43E-14	2.01E-14	2.43E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195978	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.81E-14	2.43E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195979	P6WH LOADOUT	04/13/17	Gross Alpha/Beta	Gross Beta	3.59E-14	1.91E-14	2.38E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195980	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.71E-15	9.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195981	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Alpha	-2.06E-15	4.14E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195982	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Alpha	-2.04E-15	4.11E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195980	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Beta	1.68E-14	1.86E-14	2.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195981	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Beta	2.25E-14	1.90E-14	2.53E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195982	P6WH LOADOUT	04/17/17	Gross Alpha/Beta	Gross Beta	2.87E-14	1.94E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195983	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Alpha	1.89E-16	5.26E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195984	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Alpha	-2.08E-15	4.20E-15	9.63E-15	µCi/mL			SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD195984	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Alpha	4.74E-15	6.98E-15	9.63E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195985	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.73E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195983	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Beta	2.05E-14	1.90E-14	2.56E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195984	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Beta	2.42E-14	1.94E-14	2.57E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195984	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Beta	1.98E-14	1.91E-14	2.57E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195985	P6WH LOADOUT	04/18/17	Gross Alpha/Beta	Gross Beta	2.34E-14	1.93E-14	2.56E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195986	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Alpha	1.91E-16	5.33E-15	9.72E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195987	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Alpha	1.35E-15	5.86E-15	9.80E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195988	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Alpha	4.74E-15	6.98E-15	9.63E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195986	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Beta	3.81E-15	1.79E-14	2.59E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195987	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Beta	2.84E-14	2.01E-14	2.61E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195988	P6WH LOADOUT	04/19/17	Gross Alpha/Beta	Gross Beta	2.35E-14	1.93E-14	2.57E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195989	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Alpha	1.30E-15	5.63E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195990	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Alpha	3.51E-15	6.43E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195991	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Alpha	3.55E-15	6.51E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195989	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Beta	3.80E-14	2.01E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195990	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Beta	3.85E-14	2.01E-14	2.50E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195991	P6WH LOADOUT	04/24/17	Gross Alpha/Beta	Gross Beta	5.70E-14	2.18E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195992	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Alpha	2.43E-15	6.11E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195993	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Alpha	5.60E-15	7.00E-15	9.18E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195994	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.56E-15	9.30E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195992	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Beta	1.53E-14	1.84E-14	2.53E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195993	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Beta	1.68E-14	1.80E-14	2.45E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195994	P6WH LOADOUT	04/25/17	Gross Alpha/Beta	Gross Beta	2.83E-14	1.91E-14	2.48E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195995	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Alpha	-1.78E-15	8.95E-15	1.81E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195996	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Alpha	9.43E-15	1.39E-14	1.92E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195997	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Alpha	-4.11E-15	8.29E-15	1.90E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195995	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Beta	1.26E-14	3.37E-14	4.81E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195996	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Beta	1.33E-14	3.58E-14	5.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195997	P6WH LOADOUT	04/26/17	Gross Alpha/Beta	Gross Beta	4.49E-14	3.81E-14	5.07E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195998	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Alpha	-2.02E-15	4.07E-15	9.34E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195999	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Alpha	1.86E-16	5.19E-15	9.46E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196000	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Alpha	-9.19E-16	4.63E-15	9.34E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195998	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Beta	7.91E-15	1.75E-14	2.49E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195999	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Beta	9.44E-15	1.79E-14	2.52E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196000	P6WH LOADOUT	04/27/17	Gross Alpha/Beta	Gross Beta	1.78E-14	1.84E-14	2.49E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196011	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Alpha	5.17E-15	5.54E-15	7.37E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196011	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Alpha	1.85E-15	3.98E-15	7.37E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196012	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Alpha	-3.76E-16	2.49E-15	7.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196013	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Alpha	7.38E-16	3.30E-15	7.37E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196011	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Beta	1.66E-15	1.71E-14	2.54E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196011	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Beta	2.30E-14	1.89E-14	2.54E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196012	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Beta	-7.72E-15	1.67E-14	2.58E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196013	P6WH LOADOUT	05/01/17	Gross Alpha/Beta	Gross Beta	-6.16E-15	1.65E-14	2.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196014	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Alpha	7.16E-16	3.20E-15	7.16E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196015	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Alpha	3.005E-15	4.64E-15	7.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196016	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Alpha	2.87E-15	4.42E-15	7.16E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD196014	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Beta	3.27E-14	1.92E-14	2.46E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196015	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Beta	2.70E-14	1.95E-14	2.58E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196016	P6WH LOADOUT	05/02/17	Gross Alpha/Beta	Gross Beta	2.23E-14	1.83E-14	2.46E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196017	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Alpha	2.95E-15	4.56E-15	7.37E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196018	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Alpha	2.92E-15	4.50E-15	7.28E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196019	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Alpha	-1.45E-15	1.03E-15	7.25E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196017	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Beta	1.66E-14	1.84E-14	2.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196018	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Beta	2.27E-14	1.87E-14	2.50E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196019	P6WH LOADOUT	05/08/17	Gross Alpha/Beta	Gross Beta	2.54E-14	1.88E-14	2.49E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196020	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Alpha	2.97E-15	4.58E-15	7.41E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196021	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Alpha	8.48E-16	9.31E-15	1.10E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196021	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Alpha	7.63E-15	1.09E-14	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196022	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Alpha	3.11E-15	9.85E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196020	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Beta	2.38E-14	1.90E-14	2.55E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196021	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Beta	2.77E-14	1.54E-14	1.68E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196021	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Beta	3.84E-14	1.65E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196022	P6WH LOADOUT	05/09/17	Gross Alpha/Beta	Gross Beta	4.48E-14	1.71E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196023	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Alpha	7.50E-15	1.07E-14	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196024	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Alpha	-1.40E-15	8.67E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196025	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Alpha	8.37E-16	9.19E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196023	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Beta	3.35E-14	1.58E-14	1.65E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196024	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Beta	3.38E-14	1.59E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196025	P6WH LOADOUT	05/10/17	Gross Alpha/Beta	Gross Beta	4.21E-14	1.67E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196026	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Alpha	3.00E-15	9.51E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196027	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Alpha	8.52E-16	9.35E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196028	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Alpha	-2.75E-16	8.80E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196026	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Beta	1.51E-14	1.37E-14	1.63E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196027	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Beta	1.85E-14	1.45E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196028	P6WH LOADOUT	05/11/17	Gross Alpha/Beta	Gross Beta	6.14E-15	1.28E-14	1.64E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196029	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Alpha	-2.78E-16	8.87E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196030	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Alpha	8.22E-16	9.03E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196031	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Alpha	5.15E-15	5.51E-15	7.34E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196031	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Alpha	6.25E-15	5.94E-15	7.34E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196029	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Beta	3.49E-14	1.59E-14	1.65E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196030	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Beta	2.69E-14	1.50E-14	1.63E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196031	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Beta	2.08E-14	1.86E-14	2.53E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196031	P6WH LOADOUT	05/15/17	Gross Alpha/Beta	Gross Beta	4.27E-14	2.04E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196032	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Alpha	5.26E-15	5.63E-15	7.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196033	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Alpha	1.88E-15	4.05E-15	7.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196034	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Alpha	6.27E-15	5.97E-15	7.37E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196032	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Beta	9.65E-15	1.81E-14	2.58E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196033	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Beta	2.92E-14	1.97E-14	2.58E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196034	P6WH LOADOUT	05/16/17	Gross Alpha/Beta	Gross Beta	3.51E-14	1.99E-14	2.54E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196035	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Alpha	7.61E-16	3.41E-15	7.61E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196036	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Alpha	7.45E-16	3.33E-15	7.44E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196037	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Alpha	4.26E-15	5.32E-15	7.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196035	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Beta	2.96E-14	2.00E-14	2.62E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD196036	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Beta	-4.06E-15	1.68E-14	2.56E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196037	P6WH LOADOUT	05/17/17	Gross Alpha/Beta	Gross Beta	2.64E-14	2.00E-14	2.66E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196038	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Alpha	4.13E-15	5.16E-15	7.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196039	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Alpha	6.39E-15	6.07E-15	7.50E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196040	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Alpha	4.17E-15	5.20E-15	7.57E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196038	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Beta	2.05E-14	1.90E-14	2.58E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196039	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Beta	4.87E-14	2.13E-14	2.58E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196040	P6WH LOADOUT	05/18/17	Gross Alpha/Beta	Gross Beta	4.11E-14	2.08E-14	2.60E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196041	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Alpha	4.67E-15	5.91E-15	7.94E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196041	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Alpha	4.67E-15	5.91E-15	7.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196042	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Alpha	3.63E-15	5.57E-15	8.08E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196043	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Alpha	2.77E-16	3.97E-15	8.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196041	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Beta	1.72E-14	2.01E-14	2.54E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196041	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Beta	2.43E-14	2.06E-14	2.54E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196042	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Beta	2.83E-14	2.13E-14	2.58E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196043	P6WH LOADOUT	05/22/17	Gross Alpha/Beta	Gross Beta	1.45E-14	2.01E-14	2.56E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196047	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Alpha	9.42E-15	7.67E-15	8.26E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196048	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Alpha	7.11E-15	6.92E-15	8.23E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196049	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Alpha	6.00E-15	6.56E-15	8.26E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196047	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Beta	3.18E-14	2.20E-14	2.64E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196048	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Beta	3.46E-14	2.21E-14	2.63E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196049	P6WH LOADOUT	05/23/17	Gross Alpha/Beta	Gross Beta	3.48E-14	2.22E-14	2.64E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196044	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Alpha	1.38E-15	4.55E-15	8.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196045	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Alpha	2.79E-16	4.00E-15	8.08E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196046	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Alpha	7.92E-15	7.01E-15	7.91E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196044	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Beta	1.24E-14	1.99E-14	2.56E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196045	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Beta	2.54E-14	2.11E-14	2.58E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196046	P6WH LOADOUT	05/24/17	Gross Alpha/Beta	Gross Beta	1.36E-14	1.98E-14	2.53E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196053	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Alpha	1.87E-15	4.25E-15	7.99E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196053	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Alpha	-4.91E-16	2.64E-15	7.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196054	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Alpha	1.87E-15	4.25E-15	7.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196055	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Alpha	3.07E-15	4.91E-15	8.07E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196053	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Beta	5.36E-15	1.75E-14	2.77E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196053	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Beta	1.14E-14	1.80E-14	2.77E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196054	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Beta	4.60E-15	1.74E-14	2.77E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196055	P6WH LOADOUT	05/25/17	Gross Alpha/Beta	Gross Beta	9.23E-15	1.80E-14	2.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196056	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Alpha	4.04E-15	5.17E-15	7.64E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196057	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Alpha	-4.59E-16	2.47E-15	7.48E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196058	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Alpha	5.10E-15	5.57E-15	7.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196056	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Beta	1.09E-14	1.72E-14	2.65E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196057	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Beta	1.14E-14	1.69E-14	2.59E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196058	P6WH LOADOUT	05/30/17	Gross Alpha/Beta	Gross Beta	7.91E-15	1.67E-14	2.61E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196059	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.53E-15	7.58E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196060	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Alpha	-4.63E-16	2.49E-15	7.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196061	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Alpha	7.26E-15	6.35E-15	7.48E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196059	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Beta	2.44E-14	1.82E-14	2.62E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196060	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Beta	2.29E-14	1.80E-14	2.61E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD196061	P6WH LOADOUT	05/31/17	Gross Alpha/Beta	Gross Beta	3.12E-14	1.86E-14	2.59E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196062	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Alpha	3.86E-15	5.08E-15	7.62E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196063	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Alpha	7.48E-15	6.55E-15	7.71E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196064	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Alpha	1.72E-15	6.02E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196064	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Alpha	4.01E-15	6.84E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196062	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Beta	7.30E-15	1.71E-14	2.67E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196063	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Beta	1.25E-14	1.75E-14	2.67E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196064	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Beta	2.91E-14	1.33E-14	1.70E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196064	P6WH LOADOUT	06/01/17	Gross Alpha/Beta	Gross Beta	2.54E-14	1.29E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196065	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Alpha	-1.69E-15	4.44E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196066	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Alpha	1.70E-15	5.96E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196067	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Alpha	1.71E-15	5.99E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196065	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Beta	3.42E-14	1.37E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196066	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Beta	1.80E-14	1.19E-14	1.68E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196067	P6WH LOADOUT	06/05/17	Gross Alpha/Beta	Gross Beta	2.53E-14	1.28E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196068	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Alpha	2.81E-15	6.33E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196069	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Alpha	3.92E-15	6.69E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196070	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Alpha	1.67E-15	5.86E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196068	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Beta	2.71E-14	1.29E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196069	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Beta	2.13E-14	1.21E-14	1.66E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196070	P6WH LOADOUT	06/06/17	Gross Alpha/Beta	Gross Beta	1.49E-14	1.13E-14	1.65E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196071	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Alpha	1.62E-15	5.68E-15	9.86E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196072	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Alpha	5.09E-15	7.12E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196073	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Alpha	1.60E-15	5.61E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196071	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Beta	1.65E-14	1.12E-14	1.61E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196072	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Beta	1.37E-14	1.12E-14	1.68E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196073	P6WH LOADOUT	06/07/17	Gross Alpha/Beta	Gross Beta	1.16E-14	1.04E-14	1.59E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196081	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.60E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196082	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Alpha	2.33E-15	5.79E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196083	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.63E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196081	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Beta	2.55E-14	1.41E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196082	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Beta	1.34E-14	1.28E-14	1.70E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196083	P6WH LOADOUT	06/08/17	Gross Alpha/Beta	Gross Beta	1.42E-14	1.35E-14	1.80E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196084	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Alpha	9.14E-15	8.07E-15	9.67E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196085	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Alpha	4.60E-15	6.63E-15	9.63E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196086	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Alpha	4.74E-15	6.84E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196084	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Beta	1.93E-14	1.35E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196085	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Beta	2.84E-14	1.45E-14	1.71E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196086	P6WH LOADOUT	06/12/17	Gross Alpha/Beta	Gross Beta	1.83E-14	1.37E-14	1.77E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196087	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Alpha	-2.18E-15	3.71E-15	9.71E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196088	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Alpha	4.54E-15	6.54E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196089	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Alpha	1.20E-15	5.26E-15	9.46E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196087	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Beta	1.22E-14	1.28E-14	1.73E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196088	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.44E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196089	P6WH LOADOUT	06/13/17	Gross Alpha/Beta	Gross Beta	9.08E-15	1.21E-14	1.68E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197122	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Alpha	1.21E-15	5.31E-15	9.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197123	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.24E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197124	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Alpha	-2.17E-15	3.69E-15	9.67E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197122	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Beta	3.03E-14	1.46E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197123	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Beta	2.22E-14	1.36E-14	1.68E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197124	P6WH LOADOUT	06/14/17	Gross Alpha/Beta	Gross Beta	2.36E-14	1.40E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197125	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Alpha	1.20E-15	5.26E-15	9.46E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197126	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Alpha	4.58E-15	6.60E-15	9.59E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197126	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Alpha	6.82E-15	7.33E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197127	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.23E-15	9.45E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197127	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Alpha	1.80E-14	1.02E-14	9.45E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197125	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Beta	1.61E-14	1.29E-14	1.68E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197126	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Beta	3.04E-14	1.46E-14	1.70E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197126	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Beta	2.19E-14	1.37E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197127	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Beta	2.47E-14	1.29E-14	1.66E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197127	P6WH LOADOUT	06/15/17	Gross Alpha/Beta	Gross Beta	4.93E-14	1.56E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197128	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Alpha	-9.38E-16	4.22E-15	9.53E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197129	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Alpha	3.52E-15	6.10E-15	9.41E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197130	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Alpha	-9.46E-16	4.26E-15	9.62E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197128	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Beta	1.63E-14	1.19E-14	1.67E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197129	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Beta	8.41E-15	1.08E-14	1.65E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197130	P6WH LOADOUT	06/19/17	Gross Alpha/Beta	Gross Beta	2.44E-14	1.30E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197131	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Alpha	1.31E-15	5.27E-15	9.49E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197132	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Alpha	4.71E-15	6.61E-15	9.58E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197133	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.31E-15	9.58E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197131	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Beta	3.32E-14	1.39E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197132	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Beta	2.28E-14	1.28E-14	1.68E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197133	P6WH LOADOUT	06/20/17	Gross Alpha/Beta	Gross Beta	3.85E-14	1.46E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197148	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Alpha	2.569E-15	6.104E-15	8.262E-15	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD197148	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Alpha	4.853E-15	6.912E-15	8.262E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197149	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Alpha	-8.53E-16	4.626E-15	8.225E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197150	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Alpha	4.789E-15	6.82E-15	8.153E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197148	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Beta	3.47E-14	1.919E-14	2.536E-14	µCi/mL			Plant 6WH (General Area)-Perimeter Air
SLD197148	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Beta	4.79E-14	2.031E-14	2.536E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD197149	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Beta	4.112E-14	1.966E-14	2.524E-14	µCi/mL	=		Plant 6WH (General Area)-Perimeter Air
SLD197150	P6WH LOADOUT	06/21/17	Gross Alpha/Beta	Gross Beta	3.063E-14	1.863E-14	2.502E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD197151	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Alpha	4.706E-15	6.702E-15	8.012E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197152	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Alpha	2.558E-15	6.077E-15	8.225E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197153	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Alpha	4.875E-15	6.943E-15	8.299E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197151	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Beta	1.801E-14	1.726E-14	2.459E-14	µCi/mL	UJ	T04, T05	Plant 6WH (General Area)-Perimeter Air
SLD197152	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Beta	2.433E-15	1.63E-14	2.524E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197153	P6WH LOADOUT	06/22/17	Gross Alpha/Beta	Gross Beta	1.35E-14	1.743E-14	2.547E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197154	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Alpha	1.415E-15	5.609E-15	8.189E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197155	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Alpha	-8.34E-16	4.525E-15	8.047E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197156	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Alpha	5.889E-15	7.155E-15	8.117E-15	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197154	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Beta	3.803E-14	1.933E-14	2.513E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD197155	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Beta	2.666E-14	1.808E-14	2.47E-14	µCi/mL	J	T04, T20	Plant 6WH (General Area)-Perimeter Air
SLD197156	P6WH LOADOUT	06/26/17	Gross Alpha/Beta	Gross Beta	1.609E-14	1.73E-14	2.491E-14	µCi/mL	UJ	T06	Plant 6WH (General Area)-Perimeter Air
SLD197224	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Alpha	4.86E-15	6.39E-15	9.30E-15	µCi/mL			SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197224	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Alpha	7.10E-15	7.14E-15	9.30E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197225	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Alpha	1.51E-15	5.11E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197226	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Alpha	8.29E-15	7.56E-15	9.38E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197224	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Beta	1.88E-14	1.35E-14	1.67E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197224	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Beta	3.08E-14	1.48E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197225	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Beta	2.40E-14	1.42E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197226	P6WH LOADOUT	06/27/17	Gross Alpha/Beta	Gross Beta	2.75E-14	1.46E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197157	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Alpha	-7.74E-16	4.22E-15	1.08E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197157	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Alpha	6.20E-15	7.10E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197158	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Alpha	-7.67E-16	4.18E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197159	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Alpha	6.22E-15	7.13E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197157	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Beta	3.43E-14	1.48E-14	1.85E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197157	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Beta	3.87E-14	1.53E-14	1.85E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197158	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Beta	3.03E-14	1.43E-14	1.83E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197159	P6WH LOADOUT	06/28/17	Gross Alpha/Beta	Gross Beta	2.56E-14	1.39E-14	1.86E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197160	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Alpha	2.58E-15	5.55E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197161	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Alpha	6.34E-15	7.26E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197162	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.10E-15	1.02E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197160	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Beta	3.82E-14	1.47E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197161	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Beta	2.46E-14	1.40E-14	1.89E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197162	P6WH LOADOUT	06/29/17	Gross Alpha/Beta	Gross Beta	4.80E-14	1.57E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197163	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Alpha	2.64E-15	5.68E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197164	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.28E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197165	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Alpha	8.18E-15	7.52E-15	1.03E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197163	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Beta	3.05E-14	1.41E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197164	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Beta	4.76E-14	1.59E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197165	P6WH LOADOUT	07/03/17	Gross Alpha/Beta	Gross Beta	3.57E-14	1.45E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197166	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Alpha	-1.87E-15	3.40E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197167	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Alpha	7.16E-15	7.27E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197168	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Alpha	2.69E-15	5.78E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197166	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Beta	2.46E-14	1.33E-14	1.78E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197167	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Beta	1.12E-14	1.18E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197168	P6WH LOADOUT	07/05/17	Gross Alpha/Beta	Gross Beta	1.14E-14	1.20E-14	1.83E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197169	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Alpha	3.50E-16	4.36E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197170	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.94E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197171	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Alpha	2.52E-15	4.52E-15	7.69E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197171	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Alpha	-7.19E-16	2.53E-15	7.69E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197169	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Beta	1.58E-14	1.17E-14	1.67E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197170	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Beta	1.55E-14	1.28E-14	1.88E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197171	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Beta	3.39E-14	1.71E-14	2.40E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197171	P6WH LOADOUT	07/06/17	Gross Alpha/Beta	Gross Beta	2.97E-14	1.68E-14	2.40E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197172	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.78E-15	8.14E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197173	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Alpha	-1.91E-15	1.40E-15	8.17E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197174	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Alpha	1.53E-15	4.21E-15	8.17E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197172	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Beta	4.03E-14	1.85E-14	2.54E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197173	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Beta	4.56E-14	1.91E-14	2.55E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197174	P6WH LOADOUT	07/10/17	Gross Alpha/Beta	Gross Beta	3.01E-14	1.77E-14	2.55E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197175	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Alpha	3.79E-16	3.50E-15	8.10E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197176	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Alpha	2.75E-15	4.93E-15	8.40E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197177	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Alpha	1.54E-15	4.23E-15	8.21E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197177	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Alpha	9.60E-15	7.45E-15	8.21E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197175	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Beta	4.23E-14	1.87E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197176	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Beta	2.57E-14	1.77E-14	2.62E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197177	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Beta	3.69E-14	1.84E-14	2.56E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197177	P6WH LOADOUT	07/11/17	Gross Alpha/Beta	Gross Beta	3.47E-14	1.82E-14	2.56E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197178	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Alpha	3.81E-15	5.30E-15	8.14E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197179	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Alpha	-7.86E-16	2.76E-15	8.40E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197180	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Alpha	1.52E-15	4.18E-15	8.10E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197178	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Beta	3.81E-14	1.83E-14	2.54E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197179	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Beta	3.78E-14	1.88E-14	2.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197180	P6WH LOADOUT	07/12/17	Gross Alpha/Beta	Gross Beta	2.77E-14	1.73E-14	2.53E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197181	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Alpha	2.48E-14	6.34E-15	4.29E-15	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197182	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Alpha	3.98E-16	3.68E-15	8.52E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197183	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Alpha	2.77E-14	6.70E-15	4.35E-15	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197181	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Beta	2.46E-13	2.33E-14	8.81E-15	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197182	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Beta	4.60E-14	1.97E-14	2.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197183	P6WH LOADOUT	07/13/17	Gross Alpha/Beta	Gross Beta	2.13E-13	2.13E-14	8.93E-15	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197184	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.67E-15	7.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197185	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Alpha	8.16E-15	6.83E-15	7.93E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197186	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.07E-15	8.14E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197184	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Beta	4.30E-14	1.85E-14	2.49E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197185	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Beta	3.71E-14	1.79E-14	2.48E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197186	P6WH LOADOUT	07/17/17	Gross Alpha/Beta	Gross Beta	5.20E-14	1.96E-14	2.54E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197227	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Alpha	8.44E-15	7.70E-15	9.55E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197228	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Alpha	2.60E-15	5.52E-15	9.26E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197229	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Alpha	1.29E-14	8.87E-15	9.42E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197227	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Beta	4.62E-14	1.67E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197228	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Beta	4.90E-14	1.67E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197229	P6WH LOADOUT	07/18/17	Gross Alpha/Beta	Gross Beta	4.77E-14	1.67E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197230	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Alpha	9.38E-15	7.86E-15	9.34E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197231	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Alpha	4.90E-15	6.45E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197232	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Alpha	4.92E-15	6.48E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197230	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Beta	6.86E-14	1.86E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197231	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Beta	5.32E-14	1.72E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197232	P6WH LOADOUT	07/19/17	Gross Alpha/Beta	Gross Beta	5.56E-14	1.75E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197233	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Alpha	3.49E-15	5.59E-15	8.69E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197234	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Alpha	6.20E-15	7.03E-15	9.64E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197235	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.21E-15	8.72E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197233	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Beta	3.08E-14	1.41E-14	1.56E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197234	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Beta	3.20E-14	1.54E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197235	P6WH LOADOUT	07/20/17	Gross Alpha/Beta	Gross Beta	3.69E-14	1.48E-14	1.57E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197236	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Alpha	8.29E-15	7.56E-15	9.38E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197237	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Alpha	9.22E-15	7.72E-15	9.18E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197238	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Alpha	1.61E-15	6.48E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197238	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Alpha	5.02E-15	7.59E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197236	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Beta	1.33E-14	1.30E-14	1.69E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197237	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Beta	4.30E-14	1.59E-14	1.65E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197238	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.31E-14	1.73E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197238	P6WH LOADOUT	07/24/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.31E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197239	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Alpha	1.19E-14	9.48E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197240	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Alpha	2.76E-15	6.90E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197241	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Alpha	2.74E-15	6.87E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197239	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Beta	3.87E-14	1.43E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197240	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Beta	2.93E-14	1.32E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197241	P6WH LOADOUT	07/25/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.26E-14	1.73E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197242	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Alpha	3.83E-15	7.14E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197243	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Alpha	3.86E-15	7.20E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197244	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Alpha	4.73E-16	6.07E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197242	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Beta	4.23E-14	1.45E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197243	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Beta	3.69E-14	1.40E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197244	P6WH LOADOUT	07/26/17	Gross Alpha/Beta	Gross Beta	4.43E-14	1.49E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197245	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Alpha	1.06E-14	9.03E-15	1.03E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197246	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Alpha	2.57E-15	6.44E-15	9.78E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197247	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Alpha	2.66E-15	6.66E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197245	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Beta	4.44E-14	1.48E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197246	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.24E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197247	P6WH LOADOUT	07/31/17	Gross Alpha/Beta	Gross Beta	5.47E-14	1.57E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197248	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Alpha	4.23E-15	5.06E-15	7.36E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197248	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Alpha	1.89E-14	9.66E-15	7.36E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197249	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Alpha	6.45E-15	5.96E-15	7.33E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197250	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Alpha	7.78E-15	6.55E-15	7.53E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197248	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Beta	4.17E-14	1.98E-14	2.53E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197248	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Beta	5.18E-14	2.06E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197249	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Beta	2.71E-14	1.85E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197250	P6WH LOADOUT	08/01/17	Gross Alpha/Beta	Gross Beta	3.08E-14	1.93E-14	2.58E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197251	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Alpha	6.48E-15	5.99E-15	7.36E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197252	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Alpha	1.22E-14	7.89E-15	7.40E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197253	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Alpha	1.69E-14	9.26E-15	7.50E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197251	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Beta	5.47E-14	2.09E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197252	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Beta	4.11E-14	1.98E-14	2.54E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197253	P6WH LOADOUT	08/02/17	Gross Alpha/Beta	Gross Beta	5.57E-14	2.13E-14	2.57E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197254	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Alpha	1.19E-14	7.69E-15	7.20E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197255	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Alpha	7.51E-15	6.32E-15	7.27E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197256	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Alpha	8.69E-15	6.77E-15	7.33E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197254	