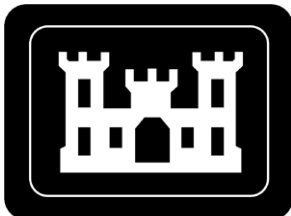

REVISION 0

**NORTH ST. LOUIS COUNTY SITES
ANNUAL ENVIRONMENTAL
MONITORING DATA AND ANALYSIS
REPORT FOR CALENDAR YEAR 2010**

ST. LOUIS, MISSOURI

JULY 8, 2011



**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:

Science Applications International Corporation
under Contract No. W912P9-06-D-0534, Task Order 0006

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- Appendix A North St. Louis County FUSRAP Sites 2010 Radionuclide Emissions NESHAP Report Submitted in Accordance with Requirements of 40 *CFR* 61, Subpart I
- Appendix B Environmental TLD, Alpha Track and Perimeter Air Data
- Appendix C Storm-Water, Waste-Water and Excavation-Water Data
- Appendix D Coldwater Creek Surface-Water and Sediment Data
- Appendix E Ground-Water Field Parameter Data for CY 2010, Analytical Data Results for CY 2010
- Appendix F Calculation of the ROD Ground-Water Evaluation Criteria
- Appendix G Dose Assessment Assumptions

LIST OF ACRONYMS AND ABBREVIATIONS

μCi/mL	microcurie per milliliter
μg/L	microgram per liter
μS/cm	micro-Semens per centimeter
Ac	actinium
AEC	Atomic Energy Commission
amsl	above mean sea level
ARAR	applicable or relevant and appropriate requirement
ATD	alpha track detector
BOD	biological oxygen demands
BTOC	below top of casing
°C	degrees Celsius (centigrade)
CEDE	committed effective dose equivalent
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
<i>CFR</i>	<i>Code of Federal Regulations</i>
Ci	curies
COC	contaminant of concern
COD	chemical oxygen demand
<i>CSR</i>	<i>Code of State Regulations</i>
CY	calendar year
DCF	dose conversion factor
DL	detection limit
DO	dissolved oxygen
DOD	U.S. Department of Defense
DOE	U.S. Department of Energy
DQO	data quality objective
EDE	effective dose equivalent
EE/CA	engineering evaluation/cost analysis
EMDAR	Environmental Monitoring Data and Analysis Report
EMG	Environmental Monitoring Guide
EMICY	Environmental Monitoring Implementation for Calendar Year
EMICY10	<i>Environmental Monitoring Implementation Plan for the North St. Louis County Sites for CY 2010</i>
EMP	Environmental Monitoring Program
ft	foot/feet
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
HISS	Hazelwood Interim Storage Site
HZ	hydrostratigraphic zone
ICP	inductively coupled plasma
KPA	kinetic phosphorescence analysis
LCL ₉₅	95 percent lower confidence limit
MARSSIM	<i>Multi-Agency Radiation Survey and Site Investigation Manual</i>
MDC	minimum detectable concentration
MDL	method detection limit
MDNR	Missouri Department of Natural Resources
mg/kg	milligrams per kilogram

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

mg/L	milligrams per liter
MGD	million gallons per day
mSv/yr	milliseivert per year
mL	milliliter
mL/L/hr	milliliter per liter per hour
mL/min	milliliter per minute
mrem	millirem
mrem/pCi	millirem per picocurie
mrem/qtr	millirem per quarter
mrem/yr	millirem per year
MSD	Metropolitan St. Louis Sewer District
NAD	normalized absolute difference
NC	North St. Louis County
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
Pa	protactinium
pCi/g	picocurie per gram
pCi/L	picocurie per liter
QA	quality assurance
QAPP	Quality Assurance Program Plan
QC	quality control
RA	remedial action
Ra	radium
RG	remediation goal
Rn	radon
ROD	<i>Record of Decision for the North St. Louis County Sites</i>
ROW	right of way
RPD	relative percent difference
S	test statistic
SAG	<i>Sampling and Analysis Guide for the St. Louis Sites</i>
SAIC	Science Application International Corporation
SLAPS	St. Louis Airport Site
SOP	standard operating procedure
SOR	sum of ratios
SS	settleable solid
SU	survey unit
TEDE	total effective dose equivalent
Th	thorium
TLD	thermoluminescent dosimeter
TPH	total petroleum hydrocarbon
TRPH	total recoverable petroleum hydrocarbon
TSS	total suspended solid(s)
U	uranium
UCL	upper confidence limit

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

UCL ₉₅	95 percent upper confidence limit
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VP	vicinity property
WL	working level

EXECUTIVE SUMMARY

This Annual Environmental Monitoring Data and Analysis Report for calendar year (CY) 2010 applies to the North St. Louis County (NC) Sites within the Formerly Utilized Sites Remedial Action Program (FUSRAP). This Environmental Monitoring Data and Analysis Report provides an evaluation of the data collected as part of the implementation of the Environmental Monitoring Program for the NC Sites within the FUSRAP. Environmental monitoring of various media at the Latty Avenue Properties (Futura Coatings Company, Hazelwood Interim Storage Site [HISS], and other Vicinity Properties [VPs]), the St. Louis Airport Site (SLAPS) and SLAPS VPs is required under the *Comprehensive Environmental Response, Compensation, and Liability Act* and a commitment outlined in the St. Louis FUSRAP Federal Facility Agreement.

The purpose of this report is:

- 1) to document the environmental monitoring activities, and
- 2) to assess whether the remedial actions had a measurable environmental impact by:
 - a) summarizing the data collection effort for CY 2010,
 - b) reporting the current condition of the NC Sites, and
 - c) providing an analysis of the environmental monitoring data to date.

The U.S. Army Corps of Engineers, 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 remedial actions, serves as a critical component in the evaluation of the current status of residual contaminants and assessment of the potential future migration of residual contaminants.

All environmental monitoring required through implementation of the *Environmental Monitoring Implementation for the North St. Louis County Sites for CY 2010* (EMICY10) (USACE 2010) was conducted as planned during CY 2010. The evaluation of environmental monitoring data for all NC Sites demonstrates compliance with *Record of Decision for the North St. Louis County Sites* (ROD) goals and applicable or relevant and appropriate requirements (ARARs).

RADIOLOGICAL AIR MONITORING

Radiological air data was collected and evaluated at the NC Sites through airborne radioactive particulate, radon (indoor and outdoor), and gamma radiation monitoring as required in the EMICY10 (USACE 2010). In addition to environmental monitoring purposes, radiological air data was also used as inputs to calculate total effective dose equivalent (TEDE) to the reasonably maximally exposed member of the public for the NC Sites.

The TEDE calculated for the reasonably maximally exposed individual at the Latty Avenue Properties and the SLAPS and SLAPS VPs was 3.1 millirem per year (mrem/yr) and less than 0.1 mrem/yr, respectively (0.031 milliseivert per year [mSv/yr] and less than 0.001 mSv/yr). These calculated TEDEs are compliant with the 100 mrem/yr (1 Sievert per year) limit provided in 10 *Code of Federal Regulations* 20.1301.

The radiological air monitoring results conducted at the NC Sites demonstrated compliance with all of the ARARs for the NC Sites as described in Tables 2-1 through 2-4 of the EMICY10 (USACE 2010).

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM MONITORING

Discharge requirements for the NC Sites are currently set by the Missouri Department of Natural Resources (MDNR) National Pollutant Discharge Elimination System ARARs (permit-equivalent) document dated October 2, 1998 (MDNR 1998), and amended in a letter from the MDNR dated February 19, 2002 (MDNR 2002).

The storm-water sampling results for the NC Sites demonstrate compliance with the discharge limits described in Section 2.2.2 of the EMICY10 (USACE 2010).

EXCAVATION-WATER DISCHARGE MONITORING AT THE NORTH ST. LOUIS COUNTY SITES

CY 2010 was the ninth year that excavation water was treated and discharged from the NC Sites. Excavation water from the NC Sites discharged to the sanitary sewer system is subject to the requirements stated in the July 23, 2001, SLAPS Metropolitan St. Louis Sewer District (MSD) authorization letter (MSD 2001) and the selenium discharge variance letter for SLAPS dated February 10, 2005 (MSD 2005). This authorization was extended for two years through the issuance of a letter dated May 10, 2010, from Mr. Steve Grace to Ms. Sharon Cotner. This authorization expires on July 23, 2012 (MSD 2010a). The selenium discharge variance for the SLAPS was utilized in the third and fourth quarter of CY 2010 (MSD 2005 and 2010a). The selenium variance was utilized for Batches 221, 222, 246, and 255.

HISS laboratory waste water is discharged in accordance with the MSD discharge authorization letter dated February 1, 2010 (MSD 2010b). The special discharge authorization was extended to February 7, 2012. The data collected at each site were compared to discharge limits described in Section 2.2.2 of the EMICY10 (USACE 2010). During CY 2010, no exceedances of the discharge limits occurred at the HISS laboratory or the NC Sites.

COLDWATER CREEK MONITORING

The CY 2010 Coldwater Creek surface-water and sediment sampling events completed in March and October of 2010 evaluated the physical, radiological, and chemical conditions in the creek. Samples were collected at each of the six surface-water and sediment sampling locations (C002 through C007). The data collected were compared to the monitoring guidelines and/or remediation goals as described in Section 2.2.3 of the EMICY10 (USACE 2010).

The results of the surface water and sediment sampling conducted in Coldwater Creek demonstrated compliance with ARARs for the NC Sites.

GROUND-WATER MONITORING

Ground water was sampled during CY 2010 at the NC Sites. Ground water was sampled following a protocol for individual wells and analytes and was analyzed for various radiological constituents, organic compounds, and inorganic parameters. Static ground-water elevations for all NC Site wells were measured quarterly.

The environmental sampling requirements and ground-water monitoring guidelines for each analyte are consistent with the EMICY10 (USACE 2010) and were used for comparison and discussion purposes. The ROD ground-water monitoring guidelines (i.e., ROD guidelines) for

assessing ground-water sampling data at the NC Sites (Latty Avenue Properties and the SLAPS and SLAPS VPs) are presented in Section 2.2.4 of the EMICY10 (USACE 2010) and in Section 4.0 and Appendix F of this report. For those stations where an analyte exceeded the ROD guidelines at least once during CY 2010 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.

LATTY AVENUE PROPERTIES

Ground-water sampling was conducted at nine Hydrostratigraphic Zone A (HZ-A) ground-water monitoring wells at the Latty Avenue Properties during CY 2010. The data indicate localized impacts to the HZ-A ground water from site-related constituents. Arsenic, molybdenum, nickel, and vanadium were the inorganic contaminants of concern (COCs) detected at concentrations above the ROD guidelines (Table 4-2) for the shallow ground water (HZ-A). Three radiological COCs (uranium [U]-234, U-238, and total U) exceeded the ROD guidelines during CY 2010. One of the inorganic soil COCs, arsenic in HW22, has been above the ROD guideline for more than a period of 12 months. In addition, the three radiological COCs (U-234, U-238, and total U) have been above the ROD guidelines for more than a 12-month period in HZ-A ground water at HISS-01, based on historical data. Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water.

Ground-water samples were collected from one deep HZ-C well (HW23) during CY 2010. Concentrations of all inorganic soil COCs were below the ROD ground-water criteria in CY 2010. Concentrations of U-234 were above their ROD ground-water criteria in CY 2010 in ground-water samples from HW23. However, the U-234 only slightly exceeds its ROD guideline, and the total U concentration is not above the monitoring guideline of 30 micrograms per liter. In addition, a significant degrading of Coldwater Creek surface water has not occurred. Therefore, there is currently no finding of significantly degraded ground-water conditions in HZ-C ground water. An evaluation of potential response actions is not required.