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Beta	4.43E-14	1.97E-14	2.47E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197255	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Beta	3.11E-14	1.87E-14	2.49E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197256	P6WH LOADOUT	08/03/17	Gross Alpha/Beta	Gross Beta	4.58E-14	2.01E-14	2.51E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197257	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Alpha	1.21E-14	7.86E-15	7.36E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197258	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Alpha	8.54E-15	6.65E-15	7.20E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197259	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Alpha	6.45E-15	5.96E-15	7.33E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197257	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Beta	5.18E-14	2.06E-14	2.53E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197258	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Beta	4.36E-14	1.96E-14	2.47E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197259	P6WH LOADOUT	08/07/17	Gross Alpha/Beta	Gross Beta	3.07E-14	1.88E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197260	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Alpha	9.52E-15	6.92E-15	7.11E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197261	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.27E-15	7.11E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197262	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.77E-15	1.06E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197262	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Alpha	4.32E-15	6.40E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197260	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Beta	2.77E-14	1.81E-14	2.44E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197261	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Beta	1.44E-14	1.69E-14	2.44E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197262	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Beta	2.76E-14	1.50E-14	1.72E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197262	P6WH LOADOUT	08/08/17	Gross Alpha/Beta	Gross Beta	2.76E-14	1.50E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197263	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Alpha	3.22E-15	6.00E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197264	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Alpha	2.09E-15	5.51E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197265	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Alpha	6.73E-15	7.35E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197263	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Beta	3.25E-14	1.55E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197264	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Beta	3.21E-14	1.53E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197265	P6WH LOADOUT	08/09/17	Gross Alpha/Beta	Gross Beta	3.28E-14	1.60E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197266	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Alpha	5.47E-15	6.83E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197267	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.55E-15	1.08E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197268	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.40E-15	1.06E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197266	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Beta	4.35E-14	1.67E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197267	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Beta	6.61E-14	1.90E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197268	P6WH LOADOUT	08/10/17	Gross Alpha/Beta	Gross Beta	5.86E-14	1.81E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197280	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Alpha	5.19E-15	6.30E-15	8.57E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197280	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Alpha	7.38E-15	7.03E-15	8.57E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197281	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Alpha	7.38E-15	7.03E-15	8.57E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197282	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Alpha	8.33E-15	7.24E-15	8.43E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197280	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Beta	3.77E-14	2.09E-14	2.45E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197280	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Beta	4.12E-14	2.12E-14	2.45E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197281	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Beta	5.03E-14	2.19E-14	2.45E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197282	P6WH LOADOUT	08/14/17	Gross Alpha/Beta	Gross Beta	5.08E-14	2.16E-14	2.41E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197283	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Alpha	1.34E-14	8.94E-15	8.92E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197284	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Alpha	9.95E-15	8.00E-15	8.92E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197285	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Alpha	8.69E-15	7.56E-15	8.80E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197283	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Beta	2.75E-14	2.09E-14	2.55E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197284	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Beta	2.46E-14	2.07E-14	2.55E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197285	P6WH LOADOUT	08/15/17	Gross Alpha/Beta	Gross Beta	2.57E-14	2.05E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197286	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Alpha	2.37E-15	6.23E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197287	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.60E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197288	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.60E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197286	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Beta	2.84E-14	2.45E-14	3.03E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197287	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Beta	4.37E-14	2.51E-14	2.95E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197288	P6WH LOADOUT	08/16/17	Gross Alpha/Beta	Gross Beta	2.09E-14	2.34E-14	2.95E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197289	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.65E-15	8.84E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197290	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Alpha	-6.60E-16	4.52E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197290	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Alpha	1.60E-15	5.54E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197291	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Alpha	4.74E-16	5.08E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197289	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Beta	2.36E-14	2.04E-14	2.52E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197290	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Beta	-3.62E-15	1.23E-14	1.84E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197290	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Beta	0.00E+00	1.28E-14	1.84E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197291	P6WH LOADOUT	08/17/17	Gross Alpha/Beta	Gross Beta	2.48E-14	1.55E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197292	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Alpha	2.68E-15	5.86E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197293	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Alpha	6.24E-15	7.30E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197294	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Alpha	3.80E-15	6.29E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197292	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Beta	1.91E-14	1.45E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197293	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Beta	1.18E-14	1.43E-14	1.88E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197294	P6WH LOADOUT	08/21/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.52E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197295	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Alpha	1.67E-15	5.77E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197296	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Alpha	5.05E-16	5.42E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197297	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Alpha	4.01E-15	6.64E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197295	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Beta	1.06E-14	1.45E-14	1.92E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197296	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Beta	6.21E-15	1.44E-14	1.97E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197297	P6WH LOADOUT	08/22/17	Gross Alpha/Beta	Gross Beta	3.01E-15	1.36E-14	1.91E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197298	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Alpha	3.78E-15	6.27E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197299	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Alpha	2.75E-15	6.02E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197300	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Alpha	5.31E-15	6.44E-15	8.76E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197300	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Alpha	7.54E-15	7.18E-15	8.76E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197298	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Beta	3.12E-14	1.58E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197299	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Beta	1.38E-14	1.43E-14	1.85E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197300	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Beta	2.99E-14	2.07E-14	2.50E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197300	P6WH LOADOUT	08/23/17	Gross Alpha/Beta	Gross Beta	3.63E-14	2.12E-14	2.50E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197301	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Alpha	1.20E-14	8.45E-15	8.72E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197302	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Alpha	-2.82E-16	4.09E-15	8.84E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197303	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Alpha	4.30E-15	6.20E-15	9.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197301	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Beta	4.83E-14	2.21E-14	2.49E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197302	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Beta	2.80E-14	2.08E-14	2.52E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197303	P6WH LOADOUT	08/24/17	Gross Alpha/Beta	Gross Beta	3.95E-14	2.20E-14	2.57E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197304	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Alpha	7.51E-15	7.15E-15	8.72E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197305	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Alpha	1.35E-14	9.06E-15	9.04E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197306	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Alpha	5.33E-15	6.47E-15	8.80E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197304	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Beta	4.12E-14	2.15E-14	2.49E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197305	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Beta	5.75E-14	2.34E-14	2.58E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197306	P6WH LOADOUT	08/28/17	Gross Alpha/Beta	Gross Beta	6.46E-14	2.34E-14	2.51E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197307	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Alpha	5.31E-15	6.44E-15	8.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197308	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Alpha	7.81E-15	7.44E-15	9.08E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197309	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.59E-15	8.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197307	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Beta	4.57E-14	2.19E-14	2.50E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197308	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Beta	4.88E-14	2.28E-14	2.59E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197309	P6WH LOADOUT	08/29/17	Gross Alpha/Beta	Gross Beta	6.13E-14	2.35E-14	2.56E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198795	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Alpha	6.69E-15	7.10E-15	9.12E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198796	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Alpha	3.37E-15	6.14E-15	9.60E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198797	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Alpha	3.07E-15	5.61E-15	8.76E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198795	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Beta	6.62E-14	2.42E-14	2.61E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198796	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Beta	6.73E-14	2.53E-14	2.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198797	P6WH LOADOUT	08/30/17	Gross Alpha/Beta	Gross Beta	5.79E-14	2.29E-14	2.50E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198798	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.77E-15	9.20E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198799	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Alpha	9.77E-15	7.86E-15	8.76E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198800	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Alpha	6.37E-15	6.76E-15	8.68E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198798	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Beta	4.50E-14	2.28E-14	2.63E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198799	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Beta	4.85E-14	2.22E-14	2.50E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198800	P6WH LOADOUT	08/31/17	Gross Alpha/Beta	Gross Beta	4.95E-14	2.21E-14	2.48E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198804	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Alpha	2.76E-15	5.27E-15	9.37E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198804	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Alpha	9.61E-15	7.71E-15	9.37E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198805	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Alpha	3.64E-15	5.37E-15	8.75E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198806	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Alpha	-6.35E-16	3.32E-15	8.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198804	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Beta	2.16E-14	1.80E-14	2.67E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198804	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Beta	2.60E-14	1.84E-14	2.67E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198805	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Beta	1.61E-14	1.64E-14	2.49E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198806	P6WH LOADOUT	09/05/17	Gross Alpha/Beta	Gross Beta	1.99E-14	1.71E-14	2.54E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198807	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Alpha	4.59E-16	4.02E-15	9.05E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198808	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Alpha	4.67E-16	4.09E-15	9.21E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198809	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Alpha	1.64E-15	4.81E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198807	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Beta	9.56E-15	1.64E-14	2.57E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198808	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Beta	1.55E-14	1.72E-14	2.62E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198809	P6WH LOADOUT	09/06/17	Gross Alpha/Beta	Gross Beta	3.53E-14	1.94E-14	2.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198810	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Alpha	1.60E-15	4.69E-15	9.25E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198811	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Alpha	7.33E-15	6.99E-15	9.37E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198812	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Alpha	4.82E-16	4.22E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198810	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Beta	2.28E-14	1.79E-14	2.63E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198811	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Beta	1.14E-14	1.71E-14	2.67E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198812	P6WH LOADOUT	09/07/17	Gross Alpha/Beta	Gross Beta	1.75E-14	1.78E-14	2.70E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198813	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.60E-15	9.13E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198814	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Alpha	3.88E-15	5.72E-15	9.33E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198815	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Alpha	5.18E-15	6.36E-15	9.63E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198813	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Beta	3.11E-14	1.84E-14	2.60E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198814	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Beta	1.93E-14	1.77E-14	2.65E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198815	P6WH LOADOUT	09/11/17	Gross Alpha/Beta	Gross Beta	3.65E-14	1.97E-14	2.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198828	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Alpha	6.91E-16	7.03E-15	1.17E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198828	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Alpha	6.61E-15	8.81E-15	1.17E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198829	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Alpha	2.90E-15	7.38E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198830	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Alpha	2.84E-15	7.22E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198828	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Beta	4.30E-14	1.57E-14	1.83E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198828	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Beta	3.01E-14	1.42E-14	1.83E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198829	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Beta	3.28E-14	1.40E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198830	P6WH LOADOUT	09/12/17	Gross Alpha/Beta	Gross Beta	3.28E-14	1.37E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198831	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Alpha	5.45E-15	8.53E-15	1.18E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198832	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Alpha	-4.70E-16	6.30E-15	1.12E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198833	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Alpha	8.74E-15	9.18E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198831	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Beta	3.02E-14	1.43E-14	1.84E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198832	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Beta	3.66E-14	1.44E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198833	P6WH LOADOUT	09/13/17	Gross Alpha/Beta	Gross Beta	5.80E-14	1.70E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198834	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Alpha	6.57E-16	6.69E-15	1.12E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198835	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Alpha	-3.90E-15	5.01E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198836	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Alpha	1.78E-15	7.03E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198834	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Beta	3.94E-14	1.47E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198835	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Beta	4.07E-14	1.50E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198836	P6WH LOADOUT	09/14/17	Gross Alpha/Beta	Gross Beta	4.21E-14	1.50E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198837	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Alpha	3.05E-15	7.75E-15	1.17E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198838	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Alpha	4.07E-15	7.82E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198839	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Alpha	8.47E-15	8.90E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198837	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Beta	4.96E-14	1.63E-14	1.83E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198838	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Beta	3.47E-14	1.43E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198839	P6WH LOADOUT	09/18/17	Gross Alpha/Beta	Gross Beta	3.19E-14	1.38E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198840	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Alpha	1.86E-15	7.35E-15	1.16E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198841	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Alpha	1.74E-15	6.88E-15	1.09E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198842	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Alpha	-2.70E-15	5.39E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198840	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Beta	2.30E-14	1.33E-14	1.82E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198841	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Beta	2.30E-14	1.26E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198842	P6WH LOADOUT	09/19/17	Gross Alpha/Beta	Gross Beta	4.05E-14	1.48E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198843	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Alpha	1.85E-15	7.32E-15	1.16E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198844	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Alpha	6.46E-16	6.57E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198845	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Alpha	4.02E-15	7.71E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198843	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Beta	3.19E-14	1.43E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198844	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Beta	1.68E-14	1.19E-14	1.71E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198845	P6WH LOADOUT	09/20/17	Gross Alpha/Beta	Gross Beta	3.50E-14	1.42E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198846	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Alpha	9.43E-15	7.98E-15	1.02E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198846	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Alpha	1.18E-15	4.93E-15	1.02E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198847	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Alpha	4.39E-15	5.97E-15	9.48E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198848	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Alpha	1.10E-15	4.59E-15	9.48E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198846	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Beta	3.96E-14	1.52E-14	1.79E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198846	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Beta	3.74E-14	1.49E-14	1.79E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198847	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Beta	2.92E-14	1.32E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198848	P6WH LOADOUT	09/21/17	Gross Alpha/Beta	Gross Beta	2.71E-14	1.30E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198849	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Alpha	1.16E-14	8.54E-15	1.00E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198850	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Alpha	9.97E-15	7.82E-15	9.56E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198851	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Alpha	1.54E-14	9.21E-15	9.48E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198849	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Beta	7.11E-14	1.83E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198850	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Beta	5.92E-14	1.66E-14	1.68E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198851	P6WH LOADOUT	09/25/17	Gross Alpha/Beta	Gross Beta	6.92E-14	1.75E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198852	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Alpha	1.78E-14	1.02E-14	1.02E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198853	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Alpha	4.41E-15	5.99E-15	9.52E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198854	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.67E-15	9.69E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198852	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Beta	6.94E-14	1.84E-14	1.80E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198853	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Beta	5.75E-14	1.64E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198854	P6WH LOADOUT	09/26/17	Gross Alpha/Beta	Gross Beta	5.42E-14	1.62E-14	1.70E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198855	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Alpha	8.07E-15	7.44E-15	9.95E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198856	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.03E-15	9.48E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198857	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.05E-15	9.52E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198855	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Beta	2.69E-14	1.35E-14	1.75E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198856	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Beta	9.49E-15	1.08E-14	1.66E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198857	P6WH LOADOUT	09/27/17	Gross Alpha/Beta	Gross Beta	1.17E-14	1.11E-14	1.67E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198858	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.42E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198859	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.08E-15	9.61E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198860	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Alpha	4.41E-15	5.99E-15	9.52E-15	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198860	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Alpha	7.72E-15	7.12E-15	9.52E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198858	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Beta	3.25E-14	1.43E-14	1.77E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198859	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Beta	2.10E-14	1.24E-14	1.69E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198860	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Beta	3.85E-14	1.43E-14	1.67E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198860	P6WH LOADOUT	09/28/17	Gross Alpha/Beta	Gross Beta	4.13E-14	1.46E-14	1.67E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198861	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Alpha	7.42E-15	1.25E-14	2.14E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198862	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Alpha	9.02E-15	1.23E-14	1.95E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198863	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Alpha	6.70E-15	1.13E-14	1.93E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198861	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Beta	2.45E-14	2.47E-14	3.75E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198862	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Beta	1.37E-14	2.13E-14	3.42E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198863	P6WH LOADOUT	09/29/17	Gross Alpha/Beta	Gross Beta	5.79E-14	2.68E-14	3.39E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD198908	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Alpha	7.20E-15	8.03E-15	1.15E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198908	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Alpha	2.65E-15	6.60E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198909	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Alpha	2.65E-15	6.60E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198910	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Alpha	6.06E-15	7.69E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198908	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Beta	3.71E-14	1.60E-14	1.80E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198908	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Beta	3.49E-14	1.58E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198909	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Beta	3.20E-14	1.55E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198910	P6WH LOADOUT	10/02/17	Gross Alpha/Beta	Gross Beta	4.14E-14	1.65E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198911	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Alpha	-8.36E-16	5.84E-15	1.27E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198912	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Alpha	5.48E-16	8.32E-15	1.66E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198913	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Alpha	-1.03E-15	7.18E-15	1.56E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198911	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Beta	2.48E-14	1.60E-14	1.98E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198912	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Beta	1.89E-14	1.94E-14	2.59E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198913	P6WH LOADOUT	10/03/17	Gross Alpha/Beta	Gross Beta	3.94E-14	2.06E-14	2.44E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198880	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Alpha	3.77E-15	6.95E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198914	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Alpha	-8.12E-16	5.67E-15	1.23E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198915	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Alpha	4.80E-15	7.15E-15	1.12E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198880	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Beta	1.66E-14	1.38E-14	1.79E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198914	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Beta	3.11E-14	1.63E-14	1.92E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198915	P6WH LOADOUT	10/04/17	Gross Alpha/Beta	Gross Beta	3.47E-14	1.55E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198881	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Alpha	3.93E-16	5.97E-15	1.19E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198882	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Alpha	1.52E-15	6.22E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198883	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Alpha	3.67E-16	5.58E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198881	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Beta	3.39E-14	1.62E-14	1.86E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198882	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Beta	8.71E-15	1.30E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198883	P6WH LOADOUT	10/05/17	Gross Alpha/Beta	Gross Beta	2.96E-14	1.49E-14	1.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198884	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Alpha	5.37E-16	8.16E-15	1.63E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198885	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Alpha	-1.01E-15	7.05E-15	1.53E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198886	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Alpha	1.99E-15	8.11E-15	1.51E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198884	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Beta	8.17E-15	1.79E-14	2.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198885	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Beta	7.68E-15	1.68E-14	2.39E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198886	P6WH LOADOUT	10/10/17	Gross Alpha/Beta	Gross Beta	-8.66E-15	1.45E-14	2.35E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198887	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Alpha	-8.08E-16	5.64E-15	1.23E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198888	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Alpha	-1.90E-15	4.78E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198889	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Alpha	1.47E-15	6.00E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198887	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Beta	1.00E-14	1.39E-14	1.91E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198888	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Beta	1.30E-14	1.35E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198889	P6WH LOADOUT	10/11/17	Gross Alpha/Beta	Gross Beta	9.82E-15	1.27E-14	1.74E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198890	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Alpha	3.06E-15	6.06E-15	1.03E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198890	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Alpha	6.50E-15	7.26E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198891	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Alpha	1.85E-15	5.43E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198892	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Alpha	-1.48E-15	3.81E-15	9.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198890	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Beta	1.19E-14	1.34E-14	1.84E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198890	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Beta	1.41E-14	1.37E-14	1.84E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198891	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Beta	1.87E-14	1.38E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198892	P6WH LOADOUT	10/12/17	Gross Alpha/Beta	Gross Beta	1.51E-14	1.34E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198893	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Alpha	-1.58E-15	4.08E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198894	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Alpha	4.03E-15	6.20E-15	9.83E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198895	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Alpha	-3.64E-16	4.35E-15	9.79E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198893	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Beta	2.45E-14	1.52E-14	1.90E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198894	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Beta	1.85E-14	1.36E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198895	P6WH LOADOUT	10/16/17	Gross Alpha/Beta	Gross Beta	3.59E-14	1.54E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198896	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Alpha	1.95E-15	5.71E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198897	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Alpha	1.83E-15	5.36E-15	9.83E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198898	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Alpha	-1.48E-15	3.81E-15	9.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198896	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Beta	2.19E-14	1.48E-14	1.88E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198897	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Beta	2.90E-14	1.48E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198898	P6WH LOADOUT	10/17/17	Gross Alpha/Beta	Gross Beta	3.42E-14	1.54E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198899	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Alpha	5.50E-15	7.07E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198900	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Alpha	6.30E-15	7.03E-15	9.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198901	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Alpha	-2.58E-15	3.11E-15	9.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198899	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Beta	3.49E-14	1.63E-14	1.89E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198900	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Beta	2.94E-14	1.50E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198901	P6WH LOADOUT	10/18/17	Gross Alpha/Beta	Gross Beta	2.50E-14	1.45E-14	1.78E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198902	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Alpha	6.25E-15	6.97E-15	9.88E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198903	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Alpha	-3.72E-16	4.45E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198904	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.55E-15	9.79E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198902	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Beta	3.83E-14	1.58E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198903	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Beta	3.67E-14	1.58E-14	1.80E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198904	P6WH LOADOUT	10/19/17	Gross Alpha/Beta	Gross Beta	5.55E-14	1.74E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198905	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Alpha	-3.79E-16	4.53E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198906	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Alpha	6.33E-15	7.07E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198907	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Alpha	7.38E-16	4.93E-15	9.92E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198905	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Beta	1.62E-14	1.38E-14	1.83E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198906	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Beta	1.95E-14	1.40E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198907	P6WH LOADOUT	10/23/17	Gross Alpha/Beta	Gross Beta	1.58E-14	1.35E-14	1.78E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198916	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Alpha	-3.06E-15	3.20E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198916	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Alpha	1.39E-15	5.48E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198917	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Alpha	1.34E-15	5.29E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198918	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Alpha	2.47E-15	5.84E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198916	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Beta	2.96E-14	1.45E-14	1.82E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198916	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Beta	1.75E-14	1.32E-14	1.82E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198917	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Beta	2.04E-14	1.31E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198918	P6WH LOADOUT	10/24/17	Gross Alpha/Beta	Gross Beta	1.66E-14	1.29E-14	1.79E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198919	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.79E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198920	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Alpha	5.86E-15	7.10E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198921	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Alpha	-8.38E-16	4.50E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198919	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Beta	1.05E-14	1.25E-14	1.84E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198920	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Beta	2.40E-14	1.40E-14	1.83E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198921	P6WH LOADOUT	10/25/17	Gross Alpha/Beta	Gross Beta	1.19E-14	1.26E-14	1.83E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198922	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Alpha	2.58E-15	6.10E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198923	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Alpha	5.79E-15	7.01E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198924	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Alpha	-8.41E-16	4.52E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198922	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Beta	1.66E-14	1.34E-14	1.88E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198923	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Beta	2.44E-14	1.39E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198924	P6WH LOADOUT	10/26/17	Gross Alpha/Beta	Gross Beta	2.63E-14	1.43E-14	1.83E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198925	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Alpha	-8.20E-16	4.41E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198926	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Alpha	2.76E-16	4.96E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198927	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Alpha	-1.89E-15	3.78E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198925	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Beta	1.72E-14	1.29E-14	1.79E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198926	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Beta	1.24E-14	1.25E-14	1.80E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198927	P6WH LOADOUT	10/30/17	Gross Alpha/Beta	Gross Beta	8.69E-15	1.18E-14	1.76E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198928	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Alpha	-1.95E-15	3.90E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198929	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Alpha	-8.23E-16	4.43E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198930	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Alpha	3.68E-15	6.43E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198928	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Beta	6.11E-15	1.18E-14	1.82E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198929	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Beta	2.52E-15	1.12E-14	1.79E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198930	P6WH LOADOUT	10/31/17	Gross Alpha/Beta	Gross Beta	1.27E-14	1.28E-14	1.85E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198931	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Alpha	4.73E-15	6.70E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198932	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Alpha	-8.30E-16	4.47E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198933	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Alpha	-1.92E-15	3.85E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198931	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Beta	1.18E-14	1.25E-14	1.82E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198932	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Beta	1.39E-14	1.27E-14	1.81E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198933	P6WH LOADOUT	11/01/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.32E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198934	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Alpha	2.50E-15	5.91E-15	1.04E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198934	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.67E-15	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198935	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Alpha	2.78E-16	5.01E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198936	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Alpha	5.89E-15	7.13E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198934	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Beta	2.61E-14	1.41E-14	1.82E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198934	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Beta	3.17E-14	1.48E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198935	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Beta	4.88E-14	1.65E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198936	P6WH LOADOUT	11/02/17	Gross Alpha/Beta	Gross Beta	3.56E-14	1.53E-14	1.83E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198937	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Alpha	2.55E-15	6.02E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198938	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Alpha	2.78E-16	5.01E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198939	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.67E-15	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198937	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Beta	1.64E-14	1.32E-14	1.85E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198938	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Beta	4.81E-14	1.64E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198939	P6WH LOADOUT	11/06/17	Gross Alpha/Beta	Gross Beta	4.81E-14	1.64E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198940	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Alpha	1.42E-15	5.58E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198941	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Alpha	1.38E-15	5.46E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198942	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Alpha	2.74E-16	4.94E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198940	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Beta	2.51E-14	1.42E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198941	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Beta	2.74E-14	1.42E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198942	P6WH LOADOUT	11/07/17	Gross Alpha/Beta	Gross Beta	3.98E-14	1.54E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198943	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Alpha	2.47E-15	5.84E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198944	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Alpha	3.73E-15	6.52E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198945	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Alpha	-7.44E-16	3.33E-15	6.21E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198943	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Beta	3.63E-14	1.51E-14	1.79E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198944	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Beta	3.79E-14	1.58E-14	1.88E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198945	P6WH LOADOUT	11/08/17	Gross Alpha/Beta	Gross Beta	-2.91E-15	7.95E-15	1.17E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198946	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Alpha	5.94E-15	7.19E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198947	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Alpha	2.02E-14	1.07E-14	1.03E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198948	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Alpha	5.89E-15	7.13E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198946	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Beta	3.81E-14	1.56E-14	1.85E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198947	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Beta	4.58E-14	1.62E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198948	P6WH LOADOUT	11/09/17	Gross Alpha/Beta	Gross Beta	3.56E-14	1.53E-14	1.83E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198949	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Alpha	2.93E-16	5.28E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198950	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Alpha	-8.23E-16	4.43E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198951	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Alpha	2.77E-16	4.98E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198949	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Beta	2.22E-14	1.43E-14	1.92E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198950	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.32E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198951	P6WH LOADOUT	11/13/17	Gross Alpha/Beta	Gross Beta	1.88E-14	1.33E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198990	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Alpha	1.25E-14	8.97E-15	8.97E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198990	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.34E-15	8.97E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198991	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Alpha	2.02E-15	5.35E-15	8.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198992	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Alpha	9.61E-15	7.84E-15	8.43E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198990	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Beta	-1.02E-14	2.03E-14	3.43E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198990	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Beta	2.55E-14	2.28E-14	3.43E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198991	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Beta	3.14E-14	2.22E-14	3.26E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198992	P6WH LOADOUT	11/14/17	Gross Alpha/Beta	Gross Beta	2.19E-14	2.13E-14	3.22E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198993	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Alpha	5.65E-15	6.98E-15	9.05E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198994	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Alpha	6.38E-15	6.89E-15	8.47E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198995	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Alpha	5.33E-15	6.58E-15	8.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198993	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Beta	3.93E-14	2.40E-14	3.46E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198994	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Beta	5.36E-14	2.36E-14	3.24E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198995	P6WH LOADOUT	11/15/17	Gross Alpha/Beta	Gross Beta	6.18E-14	2.44E-14	3.26E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198996	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Alpha	9.32E-15	8.23E-15	9.22E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198997	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Alpha	2.02E-15	5.35E-15	8.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198998	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Alpha	7.53E-15	7.29E-15	8.54E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198996	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Beta	5.91E-14	2.58E-14	3.52E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198997	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Beta	6.04E-14	2.43E-14	3.26E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198998	P6WH LOADOUT	11/16/17	Gross Alpha/Beta	Gross Beta	7.39E-14	2.52E-14	3.26E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2017