The Mann-Kendall test was performed for analytes in two HZ-A wells (total U in HISS-01 and nickel in HISS-18S) during CY 2010. Because the frequency of non-detected results exceeds 50 percent for arsenic (HW22), molybdenum (HISS-10, HW21, and HW22), nickel (HW22), and vanadium (HW22), a trend analysis was not conducted for these analytes. An upward trend in nickel concentrations was observed for the trend analysis performed for HISS-18S. A statistically significant increasing trend in total U concentrations was identified for HISS-01. No trend analysis was performed for HZ-C ground water because the frequency of non-detected results exceeds 50 percent for the ground-water criteria in the HZ-C wells during CY 2010.

The potentiometric surface of the HZ-A ground water indicates some mounding is occurring near the center of HISS. At the western edge of the site, ground water in HZ-A flows to the west, toward CWC. The local gradient for HZ-A ground water at the Latty Avenue Properties averages 0.018 foot (ft)/ft.

The potentiometric surface of the HZ-C ground water at the Latty Avenue Properties is not well defined due to the limited data available for the deeper HZs. Based on measured ground-water elevations in two HZ-C monitoring wells at the Latty Avenue Properties (HISS-05D and HW23) and several HZ-C wells located to the southwest at the SLAPS and SLAPS VPs, the flow direction in the HZ-C ground water is generally toward the east or northeast. The local horizontal

gradient for HZ-C ranged from 0.0031 ft/ft (May) to 0.0036 ft/ft (December) in CY 2010. This is an increase in the gradient from previous years, which typically averaged 0.0018 ft/ft.

ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

At the SLAPS and SLAPS VPs, 12 ground-water wells were sampled for various parameters during CY 2010. Nine wells, screened in HZ-A, were sampled at the SLAPS and the adjacent ballfields. Three inorganic analytes (chromium, molybdenum, and nickel) and one radiological contaminant (total U) were detected in HZ-A ground water at concentrations above the ROD guidelines. A comparison of the data indicates that the nickel concentrations in B53W13S and the total U concentrations in PW46 have been above the ROD guideline for a period of at least 12 months. Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water at the SLAPS and SLAPS VPs in CY 2010. However, because nickel and total U levels have been above the ROD ground-water monitoring guidelines for a period of at least 12 months, monitoring will continue subject to subsequent five-year reviews.

During CY 2010, three wells screened across the deeper HZs (HZ-C through HZ-E) were sampled at the SLAPS and SLAPS VPs. Comparison of the data to the ROD ground-water guidelines indicates that concentrations of two contaminants (cadmium at PW35 and chromium at B53W01D) were above the ROD ground-water monitoring guidelines in HZ-C through HZ-E ground water. However, cadmium does not exceed its ROD guideline in HZ-E well PW35 if the associated measurement error is taken into account. Additionally, the chromium concentration in B53W01D was below the ROD ground-water guideline in the previous sampling event. Therefore, chromium concentrations at B53W01D did not exceed the ROD guideline for a period of at least 12 months. Because no soil COCs have statistically increased in ground water (relative to the well's historic data and accounting for uncertainty) for more than a 12-month period, there is currently no finding of significantly degraded ground-water conditions in HZ-C through HZ-E ground water at the SLAPS and SLAPS VPs.

The Mann-Kendall test was performed for chromium (B53W06S and B53W13S), nickel (B53W09S, B53W13S, and PW45), and total U (PW46). Statistically significant increasing trends were observed for chromium in B53W13S and for nickel in B53W13S and B53W09S. No trend was observed for chromium in B53W06S, nickel in PW45, and total U in PW46. Due to the high percentage of nondetect values for chromium in B53W01D and cadmium in PW35, the Mann-Kendall test could not be performed for these analytes.

Potentiometric surface maps were created from ground-water elevations measured in May and December to illustrate ground-water flow conditions in wet and dry seasons, respectively. The potentiometric data indicated ground-water flow to the northwest toward Coldwater Creek in the HZ-A at the SLAPS. The potentiometric surface of the HZ-C ground water at SLAPS is generally east to northeast.

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) 2010 applies to the North St. Louis County (NC) Sites (Figure 1-1) within 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 NC Sites within the FUSRAP. The NC Sites consists of the St. Louis Airport Site (SLAPS), its associated vicinity properties (VPs) (SLAPS VPs) (Figure 1-2), and the Latty Avenue Properties (Figure 1-3). The Latty Avenue Properties include Futura Coatings Company (Futura), the Hazelwood Interim Storage Site (HISS), and the Latty Avenue VPs. Additional environmental data were collected along Coldwater Creek, which flows adjacent to the SLAPS and near the HISS. Environmental monitoring of various media at each of the NC Sites is required under the *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA) and a commitment outlined in the Federal Facility Agreement.

1.2 PURPOSE

The purpose of this report is to document the environmental monitoring activities and to assess whether the remedial actions (RAs) being performed at the NC Sites could be having a measurable environmental impact. In addition, this report serves to enhance the reader's awareness of the current condition of the NC Sites, summarize the data collection efforts for CY 2010, and provide analysis of the CY 2010 environmental monitoring data results. This document presents the following information:

- Sample collection data for various media at each site and interpretation of CY 2010 EMP results;
- The compliance status of each site with federal and state applicable or relevant and appropriate requirements (ARARs) or other benchmarks (*Environmental Monitoring Implementation Plan for the North St. Louis County Sites for CY 2010* [EMICY10] [USACE 2010]);
- Dose assessments for radiological contaminants as appropriate at each site;
- A summary of trends based on changes in contaminant concentrations to support RAs, ensure public safety, and maintain surveillance monitoring requirements at each site; and
- The identification of data gaps and future EMP needs.

1.3 ST. LOUIS SITE PROGRAM AND SITE BACKGROUND

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 and AEC during the early years of the nation's atomic energy program. 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).

On October 4, 1989, the SLAPS, the HISS, and Futura were placed on the National Priorities List (USEPA 1989a). The three National Priorities List sites have been involved with some of

the following: refining of uranium (U) ores, production of U metal and compounds, U recovery from residues and scrap, and the storage and disposal of associated process byproducts. Responsibility for the FUSRAP was transferred from the Department of Energy (DOE) to the USACE on October 13, 1997.

Detailed descriptions and histories for each site can be found in the *Remedial Investigation Report for the St. Louis Site*, St. Louis, Missouri (DOE 1994); *Remedial Investigation Addendum for the St. Louis Site*, St. Louis, Missouri (DOE 1995); SLAPS Interim Action Engineering Evaluation/Cost Analysis (EE/CA), St. Louis, Missouri (DOE 1997); EE/CA and Responsiveness Summary for the SLAPS (USACE 1998a); EE/CA for HISS, St. Louis, Missouri (USACE 1998b); the *Environmental Monitoring Guide for the St. Louis Sites* (EMG) (USACE 1999a); and the *Record of Decision for the North County Sites* (ROD) (USACE 2005).

During CY 2010, the following documents were finalized for the NC Sites:

- *Environmental Monitoring Implementation Plan for the North St. Louis County Sites for Calendar Year 2010*, St. Louis, Missouri (February 1);
- *Remedial Action Site Work Plan, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *Remedial Action Site Work Plan Addendum 1: Vicinity Properties 3-6, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *Remedial Action Site Work Plan Addendum 2: Vicinity Property 12 and Coldwater Creek, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *Remedial Action Site Work Plan Addendum 3: Vicinity Properties 53-55, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *Remedial Action Site Work Plan Addendum 4: Vicinity Property 63, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *Environmental Protection Plan, North St. Louis County FUSRAP Vicinity Properties*, St. Louis, Missouri (February 22);
- *CY2009 Third Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories*, St. Louis, Missouri (February);
- *Vicinity Property 31A Remedial Design/Remedial Action Work Description, FUSRAP North St. Louis County Sites*, St. Louis, Missouri (March 15);
- *Vicinity Property 01(L) Federal Mogul Underground Roof Drainage System Video Documentation Summary Report, FUSRAP North St. Louis County Sites*, St. Louis, Missouri (March 30);
- *CY2009 Fourth Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories*, St. Louis, Missouri (May 12);
- *Pre-Design Investigation Work Plan for McDonnell Boulevard, FUSRAP North St. Louis County Sites*, St. Louis, Missouri (May 19);

- *Post-Remedial Action Report and Final Status Survey Evaluation for the Latty Avenue Vicinity Properties 01(L) and Parcel 10K530087, St. Louis, Missouri (June 2);*
- *CY2010 First Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri (July 1);*
- *North St. Louis County Sites Annual Environmental Monitoring Data and Analysis Report for Calendar Year 2009, St. Louis, Missouri (August 5);*
- *Sampling Plan for Investigation of Soils on Latty Avenue Vicinity Properties 03(L), 04(L), 05(L) and 06(L), St. Louis, Missouri (September 13);*
- *Five-Year Review Report, Second Five-Year Review Report for Formerly Utilized Sites Remedial Action Program (FUSRAP) St. Louis Sites, St. Louis, Missouri (September 22);*
- *Pre-Design Investigation Summary Report and Final Status Survey Evaluation for the SLAPS Vicinity Properties 33, 34, and 37, St. Louis, Missouri (September 23);*
- *Post-Remedial Action Report and Final Status Survey Evaluation for Hazelwood Avenue, the Right-of-Way Adjacent to Hazelwood Avenue (Partial) and St. Louis Airport Site Vicinity Properties 32, 35, 35A, 36, 39, 40, 42 and 47, St. Louis, Missouri (September 27);*
- *CY2010 Second Quarter Laboratory QA/QC Report for the FUSRAP St. Louis Radioanalytical Laboratory & Associated Satellite Laboratories, St. Louis, Missouri (November);*
- *Sampling Plan for Investigation of Soils on the Latty Avenue Vicinity Property 40A, St. Louis, Missouri (December 9);*
- *Contractor Quality Control Plan, North St. Louis FUSRAP Vicinity Properties, St. Louis, Missouri (December 20); and*
- *Site Safety and Health Plan, North St. Louis FUSRAP Vicinity Properties, St. Louis, Missouri (December 22).*

1.3.1 Latty Avenue Properties CY 2010 Remedial Actions

During CY 2010, RAs were performed at the following Latty Avenue Properties and related VPs (Figure 1-3): HISS, Futura, VP-40A: East Tract 3, and VP-02(L). Excavation and restoration activities continued throughout the year at HISS and Futura. Restoration activities at VP-40A: East Tract 3 continued in the first quarter and were completed in the second quarter. At VP-02(L), excavation and restoration activities continued in the first through third quarter. Excavation activities were completed while restoration activities continued at VP-02(L) in the fourth quarter. The contaminated materials excavated as a result of the RA at the Latty Avenue Properties site during CY 2010 totaled 40,313 cubic yards. All of the contaminated materials were shipped via railcar to U.S. Ecology in Idaho for proper disposal.

During CY 2010, *Multi-Agency Radiation Survey and Site Investigation (MARSSIM)* Class 1 verifications were performed at VP-02(L) (Areas 1, 6, 8, 9, 10 and 12) and HISS/Futura (survey units [SU]-10 through SU-15). Verifications at the Latty Avenue Properties were performed to confirm the remediation goals (RGs) were achieved. Characterizations/Pre-Design Investigations were performed at VP-06(L) during CY 2010.

During CY 2010, there were no shipments of Resource Conservation Recovery Act controlled hazardous waste. No monitoring wells were decommissioned in CY 2010.

1.3.2 St. Louis Airport Site and St. Louis Airport Site Vicinity Properties CY 2010 Remedial Actions

During CY 2010, RAs were performed at the following SLAPS-related investigation areas and VPs (Figure 1-2): VPs 05, 06, 12, 53, 54, 55, 63, McDonnell Boulevard East Section B, the Hazelwood Avenue right-of-way (ROW), and Coldwater Creek. In the first quarter, excavation activities began at VPs 54, 55, and 63 and the Hazelwood Avenue ROW; and the excavation was completed and restoration activities started at VPs 54 and 63 and the Hazelwood Avenue ROW. Additionally, in the first quarter, restoration activities were completed at the Hazelwood Avenue ROW. In the second quarter, restoration activities were completed at VPs 54 and 63; the excavation activities were completed and restoration activities began at VP-55. Additionally, in the second quarter, the excavation activities at VPs 05 and 06 began and were completed, with restoration activities also started; excavation activities began at VPs 12 and 53 with the excavation being completed on VP-53. In the third quarter, excavation activities began at McDonnell Boulevard East Section B and CWC; excavations and restoration activities continued at VP-12; restoration activities were completed at VPs 05, 06, and 55; and restoration activities began and were completed for VP-53. In the fourth quarter, excavation and restoration activities continued at McDonnell Boulevard East Section B, VP-12, and CWC. Approximately 5,121 cubic yards of contaminated materials were removed from the SLAPS VPs and were shipped via railcar to U.S. Ecology in Idaho.

During CY 2010, MARSSIM Class 1 verifications were performed at Hazelwood Avenue ROW (Area 1), McDonnell Boulevard East Section B (SU-1), CWC (SU-2), VPs 05 and 06 (SU-1), VP-12 (SU-1), VP-53 (SU-1), VP-54 (SU-1), VP-55 (SU-1), and VP-63 (SU-1). No MARSSIM Class 2 verifications were performed. Verifications were performed to confirm that ROD RGs were achieved.

Characterizations/Pre-Design Investigations were performed at the following SLAPS VPs during CY 2010: McDonnell Boulevard ROW, VPs 03, 04, 05, 06, and 12.

In accordance with the Metropolitan St. Louis Sewer District (MSD) authorization letter, 2,064,746 gallons of excavation water were discharged from the NC Sites in CY 2010. Since the beginning of the project, 21,559,427 gallons have been treated and released to MSD from the NC Sites.

2.0 EVALUATION OF RADIOLOGICAL AIR MONITORING DATA

This section documents environmental monitoring activities related to radiological air data. The radiological air measurements conducted at the NC Sites are part of the EMP. Radiological air data is collected to evaluate the compliance status of each site with 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 measurements conducted at the NC Sites, potential sources of the contaminants to be measured (including natural background), and measurement techniques employed during CY 2010.

All radiological air monitoring required through implementation of the EMICY10 (USACE 2010) was conducted as planned during CY 2010. The evaluations of radiological air monitoring data for all NC Sites demonstrate compliance with ARARs.

A total effective dose equivalent (TEDE) for the reasonably maximally exposed member of the public was calculated for the Latty Avenue Properties and the SLAPS and SLAPS VPs by summing the dose due to gamma radiation, radiological air particulates, and radon (Rn). The TEDE calculated for the reasonably maximally exposed individual at the Latty Avenue Properties and the SLAPS and SLAPS VPs was 3.1 millirem per year (mrem/yr) and less than 0.1 mrem/yr, respectively (0.031 milliseivert per year [mSv/yr] and less than 0.001 mSv/yr). These calculated TEDEs are compliant with the 100 mrem/yr (1 Sievert per year) limit provided in 10 *Code of Federal Regulations (CFR)* 20.1301. 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 that were conducted at the NC Sites during CY 2010 are gamma radiation, airborne radioactive particulates, and airborne radon. Sections 2.2 and 2.3 provide details of the monitoring conducted at the Latty Avenue Properties and the SLAPS and SLAPS VPs, respectively.

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 U decay series, thorium (Th) decay series, and potassium-40. Cosmic radiation originates in outer space and filters through the atmosphere to the earth. Together, these two sources make up the majority of natural gamma background radiation. The United Nations Scientific Committee on the Effects of Atomic Radiation estimates that the total naturally occurring background radiation dose equivalent due to gamma exposure is 65 mrem/yr (0.65 mSv/yr), 35 mrem/yr (0.35 mSv/yr) of which originates from sources on earth and 30 mrem/yr (0.3 mSv/yr) of which originates from cosmic sources (UNSCEAR 1982). The background monitoring locations for the NC Sites (Figure 2-1) are reasonably representative of background gamma radiation for the St. Louis Metropolitan Area.

Gamma radiation was measured at the NC Sites during CY 2010 using thermoluminescent dosimeters (TLDs). TLDs were located at site boundaries in order to provide input for calculation of TEDE.

The TLDs were placed at the monitoring location approximately three feet (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 soil 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 the soil being disturbed (e.g., excavation). This airborne radioactive material includes naturally occurring background concentrations, as well as above background concentrations of radioactive materials present at the NC Sites.

Airborne radioactive particulates were measured at the NC Sites by drawing air through a filter membrane with an air sampling pump placed approximately three feet 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., microcurie per milliliter [$\mu\text{Ci/mL}$]). Particulate air monitors were located at site perimeter locations in predominant wind directions and/or at excavation and loadout area perimeter locations, as appropriate to provide input for the National Emissions Standards for Hazardous Air Pollutants (NESHAP) Report and calculation of TEDE to the critical receptor. Air particulate samples were typically collected weekly or at more frequent intervals.

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

The NC Sites CY 2010 NESHAP Report (provided as Appendix A) presents the 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 NC Sites as inputs to the U.S. Environmental Protection Agency (USEPA) CAP88-PC Version 3.0 modeling code (USEPA 2007) to demonstrate compliance with the 10 mrem/yr ARAR in 40 *CFR* 61, Subpart I.

All NC Sites were in compliance with the 10 mrem/yr ARAR in 40 *CFR* 61, Subpart I.

2.1.3 Airborne Radon

U-238 is a naturally occurring radionuclide that is commonly found in soil and rock. Rn-222 is a naturally occurring radioactive gas found in the U 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 NC Sites.

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 height above the ground, season, time of day, and 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 NC Sites to measure alpha particles emitted from radon and its associated decay products. Radon ATDs were co-located with environmental TLDs three feet above the ground surface in housing shelters at the site boundaries or at locations representative of areas accessible to the public. Outdoor ATDs were collected approximately every six months and sent to an off-site laboratory for analysis. Recorded radon concentrations are listed in picocurie per liter (pCi/L), and are used to provide input for calculation of TEDE.

In the NC Sites, ATDs were also placed in locations within applicable structures to monitor for indoor radon exposure. The ATDs were located in areas that represent the highest likely exposure from indoor radon. ATD locations were chosen with consideration given to known radium (Ra)-226 concentrations under applicable buildings and occupancy time 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) ARAR value of 0.02 working levels (WL). In accordance with 40 *CFR* 192.12(b), 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 six months and sent to an off-site laboratory for analysis.

2.2 LATTY AVENUE PROPERTIES

For CY 2010, radiological air monitoring was conducted at the following Latty Avenue Properties: the HISS, Futura, and VP-02(L).

2.2.1 Evaluation of Gamma Radiation Data

External gamma radiation exposure from Latty Avenue Properties other than the HISS is considered negligible. Environmental TLD monitoring was not conducted at Latty Avenue Properties other than the HISS. Gamma radiation monitoring was performed at the HISS during CY 2010 at five locations around the perimeter of the site (see Figure 2-2) and at the background location to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor (Section 6.0). The EMP uses two TLDs at monitoring Station HA-5 (for each monitoring period) to provide additional quality control (QC) of the monitoring data. A summary of TLD monitoring data for CY 2010 at the HISS is shown in Table 2-1. TLD data is located in Appendix B of this report.

Table 2-1. Summary of HISS Gamma Radiation Data

Monitoring Location	Monitoring Station	First Quarter TLD Data (mrem/qtr) Reported/Corrected		Second Quarter TLD Data (mrem/qtr) Reported/Corrected		Third Quarter TLD Data (mrem/qtr) Reported/Corrected		Fourth Quarter TLD Data (mrem/qtr) Reported/Corrected		CY 2010 Net TLD Data (mrem/yr)
		Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	
HISS Perimeter	HA-1	15.3	1.2	17.8	0.0	18.6	0.0	19.7	0.0	1
	HA-2	12.7	0.0	17.3	0.0	16.3	0.0	15.5	0.0	0
	HA-3	18	4.2	23.3	5.6	23.7	5.5	20.6	0.0	15
	HA-4	14.8	0.7	17.1	0.0	17.9	0.0	17.1	0.0	1
	HA-5	13.6	0.0	17.5	0.0	18.2	0.0	18.3	0.0	0

Table 2-1. Summary of HISS Gamma Radiation Data (Continued)

Monitoring Location	Monitoring Station	First Quarter TLD Data (mrem/qtr) Reported/Corrected		Second Quarter TLD Data (mrem/qtr) Reported/Corrected		Third Quarter TLD Data (mrem/qtr) Reported/Corrected		Fourth Quarter TLD Data (mrem/qtr) Reported/Corrected		CY 2010 Net TLD Data (mrem/yr)
		Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Rpt.	Cor. ^{a,b}		
Duplicate ^c	HA-5	13.7	0.0	18.3	0.3	18.2	0.0	16.3	0.0	---
Background	BA-1	14.2	---	18	---	18.7	---	21.1	---	---

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

^b CY 2010 net TLD data are corrected for background, shelter absorption ($s/a = 1.075$), and fade.

^c A QC duplicate is collected at the same time and location and is analyzed by the same method for evaluating precision in sampling and analysis. Duplicate sample results were not included in calculations.

--- Result calculation not required

mrem/qtr – millirem per quarter

2.2.2 Evaluation of Airborne Radioactive Particulate Data

For the Latty Avenue Properties, air sampling for particulate radionuclides was conducted at the HISS perimeter locations and at the perimeter of each active excavation throughout the year. Air particulate data was used as inputs to the NESHAP Report (Appendix A) and calculation of TEDE to the critical receptor (Section 6.0). A summary of air particulate monitoring data for Latty Avenue Properties is shown in Table 2-2. The monitoring locations are shown on Figure 2-2. Perimeter stations are located in accordance with the EMICY10 (USACE 2010). Airborne radioactive particulate data is located in Appendix B of this report.

Table 2-2. Summary of Latty Avenue Properties Airborne Radioactive Particulate Data

Monitoring Stations	Average Concentration ^a (μCi/mL)	
	Gross Alpha	Gross Beta
Futura	4.7E-15	2.2E-14
HISS	4.4E-15	2.7E-14
VP-02(L)	3.6E-15	2.5E-14
Background Concentration ^b	2.5E-15	1.8E-14

^a Average concentration values for the sampling period by location.

^b These concentrations are only provided for informational purpose.

2.2.3 Evaluation of Outdoor Airborne Radon Data

Exposure from Rn-222 from Latty Avenue Properties other than HISS is considered negligible. Outdoor environmental Rn-222 monitoring was not conducted at Latty Avenue Properties other than HISS. For the Latty Avenue Properties, outdoor airborne radon monitoring was performed at the the HISS using ATDs placed around the site perimeter to measure radon emissions from the site. Five detectors were co-located with TLDs, as identified in Figure 2-2, and one duplicate detector was placed at Station HA-5 for QC purposes. Background ATDs were used to compare on-site exposure and off-site background exposure. Outdoor airborne radon data was used as an input for calculation of TEDE to the critical receptor (Section 6).