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198999	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Alpha	9.56E-16	5.07E-15	8.89E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199000	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Alpha	7.63E-15	7.39E-15	8.65E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199001	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.20E-15	8.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198999	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Beta	7.02E-14	2.58E-14	3.40E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199000	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Beta	4.54E-14	2.35E-14	3.31E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199001	P6WH LOADOUT	11/20/17	Gross Alpha/Beta	Gross Beta	5.55E-14	2.39E-14	3.26E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199002	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Alpha	7.91E-15	7.66E-15	8.97E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199003	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Alpha	2.00E-15	5.28E-15	8.43E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199004	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Alpha	4.07E-15	5.97E-15	8.22E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199002	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Beta	7.83E-14	2.65E-14	3.43E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199003	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Beta	5.54E-14	2.37E-14	3.22E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199004	P6WH LOADOUT	11/21/17	Gross Alpha/Beta	Gross Beta	6.91E-14	2.41E-14	3.14E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199005	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Alpha	-7.68E-16	3.65E-15	3.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199006	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Alpha	5.42E-15	6.70E-15	8.69E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199007	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Alpha	3.04E-14	1.28E-14	8.77E-15	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199005	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Beta	-8.88E-14	1.27E-14	1.85E-14	µCi/mL	UJ	T06, T07	SLDS (General Area)-Perimeter Air
SLD199006	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Beta	-2.28E-14	1.87E-14	3.32E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199007	P6WH LOADOUT	11/22/17	Gross Alpha/Beta	Gross Beta	1.41E-14	2.15E-14	3.35E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199008	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Alpha	7.31E-15	7.40E-15	1.00E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199008	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Alpha	1.32E-14	9.13E-15	1.00E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199009	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Alpha	7.73E-15	7.08E-15	9.14E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199010	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Alpha	3.46E-15	5.67E-15	9.26E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199008	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Beta	3.89E-14	1.63E-14	1.88E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199008	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Beta	6.16E-14	1.86E-14	1.88E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199009	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.41E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199010	P6WH LOADOUT	11/27/17	Gross Alpha/Beta	Gross Beta	3.31E-14	1.47E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199011	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Alpha	6.57E-15	6.65E-15	9.03E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199012	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Alpha	1.30E-15	4.83E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199013	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.57E-15	9.10E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199011	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Beta	1.79E-14	1.28E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199012	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Beta	3.15E-14	1.48E-14	1.77E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199013	P6WH LOADOUT	11/28/17	Gross Alpha/Beta	Gross Beta	3.60E-14	1.48E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199014	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Alpha	3.77E-15	6.17E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199015	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Alpha	2.40E-15	5.29E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199016	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Alpha	4.61E-15	6.16E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199014	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Beta	3.24E-15	1.23E-14	1.89E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199015	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Beta	2.14E-14	1.36E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199016	P6WH LOADOUT	11/29/17	Gross Alpha/Beta	Gross Beta	3.07E-14	1.46E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199017	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Alpha	6.04E-15	6.91E-15	9.90E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199018	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Alpha	6.80E-15	6.88E-15	9.34E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199019	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.24E-15	9.50E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199017	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Beta	1.59E-14	1.36E-14	1.86E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199018	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Beta	1.43E-14	1.27E-14	1.75E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199019	P6WH LOADOUT	11/30/17	Gross Alpha/Beta	Gross Beta	5.93E-15	1.19E-14	1.78E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199020	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Alpha	7.41E-15	7.50E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199021	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.53E-15	9.38E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199022	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Alpha	4.61E-15	6.16E-15	9.38E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD199020	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Beta	6.86E-14	1.94E-14	1.91E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199021	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Beta	7.89E-14	1.94E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199022	P6WH LOADOUT	12/04/17	Gross Alpha/Beta	Gross Beta	6.61E-14	1.82E-14	1.76E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199023	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Alpha	1.29E-15	4.78E-15	9.34E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199024	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.52E-15	9.03E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199025	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Alpha	2.20E-15	4.85E-15	8.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199023	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Beta	2.70E-14	1.42E-14	1.75E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199024	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Beta	2.68E-14	1.38E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199025	P6WH LOADOUT	12/05/17	Gross Alpha/Beta	Gross Beta	1.38E-14	1.18E-14	1.61E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199038	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Alpha	1.35E-15	5.35E-15	1.09E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199038	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Alpha	8.30E-15	7.82E-15	1.09E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199039	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Alpha	2.37E-15	5.50E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199040	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Alpha	1.25E-15	4.96E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199038	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Beta	2.43E-14	1.31E-14	1.73E-14	µCi/mL			Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199038	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Beta	2.36E-14	1.30E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199039	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Beta	2.58E-14	1.27E-14	1.63E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199040	P6WH LOADOUT	12/06/17	Gross Alpha/Beta	Gross Beta	1.02E-14	1.06E-14	1.60E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199041	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Alpha	3.70E-15	6.33E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199042	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Alpha	3.49E-15	5.98E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199043	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Alpha	1.29E-15	5.09E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199041	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Beta	1.93E-14	1.26E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199042	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Beta	9.76E-15	1.08E-14	1.65E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199043	P6WH LOADOUT	12/07/17	Gross Alpha/Beta	Gross Beta	1.68E-14	1.17E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199044	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Alpha	1.21E-14	9.05E-15	1.12E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199045	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Alpha	9.04E-15	7.80E-15	1.04E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199046	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Alpha	3.48E-15	5.95E-15	1.03E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199044	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Beta	4.03E-14	1.53E-14	1.78E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199045	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Beta	4.53E-14	1.51E-14	1.65E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199046	P6WH LOADOUT	12/11/17	Gross Alpha/Beta	Gross Beta	4.77E-14	1.53E-14	1.64E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199047	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Alpha	1.35E-15	5.35E-15	1.09E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199048	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Alpha	2.399E-15	5.58E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199049	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Alpha	2.42E-15	5.62E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199047	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Beta	2.36E-14	1.30E-14	1.73E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199048	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Beta	2.19E-14	1.24E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199049	P6WH LOADOUT	12/12/17	Gross Alpha/Beta	Gross Beta	2.35E-14	1.27E-14	1.67E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199050	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Alpha	2.45E-15	5.70E-15	1.07E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199051	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Alpha	6.04E-15	7.15E-15	1.10E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199052	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Alpha	5.70E-15	6.75E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199050	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Beta	3.76E-14	1.45E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199051	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Beta	2.61E-14	1.34E-14	1.74E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199052	P6WH LOADOUT	12/13/17	Gross Alpha/Beta	Gross Beta	3.16E-14	1.35E-14	1.65E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199053	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Alpha	2.58E-15	5.99E-15	1.12E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199054	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Alpha	4.63E-15	6.43E-15	1.05E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199055	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Alpha	1.85E-16	4.61E-15	1.04E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199053	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Beta	2.12E-14	1.30E-14	1.78E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199054	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Beta	2.34E-14	1.26E-14	1.66E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199055	P6WH LOADOUT	12/14/17	Gross Alpha/Beta	Gross Beta	2.40E-14	1.27E-14	1.65E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD199056	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Alpha	3.25E-15	6.11E-15	1.01E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199056	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Beta	3.33E-14	1.57E-14	1.82E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199057	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Alpha	4.09E-15	6.23E-15	9.82E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199057	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Beta	2.89E-14	1.40E-14	1.83E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199058	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Alpha	1.07E-14	8.12E-15	9.29E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199058	P6WH LOADOUT	12/18/17	Gross Alpha/Beta	Gross Beta	3.24E-14	1.39E-14	1.73E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199059	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Alpha	1.74E-14	9.51E-15	8.71E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199059	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Beta	7.66E-14	1.79E-14	1.62E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199060	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Alpha	1.26E-14	8.56E-15	9.09E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199060	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Beta	5.23E-14	1.58E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199061	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Alpha	1.09E-14	7.81E-15	8.60E-15	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199061	P6WH LOADOUT	12/19/17	Gross Alpha/Beta	Gross Beta	5.75E-14	1.58E-14	1.60E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199062	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Alpha	-6.14E-16	3.50E-15	8.64E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199062	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Beta	2.41E-14	1.22E-14	1.61E-14	µCi/mL	J	T04, T20	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199063	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Alpha	4.65E-16	4.34E-15	9.17E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199063	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Beta	2.70E-14	1.31E-14	1.71E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199064	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Alpha	1.49E-15	4.58E-15	8.60E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199064	P6WH LOADOUT	12/20/17	Gross Alpha/Beta	Gross Beta	3.07E-14	1.29E-14	1.60E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199065	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Alpha	5.02E-15	6.35E-15	9.33E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199065	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Beta	3.33E-14	1.40E-14	1.74E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199066	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Alpha	6.10E-15	6.69E-15	9.25E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199066	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Beta	4.60E-14	1.53E-14	1.72E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199067	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Alpha	1.56E-15	4.80E-15	9.01E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199067	P6WH LOADOUT	12/21/17	Gross Alpha/Beta	Gross Beta	3.08E-14	1.34E-14	1.68E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199068	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Alpha	2.18E-14	2.13E-14	2.79E-14	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199068	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Beta	3.21E-14	3.35E-14	5.19E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199069	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Alpha	8.67E-15	1.72E-14	2.95E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199069	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Beta	2.93E-14	3.48E-14	5.49E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199070	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Alpha	1.50E-14	1.90E-14	2.79E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199070	P6WH LOADOUT	12/27/17	Gross Alpha/Beta	Gross Beta	2.12E-14	3.20E-14	5.19E-14	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199071	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.74E-15	9.05E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199071	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.32E-14	1.69E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199072	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Alpha	5.09E-15	6.43E-15	9.46E-15	µCi/mL	UJ	T06	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199072	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Beta	2.71E-14	1.34E-14	1.76E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199073	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Alpha	6.98E-15	6.82E-15	8.94E-15	µCi/mL	UJ	T04, T05	Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD199073	P6WH LOADOUT	12/28/17	Gross Alpha/Beta	Gross Beta	3.68E-14	1.40E-14	1.66E-14	µCi/mL	=		Plant 6WH/6WH LOADOUT (General Area) Perimeter Air
SLD194177	DESTREHAN ST.	01/03/17	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.64E-15	8.65E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194177	DESTREHAN ST.	01/03/17	Gross Alpha/Beta	Gross Alpha	6.28E-15	7.17E-15	8.65E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194177	DESTREHAN ST.	01/03/17	Gross Alpha/Beta	Gross Beta	-9.53E-15	3.21E-14	3.08E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD194177	DESTREHAN ST.	01/03/17	Gross Alpha/Beta	Gross Beta	8.12E-15	3.30E-14	3.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194178	DESTREHAN ST.	01/04/17	Gross Alpha/Beta	Gross Alpha	5.74E-15	6.55E-15	7.91E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194178	DESTREHAN ST.	01/04/17	Gross Alpha/Beta	Gross Beta	1.52E-14	3.05E-14	2.82E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194179	DESTREHAN ST.	01/05/17	Gross Alpha/Beta	Gross Alpha	-2.54E-15	4.07E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194179	DESTREHAN ST.	01/05/17	Gross Alpha/Beta	Gross Beta	6.14E-15	3.99E-14	3.74E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194180	DESTREHAN ST.	01/09/17	Gross Alpha/Beta	Gross Alpha	1.40E-15	4.97E-15	8.08E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194180	DESTREHAN ST.	01/09/17	Gross Alpha/Beta	Gross Beta	1.62E-14	3.12E-14	2.88E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194181	DESTREHAN ST.	01/10/17	Gross Alpha/Beta	Gross Alpha	1.37E-15	4.89E-15	7.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194181	DESTREHAN ST.	01/10/17	Gross Alpha/Beta	Gross Beta	-5.23E-15	2.97E-14	2.83E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194182	DESTREHAN ST.	01/11/17	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.36E-15	8.15E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194182	DESTREHAN ST.	01/11/17	Gross Alpha/Beta	Gross Beta	3.08E-14	3.22E-14	2.90E-14	µCi/mL	UJ	T02	SLDS (General Area)-Perimeter Air
SLD194183	DESTREHAN ST.	01/12/17	Gross Alpha/Beta	Gross Alpha	9.46E-15	7.96E-15	8.30E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194183	DESTREHAN ST.	01/12/17	Gross Alpha/Beta	Gross Beta	5.71E-14	3.41E-14	2.96E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194184	DESTREHAN ST.	01/17/17	Gross Alpha/Beta	Gross Alpha	2.87E-16	4.56E-15	8.30E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194184	DESTREHAN ST.	01/17/17	Gross Alpha/Beta	Gross Beta	-1.21E-14	3.07E-14	2.96E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194230	DESTREHAN ST.	01/18/17	Gross Alpha/Beta	Gross Alpha	4.62E-15	6.63E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194230	DESTREHAN ST.	01/18/17	Gross Alpha/Beta	Gross Beta	3.61E-14	1.36E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194231	DESTREHAN ST.	01/19/17	Gross Alpha/Beta	Gross Alpha	1.86E-15	7.46E-15	1.39E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194231	DESTREHAN ST.	01/19/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.49E-14	2.27E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194232	DESTREHAN ST.	01/26/17	Gross Alpha/Beta	Gross Alpha	-1.26E-15	6.98E-15	1.57E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194232	DESTREHAN ST.	01/26/17	Gross Alpha/Beta	Gross Beta	3.90E-14	1.90E-14	2.57E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194233	DESTREHAN ST.	01/30/17	Gross Alpha/Beta	Gross Alpha	3.96E-15	7.01E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194233	DESTREHAN ST.	01/30/17	Gross Alpha/Beta	Gross Beta	2.43E-14	1.32E-14	1.86E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194237	DESTREHAN ST.	01/31/17	Gross Alpha/Beta	Gross Alpha	7.58E-16	3.56E-15	7.57E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194237	DESTREHAN ST.	01/31/17	Gross Alpha/Beta	Gross Beta	2.18E-14	1.60E-14	2.48E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD194253	DESTREHAN ST.	02/01/17	Gross Alpha/Beta	Gross Alpha	1.38E-15	3.99E-15	8.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194253	DESTREHAN ST.	02/01/17	Gross Alpha/Beta	Gross Beta	1.87E-14	2.15E-14	2.56E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194254	DESTREHAN ST.	02/02/17	Gross Alpha/Beta	Gross Alpha	1.41E-15	4.06E-15	8.15E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194254	DESTREHAN ST.	02/02/17	Gross Alpha/Beta	Gross Beta	3.50E-14	2.30E-14	2.61E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD194255	DESTREHAN ST.	02/06/17	Gross Alpha/Beta	Gross Alpha	4.71E-15	5.55E-15	8.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194255	DESTREHAN ST.	02/06/17	Gross Alpha/Beta	Gross Beta	6.92E-14	2.50E-14	2.56E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194256	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Alpha	1.65E-15	4.76E-15	9.54E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194258	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Alpha	8.73E-15	7.62E-15	9.43E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD194258	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Alpha	5.46E-15	6.60E-15	9.43E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194256	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Beta	6.72E-14	2.87E-14	3.05E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194258	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Beta	1.84E-14	1.33E-14	1.70E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD194258	DESTREHAN ST.	02/07/17	Gross Alpha/Beta	Gross Beta	1.63E-14	1.30E-14	1.70E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD194257	DESTREHAN ST.	02/08/17	Gross Alpha/Beta	Gross Alpha	1.42E-15	4.10E-15	8.23E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD194259	DESTREHAN ST.	02/08/17	Gross Alpha/Beta	Gross Alpha	8.96E-15	7.82E-15	9.68E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD194257	DESTREHAN ST.	02/08/17	Gross Alpha/Beta	Gross Beta	7.03E-14	2.56E-14	2.63E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD194259	DESTREHAN ST.	02/08/17	Gross Alpha/Beta	Gross Beta	3.09E-14	1.49E-14	1.75E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD194260	DESTREHAN ST.	02/14/17	Gross Alpha/Beta	Gross Alpha	2.22E-15	5.49E-15	9.59E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194260	DESTREHAN ST.	02/14/17	Gross Alpha/Beta	Gross Beta	2.08E-14	1.37E-14	1.73E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD194261	DESTREHAN ST.	02/15/17	Gross Alpha/Beta	Gross Alpha	2.25E-15	5.57E-15	9.72E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194261	DESTREHAN ST.	02/15/17	Gross Alpha/Beta	Gross Beta	1.47E-14	1.32E-14	1.76E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD194262	DESTREHAN ST.	02/16/17	Gross Alpha/Beta	Gross Alpha	5.76E-15	6.96E-15	9.94E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194262	DESTREHAN ST.	02/16/17	Gross Alpha/Beta	Gross Beta	3.17E-14	1.53E-14	1.80E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD194263	DESTREHAN ST.	02/21/17	Gross Alpha/Beta	Gross Alpha	4.52E-15	6.45E-15	9.76E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194263	DESTREHAN ST.	02/21/17	Gross Alpha/Beta	Gross Beta	4.19E-14	1.62E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD194264	DESTREHAN ST.	02/22/17	Gross Alpha/Beta	Gross Alpha	4.35E-15	6.20E-15	9.39E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194264	DESTREHAN ST.	02/22/17	Gross Alpha/Beta	Gross Beta	3.82E-14	1.53E-14	1.70E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD194265	DESTREHAN ST.	02/23/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.43E-15	9.43E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194265	DESTREHAN ST.	02/23/17	Gross Alpha/Beta	Gross Beta	1.08E-14	1.24E-14	1.70E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194266	DESTREHAN ST.	02/27/17	Gross Alpha/Beta	Gross Alpha	1.08E-15	4.87E-15	9.31E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194266	DESTREHAN ST.	02/27/17	Gross Alpha/Beta	Gross Beta	3.24E-14	1.46E-14	1.68E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD194267	DESTREHAN ST.	02/28/17	Gross Alpha/Beta	Gross Alpha	4.33E-15	6.17E-15	9.35E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD194267	DESTREHAN ST.	02/28/17	Gross Alpha/Beta	Gross Beta	2.37E-14	1.38E-14	1.69E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195903	DESTREHAN ST.	03/01/17	Gross Alpha/Beta	Gross Alpha	7.43E-15	6.64E-15	8.12E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD195903	DESTREHAN ST.	03/01/17	Gross Alpha/Beta	Gross Alpha	1.21E-14	8.12E-15	8.12E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195903	DESTREHAN ST.	03/01/17	Gross Alpha/Beta	Gross Beta	3.26E-14	1.89E-14	2.58E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD195903	DESTREHAN ST.	03/01/17	Gross Alpha/Beta	Gross Beta	5.78E-14	2.10E-14	2.58E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD195904	DESTREHAN ST.	03/02/17	Gross Alpha/Beta	Gross Alpha	5.59E-15	6.31E-15	8.88E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195904	DESTREHAN ST.	03/02/17	Gross Alpha/Beta	Gross Beta	3.48E-14	2.06E-14	2.82E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195905	DESTREHAN ST.	03/06/17	Gross Alpha/Beta	Gross Alpha	-7.21E-16	2.68E-15	8.67E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195905	DESTREHAN ST.	03/06/17	Gross Alpha/Beta	Gross Beta	1.97E-14	1.88E-14	2.75E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195906	DESTREHAN ST.	03/07/17	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.25E-15	8.08E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195906	DESTREHAN ST.	03/07/17	Gross Alpha/Beta	Gross Beta	3.39E-14	1.89E-14	2.57E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195907	DESTREHAN ST.	03/08/17	Gross Alpha/Beta	Gross Alpha	2.65E-15	4.49E-15	7.70E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195907	DESTREHAN ST.	03/08/17	Gross Alpha/Beta	Gross Beta	1.19E-14	1.62E-14	2.44E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195908	DESTREHAN ST.	03/09/17	Gross Alpha/Beta	Gross Alpha	2.72E-15	4.61E-15	7.90E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195908	DESTREHAN ST.	03/09/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.81E-14	2.51E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195909	DESTREHAN ST.	03/13/17	Gross Alpha/Beta	Gross Alpha	3.85E-15	5.13E-15	7.90E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195909	DESTREHAN ST.	03/13/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.73E-14	2.51E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195910	DESTREHAN ST.	03/14/17	Gross Alpha/Beta	Gross Alpha	2.66E-15	6.71E-15	1.32E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195911	DESTREHAN ST.	03/14/17	Gross Alpha/Beta	Gross Alpha	5.02E-15	5.66E-15	7.97E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195910	DESTREHAN ST.	03/14/17	Gross Alpha/Beta	Gross Beta	2.88E-14	2.85E-14	4.19E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195911	DESTREHAN ST.	03/14/17	Gross Alpha/Beta	Gross Beta	2.69E-14	1.81E-14	2.53E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195912	DESTREHAN ST.	03/15/17	Gross Alpha/Beta	Gross Alpha	3.84E-15	6.50E-15	1.11E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195912	DESTREHAN ST.	03/15/17	Gross Alpha/Beta	Gross Beta	4.37E-14	2.58E-14	3.54E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195913	DESTREHAN ST.	03/16/17	Gross Alpha/Beta	Gross Alpha	6.16E-15	6.11E-15	7.97E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195913	DESTREHAN ST.	03/16/17	Gross Alpha/Beta	Gross Beta	3.93E-14	1.92E-14	2.53E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD195914	DESTREHAN ST.	03/20/17	Gross Alpha/Beta	Gross Alpha	2.78E-15	4.71E-15	8.08E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195914	DESTREHAN ST.	03/20/17	Gross Alpha/Beta	Gross Beta	4.43E-14	1.98E-14	2.57E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD195915	DESTREHAN ST.	03/21/17	Gross Alpha/Beta	Gross Alpha	6.87E-15	6.14E-15	7.51E-15	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195915	DESTREHAN ST.	03/21/17	Gross Alpha/Beta	Gross Beta	3.49E-14	1.79E-14	2.38E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195916	DESTREHAN ST.	03/22/17	Gross Alpha/Beta	Gross Alpha	5.14E-15	6.43E-15	9.00E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195916	DESTREHAN ST.	03/22/17	Gross Alpha/Beta	Gross Alpha	1.77E-15	5.12E-15	9.00E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195916	DESTREHAN ST.	03/22/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.46E-14	1.70E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195916	DESTREHAN ST.	03/22/17	Gross Alpha/Beta	Gross Beta	2.36E-14	1.41E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195917	DESTREHAN ST.	03/23/17	Gross Alpha/Beta	Gross Alpha	3.04E-15	5.87E-15	9.46E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195917	DESTREHAN ST.	03/23/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.52E-14	1.78E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195918	DESTREHAN ST.	03/27/17	Gross Alpha/Beta	Gross Alpha	6.92E-15	6.74E-15	8.44E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195918	DESTREHAN ST.	03/27/17	Gross Alpha/Beta	Gross Beta	2.61E-14	1.37E-14	1.59E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195919	DESTREHAN ST.	03/28/17	Gross Alpha/Beta	Gross Alpha	1.66E-15	4.78E-15	8.41E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195919	DESTREHAN ST.	03/28/17	Gross Alpha/Beta	Gross Beta	8.15E-15	1.16E-14	1.59E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195920	DESTREHAN ST.	03/29/17	Gross Alpha/Beta	Gross Alpha	-4.45E-16	3.83E-15	8.58E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195920	DESTREHAN ST.	03/29/17	Gross Alpha/Beta	Gross Beta	1.57E-14	1.27E-14	1.62E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195936	DESTREHAN ST.	03/30/17	Gross Alpha/Beta	Gross Alpha	1.17E-14	1.54E-14	2.13E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD195936	DESTREHAN ST.	03/30/17	Gross Alpha/Beta	Gross Alpha	4.44E-15	1.29E-14	2.13E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195936	DESTREHAN ST.	03/30/17	Gross Alpha/Beta	Gross Beta	1.13E-14	2.28E-14	3.75E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD195936	DESTREHAN ST.	03/30/17	Gross Alpha/Beta	Gross Beta	9.81E-15	2.26E-14	3.75E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195937	DESTREHAN ST.	04/03/17	Gross Alpha/Beta	Gross Alpha	-2.62E-16	7.10E-15	1.38E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD195937	DESTREHAN ST.	04/03/17	Gross Alpha/Beta	Gross Beta	2.62E-14	1.72E-14	2.43E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD195938	DESTREHAN ST.	04/04/17	Gross Alpha/Beta	Gross Alpha	9.91E-16	5.88E-15	1.05E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195938	DESTREHAN ST.	04/04/17	Gross Alpha/Beta	Gross Beta	1.76E-14	1.28E-14	1.84E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195939	DESTREHAN ST.	04/05/17	Gross Alpha/Beta	Gross Alpha	-1.99E-15	6.92E-15	1.50E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD195939	DESTREHAN ST.	04/05/17	Gross Alpha/Beta	Gross Beta	1.77E-14	1.74E-14	2.64E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD195951	DESTREHAN ST.	04/06/17	Gross Alpha/Beta	Gross Alpha	7.61E-15	7.33E-15	9.28E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195951	DESTREHAN ST.	04/06/17	Gross Alpha/Beta	Gross Alpha	7.61E-15	7.33E-15	9.28E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195951	DESTREHAN ST.	04/06/17	Gross Alpha/Beta	Gross Beta	1.61E-14	1.23E-14	1.72E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD195951	DESTREHAN ST.	04/06/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.34E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195952	DESTREHAN ST.	04/10/17	Gross Alpha/Beta	Gross Alpha	5.63E-15	8.31E-15	1.26E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195952	DESTREHAN ST.	04/10/17	Gross Alpha/Beta	Gross Beta	2.59E-14	1.72E-14	2.33E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195953	DESTREHAN ST.	04/11/17	Gross Alpha/Beta	Gross Alpha	1.75E-15	4.94E-15	8.88E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195953	DESTREHAN ST.	04/11/17	Gross Alpha/Beta	Gross Beta	3.22E-14	1.38E-14	1.64E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195954	DESTREHAN ST.	04/12/17	Gross Alpha/Beta	Gross Alpha	6.65E-16	4.56E-15	9.16E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195954	DESTREHAN ST.	04/12/17	Gross Alpha/Beta	Gross Beta	1.95E-14	1.26E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195955	DESTREHAN ST.	04/13/17	Gross Alpha/Beta	Gross Alpha	5.86E-15	7.24E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195955	DESTREHAN ST.	04/13/17	Gross Alpha/Beta	Gross Beta	3.72E-14	1.59E-14	1.90E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195956	DESTREHAN ST.	04/17/17	Gross Alpha/Beta	Gross Alpha	5.30E-15	6.55E-15	9.28E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195956	DESTREHAN ST.	04/17/17	Gross Alpha/Beta	Gross Beta	2.93E-14	1.39E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195957	DESTREHAN ST.	04/18/17	Gross Alpha/Beta	Gross Alpha	6.15E-15	6.62E-15	8.84E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195957	DESTREHAN ST.	04/18/17	Gross