A summary of CY 2010 outdoor radon data at the HISS is shown in Table 2-3. Outdoor ATD data is located in Appendix B of this report.

Table 2-3. Summary of HISS Outdoor Airborne Radon (Rn-222) Data

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/07/10 to 07/07/10 ^a (uncorrected)	07/07/10 to 01/04/11 ^a (uncorrected)	Average Annual Concentration ^b
HISS Perimeter	HA-1	0.2	0.3	0.1
	HA-2	0.2	0.2	0.0
	HA-3	0.2	^d	0.0
	HA-4	0.2	0.3	0.1
	HA-5	0.2	0.3	0.1
Duplicate ^c	HA-5	0.2	0.3	0.1
Background	BA-1	0.2	0.2	---

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

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

^c A QC duplicate is collected at the same time and location and is analyzed by the same method for evaluating precision in sampling and analysis.

^d Second Semi-Annual Alpha Track for station HA-3 could not be located for analysis. First semi-annual results were assumed for both monitoring periods.

--- Result calculation not required.

2.2.4 Evaluation of Indoor Airborne Radon Data

Indoor radon monitoring was performed at Futura buildings adjacent to the HISS using ATDs placed at several locations in each Futura building at a height of four feet (to approximate breathing zone conditions) to measure radon concentrations. The detectors were located as shown on Figure 2-2. The ATDs were installed in January CY 2010 at each monitoring location, collected for analysis after approximately six months of exposure, and replaced with another set that would represent radon exposure for the rest of the year. Recorded radon concentrations, listed in pCi/L, were converted to radon WLs 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). The average annual radon concentration was determined to be less than the 40 *CFR* 192.12(b) criterion of 0.02 WL in each building (SAIC 2011a). Additional details of the data and calculation methodology used to determine indoor radon WLs in the Futura buildings are located in Table 2-4. Indoor ATD data is located in Appendix B of this report.

Table 2-4. Summary of Futura Indoor Airborne Radon (Rn-222) Data

Monitoring Location	Monitoring Station	Average Annual Concentration			WL ^d
		01/07/10 to 07/07/10 ^a (pCi/L)	07/07/10 to 01/04/11 ^a (pCi/L)	Average (pCi/L) ^{b,c}	
Futura	HF-1	3.5	1.8	2.65	---
Futura	HF-2	1.2	3.6	2.4	
Futura	HF-3	0.5	0.5	0.5	
Futura	HF-4	0.5	0.5	0.5	
Futura	HF-5	0.7	0.7	0.7	
Futura	HF-6	0.7	0.4	0.55	
Futura	HF-7	0.6	1.3	0.95	
Futura	HF-8	0.2	0.4	0.3	
Futura	HF-9	0.4	0.5	0.45	
Futura	HF-10	^c	0.4	0.4	

Table 2-4. Summary of Futura Indoor Airborne Radon (Rn-222) Data (Continued)

Monitoring Location	Monitoring Station	Average Annual Concentration			
		01/07/10 to 07/07/10 ^a (pCi/L)	07/07/10 to 01/04/11 ^a (pCi/L)	Average (pCi/L) ^{b,c}	WL ^d
North Building ^c	(HF-1 to HF-3)			1.85	0.007
Middle Building ^c	(HF-4 to HF-7)			0.68	0.003
South Building ^c	(HF-8 to HF-10)			0.38	0.002

^a Detectors were installed and removed on the dates listed. Data are as reported from the vendor.

^b Results reported from vendor for two periods are averaged to estimate an annual average radon concentration (pCi/L) above background.

^c In each building, the average annual result for each monitoring station within the building was used to calculate a building average.

^d The average annual WL is calculated by dividing the average pCi/L by 100 pCi/L per WL and multiplying by 0.4.

^e The first semi-annual ATD at station HF-10 was lost and could not be collected. Second semi-annual results were assumed for both monitoring periods.

--- Result calculation not required.

2.3 SLAPS AND SLAPS VICINITY PROPERTIES

For CY 2010, radiological air monitoring was conducted at Hazelwood Avenue, McDonnell Boulevard, VPs 05 and 06, VP-12, VPs 54 and 55, VP-63, and the SLAPS.

2.3.1 Evaluation of Gamma Radiation Data

External gamma radiation exposure from SLAPS VPs is considered negligible. Environmental TLD monitoring was not conducted at SLAPS VPs. Gamma radiation monitoring was performed at the SLAPS during CY 2010 at four site locations surrounding the loadout area (Figure 2-3) and at the background location to compare on-site/off-site exposure and to provide input for calculation of TEDE to the critical receptor (Section 6.0). The EMP uses two TLDs at Monitoring Station PA-4 (for each monitoring period) to provide additional QC of the monitoring data.

A summary of TLD monitoring results for CY 2010 at the SLAPS is shown in Table 2-5. TLD data is located in Appendix B of this report.

Table 2-5. Summary of SLAPS Gamma Radiation Data

Monitoring Location	Monitoring Station	First Quarter TLD Data (mrem/qtr) Reported/Corrected		Second Quarter TLD Data (mrem/qtr) Reported/Corrected		Third Quarter TLD Data (mrem/qtr) Reported/Corrected		Fourth Quarter TLD Data (mrem/qtr) Reported/Corrected		CY 2010 Net TLD Data (mrem/yr)
		Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	Rpt.	Cor. ^{a,b}	
SLAPS Perimeter	PA-1	15.9	1.9	20.0	2.1	19.8	1.2	21.3	0.2	5
	PA-2	16.5	2.6	22.0	4.2	21.9	3.6	22.4	1.4	12
Duplicate ^c	PA-2	17.2	3.3	23.4	5.7	22.2	3.9	21.9	0.9	---
SLAPS Perimeter	PA-3	14.9	0.8	18.6	0.6	20.7	2.2	18.8	0.0	4
	PA-4	15.5	1.4	20.4	2.5	21.4	3.0	19.6	0.0	7
Background	BA-1	14.2	---	18.0	---	18.7	---	21.1	---	---

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

^b CY 2010 net TLD data are corrected for background, shelter absorption ($s/a = 1.075$), and fade.

^c A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis. Duplicate sample results were not included in calculations.

--- Result calculations not required.

2.3.2 Evaluation of Airborne Radioactive Particulate Data

For the SLAPS, air sampling for particulate radionuclides was conducted at the SLAPS perimeter locations beginning in January CY 2010 and continued throughout the year. Air

particulate data was used as inputs to the NESHAP Report (Appendix A) and calculation of TEDE to the critical receptor (Section 6.0).

A summary of air particulate monitoring data for the SLAPS and SLAPS VPs is shown in Table 2-6. The monitoring locations are shown on Figure 2-3. Airborne radioactive particulate data is located in Appendix B of this report.

Table 2-6. Summary of SLAPS Airborne Radioactive Particulate Data

Monitoring Station	Average Concentration ($\mu\text{Ci/mL}$) ^a	
	Gross Alpha	Gross Beta
Hazelwood Avenue and VP-53	3.3E-15	1.3E-14
McDonnell Blvd	5.8E-15	2.1E-14
VPs 05 and 06	2.3E-15	1.2E-14
VP-12	7.6E-15	5.6E-14
VPs 54 and 55	4.5E-15	1.9E-14
VP-63	9.9E-15	3.1E-14
SLAPS Loadout	4.7E-15	2.3E-14
Background Concentration ^b	2.5E-15	1.8E-14

^a Average concentration values for the sampling period by location.

^b These concentrations are only provided for informational purpose.

2.3.3 Evaluation of Outdoor Airborne Radon Data

Exposure from Rn-222 from SLAPS VPs is considered negligible. Outdoor environmental Rn-222 monitoring was not conducted at SLAPS VPs. Outdoor airborne radon monitoring was performed at the SLAPS using ATDs placed around the loadout area to measure radon emissions from the site. Four detectors were co-located with TLDs, as identified in Figure 2-3. One additional detector was located at Monitoring Station PA-2 as a QC duplicate. A background ATD was used to compare on-site exposure and off-site background exposure. Outdoor airborne radon data was used as an input for calculation of TEDE to the critical receptor (Section 6).

A summary of CY 2010 outdoor radon data at the HISS is shown in Table 2-7. Outdoor ATD data is located in Appendix B of this report.

Table 2-7. Summary of SLAPS Outdoor Airborne Radon (Rn-222) Data

Monitoring Location	Monitoring Station	Average Annual Concentration (pCi/L)		
		01/07/10 to 07/07/10 ^a (uncorrected)	07/07/10 to 01/04/11 ^a (uncorrected)	Average Annual Concentration ^b
SLAPS	PA-1	0.2	0.2	0
Perimeter	PA-2	0.2	0.2	0
Duplicate ^c	PA-2	0.2	0.2	0
SLAPS	PA-3	0.2	0.2	0
Perimeter	PA-4	0.4	0.6	0.3
Background	BA-1	0.2	0.2	---

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

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

^c A QC duplicate is collected at the same time and location, and is analyzed by the same method for evaluating precision in sampling and analysis.

--- Result calculation not required.

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3.0 EVALUATION OF EXCAVATION-WATER, STORM-WATER, SURFACE-WATER, AND SEDIMENT MONITORING DATA

This section provides a description of the excavation-water, storm-water, surface-water, and sediment monitoring activities conducted at the NC Sites, including the monitoring of Coldwater Creek during CY 2010. The results obtained from these monitoring activities are presented and evaluated with respect to historical data and the appropriate discharge limits as described in the EMICY10 (USACE 2010).

Section 2.2.2 of the EMICY10 for the NC Sites outlines the discharge limits for the storm-water and excavation-water discharged at each site (USACE 2010). The MSD has issued discharge authorization letters for the NC Sites that establish discharge-limit-based criteria (MSD 1998, 2001, 2006, 2008, and 2010a). The pollutants addressed for all NC Sites are identified in Table 2-5 of the EMICY10 (USACE 2010). The pollutants addressed in the National Pollutant Discharge Elimination System (NPDES) permit equivalent for the SLAPS will be applied at all NC Sites and are identified in Table 2-6 of the EMICY10 (USACE 2010). For cases in which the regulatory authorities have not provided radiological contaminant of concern (COC) discharge limits, the 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. The Missouri Department of Natural Resources (MDNR) has also issued an ARAR document outlining limits for the storm-water outfalls at the SLAPS (MDNR 1998).

3.1 EXCAVATION-WATER AND STORM-WATER DISCHARGE MONITORING

This section provides a description of the excavation-water and storm-water monitoring activities conducted at the NC Sites during CY 2010. The monitoring results obtained from these activities are presented and compared with the various authorization letter or permit-equivalent limits as presented in the EMICY10 (USACE 2010). The purpose of storm-water and excavation-water discharge sampling at the NC Sites is to maintain compliance with the specific discharge requirements for each respective site.

3.1.1 Metropolitan St. Louis Sewer District Authorization Letter Renewal for the Hazelwood Interim Storage Site On-Site Radioanalytical Laboratory

The USACE owns the HISS on-site laboratory located at 8945 Latty Avenue in Hazelwood, Missouri. The laboratory operates in accordance with an MSD special discharge authorization. The laboratory waste-water is discharged to the MSD sewer system at Manhole 10K2-075S, which is shown on Figure 3-1. The MSD special discharge authorization requires compliance with applicable discharge regulations (Ordinance 8472) (MSD 1991). The current special discharge authorization extension was renewed on February 1, 2010, and expires February 7, 2012 (MSD 2010b).