Alpha/Beta	Gross Beta	2.93E-14	1.34E-14	1.63E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195958	DESTREHAN ST.	04/19/17	Gross Alpha/Beta	Gross Alpha	6.68E-16	4.58E-15	9.20E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195958	DESTREHAN ST.	04/19/17	Gross Alpha/Beta	Gross Beta	2.97E-14	1.39E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD195959	DESTREHAN ST.	04/20/17	Gross Alpha/Beta	Gross Alpha	8.28E-15	7.26E-15	8.77E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195959	DESTREHAN ST.	04/20/17	Gross Alpha/Beta	Gross Beta	1.87E-14	1.21E-14	1.62E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195960	DESTREHAN ST.	04/24/17	Gross Alpha/Beta	Gross Alpha	1.81E-15	5.12E-15	9.20E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195960	DESTREHAN ST.	04/24/17	Gross Alpha/Beta	Gross Beta	1.60E-14	1.22E-14	1.70E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD195961	DESTREHAN ST.	04/25/17	Gross Alpha/Beta	Gross Alpha	6.65E-16	4.56E-15	9.16E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195961	DESTREHAN ST.	04/25/17	Gross Alpha/Beta	Gross Beta	2.60E-14	1.34E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195962	DESTREHAN ST.	04/26/17	Gross Alpha/Beta	Gross Alpha	3.14E-15	5.96E-15	9.77E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195962	DESTREHAN ST.	04/26/17	Gross Alpha/Beta	Gross Beta	2.31E-14	1.37E-14	1.81E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD195963	DESTREHAN ST.	04/27/17	Gross Alpha/Beta	Gross Alpha	1.74E-15	4.90E-15	8.80E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD195963	DESTREHAN ST.	04/27/17	Gross Alpha/Beta	Gross Beta	6.29E-15	1.05E-14	1.63E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196001	DESTREHAN ST.	05/01/17	Gross Alpha/Beta	Gross Alpha	1.60E-15	5.31E-15	9.70E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196001	DESTREHAN ST.	05/01/17	Gross Alpha/Beta	Gross Alpha	5.85E-15	6.82E-15	9.70E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196001	DESTREHAN ST.	05/01/17	Gross Alpha/Beta	Gross Beta	1.23E-15	9.71E-15	1.58E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD196001	DESTREHAN ST.	05/01/17	Gross Alpha/Beta	Gross Beta	2.21E-14	1.24E-14	1.58E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196002	DESTREHAN ST.	05/02/17	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.21E-15	9.86E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196002	DESTREHAN ST.	05/02/17	Gross Alpha/Beta	Gross Beta	1.49E-14	1.17E-14	1.61E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD196003	DESTREHAN ST.	05/08/17	Gross Alpha/Beta	Gross Alpha	-5.78E-16	4.75E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196003	DESTREHAN ST.	05/08/17	Gross Alpha/Beta	Gross Beta	2.47E-14	1.35E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196004	DESTREHAN ST.	05/09/17	Gross Alpha/Beta	Gross Alpha	2.72E-15	5.85E-15	9.91E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196004	DESTREHAN ST.	05/09/17	Gross Alpha/Beta	Gross Beta	3.21E-14	1.37E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196005	DESTREHAN ST.	05/10/17	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.21E-15	9.86E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196005	DESTREHAN ST.	05/10/17	Gross Alpha/Beta	Gross Beta	3.47E-14	1.40E-14	1.61E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196006	DESTREHAN ST.	05/11/17	Gross Alpha/Beta	Gross Alpha	7.01E-15	7.24E-15	9.82E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196006	DESTREHAN ST.	05/11/17	Gross Alpha/Beta	Gross Beta	1.76E-14	1.19E-14	1.60E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD196007	DESTREHAN ST.	05/15/17	Gross Alpha/Beta	Gross Alpha	-5.46E-16	4.49E-15	9.95E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196007	DESTREHAN ST.	05/15/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.33E-14	1.63E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196008	DESTREHAN ST.	05/16/17	Gross Alpha/Beta	Gross Alpha	5.44E-16	4.97E-15	9.91E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196008	DESTREHAN ST.	05/16/17	Gross Alpha/Beta	Gross Beta	3.83E-14	1.44E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196009	DESTREHAN ST.	05/17/17	Gross Alpha/Beta	Gross Alpha	5.60E-16	5.12E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196009	DESTREHAN ST.	05/17/17	Gross Alpha/Beta	Gross Beta	2.39E-14	1.31E-14	1.67E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD196010	DESTREHAN ST.	05/18/17	Gross Alpha/Beta	Gross Alpha	1.65E-15	5.50E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD196010	DESTREHAN ST.	05/18/17	Gross Alpha/Beta	Gross Beta	3.33E-14	1.40E-14	1.64E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD196050	DESTREHAN ST.	05/22/17	Gross Alpha/Beta	Gross Alpha	3.46E-15	5.32E-15	7.71E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196050	DESTREHAN ST.	05/22/17	Gross Alpha/Beta	Gross Beta	2.29E-14	2.00E-14	2.46E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD196051	DESTREHAN ST.	05/23/17	Gross Alpha/Beta	Gross Alpha	5.97E-15	6.53E-15	8.23E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196051	DESTREHAN ST.	05/23/17	Gross Alpha/Beta	Gross Beta	2.44E-14	2.13E-14	2.63E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD196052	DESTREHAN ST.	05/24/17	Gross Alpha/Beta	Gross Alpha	1.39E-15	4.57E-15	8.05E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196052	DESTREHAN ST.	05/24/17	Gross Alpha/Beta	Gross Beta	1.60E-14	2.03E-14	2.57E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196074	DESTREHAN ST.	05/25/17	Gross Alpha/Beta	Gross Alpha	2.85E-15	4.55E-15	7.48E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD196074	DESTREHAN ST.	05/25/17	Gross Alpha/Beta	Gross Alpha	2.85E-15	4.55E-15	7.48E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196074	DESTREHAN ST.	05/25/17	Gross Alpha/Beta	Gross Beta	2.89E-15	1.61E-14	2.59E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD196074	DESTREHAN ST.	05/25/17	Gross Alpha/Beta	Gross Beta	9.97E-15	1.68E-14	2.59E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196075	DESTREHAN ST.	05/30/17	Gross Alpha/Beta	Gross Alpha	1.72E-15	3.93E-15	7.38E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196075	DESTREHAN ST.	05/30/17	Gross Alpha/Beta	Gross Beta	1.40E-14	1.69E-14	2.56E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196076	DESTREHAN ST.	05/31/17	Gross Alpha/Beta	Gross Alpha	4.04E-15	5.17E-15	7.64E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196076	DESTREHAN ST.	05/31/17	Gross Alpha/Beta	Gross Beta	5.85E-15	1.68E-14	2.65E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196077	DESTREHAN ST.	06/01/17	Gross Alpha/Beta	Gross Alpha	2.92E-15	4.67E-15	7.68E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196077	DESTREHAN ST.	06/01/17	Gross Alpha/Beta	Gross Beta	3.42E-14	1.93E-14	2.66E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD196078	DESTREHAN ST.	06/05/17	Gross Alpha/Beta	Gross Alpha	6.52E-16	3.35E-15	7.58E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196078	DESTREHAN ST.	06/05/17	Gross Alpha/Beta	Gross Beta	9.38E-15	1.69E-14	2.62E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196079	DESTREHAN ST.	06/06/17	Gross Alpha/Beta	Gross Alpha	4.04E-15	5.17E-15	7.64E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196079	DESTREHAN ST.	06/06/17	Gross Alpha/Beta	Gross Beta	1.09E-14	1.72E-14	2.65E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196080	DESTREHAN ST.	06/07/17	Gross Alpha/Beta	Gross Alpha	4.67E-15	5.11E-15	6.91E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD196080	DESTREHAN ST.	06/07/17	Gross Alpha/Beta	Gross Beta	1.45E-14	1.60E-14	2.39E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197134	DESTREHAN ST.	06/08/17	Gross Alpha/Beta	Gross Alpha	2.43E-15	5.72E-15	9.49E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197134	DESTREHAN ST.	06/08/17	Gross Alpha/Beta	Gross Alpha	1.31E-15	5.27E-15	9.49E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197134	DESTREHAN ST.	06/08/17	Gross Alpha/Beta	Gross Beta	1.84E-14	1.21E-14	1.67E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197134	DESTREHAN ST.	06/08/17	Gross Alpha/Beta	Gross Beta	1.27E-14	1.14E-14	1.67E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197135	DESTREHAN ST.	06/12/17	Gross Alpha/Beta	Gross Alpha	3.49E-15	6.04E-15	9.33E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197135	DESTREHAN ST.	06/12/17	Gross Alpha/Beta	Gross Beta	2.57E-14	1.29E-14	1.64E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197136	DESTREHAN ST.	06/13/17	Gross Alpha/Beta	Gross Alpha	1.81E-16	4.62E-15	9.21E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197136	DESTREHAN ST.	06/13/17	Gross Alpha/Beta	Gross Beta	7.55E-15	1.05E-14	1.62E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197137	DESTREHAN ST.	06/14/17	Gross Alpha/Beta	Gross Alpha	3.60E-15	6.23E-15	9.62E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197137	DESTREHAN ST.	06/14/17	Gross Alpha/Beta	Gross Beta	2.58E-14	1.32E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197138	DESTREHAN ST.	06/15/17	Gross Alpha/Beta	Gross Alpha	-2.02E-15	3.50E-15	9.33E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197138	DESTREHAN ST.	06/15/17	Gross Alpha/Beta	Gross Beta	1.88E-14	1.20E-14	1.64E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197139	DESTREHAN ST.	06/19/17	Gross Alpha/Beta	Gross Alpha	2.47E-15	5.83E-15	9.66E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197139	DESTREHAN ST.	06/19/17	Gross Alpha/Beta	Gross Beta	2.23E-14	1.28E-14	1.70E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197140	DESTREHAN ST.	06/20/17	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.51E-15	9.13E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197140	DESTREHAN ST.	06/20/17	Gross Alpha/Beta	Gross Beta	3.20E-14	1.34E-14	1.60E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197201	DESTREHAN ST.	06/21/17	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.20E-15	8.03E-15	µCi/mL			SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197201	DESTREHAN ST.	06/21/17	Gross Alpha/Beta	Gross Alpha	6.01E-15	6.01E-15	8.03E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197201	DESTREHAN ST.	06/21/17	Gross Alpha/Beta	Gross Beta	2.45E-14	1.75E-14	2.54E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197201	DESTREHAN ST.	06/21/17	Gross Alpha/Beta	Gross Beta	4.11E-14	1.89E-14	2.54E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197202	DESTREHAN ST.	06/22/17	Gross Alpha/Beta	Gross Alpha	4.88E-15	5.56E-15	8.03E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197202	DESTREHAN ST.	06/22/17	Gross Alpha/Beta	Gross Beta	1.58E-14	1.67E-14	2.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197203	DESTREHAN ST.	06/26/17	Gross Alpha/Beta	Gross Alpha	2.56E-15	4.44E-15	7.82E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197203	DESTREHAN ST.	06/26/17	Gross Alpha/Beta	Gross Beta	1.89E-14	1.66E-14	2.47E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197204	DESTREHAN ST.	06/27/17	Gross Alpha/Beta	Gross Alpha	4.84E-15	5.52E-15	7.96E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197204	DESTREHAN ST.	06/27/17	Gross Alpha/Beta	Gross Beta	2.93E-14	1.78E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197187	DESTREHAN ST.	06/28/17	Gross Alpha/Beta	Gross Alpha	8.80E-15	7.43E-15	9.78E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197187	DESTREHAN ST.	06/28/17	Gross Alpha/Beta	Gross Alpha	1.09E-14	8.02E-15	9.78E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197187	DESTREHAN ST.	06/28/17	Gross Alpha/Beta	Gross Beta	2.32E-14	1.26E-14	1.68E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197187	DESTREHAN ST.	06/28/17	Gross Alpha/Beta	Gross Beta	3.45E-14	1.38E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197188	DESTREHAN ST.	06/29/17	Gross Alpha/Beta	Gross Alpha	7.90E-15	7.27E-15	9.98E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197188	DESTREHAN ST.	06/29/17	Gross Alpha/Beta	Gross Beta	4.54E-14	1.52E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197189	DESTREHAN ST.	07/05/17	Gross Alpha/Beta	Gross Alpha	-5.37E-15	9.77E-15	2.98E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197189	DESTREHAN ST.	07/05/17	Gross Alpha/Beta	Gross Beta	-1.27E-14	2.77E-14	5.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197190	DESTREHAN ST.	07/06/17	Gross Alpha/Beta	Gross Alpha	9.75E-16	1.21E-14	2.71E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197190	DESTREHAN ST.	07/06/17	Gross Alpha/Beta	Gross Beta	3.28E-14	3.11E-14	4.66E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197191	DESTREHAN ST.	07/10/17	Gross Alpha/Beta	Gross Alpha	6.17E-15	2.13E-14	4.28E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197191	DESTREHAN ST.	07/10/17	Gross Alpha/Beta	Gross Beta	4.31E-14	4.80E-14	7.36E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197192	DESTREHAN ST.	07/11/17	Gross Alpha/Beta	Gross Alpha	3.64E-15	5.90E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197192	DESTREHAN ST.	07/11/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.35E-14	1.74E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197193	DESTREHAN ST.	07/12/17	Gross Alpha/Beta	Gross Alpha	-7.10E-16	3.87E-15	9.86E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197193	DESTREHAN ST.	07/12/17	Gross Alpha/Beta	Gross Beta	1.39E-14	1.16E-14	1.70E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197194	DESTREHAN ST.	07/13/17	Gross Alpha/Beta	Gross Alpha	3.67E-16	4.57E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197194	DESTREHAN ST.	07/13/17	Gross Alpha/Beta	Gross Beta	2.55E-14	1.33E-14	1.75E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197195	DESTREHAN ST.	07/17/17	Gross Alpha/Beta	Gross Alpha	9.34E-15	7.89E-15	1.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197195	DESTREHAN ST.	07/17/17	Gross Alpha/Beta	Gross Beta	4.23E-14	1.53E-14	1.78E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197205	DESTREHAN ST.	07/18/17	Gross Alpha/Beta	Gross Alpha	3.93E-15	5.32E-15	8.40E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197205	DESTREHAN ST.	07/18/17	Gross Alpha/Beta	Gross Beta	6.04E-14	2.13E-14	2.65E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197206	DESTREHAN ST.	07/19/17	Gross Alpha/Beta	Gross Alpha	6.78E-15	6.10E-15	7.63E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197206	DESTREHAN ST.	07/19/17	Gross Alpha/Beta	Gross Beta	6.72E-14	2.04E-14	2.41E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197207	DESTREHAN ST.	07/20/17	Gross Alpha/Beta	Gross Alpha	1.23E-14	9.37E-15	1.05E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197207	DESTREHAN ST.	07/20/17	Gross Alpha/Beta	Gross Beta	1.78E-14	2.15E-14	3.31E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197208	DESTREHAN ST.	07/24/17	Gross Alpha/Beta	Gross Alpha	9.95E-15	7.13E-15	7.60E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197208	DESTREHAN ST.	07/24/17	Gross Alpha/Beta	Gross Beta	3.14E-14	1.72E-14	2.40E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197209	DESTREHAN ST.	07/25/17	Gross Alpha/Beta	Gross Alpha	5.98E-15	5.98E-15	8.00E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197209	DESTREHAN ST.	07/25/17	Gross Alpha/Beta	Gross Beta	4.02E-14	1.88E-14	2.52E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197210	DESTREHAN ST.	07/26/17	Gross Alpha/Beta	Gross Alpha	3.38E-15	4.58E-15	7.23E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197210	DESTREHAN ST.	07/26/17	Gross Alpha/Beta	Gross Beta	4.75E-14	1.79E-14	2.28E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197211	DESTREHAN ST.	07/27/17	Gross Alpha/Beta	Gross Alpha	4.63E-15	8.01E-15	1.41E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197211	DESTREHAN ST.	07/27/17	Gross Alpha/Beta	Gross Beta	7.43E-15	2.74E-14	4.46E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197212	DESTREHAN ST.	07/31/17	Gross Alpha/Beta	Gross Alpha	6.75E-15	6.07E-15	7.60E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197212	DESTREHAN ST.	07/31/17	Gross Alpha/Beta	Gross Beta	1.91E-14	1.61E-14	2.40E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197269	DESTREHAN ST.	08/01/17	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.78E-15	1.02E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197269	DESTREHAN ST.	08/01/17	Gross Alpha/Beta	Gross Alpha	9.73E-16	4.93E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197269	DESTREHAN ST.	08/01/17	Gross Alpha/Beta	Gross Beta	4.01E-14	1.58E-14	1.65E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197269	DESTREHAN ST.	08/01/17	Gross Alpha/Beta	Gross Beta	2.66E-14	1.45E-14	1.65E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197270	DESTREHAN ST.	08/02/17	Gross Alpha/Beta	Gross Alpha	-8.90E-17	4.47E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197270	DESTREHAN ST.	08/02/17	Gross Alpha/Beta	Gross Beta	3.62E-14	1.55E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197271	DESTREHAN ST.	08/03/17	Gross Alpha/Beta	Gross Alpha	7.69E-15	7.53E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197271	DESTREHAN ST.	08/03/17	Gross Alpha/Beta	Gross Beta	6.34E-14	1.86E-14	1.73E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197273	DESTREHAN ST.	08/07/17	Gross Alpha/Beta	Gross Alpha	9.12E-15	8.14E-15	1.11E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197273	DESTREHAN ST.	08/07/17	Gross Alpha/Beta	Gross Beta	2.96E-14	1.58E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197274	DESTREHAN ST.	08/08/17	Gross Alpha/Beta	Gross Alpha	3.20E-15	5.98E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197274	DESTREHAN ST.	08/08/17	Gross Alpha/Beta	Gross Beta	2.33E-14	1.45E-14	1.71E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197272	DESTREHAN ST.	08/09/17	Gross Alpha/Beta	Gross Alpha	2.15E-15	5.68E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197272	DESTREHAN ST.	08/09/17	Gross Alpha/Beta	Gross Beta	3.31E-14	1.58E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197275	DESTREHAN ST.	08/10/17	Gross Alpha/Beta	Gross Alpha	4.25E-15	6.29E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197275	DESTREHAN ST.	08/10/17	Gross Alpha/Beta	Gross Beta	6.11E-14	1.81E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197310	DESTREHAN ST.	08/14/17	Gross Alpha/Beta	Gross Alpha	8.00E-15	7.49E-15	9.92E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD197310	DESTREHAN ST.	08/14/17	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.39E-15	9.92E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197310	DESTREHAN ST.	08/14/17	Gross Alpha/Beta	Gross Beta	5.46E-14	1.77E-14	1.76E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD197310	DESTREHAN ST.	08/14/17	Gross Alpha/Beta	Gross Beta	4.97E-14	1.72E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD197311	DESTREHAN ST.	08/15/17	Gross Alpha/Beta	Gross Alpha	2.63E-15	5.76E-15	1.00E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197311	DESTREHAN ST.	08/15/17	Gross Alpha/Beta	Gross Beta	2.79E-14	1.52E-14	1.77E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197312	DESTREHAN ST.	08/16/17	Gross Alpha/Beta	Gross Alpha	5.74E-15	7.80E-15	1.19E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197312	DESTREHAN ST.	08/16/17	Gross Alpha/Beta	Gross Beta	2.58E-14	1.74E-14	2.12E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197313	DESTREHAN ST.	08/17/17	Gross Alpha/Beta	Gross Alpha	1.58E-15	5.47E-15	1.03E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197313	DESTREHAN ST.	08/17/17	Gross Alpha/Beta	Gross Beta	1.50E-14	1.42E-14	1.82E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD197314	DESTREHAN ST.	08/21/17	Gross Alpha/Beta	Gross Alpha	4.98E-15	6.77E-15	1.04E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197314	DESTREHAN ST.	08/21/17	Gross Alpha/Beta	Gross Beta	2.96E-14	1.58E-14	1.83E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197315	DESTREHAN ST.	08/22/17	Gross Alpha/Beta	Gross Alpha	3.87E-15	6.41E-15	1.04E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197315	DESTREHAN ST.	08/22/17	Gross Alpha/Beta	Gross Beta	1.02E-14	1.39E-14	1.84E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197316	DESTREHAN ST.	08/23/17	Gross Alpha/Beta	Gross Alpha	-2.92E-15	3.20E-15	1.04E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197316	DESTREHAN ST.	08/23/17	Gross Alpha/Beta	Gross Beta	1.88E-14	1.48E-14	1.84E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197317	DESTREHAN ST.	08/24/17	Gross Alpha/Beta	Gross Alpha	2.66E-15	5.83E-15	1.01E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197317	DESTREHAN ST.	08/24/17	Gross Alpha/Beta	Gross Beta	3.11E-14	1.57E-14	1.79E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD197318	DESTREHAN ST.	08/28/17	Gross Alpha/Beta	Gross Alpha	4.73E-15	6.43E-15	9.83E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197318	DESTREHAN ST.	08/28/17	Gross Alpha/Beta	Gross Beta	3.77E-14	1.60E-14	1.74E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD197319	DESTREHAN ST.	08/29/17	Gross Alpha/Beta	Gross Alpha	3.66E-15	6.06E-15	9.83E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD197319	DESTREHAN ST.	08/29/17	Gross Alpha/Beta	Gross Beta	4.66E-14	1.68E-14	1.74E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198801	DESTREHAN ST.	08/30/17	Gross Alpha/Beta	Gross Alpha	7.26E-15	7.52E-15	1.04E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198801	DESTREHAN ST.	08/30/17	Gross Alpha/Beta	Gross Beta	4.86E-14	1.77E-14	1.84E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198802	DESTREHAN ST.	08/31/17	Gross Alpha/Beta	Gross Alpha	4.77E-15	6.48E-15	9.92E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198802	DESTREHAN ST.	08/31/17	Gross Alpha/Beta	Gross Beta	3.66E-14	1.60E-14	1.76E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198816	DESTREHAN ST.	09/05/17	Gross Alpha/Beta	Gross Alpha	9.12E-15	7.32E-15	8.90E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198816	DESTREHAN ST.	09/05/17	Gross Alpha/Beta	Gross Beta	3.17E-14	1.80E-14	2.53E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198817	DESTREHAN ST.	09/06/17	Gross Alpha/Beta	Gross Alpha	2.62E-15	5.01E-15	8.90E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198817	DESTREHAN ST.	09/06/17	Gross Alpha/Beta	Gross Beta	1.98E-14	1.70E-14	2.53E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198818	DESTREHAN ST.	09/11/17	Gross Alpha/Beta	Gross Alpha	8.13E-15	9.98E-15	1.51E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198818	DESTREHAN ST.	09/11/17	Gross Alpha/Beta	Gross Beta	1.36E-14	2.71E-14	4.29E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198822	DESTREHAN ST.	09/12/17	Gross Alpha/Beta	Gross Alpha	3.66E-15	5.13E-15	8.15E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198822	DESTREHAN ST.	09/12/17	Gross Alpha/Beta	Gross Beta	2.88E-14	1.86E-14	2.51E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198823	DESTREHAN ST.	09/13/17	Gross Alpha/Beta	Gross Alpha	2.44E-15	4.43E-15	7.84E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198823	DESTREHAN ST.	09/13/17	Gross Alpha/Beta	Gross Beta	3.19E-14	1.82E-14	2.41E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198824	DESTREHAN ST.	09/14/17	Gross Alpha/Beta	Gross Alpha	2.69E-16	3.17E-15	7.78E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198824	DESTREHAN ST.	09/14/17	Gross Alpha/Beta	Gross Beta	5.03E-14	1.96E-14	2.39E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198825	DESTREHAN ST.	09/18/17	Gross Alpha/Beta	Gross Alpha	2.46E-15	4.47E-15	7.91E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198825	DESTREHAN ST.	09/18/17	Gross Alpha/Beta	Gross Beta	4.20E-14	1.92E-14	2.43E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198826	DESTREHAN ST.	09/19/17	Gross Alpha/Beta	Gross Alpha	5.62E-15	5.75E-15	7.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198826	DESTREHAN ST.	09/19/17	Gross Alpha/Beta	Gross Beta	2.81E-14	1.77E-14	2.38E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198827	DESTREHAN ST.	09/20/17	Gross Alpha/Beta	Gross Alpha	4.71E-15	5.51E-15	8.01E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198827	DESTREHAN ST.	09/20/17	Gross Alpha/Beta	Gross Beta	3.76E-14	1.90E-14	2.47E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198872	DESTREHAN ST.	09/21/17	Gross Alpha/Beta	Gross Alpha	5.44E-15	6.31E-15	9.40E-15	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD198872	DESTREHAN ST.	09/21/17	Gross Alpha/Beta	Gross Alpha	2.18E-15	5.05E-15	9.40E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198872	DESTREHAN ST.	09/21/17	Gross Alpha/Beta	Gross Beta	2.27E-14	1.24E-14	1.65E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD198872	DESTREHAN ST.	09/21/17	Gross Alpha/Beta	Gross Beta	2.47E-14	1.26E-14	1.65E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198873	DESTREHAN ST.	09/25/17	Gross Alpha/Beta	Gross Alpha	1.63E-14	9.40E-15	9.40E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198873	DESTREHAN ST.	09/25/17	Gross Alpha/Beta	Gross Beta	7.00E-14	1.75E-14	1.65E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198874	DESTREHAN ST.	09/26/17	Gross Alpha/Beta	Gross Alpha	4.97E-15	6.75E-15	1.07E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198874	DESTREHAN ST.	09/26/17	Gross Alpha/Beta	Gross Beta	4.26E-14	1.61E-14	1.88E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198875	DESTREHAN ST.	10/02/17	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.12E-15	9.20E-15	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198875	DESTREHAN ST.	10/02/17	Gross Alpha/Beta	Gross Beta	3.10E-14	1.32E-14	1.62E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD198876	DESTREHAN ST.	10/03/17	Gross Alpha/Beta	Gross Alpha	7.14E-15	7.30E-15	1.03E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198876	DESTREHAN ST.	10/03/17	Gross Alpha/Beta	Gross Beta	1.79E-14	1.27E-14	1.80E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD198877	DESTREHAN ST.	10/04/17	Gross Alpha/Beta	Gross Alpha	4.32E-15	5.87E-15	9.32E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198877	DESTREHAN ST.	10/04/17	Gross Alpha/Beta	Gross Beta	2.18E-14	1.22E-14	1.64E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198878	DESTREHAN ST.	10/05/17	Gross Alpha/Beta	Gross Alpha	2.14E-15	4.96E-15	9.24E-15	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198878	DESTREHAN ST.	10/05/17	Gross Alpha/Beta	Gross Beta	2.36E-14	1.23E-14	1.62E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198879	DESTREHAN ST.	10/10/17	Gross Alpha/Beta	Gross Alpha	1.53E-15	6.38E-15	1.32E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD198879	DESTREHAN ST.	10/10/17	Gross Alpha/Beta	Gross Beta	2.98E-14	1.71E-14	2.31E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD198952	DESTREHAN ST.	10/11/17	Gross Alpha/Beta	Gross Alpha	-2.92E-15	5.14E-15	1.02E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198952	DESTREHAN ST.	10/11/17	Gross Alpha/Beta	Gross Alpha	4.05E-16	6.41E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198952	DESTREHAN ST.	10/11/17	Gross Alpha/Beta	Gross Beta	2.09E-14	1.33E-14	1.69E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198952	DESTREHAN ST.	10/11/17	Gross Alpha/Beta	Gross Beta	1.45E-14	1.26E-14	1.69E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198953	DESTREHAN ST.	10/12/17	Gross Alpha/Beta	Gross Alpha	-7.00E-16	5.99E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198953	DESTREHAN ST.	10/12/17	Gross Alpha/Beta	Gross Beta	9.54E-15	1.19E-14	1.69E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198954	DESTREHAN ST.	10/16/17	Gross Alpha/Beta	Gross Alpha	7.05E-15	8.41E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198954	DESTREHAN ST.	10/16/17	Gross Alpha/Beta	Gross Beta	2.80E-14	1.41E-14	1.69E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198955	DESTREHAN ST.	10/17/17	Gross Alpha/Beta	Gross Alpha	8.02E-15	8.55E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198955	DESTREHAN ST.	10/17/17	Gross Alpha/Beta	Gross Beta	3.45E-14	1.46E-14	1.67E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198956	DESTREHAN ST.	10/18/17	Gross Alpha/Beta	Gross Alpha	8.91E-15	8.64E-15	9.82E-15	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198956	DESTREHAN ST.	10/18/17	Gross Alpha/Beta	Gross Beta	3.65E-14	1.46E-14	1.63E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198957	DESTREHAN ST.	10/19/17	Gross Alpha/Beta	Gross Alpha	5.89E-15	8.04E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198957	DESTREHAN ST.	10/19/17	Gross Alpha/Beta	Gross Beta	4.74E-14	1.61E-14	1.68E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198958	DESTREHAN ST.	10/23/17	Gross Alpha/Beta	Gross Alpha	2.57E-15	7.01E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198958	DESTREHAN ST.	10/23/17	Gross Alpha/Beta	Gross Beta	2.47E-14	1.36E-14	1.67E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198959	DESTREHAN ST.	10/24/17	Gross Alpha/Beta	Gross Alpha	4.56E-15	7.35E-15	9.62E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198959	DESTREHAN ST.	10/24/17	Gross Alpha/Beta	Gross Beta	9.03E-15	1.13E-14	1.60E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198960	DESTREHAN ST.	10/25/17	Gross Alpha/Beta	Gross Alpha	4.73E-15	7.63E-15	9.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198960	DESTREHAN ST.	10/25/17	Gross Alpha/Beta	Gross Beta	3.23E-14	1.43E-14	1.66E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198961	DESTREHAN ST.	10/26/17	Gross Alpha/Beta	Gross Alpha	3.56E-15	7.13E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198961	DESTREHAN ST.	10/26/17	Gross Alpha/Beta	Gross Beta	3.15E-14	1.40E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198962	DESTREHAN ST.	10/30/17	Gross Alpha/Beta	Gross Alpha	4.03E-16	6.38E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198962	DESTREHAN ST.	10/30/17	Gross Alpha/Beta	Gross Beta	1.66E-14	1.28E-14	1.69E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198963	DESTREHAN ST.	10/31/17	Gross Alpha/Beta	Gross Alpha	1.44E-15	6.47E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198963	DESTREHAN ST.	10/31/17	Gross Alpha/Beta	Gross Beta	1.05E-14	1.16E-14	1.62E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198964	DESTREHAN ST.	11/01/17	Gross Alpha/Beta	Gross Alpha	1.52E-15	6.81E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198964	DESTREHAN ST.	11/01/17	Gross Alpha/Beta	Gross Beta	1.32E-14	1.24E-14	1.70E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198965	DESTREHAN ST.	11/02/17	Gross Alpha/Beta	Gross Alpha	8.26E-15	8.82E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198965	DESTREHAN ST.	11/02/17	Gross Alpha/Beta	Gross Beta	4.06E-14	1.56E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198966	DESTREHAN ST.	11/06/17	Gross Alpha/Beta	Gross Alpha	-2.62E-15	4.49E-15	3.52E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198966	DESTREHAN ST.	11/06/17	Gross Alpha/Beta	Gross Beta	-1.65E-14	6.27E-15	6.75E-15	µCi/mL	UJ	T06, T07	SLDS (General Area)-Perimeter Air
SLD198967	DESTREHAN ST.	11/07/17	Gross Alpha/Beta	Gross Alpha	4.86E-15	7.83E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198967	DESTREHAN ST.	11/07/17	Gross Alpha/Beta	Gross Beta	4.24E-14	1.57E-14	1.70E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198968	DESTREHAN ST.	11/08/17	Gross Alpha/Beta	Gross Alpha	9.94E-15	8.87E-15	9.78E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198968	DESTREHAN ST.	11/08/17	Gross Alpha/Beta	Gross Beta	2.96E-14	1.38E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198969	DESTREHAN ST.	11/09/17	Gross Alpha/Beta	Gross Alpha	3.86E-16	6.11E-15	9.74E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198969	DESTREHAN ST.	11/09/17	Gross Alpha/Beta	Gross Beta	5.72E-14	1.66E-14	1.62E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198970	DESTREHAN ST.	11/13/17	Gross Alpha/Beta	Gross Alpha	7.95E-15	8.48E-15	9.95E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198970	DESTREHAN ST.	11/13/17	Gross Alpha/Beta	Gross Beta	1.90E-14	1.28E-14	1.65E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199026	DESTREHAN ST.	11/14/17	Gross Alpha/Beta	Gross Alpha	6.83E-15	8.85E-15	1.06E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199026	DESTREHAN ST.	11/14/17	Gross Alpha/Beta	Gross Alpha	4.58E-15	8.25E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199026	DESTREHAN ST.	11/14/17	Gross Alpha/Beta	Gross Beta	3.19E-14	1.36E-14	1.76E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199026	DESTREHAN ST.	11/14/17	Gross Alpha/Beta	Gross Beta	1.97E-14	1.21E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199027	DESTREHAN ST.	11/15/17	Gross Alpha/Beta	Gross Alpha	1.09E-14	9.56E-15	1.02E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199027	DESTREHAN ST.	11/15/17	Gross Alpha/Beta	Gross Beta	4.11E-14	1.42E-14	1.69E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199028	DESTREHAN ST.	11/16/17	Gross Alpha/Beta	Gross Alpha	6.01E-15	1.08E-14	1.40E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199028	DESTREHAN ST.	11/16/17	Gross Alpha/Beta	Gross Beta	5.51E-14	1.93E-14	2.31E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199029	DESTREHAN ST.	11/20/17	Gross Alpha/Beta	Gross Alpha	3.39E-15	7.77E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199029	DESTREHAN ST.	11/20/17	Gross Alpha/Beta	Gross Beta	2.49E-14	1.25E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199030	DESTREHAN ST.	11/21/17	Gross Alpha/Beta	Gross Alpha	6.38E-15	8.27E-15	9.94E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199030	DESTREHAN ST.	11/21/17	Gross Alpha/Beta	Gross Beta	3.05E-14	1.28E-14	1.65E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199031	DESTREHAN ST.	11/22/17	Gross Alpha/Beta	Gross Alpha	1.30E-15	7.75E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199031	DESTREHAN ST.	11/22/17	Gross Alpha/Beta	Gross Beta	1.95E-14	1.27E-14	1.88E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199032	DESTREHAN ST.	11/27/17	Gross Alpha/Beta	Gross Alpha	1.39E-15	8.34E-15	1.22E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199032	DESTREHAN ST.	11/27/17	Gross Alpha/Beta	Gross Beta	3.99E-14	1.59E-14	2.02E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199033	DESTREHAN ST.	11/28/17	Gross Alpha/Beta	Gross Alpha	2.28E-15	7.42E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199033	DESTREHAN ST.	11/28/17	Gross Alpha/Beta	Gross Beta	3.04E-14	1.31E-14	1.72E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199034	DESTREHAN ST.	11/29/17	Gross Alpha/Beta	Gross Alpha	9.19E-15	9.54E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199034	DESTREHAN ST.	11/29/17	Gross Alpha/Beta	Gross Beta	2.07E-14	1.23E-14	1.79E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199035	DESTREHAN ST.	11/30/17	Gross Alpha/Beta	Gross Alpha	-4.45E-15	7.79E-15	1.45E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199035	DESTREHAN ST.	11/30/17	Gross Alpha/Beta	Gross Beta	1.90E-14	1.54E-14	2.39E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD199036	DESTREHAN ST.	12/04/17	Gross Alpha/Beta	Gross Alpha	8.90E-15	1.15E-14	1.39E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199036	DESTREHAN ST.	12/04/17	Gross Alpha/Beta	Gross Beta	6.13E-14	1.99E-14	2.30E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD199037	DESTREHAN ST.	12/05/17	Gross Alpha/Beta	Gross Alpha	1.18E-15	7.06E-15	1.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2017