3.1.2 Evaluation of Storm-Water Discharge Monitoring Results

During CY 2010, storm-water sampling at the SLAPS was conducted to verify compliance with NPDES permit-equivalent requirements. There is one NPDES outfall located at the SLAPS. This outfall has been assigned the station identification PN02 for Outfall 002. PN02 is located at the termination of a drainage feature that conveys storm water along the north side of McDonnell Boulevard to Coldwater Creek (Figure 3-2).

In conjunction with the construction of a sedimentation basin during CY 1998, the MDNR issued discharge sampling requirements for three outfalls (PN01 [now terminated], PN02, and PN03 [now terminated]). The ARAR permit-equivalent document requires monthly monitoring for flow, oil and grease, total petroleum hydrocarbons, pH, settleable solids, and polychlorinated biphenyls, as well as total recoverable arsenic, chromium, and cadmium. In addition, effluent monitoring for gross alpha, gross beta, protactinium (Pa)-231, actinium (Ac)-227, total Ra, total Th, and total U is required for each discharge event. Effluent monitoring for radon is required twice per year. As outlined in a letter from the USACE to the MDNR dated November 18, 2003, chemical oxygen demand monitoring has been modified from quarterly to annually (USACE 2003).

On February 19, 2002, the MDNR issued a letter to the USACE conditionally agreeing with a request to reduce the sampling frequency at PN02 to once per year, effective February 2002 until the drainage area becomes affected by soil disturbance such as excavation (MDNR 2002). The condition of the agreement is that the MDNR be notified prior to the soil in the area being disturbed.

During 2010, un-named moving pumping outfalls were utilized during excavation activities at HISS/Futura, Hazelwood Avenue ROW, McDonnell Boulevard, VP-02(L), and VP-12 for the management of storm water with regard to sediment control and pumped excavation water. The moving outfalls were necessary to pump excess excavation water, which could not be contained due to geographic conditions, to Coldwater Creek. The un-named excess excavation water was pumped to Coldwater Creek in accordance with agreements made during a March 12, 2007, meeting with Mr. Tom Siegel (MDNR), and as described in a subsequent April 20, 2007 letter from the USACE (USACE 2007). The excavation water sampling is being conducted to verify compliance with the NPDES permit-equivalent requirements. The parameters for the un-named outfalls follow the same NPDES parameters as Outfall PN02.

Analytical results for the NC Sites are presented in Appendix C, Table C-1. Quarterly summaries of the CY 2010 storm-water monitoring events for the NC Sites are presented in the following subsections. Quarterly NC Sites storm-water monitoring results for CY 2010 are presented in Tables 3-1 through 3-4.

During CY 2010, rainfall data was obtained from the National Weather Service Station at Lambert – St. Louis International Airport, which is adjacent to the NC Sites. Daily flow and rainfall data are included in Appendix C, Table C-2.

First Quarter

During the first quarter (January, February, and March) of CY 2010, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-1). Samples were collected when flow permitted. In accordance with a letter from the MDNR, dated February 19, 2002, sampling at PN02 was reduced to one event per year (MDNR 2002). One sampling event was conducted at Outfall PN02 during this quarter. One sampling event was conducted at Un-named Outfalls HISS/Futura and the Hazelwood Avenue ROW during the first quarter. Two sampling events were conducted at VP-02(L) during the first quarter.

Second Quarter

During the second quarter (April, May, and June) of CY 2010, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-2). Outfall PN02 was not sampled

during the second quarter. One sampling event was conducted at Un-named Outfalls HISS/Futura and VP-02(L) during the second quarter.

Third Quarter

During the third quarter (July, August, and September) of CY 2010, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-3). Samples were collected when flow permitted. Outfall PN02 was not sampled during the third quarter. Two sampling events were conducted at Un-named Outfalls HISS/Futura and McDonnell Boulevard during the third quarter. Six sampling events were conducted at Un-named Outfall VP-02(L) during the third quarter. One sampling event was conducted at VP-12 during the third quarter.

Fourth Quarter

During the fourth quarter (October, November, and December) of CY 2010, all NPDES sample results were in compliance with permit-equivalent requirements (Table 3-4). Samples were collected when flow permitted. Outfalls PN02 and HISS/Futura were not sampled during the fourth quarter. Three sampling events were conducted at Un-named Outfall 02(L) during the fourth quarter. One sampling event was conducted at Un-named Outfalls McDonnell Boulevard and VP-12 during the fourth quarter.

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Table 3-1. First Quarter 2010 NPDES Sampling Events¹

MONITORING PARAMETER	FINAL EFFLUENT LIMITATIONS			ANALYTICAL RESULTS											
	Daily Maximum	Monthly Average	Units	PN02 (Outfall 002) ⁴			Un-named Outfall 02(L) Results			Un-named Outfall HISS/Futura Results			Un-named Outfall Hazelwood Avenue Results		
				Chemical Parameters			Chemical Parameters			Chemical Parameters			Chemical Parameters		
				January	February	March	January	February	March	January	February	March	January	February	March
Flow	Monitor	Monitor	MGD	⁴	⁴	0.040	²	0.03	²	²	0.079	²	²	0.0001	
Oil and Grease	15	10	mg/L			non-detect		non-detect			non-detect			non-detect	
Total Petroleum Hydrocarbons	10	10	mg/L			non-detect		non-detect			non-detect			non-detect	
pH-Units	6.0-9.0	NA	SU			7.47		7.59			7.80			7.49	
Chemical Oxygen Demand ⁴	120	90	mg/L			120 ¹²		⁴			⁴			⁴	
Settleable Solids ¹⁰	1.5	1	mL/L/hr			0.20		0.11 ¹³			<0.10			0.10	
Arsenic, Total Recoverable	100	100	mg/L			<15		<15			<15			<15	
Lead, Total Recoverable	190	190	mg/L			³		³			³			³	
Chromium, Total Recoverable	280	280	mg/L			<2		7			<2			<2	
Copper, Total Recoverable	84	84	mg/L			³		³			³			³	
Cadmium, Total Recoverable	94	94	mg/L			<2		<2			<2			<2	
Polychlorinated Biphenyls ¹¹	No release ¹¹	No release ¹¹	ug/L			non-detect		non-detect			non-detect			non-detect	
EVENT SAMPLING DATE				Radiological Parameters ^{5,6}			Radiological Parameters ^{5,6}			Radiological Parameters ^{5,6}			Radiological Parameters ^{5,6}		
				Event 1	Event 2	Event 3	Event 1	Event 2	Event 3	Event 1	Event 2	Event 3	Event 1	Event 2	Event 3
				⁴	⁴	03/11/10	02/10/10-02/11/10	02/22/10	²	²	02/22/10	²	²	²	²
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L			6.E+00		9.E-02			6.E+01			0.E+00	
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L			2.E-10		8.E-07			4.E-07			3.E-07	
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L			9.E-01		5.E+00			3.E-01			2.E+00	
Gross Alpha ⁷	Monitor	Monitor	pCi/L			3.E+00		6.E+00			5.E+01			1.E+00	
Gross Beta ⁷	Monitor	Monitor	pCi/L			3.E+00		2.E-01			2.E+01			3.E+00	
Protactinium-231 ⁷	Monitor	Monitor	pCi/L			1.E+01		1.E+01			2.E+01			0.E+00	
Actinium-227 ⁷	Monitor	Monitor	pCi/L			4.E+00		2.E+00			0.E+00			0.E+00	
Radon ⁹	Monitor	Monitor	pCi/L			non-detect		NS			NS			NS	

MGD – million gallons per day
 mg/L – milligrams per liter
 mL/L/hr – milliliter per liter per hour
 NS – not sampled

¹ A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period which may also exceed the duration of 24 hours, and two events experienced within 48 hours may be reported together. Events may also be defined as “pumping events” where monitoring of excavation water is conducted at an outfall on an as-needed basis.
² No sample is required since it doesn't meet the definition of an event.
³ Lead and copper sampling no longer necessary per the ROD.
⁴ Sampled annually.
⁵ Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples; however, the radiological results are incorporated into the volume-weighted average for the specified event.
⁶ It is assumed that Ra-228 and Th-228 are in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.
⁷ As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit specified.
⁸ Total nuclide values in µg/L units were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).
⁹ Semi-annual reporting requirement only.
¹⁰ Detection Limit (DL) = 0.1 mL/L/hr
¹¹ DL = 0.5 µg/L
¹² Chemical oxygen demand value for the March NPDES Outfall 002 was 120 mg/l, which meets the daily average of the ARAR.
¹³ The settleable solid values for February at VP-02L un-named Outfall ranged from 0.10 to 0.20 ml/L/hr with the weighted average of 0.11 ml/L/hr.

Table 3-2. Second Quarter 2010 NPDES Sampling Events^{1,13}

MONITORING PARAMETER	FINAL EFFLUENT LIMITATIONS			ANALYTICAL RESULTS							
	Daily Maximum	Monthly Average	Units	Un-named Outfall 02(L) Results			Un-named Outfall HISS/Futura Results				
				Chemical Parameters			Chemical Parameters				
				April	May	June	April	May	June		
Flow	Monitor	Monitor	MGD	0.04	²	²	²	0.04	²		
Oil and Grease	15	10	mg/L	non-detect				non-detect			
Total Petroleum Hydrocarbons	10	10	mg/L	non-detect				non-detect			
pH-Units	6.0-9.0	NA	SU	7.7				8.1			
Chemical Oxygen Demand ⁴	120	90	mg/L	⁴				7			
Settleable Solids ¹⁰	1.5	1	mL/L/hr	0.3 ¹²				<0.2			
Arsenic, Total Recoverable	100	100	mg/L	<15				<15			
Lead, Total Recoverable	190	190	mg/L	³				³			
Chromium, Total Recoverable	280	280	mg/L	17				3			
Copper, Total Recoverable	84	84	mg/L	³				³			
Cadmium, Total Recoverable	94	94	mg/L	<2				<2			
Polychlorinated Biphenyls ¹¹	No release ¹¹	No release ¹¹	µg/L	non-detect				non-detect			
EVENT SAMPLING DATE				Radiological Parameters ^{5,6}			Radiological Parameters ^{5,6}				
				Event 1		Event 2		Event 1		Event 2	
				04/27/10 - 04/28/10		²		²		05/17/10	
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L	0.E+00				6.E+01			
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L	1.E-06				1.E-07			
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L	3.E+00				6.E-01			
Gross Alpha ⁷	Monitor	Monitor	pCi/L	9.E+00				3.E+01			
Gross Beta ⁷	Monitor	Monitor	pCi/L	0.E+00				2.E+01			
Protactinium-231 ⁷	Monitor	Monitor	pCi/L	4.E+00				0.E+00			
Actinium-227 ⁷	Monitor	Monitor	pCi/L	4.E-01				1.E+00			
Radon ⁹	Monitor	Monitor	pCi/L	NS				non-detect			

NS – not sampled
¹ A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period which may also exceed the duration of 24 hours, and two events experienced within 48 hours may be reported together. Events may also be defined as “pumping events” where monitoring of excavation water is conducted at an outfall on an as-needed basis.
² No sample is required since it doesn't meet the definition of an event.
³ Lead and copper sampling no longer necessary per the ROD.
⁴ Sampled annually.
⁵ Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples, however, the radiological results are incorporated into the volume-weighted average for the specified event.
⁶ It is assumed that Ra-228 and Th-228 are in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.
⁷ As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit specified.
⁸ Total nuclide values in micrograms per liter (µg/L) units were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).
⁹ Semi-annual reporting requirement only.
¹⁰ DL = 0.1 mL/L/hr
¹¹ DL = 0.5 µg/L
¹² The settleable solid value for April at VP-02(L) Un-named Outfall was 0.30 ml/L/hr.
¹³ PN02 (Outfall 002) sampled annually in the first quarter and not displayed.

Table 3-3. Third Quarter 2010 NPDES Sampling Events^{1,12}

MONITORING PARAMETER	FINAL EFFLUENT LIMITATIONS			Analytical Results											
	Daily Maximum	Monthly Average	Units	Un-named Outfall 02(L) Results					Un-named Outfall HISS/Futura Results						
				Chemical Parameters					Chemical Parameters						
				July	August	September	July	August	September	July	August	September			
Flow	Monitor	Monitor	MGD	0.02	0.01	³	0.02	³	³						
Oil and Grease	15	10	mg/L	non-detect	non-detect		non-detect								
Total Petroleum Hydrocarbons	10	10	mg/L	non-detect	non-detect		non-detect								
pH-Units	6.0-9.0	NA	SU	8.52	7.04		7.61								
Chemical Oxygen Demand ⁴	120	90	mg/L	⁴	⁴		⁴								
Settleable Solids ¹⁰	1.5	1	mL/L/hr	<0.2 ¹⁵	<0.2 ¹⁶		<0.2 ¹⁴								
Arsenic, Total Recoverable	100	100	mg/L	<15 ¹³	<15 ¹³		<15 ¹³								
Lead, Total Recoverable	190	190	mg/L	¹³	¹³		¹³								
Chromium, Total Recoverable	280	280	mg/L	<2 ¹³	<2 ¹³		<2 ¹³								
Copper, Total Recoverable	84	84	mg/L	¹³	¹³		¹³								
Cadmium, Total Recoverable	94	94	mg/L	<2	<2		<2								
Polychlorinated Biphenyls ¹¹	No release ¹¹	No release ¹¹	µg/L	non-detect	non-detect		non-detect								
EVENT SAMPLING DATE				Radiological Parameters ^{5,6}					Radiological Parameters ^{5,6}						
				Event 1	Event 2	Event 3	Event 4	Event 5	Event 1	Event 2	Event 3	Event 4	Event 5		
				07/01/10	07/06/10 - 07/08/10	07/12/10 - 07/13/10	07/21/10 - 07/22/10	07/26/10	³	³	³	07/20/10 - 07/22/10	07/26/10 - 07/27/10		
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L	2.E-01	3.E+00	0.E+00	2.E-01	3.E+00				1.E+01	2.E+01		
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L	2.E-07	4.E-07	3.E-07	6.E-07	6.E-07				6.E-07	1.E-06		
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L	2.E+00	1.E+00	1.E+00	1.E-01	2.E+00				1.E+00	9.E-01		
Gross Alpha ⁷	Monitor	Monitor	pCi/L	1.E+00	0.E+00	0.E+00	8.E+00	0.E+00				4.E+00	6.E+00		
Gross Beta ⁷	Monitor	Monitor	pCi/L	6.E+00	2.E+01	0.E+00	8.E+00	6.E+00				4.E+00	2.E+00		
Protactinium-231 ⁷	Monitor	Monitor	pCi/L	3.E+00	0.E+00	9.E+00	5.E+00	0.E+00				1.E+01	2.E+00		
Actinium-227 ⁷	Monitor	Monitor	pCi/L	0.E+00	4.E+00	1.E+00	6.E+00	0.E+00				0.E+00	9.E-02		
Radon ⁹	Monitor	Monitor	pCi/L	NS	NS	NS	NS	NS				³	³		
EVENT SAMPLING DATE				Event 6	Event 7	Event 8	Event 9		Event 6	Event 7	Event 8	Event 9			
				08/03/10 - 08/05/10	³	³	³		³	³	³	³			
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L	4.E+00											
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L	8.E-07											
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L	2.E+00											
Gross Alpha ⁷	Monitor	Monitor	pCi/L	9.E+00											
Gross Beta ⁷	Monitor	Monitor	pCi/L	1.E+01											
Protactinium-231 ⁷	Monitor	Monitor	pCi/L	5.E+00											
Actinium-227 ⁷	Monitor	Monitor	pCi/L	2.E+00											
Radon ⁹	Monitor	Monitor	pCi/L	NS											

Table 3-3. Third Quarter 2010 NPDES Sampling Events (Continued)^{1,12}

MONITORING PARAMETER	FINAL EFFLUENT LIMITATIONS			Analytical Results																	
	Daily Maximum	Monthly Average	Units	Un-named Outfall VP-12 Results					Un-named Outfall McDonnell Boulevard Results												
				Chemical Parameters					Chemical Parameters												
				July	August	September	July	August	September	July	August	September									
Flow	Monitor	Monitor	MGD																		
Oil and Grease	15	10	mg/L																		
Total Petroleum Hydrocarbons	10	10	mg/L																		
pH-Units	6.0-9.0	NA	SU																		
Chemical Oxygen Demand ⁴	120	90	mg/L																		
Settleable Solids ¹⁰	1.5	1	mL/L/hr																		
Arsenic, Total Recoverable	100	100	mg/L																		
Lead, Total Recoverable	190	190	mg/L																		
Chromium, Total Recoverable	280	280	mg/L																		
Copper, Total Recoverable	84	84	mg/L																		
Cadmium, Total Recoverable	94	94	mg/L																		
Polychlorinated Biphenyls ¹¹	No release ¹¹	No release ¹¹	µg/L																		
EVENT SAMPLING DATE				Radiological Parameters ^{5,6}					Radiological Parameters ^{5,6}												
				Event 1	Event 2	Event 3	Event 4	Event 5	Event 1	Event 2	Event 3	Event 4	Event 5								
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L																		
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L																		
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L																		
Gross Alpha ⁷	Monitor	Monitor	pCi/L																		
Gross Beta ⁷	Monitor	Monitor	pCi/L																		
Protactinium-231 ⁷	Monitor	Monitor	pCi/L																		
Actinium-227 ⁷	Monitor	Monitor	pCi/L																		
Radon ⁹	Monitor	Monitor	pCi/L																		
EVENT SAMPLING DATE				Event 6	Event 7	Event 8	Event 9		Event 6	Event 7	Event 8	Event 9									
					09/10/10 - 09/11/10								09/19/10 - 09/22/10	09/26/10 - 09/27/10							
Uranium, Total ^{7,8}	Monitor	Monitor	mg/L		1.E+01						4.E-01	0.E+00									
Radium, Total ^{6,7,8}	Monitor	Monitor	mg/L		2.E-06						4.E-07	6.E-07									
Thorium, Total ^{6,7,8}	Monitor	Monitor	mg/L		1.E+00						1.E+00	6.E-01									
Gross Alpha ⁷	Monitor	Monitor	pCi/L		3.E+01						0.E+00	0.E+00									
Gross Beta ⁷	Monitor	Monitor	pCi/L		1.E+01						6.E-01	2.E+00									
Protactinium-231 ⁷	Monitor	Monitor	pCi/L		1.E+01						2.E+00	0.E+00									
Actinium-227 ⁷	Monitor	Monitor	pCi/L		1.E+00						0.E+00	1.E+00									
Radon ⁹	Monitor	Monitor	pCi/L		NS						NS	NS									

NS – not sampled

¹ A rainfall event is defined as a measurable increase in discharge rate from precipitation producing 0.1 inch or more of liquid in a 24-hour period which may also exceed the duration of 24 hours, and two events experienced within 48 hours may be reported together. Events may also be defined as “pumping events” where monitoring of excavation water is conducted at an outfall on an as-needed basis.

² Un-named Outfalls only require monthly chemical sampling if pumping is conducted during that month.

³ No sample is required since it doesn't meet the definition of an event.

⁴ Sampled annually.

⁵ Value reported is based on a volume-weighted average of analyte activity concentrations for samples collected during the defined event. Corresponding radiological samples were collected on the same date as chemical samples, however, the radiological results are incorporated into the volume-weighted average for the specified event.

⁶ It is assumed that Ra-228 and Th-228 are in secular equilibrium with Th-232; therefore, Th-232 results are used to estimate Ra-228 and Th-228 values.

⁷ As specified in the permit-equivalent, radionuclides require monitoring only, and limits are not permit specified.

⁸ Total nuclide values in µg/L units were calculated using the activity concentration values reported by the laboratory and values for specific activity listed in Table 8.4.1 of *The Health Physics and Radiological Health Handbook* (Shleien 1992).

⁹ Semi-annual reporting requirement only.

¹⁰ DL = 0.1 mL/L/hr

¹¹ DL = 0.5 µg/L

¹² PN02 (Outfall 002) sampled annually in the first quarter and not displayed.

¹³ Lead and copper sampling no longer necessary per the ROD.

¹⁴ The settleable solid values for July at HISS Futura un-named Outfall ranged from 0 to 0.50 mL/L/hr with the weighted average of <0.2 mL/L/hr.

¹⁵ The settleable solid values for July at VP-02L un-named Outfall ranged from 0 to 0.50 mL/L/hr with the weighted average of <0.2 mL/L/hr.

¹⁶ The settleable solid values for August at VP-02L un-named Outfall ranged from 0 to 0.10 mL/L/hr with the weighted average of <0.2 mL/L/hr.

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3.1.3 Evaluation of Excavation-Water Monitoring Results at the North St. Louis County Sites

On July 23, 2001, the MSD conditionally approved the discharge of treated excavation-water to an MSD sanitary sewer inlet located at the SLAPS (MSD 2001). The current extension to the special discharge approval expires on July 23, 2012 (MSD 2010a). The primary condition of the approval requires a treatment system be installed, maintained, and operated to produce an effluent meeting the following standards: MSD ordinances 8472, 10177, and 10082 (MSD 1991, 1994, 1997); the Nuclear Regulatory Commission requirements in 10 *CFR* 20, Appendix B; and the Missouri Department of Health and Senior Services requirements in 19 *Code of State Regulations (CSR)* 20-10. In addition, the MSD limits the annual allocation for radioactivity from the NC Sites to the MSD Coldwater Creek treatment plant. The MSD establishes the maximum volume of excavation-water allowed to be discharged in a 24-hour period and requires that the analytical results of the treated excavation-water comply with applicable standards and limits prior to discharge. The evaluation of monitoring data results demonstrate that all ARARs have been met. Additionally, the selenium discharge variance for the SLAPS was utilized in the third and fourth quarter of CY 2010 (MSD 2005, 2008, 2010a). The selenium variance was utilized for Batches 221, 222, 246, and 255. The selenium variance calculations are presented in Appendix C, Table C-3. Analytical results of the treated water are presented in Appendix C, Table C-4.

During CY 2010, approximately 2,064,746 gallons of treated excavation-water from 81 treatment batches were released to one of three discharge points: 10K1-017S, 10K1-070S, and 10L3-043S (Table 3-5). The discharge locations are illustrated on Figures 3-2 and 3-3. Batches of treated excavation-water were sampled and analyzed for MSD effluent criteria (Appendix C, Table C-4).

Table 3-5. Excavation Water Discharged at the NC Sites during CY 2010

Quarter	Number of Discharges	Number of Gallons Discharged ^a	Total Activity (Curies [Ci])		
			Th ^b	U (KPA) ^c	Ra ^d
1	10	279,331	3.27E-06	1.66E-05	8.59E-07
2	35	917,891	8.66E-06	2.96E-05	4.16E-06
3	27	684,181	6.73E-06	3.12E-05	3.13E-06
4	9	183,343	2.06E-06	8.06E-06	9.65E-07
Total	81	2,064,746	2.07E-05	8.56E-05	9.11E-06

^a Quantities based on actual quarterly discharges from NC Sites.