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD199037	DESTREHAN ST.	12/05/17	Gross Alpha/Beta	Gross Beta	2.75E-14	1.28E-14	1.71E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200092	DESTREHAN ST.	12/06/17	Gross Alpha/Beta	Gross Alpha	2.12E-15	6.64E-15	1.01E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200092	DESTREHAN ST.	12/06/17	Gross Alpha/Beta	Gross Alpha	8.49E-15	8.45E-15	1.01E-14	µCi/mL	UJ	T04, T05	Destrehan St. (General Area)-Perimeter Air
SLD200092	DESTREHAN ST.	12/06/17	Gross Alpha/Beta	Gross Beta	1.42E-14	1.18E-14	1.66E-14	µCi/mL			Destrehan St. (General Area)-Perimeter Air
SLD200092	DESTREHAN ST.	12/06/17	Gross Alpha/Beta	Gross Beta	2.10E-14	1.26E-14	1.66E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200093	DESTREHAN ST.	12/07/17	Gross Alpha/Beta	Gross Alpha	1.92E-15	1.14E-14	1.83E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200093	DESTREHAN ST.	12/07/17	Gross Alpha/Beta	Gross Beta	8.38E-15	1.91E-14	2.99E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200094	DESTREHAN ST.	12/13/17	Gross Alpha/Beta	Gross Alpha	-2.96E-15	1.54E-14	2.83E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200094	DESTREHAN ST.	12/13/17	Gross Alpha/Beta	Gross Beta	-1.36E-14	2.59E-14	4.63E-14	µCi/mL	UJ	T06	Destrehan St. (General Area)-Perimeter Air
SLD200095	DESTREHAN ST.	12/28/17	Gross Alpha/Beta	Gross Alpha	1.14E-14	9.62E-15	1.09E-14	µCi/mL	J	T04, T20	Destrehan St. (General Area)-Perimeter Air
SLD200095	DESTREHAN ST.	12/28/17	Gross Alpha/Beta	Gross Beta	3.34E-14	1.47E-14	1.78E-14	µCi/mL	=		Destrehan St. (General Area)-Perimeter Air
SLD197141	PLANT 1	06/08/17	Gross Alpha/Beta	Gross Alpha	-2.00E-15	9.00E-15	2.03E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197141	PLANT 1	06/08/17	Gross Alpha/Beta	Gross Beta	2.73E-14	2.45E-14	3.57E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197142	PLANT 1	06/12/17	Gross Alpha/Beta	Gross Alpha	4.15E-15	7.20E-15	1.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197142	PLANT 1	06/12/17	Gross Alpha/Beta	Gross Beta	1.41E-14	1.33E-14	1.95E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197143	PLANT 1	06/13/17	Gross Alpha/Beta	Gross Alpha	1.86E-15	7.47E-15	1.35E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197143	PLANT 1	06/13/17	Gross Alpha/Beta	Gross Beta	1.91E-14	1.63E-14	2.36E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197144	PLANT 1	06/14/17	Gross Alpha/Beta	Gross Alpha	7.78E-15	9.30E-15	1.28E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197144	PLANT 1	06/14/17	Gross Alpha/Beta	Gross Beta	2.85E-14	1.68E-14	2.24E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197145	PLANT 1	06/15/17	Gross Alpha/Beta	Gross Alpha	2.24E-16	5.72E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197145	PLANT 1	06/15/17	Gross Alpha/Beta	Gross Beta	2.04E-14	1.44E-14	2.00E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197146	PLANT 1	06/19/17	Gross Alpha/Beta	Gross Alpha	4.20E-15	7.27E-15	1.12E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197146	PLANT 1	06/19/17	Gross Alpha/Beta	Gross Beta	3.09E-14	1.55E-14	1.97E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197147	PLANT 1	06/20/17	Gross Alpha/Beta	Gross Alpha	3.99E-15	6.91E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197147	PLANT 1	06/20/17	Gross Alpha/Beta	Gross Beta	3.02E-14	1.48E-14	1.87E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197213	PLANT 1	06/21/17	Gross Alpha/Beta	Gross Alpha	1.28E-14	1.10E-14	1.25E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197213	PLANT 1	06/21/17	Gross Alpha/Beta	Gross Alpha	3.29E-15	8.23E-15	1.25E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197213	PLANT 1	06/21/17	Gross Alpha/Beta	Gross Beta	2.64E-14	1.47E-14	2.07E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197213	PLANT 1	06/21/17	Gross Alpha/Beta	Gross Beta	2.73E-14	1.48E-14	2.07E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197214	PLANT 2	06/22/17	Gross Alpha/Beta	Gross Alpha	-4.65E-15	4.61E-15	1.19E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197214	PLANT 2	06/22/17	Gross Alpha/Beta	Gross Beta	5.53E-15	1.14E-14	1.98E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197215	PLANT 3	06/26/17	Gross Alpha/Beta	Gross Alpha	-3.59E-15	5.66E-15	1.28E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197215	PLANT 3	06/26/17	Gross Alpha/Beta	Gross Beta	1.47E-14	1.34E-14	2.12E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197216	PLANT 4	06/27/17	Gross Alpha/Beta	Gross Alpha	7.35E-15	8.32E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197216	PLANT 4	06/27/17	Gross Alpha/Beta	Gross Beta	3.02E-14	1.34E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197196	PLANT 1	06/28/17	Gross Alpha/Beta	Gross Alpha	-4.10E-15	3.01E-15	1.75E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197196	PLANT 1	06/28/17	Gross Alpha/Beta	Gross Beta	5.67E-14	3.72E-14	5.47E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197197	PLANT 1	07/05/17	Gross Alpha/Beta	Gross Alpha	4.77E-15	8.56E-15	1.46E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197197	PLANT 1	07/05/17	Gross Alpha/Beta	Gross Beta	3.01E-14	2.94E-14	4.55E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197198	PLANT 1	07/06/17	Gross Alpha/Beta	Gross Alpha	1.19E-14	1.09E-14	1.34E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197198	PLANT 1	07/06/17	Gross Alpha/Beta	Gross Beta	4.46E-14	2.86E-14	4.19E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197199	PLANT 1	07/10/17	Gross Alpha/Beta	Gross Alpha	1.13E-14	8.75E-15	9.65E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197199	PLANT 1	07/10/17	Gross Alpha/Beta	Gross Beta	4.16E-14	2.14E-14	3.01E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197200	PLANT 1	07/11/17	Gross Alpha/Beta	Gross Alpha	1.85E-14	2.58E-14	3.96E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197200	PLANT 1	07/11/17	Gross Alpha/Beta	Gross Beta	9.25E-14	8.08E-14	1.24E-13	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD197217	PLANT 5	07/19/17	Gross Alpha/Beta	Gross Alpha	9.05E-15	1.69E-14	2.44E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197217	PLANT 5	07/19/17	Gross Alpha/Beta	Gross Beta	3.81E-14	2.69E-14	4.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197218	PLANT 6	07/20/17	Gross Alpha/Beta	Gross Alpha	3.78E-14	1.61E-14	2.09E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197218	PLANT 6	07/20/17	Gross Alpha/Beta	Gross Beta	4.67E-15	8.72E-15	1.26E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197219	PLANT 7	07/24/17	Gross Alpha/Beta	Gross Alpha	2.41E-14	1.50E-14	2.18E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197219	PLANT 7	07/24/17	Gross Alpha/Beta	Gross Beta	2.02E-15	8.16E-15	1.31E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197220	PLANT 8	07/25/17	Gross Alpha/Beta	Gross Alpha	3.64E-14	1.77E-14	2.40E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197220	PLANT 8	07/25/17	Gross Alpha/Beta	Gross Beta	2.22E-15	8.96E-15	1.44E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197221	PLANT 9	07/26/17	Gross Alpha/Beta	Gross Alpha	4.11E-14	1.79E-14	2.32E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197221	PLANT 9	07/26/17	Gross Alpha/Beta	Gross Beta	2.16E-15	8.69E-15	1.40E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197222	PLANT 10	07/27/17	Gross Alpha/Beta	Gross Alpha	-5.37E-15	1.54E-14	3.12E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197222	PLANT 10	07/27/17	Gross Alpha/Beta	Gross Beta	5.89E-15	2.84E-14	5.17E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197223	PLANT 11	07/31/17	Gross Alpha/Beta	Gross Alpha	2.40E-14	1.33E-14	1.88E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197223	PLANT 11	07/31/17	Gross Alpha/Beta	Gross Beta	4.22E-15	7.87E-15	1.14E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197276	PLANT 1	08/01/17	Gross Alpha/Beta	Gross Alpha	4.68E-15	6.94E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197276	PLANT 1	08/01/17	Gross Alpha/Beta	Gross Beta	3.45E-14	1.68E-14	1.86E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD197277	PLANT 1	08/07/17	Gross Alpha/Beta	Gross Alpha	2.92E-15	7.72E-15	1.47E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197277	PLANT 1	08/07/17	Gross Alpha/Beta	Gross Beta	3.13E-14	2.01E-14	2.38E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197278	PLANT 1	08/08/17	Gross Alpha/Beta	Gross Alpha	8.23E-15	8.06E-15	1.15E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197278	PLANT 1	08/08/17	Gross Alpha/Beta	Gross Beta	2.67E-14	1.59E-14	1.86E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD197279	PLANT 1	08/09/17	Gross Alpha/Beta	Gross Alpha	6.66E-15	8.32E-15	1.30E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197279	PLANT 1	08/09/17	Gross Alpha/Beta	Gross Beta	1.40E-14	1.64E-14	2.11E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197320	PLANT 1	08/15/17	Gross Alpha/Beta	Gross Alpha	4.94E-15	1.71E-14	3.21E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197320	PLANT 1	08/15/17	Gross Alpha/Beta	Gross Alpha	2.24E-14	2.32E-14	3.21E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197320	PLANT 1	08/15/17	Gross Alpha/Beta	Gross Beta	1.34E-14	4.08E-14	5.68E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD197320	PLANT 1	08/15/17	Gross Alpha/Beta	Gross Beta	4.91E-14	4.47E-14	5.68E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197321	PLANT 1	08/16/17	Gross Alpha/Beta	Gross Alpha	1.16E-14	4.02E-14	7.55E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197321	PLANT 1	08/16/17	Gross Alpha/Beta	Gross Beta	-7.36E-14	8.39E-14	1.34E-13	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197322	PLANT 1	08/17/17	Gross Alpha/Beta	Gross Alpha	5.23E-16	5.61E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197322	PLANT 1	08/17/17	Gross Alpha/Beta	Gross Beta	1.69E-14	1.60E-14	2.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD197323	PLANT 1	08/22/17	Gross Alpha/Beta	Gross Alpha	2.89E-15	6.33E-15	1.10E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD197323	PLANT 1	08/22/17	Gross Alpha/Beta	Gross Beta	4.59E-15	1.40E-14	1.95E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198803	PLANT 1	08/23/17	Gross Alpha/Beta	Gross Alpha	2.58E-15	8.91E-15	1.67E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198803	PLANT 1	08/23/17	Gross Alpha/Beta	Gross Beta	-4.66E-15	2.00E-14	2.96E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198819	PLANT 1	09/18/17	Gross Alpha/Beta	Gross Alpha	2.94E-15	5.34E-15	9.44E-15	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198819	PLANT 1	09/18/17	Gross Alpha/Beta	Gross Alpha	5.55E-15	6.50E-15	9.44E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198819	PLANT 1	09/18/17	Gross Alpha/Beta	Gross Beta	4.51E-14	2.25E-14	2.91E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198819	PLANT 1	09/18/17	Gross Alpha/Beta	Gross Beta	3.17E-14	2.14E-14	2.91E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198820	PLANT 1	09/19/17	Gross Alpha/Beta	Gross Alpha	8.92E-15	7.48E-15	8.90E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198820	PLANT 1	09/19/17	Gross Alpha/Beta	Gross Beta	3.30E-14	2.04E-14	2.74E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198821	PLANT 1	09/20/17	Gross Alpha/Beta	Gross Alpha	6.75E-15	7.91E-15	1.15E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198821	PLANT 1	09/20/17	Gross Alpha/Beta	Gross Beta	3.04E-14	2.53E-14	3.54E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198864	PLANT 1	09/21/17	Gross Alpha/Beta	Gross Alpha	4.95E-15	6.72E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198864	PLANT 1	09/21/17	Gross Alpha/Beta	Gross Beta	2.10E-14	1.35E-14	1.87E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198865	PLANT 1	09/25/17	Gross Alpha/Beta	Gross Alpha	8.65E-15	7.99E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198865	PLANT 1	09/25/17	Gross Alpha/Beta	Gross Beta	5.34E-14	1.72E-14	1.87E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198866	PLANT 1	09/26/17	Gross Alpha/Beta	Gross Alpha	1.32E-14	9.15E-15	1.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2017