^b Calculated value based on the addition of isotopic analyses: Th-228 and Th-230.

^c Value based on total U results (kinetic phosphorescence analysis [KPA]).

^d Calculated value based on the addition of isotopic analyses: Ra-226 and Ra-228.

3.2 COLDWATER CREEK MONITORING

RA monitoring of surface water and sediment in Coldwater Creek is required until the creek has been remediated. The purpose of the monitoring is to document that RAs are having a positive effect on the creek and to provide additional data to assess whether Coldwater Creek is being measurably affected by COC migration from hydrostratigraphic zone (HZ)-A.

The EMP for Coldwater Creek evaluates the water quality and the radiological and chemical parameters present in the surface water and sediment. Surface water and sediment are monitored for the radiological and chemical parameters in List 2 of Table 3-3 of the EMICY10 (USACE 2010). The water quality parameters are measured only for surface water.

The water quality parameters measured include pH, temperature, dissolved oxygen (DO), specific conductivity, oxidation reduction potential (ORP), and turbidity. The objectives of the EMP are:

- to assess the quality of surface water and sediment in Coldwater Creek;
- to compare the results with monitoring guidelines and/or RGs as established for these media in the EMICY10 (USACE 2010); and,
- to evaluate/determine whether runoff from the SLAPS, the HISS, and their VPs affect the quality of surface water and sediment in Coldwater Creek.

MDNR has designated Coldwater Creek as a metropolitan no-discharge stream. Therefore, discharges are prohibited, except as specifically permitted under the water quality standard, 10 CSR 20-7.031 and non-contaminated storm-water flows (10 CSR 20-7.015.1.A.4). Coldwater Creek, from its mouth at the Missouri River to its crossing with U.S. Highway 67 (Lindbergh Boulevard) (a distance of roughly 5.5 miles), is a Class C stream. Class C streams may cease flow during dry periods but maintain permanent pools that support aquatic life (10 CSR 20-7.031.1.F.6). The upper reach of Coldwater Creek south of U.S. Highway 67, which includes the SLAPS/HISS reach, is an unclassified water of the state.

Surface water and sediment samples are collected from Coldwater Creek on a semi-annual basis as part of the EMP (USACE 2010). The sampling events are conducted at six Coldwater Creek monitoring stations (C002 through C007). Locations of the six monitoring stations are shown on Figure 3-4. Monitoring station C004, located between the SLAPS and the HISS, is used to monitor the potential water quality impacts from the SLAPS to Coldwater Creek. Monitoring Station C005 is used to monitor water quality downstream from the HISS and those vicinity properties located around Latty Avenue. Monitoring station C007, located approximately 3,700 ft downstream of the HISS, is the farthest downstream monitoring station on Coldwater Creek.

It should be noted that other non-FUSRAP industrial discharges are relatively common along the sampled reaches of Coldwater Creek, and therefore, sample parameters could be influenced by existing industrial sources other than former Manhattan Engineer District/AEC operations.

3.2.1 Coldwater Creek Surface-Water Monitoring Results

Sampling of surface water at Coldwater Creek was conducted at or below base flow elevation during the months of March and October in 2010. The base flow elevation for Coldwater Creek at the McDonnell Boulevard Bridge is 508.2 ft above mean sea level (amsl). The base flow also may be approximated by a depth measurement of 3.2 ft or less at an “average cross-section.” The monitoring of Coldwater Creek surface water included determining water quality parameters, as well as obtaining samples for metals and radionuclides as listed in Table 3-3 of EMICY10 (USACE 2010). Grab samples were collected and analyzed according to the protocol defined in the *Sampling and Analysis Guide for the St. Louis Sites* (SAG) (USACE 2000). In addition, isotopic U results were used to evaluate total U concentrations in surface water for comparison to the 30 micrograms per liter ($\mu\text{g/L}$) monitoring guide described in the ROD.

All surface water monitoring required through implementation of the EMICY10 was conducted as planned during CY 2010. The evaluation of monitoring data demonstrates that all applicable ARARs have been met. The sample results are presented in Table D-1 of Appendix D (USACE 2010).

Water Quality Parameters

Water quality data is collected as part of the routine performance of surface water sampling and is used as part of the overall evaluation of water quality. The water quality results for each surface-water monitoring station are summarized in Table 3-6. The average surface-water temperatures during the March and October sampling events were 13.21 and 18.4 degrees Celsius (°C), respectively. The average surface-water pH values were 7.42 and 6.42, respectively. The pH values for both sampling events were within the acceptance range (6.0 to 9.0), and thus provide suitable conditions for aquatic life.

Table 3-6. Water Quality Results for CY 2010 Coldwater Creek Surface-Water Sampling

Monitoring Parameter	Unit	Monitoring Station						Average
		C002	C003	C004	C005	C006	C007	
First Sampling Event (March 29, 2010)								
Temperature	°C	12.9	13.4	13.3	13.6	13.1	13.0	13.21
pH	standard Unit	7.76	7.66	7.59	7.41	7.12	6.98	7.42
DO	mg/L	7.19	7.67	7.09	6.91	4.95	5.14	6.49
Specific Conductivity	micro-Semens per centimeter (µS/cm)	1.01	1.95	2.00	2.01	2.01	1.50	2.08
ORP	millivolt (mV)	8	49	2	-65	-69	-150	-37.5
Turbidity	nephelometric Turbidity units (NTU)	56.7	39.5	33.4	88.3	18.9	30.4	44.5
Second Sampling Event (October 13, 2010)								
Temperature	°C	18.8	20.1	18.2	17.6	17.7	18.2	18.4
pH	standard unit	6.95	6.75	6.39	6.37	6.12	5.91	6.42
DO	mg/L	5.90	6.06	6.29	5.20	4.31	6.39	5.69
Specific Conductivity	µS/cm	0.129	0.123	0.142	0.133	0.139	0.412	0.179
ORP	mV	122	140	159	151	174	181	155
Turbidity	NTU	12.4	4.6	13.8	64.9	31.3	9.5	22.7

Average DO levels were 6.49 milligrams per liter (mg/L) in March and 5.69 mg/L in October. Specific conductivity values were higher for the March event compared to the October event. The average specific conductivity for the March sampling event was 2.08 micro-Semens per centimeter (µS/cm), and the average specific conductivity for the October sampling event was 0.179 µS/cm. The average turbidity value during the March sampling event (44.5 nephelometric turbidity units [NTUs]) was higher than the October sampling event (22.7 NTUs).

Radiological Parameters

The radiological monitoring results for the CY 2010 Coldwater Creek surface-water sampling events are summarized in Table 3-7. Historically, FUSRAP surface-water analysis has included unfiltered water samples for the following radiological parameters: Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238. Unfiltered surface-water samples from Coldwater Creek were not analyzed for Ra-228 during CY 2010, because Ra-228 rapidly achieves equilibrium with Th-228 such that their concentrations are equal.

Surface water data for U-234, U-235, and U-238 (reported in pCi/L) were converted to µg/L and compared to the 30 µg/L criterion for total U described in the ROD. The total U concentrations in surface water were less than the 30 µg/L ROD criterion. A summary of the surface-water radiological data collected from Coldwater Creek since 2001 is presented in Table 3-8.

Table 3-7. Radiological Results for CY 2010 Coldwater Creek Surface-Water Sampling

Monitoring Parameter	Monitoring Stations					
	C002	C003	C004	C005	C006	C007
Radionuclide Concentration (pCi/L)						
First Sampling Event (March 29, 2010)						
Ra-226	<0.17 ^a	<0.54 ^a	<0.49 ^a	0.26	<0.42 ^a	<0.19 ^a
Th-228	0.46	<0.63 ^a	0.52	0.33	<0.42 ^a	<0.47 ^a
Th-230	0.28	0.60	0.55	0.27	0.35	0.51
Th-232	<0.19 ^a	<0.23 ^a	<0.20 ^a	<0.18 ^a	<0.42 ^a	<0.21 ^a
U-234	1.05	1.78	2.5	0.92	1.04	0.90
U-235	0.23	<0.21 ^a	<0.20 ^a	<0.28 ^a	<0.45 ^a	<0.20 ^a
U-238	<0.37 ^a	1.74	1.82	1.08	0.83	0.65
Second Sampling Event (October 13, 2010)						
Ra-226	<1.51 ^a	<1.79 ^a	<1.51 ^a	<0.64 ^a	<2.21 ^a	<2.24 ^a
Th-228	<0.78 ^a	<0.60 ^a	<0.65 ^a	<0.19 ^a	<0.53 ^a	0.53
Th-230	<0.68 ^a	<0.61 ^a	0.58	0.42	0.61	<0.49 ^a
Th-232	<0.68 ^a	<0.22 ^a	<0.24 ^a	<0.51 ^a	<0.19 ^a	<0.40 ^a
U-234	1.02	0.58	0.98	1.03	0.71	0.90
U-235	<0.21 ^a	<0.24 ^a	<0.23 ^a	0.39	<0.46 ^a	<0.22 ^a
U-238	0.51	0.94	0.97	0.59	1.02	0.90

^a Reported result is less than the minimum detectable concentration (MDC) and is therefore set equal to the MDC.

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Table 3-8. Comparison of Historical Radiological Surface-Water Results for Coldwater Creek