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198866	PLANT 1	09/26/17	Gross Alpha/Beta	Gross Beta	4.50E-14	1.60E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198867	PLANT 1	09/27/17	Gross Alpha/Beta	Gross Alpha	3.67E-15	6.19E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198867	PLANT 1	09/27/17	Gross Alpha/Beta	Gross Beta	9.80E-15	1.19E-14	1.86E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198868	PLANT 1	09/28/17	Gross Alpha/Beta	Gross Alpha	0.00E+00	4.25E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198868	PLANT 1	09/28/17	Gross Alpha/Beta	Gross Beta	1.82E-14	1.24E-14	1.76E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198869	PLANT 1	10/02/17	Gross Alpha/Beta	Gross Alpha	3.94E-15	6.63E-15	1.13E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198869	PLANT 1	10/02/17	Gross Alpha/Beta	Gross Beta	1.72E-14	1.37E-14	1.99E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198870	PLANT 1	10/03/17	Gross Alpha/Beta	Gross Alpha	7.12E-15	9.68E-15	1.54E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198870	PLANT 1	10/03/17	Gross Alpha/Beta	Gross Beta	1.43E-14	1.73E-14	2.70E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198871	PLANT 1	10/04/17	Gross Alpha/Beta	Gross Alpha	6.82E-15	6.98E-15	9.82E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198871	PLANT 1	10/04/17	Gross Alpha/Beta	Gross Beta	1.86E-14	1.23E-14	1.72E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198971	PLANT 1	10/18/17	Gross Alpha/Beta	Gross Alpha	1.78E-14	2.03E-14	2.92E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198971	PLANT 1	10/18/17	Gross Alpha/Beta	Gross Alpha	3.84E-14	2.65E-14	2.92E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198971	PLANT 1	10/18/17	Gross Alpha/Beta	Gross Beta	6.67E-14	4.23E-14	5.47E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD198971	PLANT 1	10/18/17	Gross Alpha/Beta	Gross Beta	8.87E-14	4.47E-14	5.47E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198972	PLANT 1	10/19/17	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.17E-15	9.67E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198972	PLANT 1	10/19/17	Gross Alpha/Beta	Gross Beta	3.966E-14	1.59E-14	1.82E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198973	PLANT 1	10/24/17	Gross Alpha/Beta	Gross Alpha	3.44E-14	3.15E-14	4.07E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198973	PLANT 1	10/24/17	Gross Alpha/Beta	Gross Beta	4.38E-14	5.33E-14	7.64E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198974	PLANT 1	10/30/17	Gross Alpha/Beta	Gross Alpha	6.51E-15	7.45E-15	1.07E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198974	PLANT 1	10/30/17	Gross Alpha/Beta	Gross Beta	1.80E-14	1.48E-14	2.00E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198975	PLANT 1	10/31/17	Gross Alpha/Beta	Gross Alpha	2.41E-15	5.32E-15	9.42E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198975	PLANT 1	10/31/17	Gross Alpha/Beta	Gross Beta	1.58E-14	1.30E-14	1.77E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198976	PLANT 1	11/01/17	Gross Alpha/Beta	Gross Alpha	6.03E-15	8.04E-15	1.23E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198976	PLANT 1	11/01/17	Gross Alpha/Beta	Gross Beta	2.62E-14	1.76E-14	2.30E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198977	PLANT 1	11/02/17	Gross Alpha/Beta	Gross Alpha	6.61E-15	7.57E-15	1.08E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198977	PLANT 1	11/02/17	Gross Alpha/Beta	Gross Beta	3.30E-14	1.66E-14	2.04E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198978	PLANT 1	11/06/17	Gross Alpha/Beta	Gross Alpha	1.77E-14	1.79E-14	2.42E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198978	PLANT 1	11/06/17	Gross Alpha/Beta	Gross Beta	3.53E-14	3.29E-14	4.55E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198979	PLANT 1	11/07/17	Gross Alpha/Beta	Gross Alpha	1.22E-14	1.03E-14	1.27E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198979	PLANT 1	11/07/17	Gross Alpha/Beta	Gross Beta	2.04E-14	1.74E-14	2.38E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198980	PLANT 1	11/13/17	Gross Alpha/Beta	Gross Alpha	-9.43E-16	3.72E-15	9.59E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198980	PLANT 1	11/13/17	Gross Alpha/Beta	Gross Beta	2.192E-14	1.39E-14	1.80E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198981	PLANT 1	11/14/17	Gross Alpha/Beta	Gross Alpha	8.73E-15	8.84E-15	1.20E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198981	PLANT 1	11/14/17	Gross Alpha/Beta	Gross Beta	3.65E-14	1.84E-14	2.25E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198982	PLANT 1	11/15/17	Gross Alpha/Beta	Gross Alpha	3.97E-15	8.76E-15	1.55E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198982	PLANT 1	11/15/17	Gross Alpha/Beta	Gross Beta	3.67E-14	2.26E-14	2.91E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198983	PLANT 1	11/16/17	Gross Alpha/Beta	Gross Alpha	8.87E-15	8.99E-15	1.22E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198983	PLANT 1	11/16/17	Gross Alpha/Beta	Gross Beta	5.09E-14	2.02E-14	2.29E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198984	PLANT 1	11/20/17	Gross Alpha/Beta	Gross Alpha	7.37E-15	9.83E-15	1.50E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198984	PLANT 1	11/20/17	Gross Alpha/Beta	Gross Beta	2.29E-14	2.04E-14	2.81E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198985	PLANT 1	11/21/17	Gross Alpha/Beta	Gross Alpha	5.70E-15	6.52E-15	9.34E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

Table B-3. SLDS Perimeter Air Data Results for CY 2017

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD198985	PLANT 1	11/21/17	Gross Alpha/Beta	Gross Beta	3.97E-14	1.55E-14	1.75E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD198986	PLANT 1	11/22/17	Gross Alpha/Beta	Gross Alpha	8.12E-15	9.29E-15	1.33E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198986	PLANT 1	11/22/17	Gross Alpha/Beta	Gross Beta	1.94E-14	1.81E-14	2.50E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198987	PLANT 1	11/27/17	Gross Alpha/Beta	Gross Alpha	1.16E-14	1.06E-14	1.37E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD198987	PLANT 1	11/27/17	Gross Alpha/Beta	Gross Beta	4.05E-14	2.08E-14	2.56E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198988	PLANT 1	11/28/17	Gross Alpha/Beta	Gross Alpha	1.40E-15	5.19E-15	1.01E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198988	PLANT 1	11/28/17	Gross Alpha/Beta	Gross Beta	1.93E-14	1.43E-14	1.90E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD198989	PLANT 1	11/29/17	Gross Alpha/Beta	Gross Alpha	1.38E-15	5.12E-15	9.99E-15	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD198989	PLANT 1	11/29/17	Gross Alpha/Beta	Gross Beta	2.21E-14	1.44E-14	1.87E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199092	PLANT 1	12/05/17	Gross Alpha/Beta	Gross Alpha	2.13E-15	5.73E-15	1.02E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199092	PLANT 1	12/05/17	Gross Alpha/Beta	Gross Alpha	9.69E-16	5.24E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199092	PLANT 1	12/05/17	Gross Alpha/Beta	Gross Beta	7.69E-15	1.30E-14	1.85E-14	µCi/mL			SLDS (General Area)-Perimeter Air
SLD199092	PLANT 1	12/05/17	Gross Alpha/Beta	Gross Beta	1.89E-14	1.43E-14	1.85E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD199093	PLANT 1	12/06/17	Gross Alpha/Beta	Gross Alpha	1.30E-15	7.04E-15	1.38E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199093	PLANT 1	12/06/17	Gross Alpha/Beta	Gross Beta	1.03E-14	1.75E-14	2.48E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199094	PLANT 1	12/07/17	Gross Alpha/Beta	Gross Alpha	2.92E-15	7.85E-15	1.40E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD199094	PLANT 1	12/07/17	Gross Alpha/Beta	Gross Beta	2.48E-14	1.94E-14	2.53E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200075	PLANT 1	12/11/17	Gross Alpha/Beta	Gross Alpha	9.28E-15	8.26E-15	1.04E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200075	PLANT 1	12/11/17	Gross Alpha/Beta	Gross Beta	3.51E-14	1.63E-14	1.88E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200076	PLANT 1	12/12/17	Gross Alpha/Beta	Gross Alpha	1.23E-14	8.87E-15	1.00E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200077	PLANT 1	12/12/17	Gross Alpha/Beta	Gross Alpha	7.04E-15	7.68E-15	1.06E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200076	PLANT 1	12/12/17	Gross Alpha/Beta	Gross Beta	3.23E-14	1.55E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200077	PLANT 1	12/12/17	Gross Alpha/Beta	Gross Beta	2.50E-14	1.54E-14	1.92E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200078	PLANT 1	12/13/17	Gross Alpha/Beta	Gross Alpha	1.34E-15	7.26E-15	1.42E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200079	PLANT 1	12/13/17	Gross Alpha/Beta	Gross Alpha	5.92E-15	1.11E-14	1.84E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200078	PLANT 1	12/13/17	Gross Alpha/Beta	Gross Beta	3.75E-14	2.10E-14	2.56E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200079	PLANT 1	12/13/17	Gross Alpha/Beta	Gross Beta	3.65E-14	2.59E-14	3.32E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200080	PLANT 1	12/14/17	Gross Alpha/Beta	Gross Alpha	1.10E-14	1.08E-14	1.42E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200081	PLANT 1	12/14/17	Gross Alpha/Beta	Gross Alpha	5.70E-15	7.11E-15	1.04E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200080	PLANT 1	12/14/17	Gross Alpha/Beta	Gross Beta	4.16E-14	2.15E-14	2.56E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200081	PLANT 1	12/14/17	Gross Alpha/Beta	Gross Beta	1.54E-14	1.41E-14	1.87E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200082	PLANT 1	12/18/17	Gross Alpha/Beta	Gross Alpha	1.22E-14	8.79E-15	9.92E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200083	PLANT 1	12/18/17	Gross Alpha/Beta	Gross Alpha	6.63E-15	7.23E-15	1.00E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200082	PLANT 1	12/18/17	Gross Alpha/Beta	Gross Beta	1.18E-14	1.31E-14	1.79E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200083	PLANT 1	12/18/17	Gross Alpha/Beta	Gross Beta	3.52E-14	1.58E-14	1.81E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200084	PLANT 1	12/19/17	Gross Alpha/Beta	Gross Alpha	1.01E-14	9.01E-15	1.14E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200084	PLANT 1	12/19/17	Gross Alpha/Beta	Gross Beta	4.83E-14	1.88E-14	2.05E-14	µCi/mL	=		SLDS (General Area)-Perimeter Air
SLD200085	PLANT 1	12/20/17	Gross Alpha/Beta	Gross Alpha	1.55E-14	9.60E-15	9.87E-15	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200086	PLANT 1	12/20/17	Gross Alpha/Beta	Gross Alpha	6.75E-15	7.36E-15	1.02E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200085	PLANT 1	12/20/17	Gross Alpha/Beta	Gross Beta	2.39E-14	1.44E-14	1.78E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200086	PLANT 1	12/20/17	Gross Alpha/Beta	Gross Beta	2.17E-14	1.46E-14	1.84E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200087	PLANT 1	12/21/17	Gross Alpha/Beta	Gross Alpha	1.62E-14	1.76E-14	2.44E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air

**Table B-3. SLDS Perimeter Air Data Results for CY 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
SLD200088	PLANT 1	12/21/17	Gross Alpha/Beta	Gross Alpha	-3.79E-15	2.49E-15	1.05E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200087	PLANT 1	12/21/17	Gross Alpha/Beta	Gross Beta	2.72E-14	3.20E-14	4.40E-14	µCi/mL	UJ	T06	SLDS (General Area)-Perimeter Air
SLD200088	PLANT 1	12/21/17	Gross Alpha/Beta	Gross Beta	2.93E-14	1.58E-14	1.90E-14	µCi/mL	J	T04, T20	SLDS (General Area)-Perimeter Air
SLD200089	PLANT 1	12/26/17	Gross Alpha/Beta	Gross Alpha	8.33E-15	8.13E-15	1.07E-14	µCi/mL	UJ	T04, T05	SLDS (General Area)-Perimeter Air
SLD200089	PLANT 1	12/26/17	Gross Alpha/Beta	Gross Beta	3.38E-14	1.65E-14	1.94E-14	µCi/mL	=		SLDS (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.

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.

T02 Radionuclide Quantitation: Analytical uncertainties were not met and/or not reported.

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 2017**

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	DL	Units	VQ	Validation Reason Code	Sampling Event Name
HIS194336	BA-1	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-1st Semiannual 2017
HIS200275	BA-1	01/09/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194361	DA-1	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200303	DA-1	01/09/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194361-1	DA-1dup	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200303-1	DA-1dup	01/09/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194362	DA-2	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200304	DA-2	01/09/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194363	DA-3	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200305	DA-3	01/09/18	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194364	DA-6	07/05/17	Radiological	Rn-222	0.2	0	0.2	pCi/L	UJ	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200306	DA-6	01/09/18	Radiological	Rn-222	0.5	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194365	DI-1	07/05/17	Radiological	Rn-222	1.3	0	0.2	pCi/L	J	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200307	DI-1	01/09/18	Radiological	Rn-222	0.8	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017
SLD194366	DI-2	07/05/17	Radiological	Rn-222	1.1	0	0.2	pCi/L	J	Y01	Environmental Alpha Tracks-Environmental Monitoring--1st Semi-Annual-2007
SLD200308	DI-2	01/09/18	Radiological	Rn-222	1.2	0	0.2	pCi/L	J	Y01	Environmental Monitoring (Alpha Tracks)-2nd Semiannual 2017

Futura - Futura Coatings Company

HISS - Hazelwood Interim Storage Site

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.

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**APPENDIX C**

**STORM-WATER, WASTE-WATER, AND EXCAVATION-WATER DATA**

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**Table C-1. First Quarter Self-Monitoring Report for Excavation-Water Discharge at the SLDS During CY 2017**

Parameter	Batch Number	Date of Discharge	Batch Results <sup>a</sup>		Amount Discharged (Gallons)	Total Activity per Discharge <sup>b</sup> (Ci)	MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK556	01/03/17 - 01/25/17 (Plant 6WH)	26	pCi/L	76,166	7.5E-06	3,000	pCi/L	0.02
Gross Beta			45.4	pCi/L		1.3E-05	N/A		
Th-228			<1.1	pCi/L		1.6E-07	2,000	pCi/L	
Th-230			3.0	pCi/L		8.6E-07	1,000	pCi/L	
Th-232			<0.8	pCi/L		1.2E-07	300	pCi/L	
Uranium (KPA)			37.7	pCi/L		1.1E-05	3,000	pCi/L	
Ra-226 <sup>c</sup>			2.0	pCi/L		5.8E-07	10	pCi/L	
Ra-228 <sup>d,e</sup>			<1.1	pCi/L		1.6E-07	30	pCi/L	
TSS			801.4	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK557	02/01/17 - 02/28/17 (Plant 6WH)	<16.1	pCi/L	41,598	1.3E-06	3,000	pCi/L	0.01
Gross Beta			<22.6	pCi/L		1.8E-06	N/A		
Th-228			<0.7	pCi/L		5.5E-08	2,000	pCi/L	
Th-230			5.9	pCi/L		9.3E-07	1,000	pCi/L	
Th-232			<0.4	pCi/L		3.5E-08	300	pCi/L	
Uranium (KPA)			14.4	pCi/L		2.3E-06	3,000	pCi/L	
Ra-226 <sup>c</sup>			<2.2	pCi/L		1.7E-07	10	pCi/L	
Ra-228 <sup>d,e</sup>			<0.7	pCi/L		5.4E-08	30	pCi/L	
TSS			123.1	mg/L		-	-		
Gross Alpha (raw water)	SLDS-BK558	03/01/17 - 03/30/17 (Plant 6WH)	<14.8	pCi/L	92,757	2.6E-06	3,000	pCi/L	0.01
Gross Beta			<22.3	pCi/L		3.9E-06	N/A		
Th-228			<0.6	pCi/L		1.1E-07	2,000	pCi/L	
Th-230			3.2	pCi/L		1.1E-06	1,000	pCi/L	
Th-232			<0.5	pCi/L		9.1E-08	300	pCi/L	
Uranium (KPA)			10.7	pCi/L		3.8E-06	3,000	pCi/L	
Ra-226 <sup>c</sup>			<1.1	pCi/L		1.9E-07	10	pCi/L	
Ra-228 <sup>d,e</sup>			<0.6	pCi/L		1.1E-07	30	pCi/L	
TSS			144.8	mg/L		-	-		

**Total Activity Discharged in First Quarter of CY 2017 (Ci)**

Th-228	3.3E-07
Th-230	2.9E-06
Th-232	2.4E-07
Uranium (KPA)	1.7E-05
Ra-226	9.4E-07
Ra-228 <sup>d</sup>	3.2E-07

**Total Activity Discharged through 03/31/17 (Ci)**

Th-228	3.3E-07
Th-230	2.9E-06
Th-232	2.4E-07
Uranium (KPA)	1.7E-05
Ra-226	9.4E-07
Ra-228 <sup>d</sup>	3.2E-07

**Total Volume Discharged in First Quarter of CY 2017 (gallons)**

Gallons	210,521
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**Total Volume Discharged through 03/31/17 (gallons)**

Gallons	210,521
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<sup>a</sup> Non-detect sample results are converted to half the DL.

<sup>b</sup> The weighted average was used to calculate the total activity.

<sup>c</sup> 10 CFR 20 limit is 600 pCi/L for Ra-226.

<sup>d</sup> Ra-228 assumed to be in equilibrium with Th-228.

<sup>e</sup> 10 CFR 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
- KPA - kinetic phosphorescence analysis
- N/A - 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 2017**

Parameter	Batch Number	Date of Discharge	Batch Results <sup>a</sup>		Amount Discharged (Gallons)	Total Activity per Discharge <sup>b</sup> (Ci)		MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK559	04/03/17 - 04/30/17 (Plant 6WH)	<14.6	pCi/L	258,815	7.2E-06	3,000	pCi/L	0.01	
Gross Beta			<21.7	pCi/L		1.1E-05	N/A			
Th-228			<0.6	pCi/L		2.7E-07	2,000	pCi/L		
Th-230			4.3	pCi/L		4.2E-06	1,000	pCi/L		
Th-232			<0.4	pCi/L		1.9E-07	300	pCi/L		
Uranium (KPA)			4.5	pCi/L		4.4E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.5	pCi/L		7.5E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.6	pCi/L		2.7E-07	30	pCi/L		
TSS			203.2	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK560	05/01/17 - 05/31/17 (Plant 6WH)	28.4	pCi/L	648,545	7.0E-05	3,000	pCi/L	0.02	
Gross Beta			<23.7	pCi/L		2.9E-05	N/A			
Th-228			<0.7	pCi/L		8.8E-07	2,000	pCi/L		
Th-230			1.5	pCi/L		3.8E-06	1,000	pCi/L		
Th-232			<0.6	pCi/L		7.1E-07	300	pCi/L		
Uranium (KPA)			32.4	pCi/L		8.0E-05	3,000	pCi/L		
Ra-226 <sup>c</sup>			<2.4	pCi/L		3.0E-06	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.7	pCi/L		8.8E-07	30	pCi/L		
TSS			74.4	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK561	06/05/17 - 06/29/17 (Plant 6WH)	36.6	pCi/L	346,858	4.8E-05	3,000	pCi/L	0.02	
Gross Beta			<22.4	pCi/L		1.5E-05	N/A			
Th-228			<1.1	pCi/L		7.2E-07	2,000	pCi/L		
Th-230			1.1	pCi/L		1.5E-06	1,000	pCi/L		
Th-232			<0.5	pCi/L		3.5E-07	300	pCi/L		
Uranium (KPA)			38.8	pCi/L		5.1E-05	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.3	pCi/L		8.5E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<1.1	pCi/L		7.2E-07	30	pCi/L		
TSS			133.6	mg/L		-	-			

**Total Activity Discharged in Second Quarter of CY 2017 (Ci)**

Th-228	1.9E-06
Th-230	9.5E-06
Th-232	1.3E-06
Uranium (KPA)	1.3E-04
Ra-226	4.6E-06
Ra-228 <sup>d</sup>	1.9E-06

**Total Activity Discharged through 06/30/17 (Ci)**

Th-228	2.2E-06
Th-230	1.2E-05
Th-232	1.5E-06
Uranium (KPA)	1.5E-04
Ra-226	5.5E-06
Ra-228 <sup>d</sup>	2.2E-06

**Total Volume Discharged in Second Quarter of CY 2017 (gallons)**

Gallons	1,254,218
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**Total Volume Discharged through 06/30/17 (gallons)**

Gallons	1,464,739
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<sup>a</sup> Non-detect sample results are converted to half the DL.

<sup>b</sup> The weighted average was used to calculate the total activity.

<sup>c</sup> 10 CFR 20 limit is 600 pCi/L for Ra-226.

<sup>d</sup> Ra-228 assumed to be in equilibrium with Th-228.

<sup>e</sup> 10 CFR 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
- KPA - kinetic phosphorescence analysis
- N/A - 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 2017**

Parameter	Batch Number	Date of Discharge	Batch Results <sup>a</sup>		Amount Discharged (Gallons)	Total Activity per Discharge <sup>b</sup> (Ci)		MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK562	07/03/17 - 07/27/17 (Plant 6WH)	60.7	pCi/L	171,417	3.9E-05	3,000	pCi/L	0.03	
Gross Beta			<23.6	pCi/L		7.7E-06	N/A			
Th-228			<0.9	pCi/L		3.0E-07	2,000	pCi/L		
Th-230			10.7	pCi/L		6.9E-06	1,000	pCi/L		
Th-232			<0.9	pCi/L		3.0E-07	300	pCi/L		
Uranium (KPA)			34.6	pCi/L		2.2E-05	3,000	pCi/L		
Ra-226 <sup>c</sup>			<2	pCi/L		6.6E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.9	pCi/L		3.0E-07	30	pCi/L		
TSS			66.9	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK563	08/03/17 - 08/24/17 (Plant 6WH)	<15.9	pCi/L	124,435	3.7E-06	3,000	pCi/L	0.01	
Gross Beta			28	pCi/L		1.3E-05	N/A			
Th-228			<0.6	pCi/L		1.5E-07	2,000	pCi/L		
Th-230			1.1	pCi/L		5.0E-07	1,000	pCi/L		
Th-232			<0.3	pCi/L		7.5E-08	300	pCi/L		
Uranium (KPA)			10.7	pCi/L		5.1E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.6	pCi/L		3.8E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.6	pCi/L		1.5E-07	30	pCi/L		
TSS			70.3	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK564	09/06/17 - 09/21/17 (Plant 6WH)	20.4	pCi/L	102,115	7.9E-06	3,000	pCi/L	0.01	
Gross Beta			<25.3	pCi/L		4.9E-06	N/A			
Th-228			<0.6	pCi/L		1.2E-07	2,000	pCi/L		
Th-230			0.9	pCi/L		3.5E-07	1,000	pCi/L		
Th-232			<0.4	pCi/L		8.1E-08	300	pCi/L		
Uranium (KPA)			14.7	pCi/L		5.7E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.8	pCi/L		3.5E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.6	pCi/L		1.2E-07	30	pCi/L		
TSS			331.8	mg/L		-	-			

**Total Activity Discharged in Third Quarter of CY 2017 (Ci)**

Th-228	5.7E-07
Th-230	7.8E-06
Th-232	4.6E-07
Uranium (KPA)	3.3E-05
Ra-226	1.4E-06
Ra-228 <sup>d</sup>	5.7E-07

**Total Activity Discharged through 09/30/17 (Ci)**

Th-228	2.8E-06
Th-230	2.0E-05
Th-232	1.9E-06
Uranium (KPA)	1.8E-04
Ra-226	6.9E-06
Ra-228 <sup>d</sup>	2.8E-06

**Total Volume Discharged in Third Quarter of CY 2017 (gallons)**

Gallons	397,967
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**Total Volume Discharged through 09/30/17 (gallons)**

Gallons	1,862,706
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<sup>a</sup> Non-detect sample results are converted to half the DL.

<sup>b</sup> The weighted average was used to calculate the total activity.

<sup>c</sup> 10 CFR 20 limit is 600 pCi/L for Ra-226.

<sup>d</sup> Ra-228 assumed to be in equilibrium with Th-228.

<sup>e</sup> 10 CFR 20 limit is 600 pCi/L for Ra-228.

Notes:

- No data/No limit
- KPA - kinetic phosphorescence analysis
- N/A - 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 2017**

Parameter	Batch Number	Date of Discharge	Batch Results <sup>a</sup>		Amount Discharged (Gallons)	Total Activity per Discharge <sup>b</sup> (Ci)		MSD Discharge Limit		SOR
Gross Alpha (raw water)	SLDS-BK565	10/10/17 - 10/24/17 (Plant 6WH)	23.6	pCi/L	76,720	6.9E-06	3,000	pCi/L	0.01	
Gross Beta			<25.1	pCi/L		3.6E-06	N/A			
Th-228			<0.8	pCi/L		1.2E-07	2,000	pCi/L		
Th-230			<0.7	pCi/L		1.0E-07	1,000	pCi/L		
Th-232			<0.6	pCi/L		8.9E-08	300	pCi/L		
Uranium (KPA)			19.7	pCi/L		5.7E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.5	pCi/L		2.3E-07	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.8	pCi/L		1.2E-07	30	pCi/L		
TSS			28.7	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK566	11/08/17 - 11/16/17 (Plant 6WH)	19.4	pCi/L	12,280	9.0E-07	3,000	pCi/L	0.01	
Gross Beta			21.5	pCi/L		1.0E-06	N/A			
Th-228			<0.4	pCi/L		8.7E-09	2,000	pCi/L		
Th-230			<0.5	pCi/L		1.1E-08	1,000	pCi/L		
Th-232			<0.4	pCi/L		8.7E-09	300	pCi/L		
Uranium (KPA)			25.3	pCi/L		1.2E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.5	pCi/L		3.6E-08	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.4	pCi/L		8.7E-09	30	pCi/L		
TSS			46.3	mg/L		-	-			
Gross Alpha (raw water)	SLDS-BK567	12/26/17 (Plant 6WH)	47.2	pCi/L	10,440	1.9E-06	3,000	pCi/L	0.01	
Gross Beta			42.1	pCi/L		1.7E-06	N/A			
Th-228			<0.6	pCi/L		1.2E-08	2,000	pCi/L		
Th-230			<0.7	pCi/L		1.4E-08	1,000	pCi/L		
Th-232			<0.2	pCi/L		4.0E-09	300	pCi/L		
Uranium (KPA)			37.2	pCi/L		1.5E-06	3,000	pCi/L		
Ra-226 <sup>c</sup>			<1.2	pCi/L		2.4E-08	10	pCi/L		
Ra-228 <sup>d,e</sup>			<0.6	pCi/L		1.2E-08	30	pCi/L		
TSS			29.0	mg/L		-	-			

**Total Activity Discharged in Fourth Quarter of CY 2017 (Ci)**

<b>Th-228</b>	1.4E-07
<b>Th-230</b>	1.3E-07
<b>Th-232</b>	1.0E-07
<b>Uranium (KPA)</b>	8.4E-06
<b>Ra-226</b>	2.9E-07
<b>Ra-228<sup>d</sup></b>	1.4E-07

**Total Activity Discharged through 12/31/17 (Ci)**

<b>Th-228</b>	2.9E-06
<b>Th-230</b>	2.0E-05
<b>Th-232</b>	2.1E-06
<b>Uranium (KPA)</b>	1.9E-04
<b>Ra-226</b>	7.2E-06
<b>Ra-228<sup>d</sup></b>	2.9E-06

**Total Volume Discharged in Fourth Quarter of CY 2017 (gallons)**

<b>Gallons</b>	99,440
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**Total Volume Discharged through 12/31/17 (gallons)**

<b>Gallons</b>	1,962,146
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<sup>a</sup> Non-detect sample results are converted to half the DL.

<sup>b</sup> The weighted average was used to calculate the total activity.

<sup>c</sup> 10 CFR 20 limit is 600 pCi/L for Ra-226.

<sup>d</sup> Ra-228 assumed to be in equilibrium with Th-228.

<sup>e</sup> 10 CFR 20 limit is 600 pCi/L for Ra-228.

Notes:

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

**APPENDIX D**

**GROUND-WATER FIELD PARAMETER DATA FOR CALENDAR YEAR 2017  
AND ANALYTICAL DATA RESULTS FOR CALENDAR YEAR 2017**

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

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**Table D-1. Ground-Water Monitoring First Quarter 2017- 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) 02/15/17
B16W06D	---	---	---	---	---	---	---	---	---	---	32.79
B16W06S	---	---	---	---	---	---	---	---	---	---	33.05
B16W07D	02/15/17	270	2430	7.03	0.235	18.8	4.94	16.3	-109	35.03	35.03
B16W08D	---	---	---	---	---	---	---	---	---	---	35.28
B16W08S	---	---	---	---	---	---	---	---	---	---	29.02
B16W09D	---	---	---	---	---	---	---	---	---	---	30.69
B16W12S	---	---	---	---	---	---	---	---	---	---	18.4
DW14	---	---	---	---	---	---	---	---	---	---	25.1
DW15	---	---	---	---	---	---	---	---	---	---	36.31
DW16	---	---	---	---	---	---	---	---	---	---	31.93
DW17	---	---	---	---	---	---	---	---	---	---	30.66
DW18	---	---	---	---	---	---	---	---	---	---	36.55
DW19	---	---	---	---	---	---	---	---	---	---	*
DW21	02/15/17	50	750	7.02	0.253	2.8	0.4	13.8	-116	11.94	11.72

**Table D-1. Ground-Water Monitoring Second Quarter 2017 - Field Parameters for the SLDS**

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity ( $\mu$ S/cm)	Turbidity (NTU)	DO (mg/L)	Temp ( $^{\circ}$ C)	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 05/24/17
B16W06D	05/24/17	200	3,000	6.98	0.279	10	0	16.1	-132	10.48	10.48
B16W06S	---	---	---	---	---	---	---	---	---	---	14.43
B16W07D	---	---	---	---	---	---	---	---	---	---	12.71
B16W08D	---	---	---	---	---	---	---	---	---	---	12.39
B16W08S	05/24/17	70	1,050	6.76	0.149	4.3	0.17	15.6	189	12.37	11.94
B16W09D	---	---	---	---	---	---	---	---	---	---	8.84
B16W12S	---	---	---	---	---	---	---	---	---	---	12.24
DW14	05/24/17	150	2,250	6.98	0.509	116	0	19.7	-140	6.06	5.16
DW15	05/24/17	245	2,500	7.11	0.268	14	4.58	18.5	70	14.38	14.38
DW16	05/24/17	290	4,350	6.9	0.147	98.3	0	16.8	-19	9.71	9.71
DW17	---	---	---	---	---	---	---	---	---	---	8.23
DW18	05/24/17	300	3,600	7.14	0.168	189	0	16.1	-144	14.48	14.48
DW19	---	---	---	---	---	---	---	---	---	---	*
DW21	---	---	---	---	---	---	---	---	---	---	7.79

**Table D-1. Ground-Water Monitoring Third Quarter 2017 - Field Parameters for the SLDS**

Station ID	Date Sampled	Purge Rate (mL/minute)	Volume Removed (mL)	pH	Conductivity ( $\mu\text{S/cm}$ )	Turbidity (NTU)	DO (mg/L)	Temp ( $^{\circ}\text{C}$ )	ORP (mV)	Depth to Water (ft) at Sampling Time	Depth to Water (ft) (BTOC) 08/16/17
B16W06D	---	---	---	---	---	---	---	---	---	---	32.8
B16W06S	---	---	---	---	---	---	---	---	---	---	32.17
B16W07D	---	---	---	---	---	---	---	---	---	---	34.8
B16W08D	---	---	---	---	---	---	---	---	---	---	35.16
B16W08S	---	---	---	---	---	---	---	---	---	---	28.98
B16W09D	---	---	---	---	---	---	---	---	---	---	30.28
B16W12S	08/16/17	85	2,000	7.58	0.28	96.1	6.82	20	89	35.9	16.05
DW14	---	---	---	---	---	---	---	---	---	---	**
DW15	---	---	---	---	---	---	---	---	---	---	35.9
DW16	---	---	---	---	---	---	---	---	---	---	31.55
DW17	---	---	---	---	---	---	---	---	---	---	30.48
DW18	---	---	---	---	---	---	---	---	---	---	36.39
DW19	---	---	---	---	---	---	---	---	---	---	*
DW21	08/16/17	50	750	6.85	0.27	18.4	4.53	19.6	-141	10.35	9.92

**Table D-1. Ground-Water Monitoring Fourth Quarter 2017 - 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) 11/15/17
B16W06D	---	---	---	---	---	---	---	---	---	---	34.61
B16W06S	11/15/17	100	1,500	6.93	0.143	46.3	6.35	15.6	-125	35.01	34.46
B16W07D	---	---	---	---	---	---	---	---	---	---	36.49
B16W08D	---	---	---	---	---	---	---	---	---	---	36.96
B16W08S	---	---	---	---	---	---	---	---	---	---	30.3
B16W09D	11/16/17	300	3,600	6.86	0.314	43.7	4.42	17.9	-132	32.62	31.94
B16W12S	---	---	---	---	---	---	---	---	---	---	17.72
DW14	---	---	---	---	---	---	---	---	---	---	26.21
DW15	11/16/17	245	17,034	6.75	0.486	225	6.65	15	12	38.23	37.54
DW16	11/15/17	300	3,600	6.95	0.146	61.4	5.66	16.8	45	33.32	33.22
DW17	---	---	---	---	---	---	---	---	---	---	32.16
DW18	11/16/17	300	5,400	6.91	0.166	24	5.54	15.5	-130	38.52	38.12
DW19	---	---	---	---	---	---	---	---	---	---	*
DW21	---	---	---	---	---	---	---	---	---	---	11.35

\* Measurement could not be taken at DW19. It was damaged during remediation activities at Plant 6 and was decommissioned on August 3, 2016.

\*\* Measurement could not be taken at DW14 during 3Q2017 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 2017 Ground-Water Sampling Data for the SLDS**

<b>Site: SLDS</b>											
<b>Sample Name</b>	<b>Station Name</b>	<b>Sample Collect Date</b>	<b>Analytical Method</b>	<b>Analyte</b>	<b>Analytical Result</b>	<b>Measurement Error</b>	<b>DL</b>	<b>Units</b>	<b>VQ</b>	<b>Validation Reason Code</b>	<b>Filtered</b>
SLD196679	B16W06D	05/24/17	SW846 6020	Arsenic	4		4	ug/L	U		No
SLD196679	B16W06D	05/24/17	SW846 6020	Cadmium	0.2		0.2	ug/L	U		No
SLD196679	B16W06D	05/24/17	ML-006	Ra-226	0.635	0.748	1.09	pCi/L	UJ	T06	No
SLD196679	B16W06D	05/24/17	ML-005	Th-228	0.265	0.352	0.614	pCi/L	UJ	T06	No
SLD196679	B16W06D	05/24/17	ML-005	Th-230	0.265	0.268	0.18	pCi/L	UJ	T02	No
SLD196679	B16W06D	05/24/17	ML-005	Th-232	0.231	0.275	0.397	pCi/L	UJ	T06	No
SLD196679	B16W06D	05/24/17	ML-015	U-234	0.253	0.297	0.229	pCi/L	UJ	T02	No
SLD196679	B16W06D	05/24/17	ML-015	U-235	0.0521	0.233	0.625	pCi/L	UJ	T06	No
SLD196679	B16W06D	05/24/17	ML-015	U-238	-0.0841	0.12	0.619	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	SW846 6020	Arsenic	160		4	ug/L	=		No
SLD199815	B16W06S	11/15/17	SW846 6020	Cadmium	0.2		0.2	ug/L	U		No
SLD199815	B16W06S	11/15/17	ML-006	Ra-226	0.44	0.634	1.05	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	ML-005	Th-228	-5.844E-06	0.155	0.464	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	ML-005	Th-230	0	0.346	0.379	pCi/L	J	F01, T04, T20	No
SLD199815	B16W06S	11/15/17	ML-005	Th-232	0	0.127	0.171	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	ML-015	U-234	0.0625	0.125	0.169	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	ML-015	U-235	-0.0514	0.103	0.501	pCi/L	UJ	T06	No
SLD199815	B16W06S	11/15/17	ML-015	U-238	-0.0415	0.0832	0.405	pCi/L	UJ	T06	No
SLD195317	B16W07D	02/15/17	SW846 6020	Arsenic	40		20	ug/L	=		No
SLD195317	B16W07D	02/15/17	SW846 6020	Cadmium	6.6		1	ug/L	=		No
SLD195317	B16W07D	02/15/17	ML-006	Ra-226	0.91	0.832	1.12	pCi/L	UJ	T04, T05	No
SLD195317	B16W07D	02/15/17	ML-005	Th-228	0.162	0.235	0.388	pCi/L	UJ	T06	No
SLD195317	B16W07D	02/15/17	ML-005	Th-230	0.389	0.393	0.601	pCi/L	UJ	T06	No
SLD195317	B16W07D	02/15/17	ML-005	Th-232	0.0646	0.13	0.175	pCi/L	UJ	T06	No
SLD195317	B16W07D	02/15/17	ML-015	U-234	2.37	0.893	0.39	pCi/L	=		No
SLD195317	B16W07D	02/15/17	ML-015	U-235	0.16	0.229	0.217	pCi/L	UJ	T06	No
SLD195317	B16W07D	02/15/17	ML-015	U-238	1.26	0.622	0.388	pCi/L	=		No
SLD196680	B16W08S	05/24/17	SW846 6020	Arsenic	4		4	ug/L	U		No
SLD196680	B16W08S	05/24/17	SW846 6020	Cadmium	0.38		0.2	ug/L	=		No
SLD196680	B16W08S	05/24/17	ML-006	Ra-226	0.379	0.71	1.4	pCi/L	UJ	T06	No

**Table D-2. CY 2017 Ground-Water Sampling Data for the SLDS**

<b>Site: SLDS</b>											
<b>Sample Name</b>	<b>Station Name</b>	<b>Sample Collect Date</b>	<b>Analytical Method</b>	<b>Analyte</b>	<b>Analytical Result</b>	<b>Measurement Error</b>	<b>DL</b>	<b>Units</b>	<b>VQ</b>	<b>Validation Reason Code</b>	<b>Filtered</b>
SLD196680	B16W08S	05/24/17	ML-005	Th-228	0.126	0.236	0.463	pCi/L	UJ	T06	No
SLD196680	B16W08S	05/24/17	ML-005	Th-230	0.504	0.396	0.464	pCi/L	J	F01, T04, T20	No
SLD196680	B16W08S	05/24/17	ML-005	Th-232	0.0944	0.189	0.377	pCi/L	UJ	T06	No
SLD196680	B16W08S	05/24/17	ML-015	U-234	3.71	1.48	0.627	pCi/L	=		No
SLD196680	B16W08S	05/24/17	ML-015	U-235	0	0	0.35	pCi/L	U		No
SLD196680	B16W08S	05/24/17	ML-015	U-238	3.54	1.42	0.282	pCi/L	=		No
SLD199818	B16W09D	11/16/17	SW846 6020	Arsenic	16		4	ug/L	=		No
SLD199818	B16W09D	11/16/17	SW846 6020	Cadmium	0.46		0.2	ug/L	=		No
SLD196681	DW14	05/24/17	SW846 6020	Arsenic	110		4	ug/L	=		No
SLD196681	DW14	05/24/17	SW846 6020	Cadmium	3.4		0.2	ug/L	=		No
SLD196682	DW15	05/24/17	SW846 6020	Arsenic	5.9		4	ug/L	=		No
SLD196682	DW15	05/24/17	SW846 6020	Cadmium	34		0.2	ug/L	=		No
SLD198074	DW15	08/16/17	SW846 6020	Arsenic	25		4	ug/L	=		No
SLD198074	DW15	08/16/17	SW846 6020	Cadmium	14		0.2	ug/L	=		No
SLD199816	DW15	11/16/17	SW846 6020	Arsenic	53		4	ug/L	=		No
SLD199816	DW15	11/16/17	SW846 6020	Cadmium	3.7		0.2	ug/L	=		No
SLD196683	DW16	05/24/17	SW846 6020	Arsenic	20		4	ug/L	=		No
SLD196683	DW16	05/24/17	SW846 6020	Cadmium	0.44		0.2	ug/L	=		No
SLD196683	DW16	05/24/17	ML-006	Ra-226	0.274	0.513	1.01	pCi/L	UJ	T06	No
SLD196683	DW16	05/24/17	ML-005	Th-228	0.545	0.372	0.164	pCi/L	J	F01, T04, T20	No
SLD196683	DW16	05/24/17	ML-005	Th-230	0.424	0.327	0.164	pCi/L	J	F01, T04, T20	No
SLD196683	DW16	05/24/17	ML-005	Th-232	-0.0302	0.0607	0.363	pCi/L	UJ	T06	No
SLD196683	DW16	05/24/17	ML-015	U-234	1.08	0.616	0.448	pCi/L	J	F01, T04, T20	No
SLD196683	DW16	05/24/17	ML-015	U-235	0	0	0.25	pCi/L	U		No
SLD196683	DW16	05/24/17	ML-015	U-238	0.818	0.516	0.202	pCi/L	J	F01, T04, T20	No
SLD199817	DW16	11/15/17	SW846 6020	Arsenic	15		4	ug/L	=		No
SLD199817	DW16	11/15/17	SW846 6020	Cadmium	1.2		0.2	ug/L	=		No
SLD196684	DW18	05/24/17	SW846 6020	Arsenic	71		4	ug/L	=		No
SLD196684	DW18	05/24/17	SW846 6020	Cadmium	0.44		0.2	ug/L	=		No
SLD199814	DW18	11/16/17	SW846 6020	Arsenic	91		4	ug/L	=		No

**Table D-2. CY 2017 Ground-Water Sampling Data for the SLDS**

<b>Site: SLDS</b>											
<b>Sample Name</b>	<b>Station Name</b>	<b>Sample Collect Date</b>	<b>Analytical Method</b>	<b>Analyte</b>	<b>Analytical Result</b>	<b>Measurement Error</b>	<b>DL</b>	<b>Units</b>	<b>VQ</b>	<b>Validation Reason Code</b>	<b>Filtered</b>
SLD199814	DW18	11/16/17	SW846 6020	Cadmium	0.45		0.2	ug/L	=		No
SLD195318	DW21	02/15/17	SW846 6020	Arsenic	140		20	ug/L	=		No
SLD195318	DW21	02/15/17	SW846 6020	Cadmium	1		1	ug/L	=		No
SLD198075	DW21	08/16/17	SW846 6020	Arsenic	120		4	ug/L	=		No
SLD198075	DW21	08/16/17	SW846 6020	Cadmium	3.8		0.2	ug/L	=		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.
- T02 Radionuclide Quantitation: Analytical uncertainties were not met and/or not reported.
- 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 2017**

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## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/16 Time: 0940

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 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.

Paint lid & Re-label

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0950

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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0955

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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0930

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.

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Scrap casing and paint casing. Re-label and lubricate.

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0935

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.

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Scrape casing and paint. Re-label and lubricate lock.

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 1005

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 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 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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0945

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 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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 1010

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 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 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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0945

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 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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 1040

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 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.

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Paint lid & re-label

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Pad loose and unstable, replace

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0950

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.

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Retrofit to stick up well and redevelop well before taking samples

Sediment appears to be infiltrating the well

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 0955

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

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

## Well Maintenance Checklist

Name of Observer(s): L. Hoover, N. Gross Date: 03/09/17 Time: 1050

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 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.

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Paint lid. Re-label.

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\* - SLAPS and SLAPS Vicinity Properties (VPs)

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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 external gamma and radon monitoring location and 160 m from the SLDS loadout area.

#### Airborne Radioactive Particulates

An EDE of less than 0.1 mrem per year to the receptor was calculated by using activity fractions to determine a source term, and then combining the dose results for Destrehan Street, Plant 1, 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 2018). Figure A-1 of Appendix A presents the distances and directions of the maximally exposed receptor from the excavated areas. 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 = 50 m
- $h_1$  = distance from the source to the TLDs = 1.6 m
- $L$  = average distance from centerline of the line source ( $H_1$ ) to the end of the line source = 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 0.0 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 3,180 m<sup>2</sup> 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:

$$C_2 = 0.00676/0.0473 = 0.14$$

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

$$S_1 = \left[ \frac{(0) \text{ pCi/L}}{1} \right] = 0.0 \text{ pCi/L}$$

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

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

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

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 of 0.05 WL per 100 pCi/L (DOE 1998)
- 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**

$$\text{TEDE} = \text{CEDE (airborne particulates)} + \text{H}_{\text{MEI}} \text{ (external gamma)} + \text{S}_{\text{MEI}} \text{ (airborne radon)}$$

$$\text{TEDE} = <0.1 \text{ mrem/year} + 0.0 \text{ mrem/year} + 0.0 \text{ mrem/year} = <0.1 \text{ mrem/year}$$

where:

CEDE = committed effective dose equivalent

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