Stations	Radionuclide	Units	03/01	10/01	03/02	08/02	04/03	10/03	03/04	10/04	03/05	10/05	03/06	09/06	03/07	10/07	04/08	11/08	04/09	10/09	03/10	10/10
C002	Total U ^b	µg/L	<3.0 ^a	<4.0 ^a	4.2	5.8	5.1	2.8	1.0	2.1	3.0	1.3	0.72	2.2	2.3	2.2	3.2	2.2	1.6	3.3	2.39	2.25
	Ra-226	pCi/L	<4.1 ^a	<1.6 ^a	0.32	0.0	<1.8 ^a	<2.8 ^a	<4.7 ^a	<2.4 ^a	<0.42 ^a	<0.39 ^a	<0.44 ^a	<0.46 ^a	0.52	<0.67 ^a	0.81	0.34	<0.39 ^a	<0.48 ^a	<0.17 ^a	<1.51 ^a
	Th-228	pCi/L	<1.8 ^a	<1.6 ^a	<0.43 ^a	<0.72 ^a	<1.6 ^a	<1.0 ^a	1.8	<1.5 ^a	<0.97 ^a	<0.45 ^a	0.64	<0.38 ^a	0.25	<0.53 ^a	<0.20 ^a	<0.40 ^a	<0.59 ^a	0.21	0.46	<0.78 ^a
	Th-230	pCi/L	<0.73 ^a	<1.2 ^a	1.2	1.8	<1.8 ^a	2.2	2.0	<1.2 ^a	<0.97 ^a	0.60	<0.55 ^a	0.64	0.38	1.3	0.59	<0.40 ^a	0.69	0.41	0.28	<0.68 ^a
	Th-232	pCi/L	<0.72 ^a	<1.4 ^a	0.0	0.0	0.65	<1.0 ^a	<1.5 ^a	<1.2 ^a	<0.36 ^a	<0.45 ^a	<0.77 ^a	<0.38 ^a	<0.17 ^a	<0.38 ^a	<0.20 ^a	<0.18 ^a	<0.59 ^a	<0.41 ^a	<0.19 ^a	<0.68 ^a
C003	Total U ^b	µg/L	<5.5 ^a	<5.2 ^a	3.0	2.4	4.8	3.6	3.5	2.7	4.5	2.8	2.1	1.2	3.1	2.1	4.4	3.6	3.9	3.4	5.43	2.26
	Ra-226	pCi/L	<1.2 ^a	<0.60 ^a	<3.8 ^a	0.30	<1.7 ^a	<1.4 ^a	<1.3 ^a	<2.0 ^a	<0.41 ^a	<0.45 ^a	<0.41 ^a	1.5	0.20	<0.54 ^a	1.32	<0.49 ^a	0.29	<0.65 ^a	<0.54 ^a	<1.79 ^a
	Th-228	pCi/L	<1.5 ^a	<2.4 ^a	<0.52 ^a	<0.20 ^a	<1.3 ^a	<2.3 ^a	<1.2 ^a	<1.9 ^a	1.4	0.70	<0.54 ^a	<0.50 ^a	<0.54 ^a	<0.42 ^a	<0.44 ^a	<0.33 ^a	<0.50 ^a	<0.48 ^a	<0.63 ^a	<0.60 ^a
	Th-230	pCi/L	<0.67 ^a	<0.77 ^a	1.5	1.7	2.2	2.5	<1.1 ^a	2.0	1.6	0.63	0.55	0.67	0.44	1.3	1.32	0.58	<0.41 ^a	<0.67 ^a	0.60	<0.61 ^a
	Th-232	pCi/L	<0.67 ^a	<0.80 ^a	0.0	<0.14 ^a	<0.60 ^a	<1.9 ^a	<1.2 ^a	<0.59 ^a	<0.92 ^a	<0.40 ^a	<0.20 ^a	<0.41	<0.16 ^a	<0.19 ^a	<0.20 ^a	<0.15 ^a	0.20	<0.48 ^a	<0.23 ^a	<0.22 ^a
C004	Total U ^b	µg/L	<4.5 ^a	<2.7 ^a	5.0	0.80	6.4	5.5	2.8	4.0	6.4	4.4	4.3	1.9	2.7	2.1	2.4	2.6	3.4	2.1	6.38	3.00
	Ra-226	pCi/L	<1.4 ^a	<1.6 ^a	0.11	0.70	<2.2 ^a	<2.6 ^a	<3.8 ^a	1.2	<0.58 ^a	<0.54 ^a	<0.50 ^a	<0.67 ^a	0.41	<0.61 ^a	<0.63 ^a	<0.71 ^a	0.64	<0.52 ^a	<0.49 ^a	<1.51 ^a
	Th-228	pCi/L	<1.2 ^a	<1.4 ^a	<0.30 ^a	<1.3 ^a	<2.6 ^a	<2.7 ^a	<1.7 ^a	<1.6 ^a	<0.93 ^a	0.31	0.45	<0.44 ^a	<0.53 ^a	<0.17 ^a	0.31	<0.50 ^a	<0.51 ^a	0.32	0.52	<0.65 ^a
	Th-230	pCi/L	1.4	<1.2 ^a	0.59	0.65	4.2	3.1	1.6	2.2	1.3	0.47	0.55	0.71	<0.38 ^a	<0.45 ^a	0.79	<0.50 ^a	<0.51 ^a	0.83	0.55	0.58
	Th-232	pCi/L	<1.2 ^a	<1.2 ^a	0.0	<0.11 ^a	<0.59 ^a	<1.1 ^a	<0.56 ^a	<1.6 ^a	<0.34 ^a	<0.47 ^a	<0.19 ^a	<0.20 ^a	0.19	<0.19 ^a	<0.21 ^a	<0.18 ^a	<0.51 ^a	<0.38 ^a	<0.20 ^a	<0.24 ^a
C005	Total U ^b	µg/L	<5.0 ^a	<4.6 ^a	5.7	1.7	5.0	6.8	2.2	2.8	3.8	4.9	2.1	3.0	4.8	1.4	4.0	3.2	1.8	3.9	3.10	2.97
	Ra-226	pCi/L	<1.2 ^a	<2.8 ^a	0.40	1.5	<1.5 ^a	<1.9 ^a	<2.4 ^a	2.8	0.83	0.68	0.57	<0.36 ^a	<0.51 ^a	<0.64 ^a	<0.74 ^a	<0.20 ^a	<0.42 ^a	<0.40 ^a	0.26	<0.64 ^a
	Th-228	pCi/L	<1.3 ^a	<2.4 ^a	<0.37 ^a	<0.91 ^a	<1.1 ^a	<2.7 ^a	0.82	<1.3 ^a	0.88	<0.41 ^a	<0.56 ^a	0.26	<0.39 ^a	0.23	<0.46 ^a	<0.68 ^a	0.21	<0.72 ^a	0.33	<0.19 ^a
	Th-230	pCi/L	<0.67 ^a	<1.6 ^a	2.6	0.98	1.8	3.4	2.6	1.5	1.5	0.52	0.87	0.46	<0.39 ^a	0.99	1.7	0.32	0.41	<0.23 ^a	0.27	0.42
	Th-232	pCi/L	<0.67 ^a	<1.6 ^a	<0.24 ^a	0.0	<0.51 ^a	<2.4 ^a	<1.2 ^a	<0.59 ^a	<0.32 ^a	<0.41 ^a	<0.45 ^a	<0.39 ^a	<0.39 ^a	<0.56 ^a	<0.21 ^a	<0.17 ^a	0.34	<0.23 ^a	<0.18 ^a	<0.51 ^a
C006	Total U ^b	µg/L	<5.0 ^a	<3.1 ^a	5.4	2.5	5.0	7.3	15	1.4	1.3	2.1	2.0	1.9	3.5	2.2	2.9	3.2	3.2	2.5	2.81	2.56
	Ra-226	pCi/L	<3.1 ^a	<1.7 ^a	0.36	<2.2 ^a	<2.4 ^a	<0.67 ^a	<2.9 ^a	<1.9 ^a	<0.41 ^a	<0.55 ^a	<0.57 ^a	<0.55 ^a	0.51	<0.46 ^a	<0.66 ^a	0.91	5.26	<0.56 ^a	<0.42 ^a	<0.64 ^a
	Th-228	pCi/L	<2.1 ^a	<1.8 ^a	0.02	<0.88 ^a	<2.2 ^a	<2.4 ^a	<1.9 ^a	<1.3 ^a	0.54	0.73	<0.56 ^a	<0.59 ^a	<0.43 ^a	<0.36 ^a	<0.56 ^a	<0.39 ^a	0.56	<0.42 ^a	<0.42 ^a	<0.19 ^a
	Th-230	pCi/L	<2.2 ^a	<1.6 ^a	0.88	0.96	4.6	2.0	1.5	2.4	1.9	1.2	0.83	<0.52 ^a	<0.16 ^a	0.36	0.60	0.53	<0.48 ^a	0.50	0.35	0.42
	Th-232	pCi/L	<1.5 ^a	<0.72 ^a	0.0	<0.11 ^a	<1.2 ^a	<1.1 ^a	<1.5 ^a	<0.60 ^a	0.18	<0.20 ^a	<0.18 ^a	<0.19 ^a	<0.16 ^a	<0.16 ^a	<0.20 ^a	<0.39 ^a	<0.22 ^a	<0.19 ^a	<0.42 ^a	<0.51 ^a
C007	Total U ^b	µg/L	<3.7 ^a	<4.5 ^a	7.9	3.1	4.1	4.7	1.2	2.1	1.9	2.1	1.9	1.7	3.1	1.7	2.7	1.8	2.3	3.0	2.51	2.78
	Ra-226	pCi/L	<2.7 ^a	<2.3 ^a	0.84	0.48	<1.5 ^a	<1.9 ^a	<2.2 ^a	<1.7 ^a	<0.79 ^a	<0.43 ^a	<0.58 ^a	<0.40 ^a	0.55	<0.46 ^a	<0.81 ^a	<0.18 ^a	<0.51 ^a	0.22	<0.19 ^a	<2.24 ^a
	Th-228	pCi/L	<1.2 ^a	1.7	1.2	1.9	<1.7 ^a	<2.0 ^a	1.8	<1.2 ^a	0.78	0.42	<0.41 ^a	<0.38 ^a	<0.17 ^a	<0.47 ^a	0.51	0.18	<0.23 ^a	<0.46 ^a	<0.47 ^a	0.53
	Th-230	pCi/L	<0.67 ^a	<1.9 ^a	2.4	3.1	2.4	2.3	2.5	2.2	<0.44 ^a	1.3	0.62	0.45	<0.17 ^a	0.99	1.03	0.47	0.25	<0.46 ^a	0.51	<0.49 ^a
	Th-232	pCi/L	<1.2 ^a	<1.4 ^a	<0.11 ^a	<0.20 ^a	<0.55 ^a	<1.1 ^a	0.86	<0.52 ^a	<0.36 ^a	<0.36 ^a	<0.19 ^a	<0.18 ^a	<0.17 ^a	<0.38 ^a	<0.41 ^a	<0.16 ^a	<0.23 ^a	<0.21 ^a	<0.21 ^a	<0.40 ^a

^a Reported result is less than the MDC and is therefore set equal to the MDC.

^b Total U is equal to the sum of the concentrations of U isotopes in pCi/L divided by 0.677, where 0.677 microgram per picocurie is the specific activity for Total U, assuming secular equilibrium.

Chemical Parameters

The chemical monitoring results for the CY 2010 Coldwater Creek surface-water sampling events are presented in Table 3-9.

Table 3-9. Chemical Results for CY 2010 Coldwater Creek Surface-Water Sampling

Monitoring Parameter	Monitoring Stations					
	C002	C003	C004	C005	C006	C007
Target Analyte List Metals Concentration (µg/L)						
First Sampling Event (March 29, 2010)						
Antimony	<1.1 ^a	<1.1 ^a	<1.1 ^a	<1.1 ^a	<1.1 ^a	<1.1 ^a
Arsenic	3.2	2.4	2.3	2.0	1.7	1.4
Barium	135	126	141	125	114	96.4
Cadmium	0.08	0.09	<0.06 ^a	<0.06 ^a	<0.06 ^a	<0.06 ^a
Chromium	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a
Molybdenum	18.2	15.8	16.3	14.5	12.0	10.4
Nickel	2.3	2.2	2.5	2.3	2.3	2.1
Selenium	2.4	2.6	2.8	2.4	2.3	1.9
Thallium	1.8	1.0	<0.55 ^a	<0.55 ^a	<0.55 ^a	<0.55 ^a
Vanadium	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a
Second Sampling Event (October 13, 2010)						
Antimony	1.3	2.8	<1.1 ^a	<1.1 ^a	<1.1 ^a	<1.1 ^a
Arsenic	3.6	3.8	2.9	2.9	2.4	2.7
Barium	142	117	155	149	150	151
Cadmium	0.10	0.16	0.11	0.07	0.08	<0.06 ^a
Chromium	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a	<3.3 ^a
Molybdenum	10.1	9.9	10.2	11.3	7.8	8.7
Nickel	3.2	3.0	3.8	3.9	4.0	3.6
Selenium	1.4	2.0	1.3 ^a	1.3 ^a	<1.3 ^a	<1.3 ^a
Thallium	<0.55 ^a	1.0	<0.55 ^a	<0.55 ^a	<0.55 ^a	<0.55 ^a
Vanadium	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a	<2.4 ^a

^a Reported result is less than the DL and is therefore set equal to the DL.

3.2.2 Coldwater Creek Sediment Monitoring Results

During CY 2010, sediment sampling at Coldwater Creek was conducted during the months of March and October as part of the EMP. Sediment samples were collected in depositional environments near each of the six previously described surface-water locations (C002 through C007) (Figure 3-4) and analyzed according to the methods described in the SAG. Sediment samples, collected for the EMP, were evaluated for the radiological and metal constituents listed in Table 3-3 of the EMICY10 (USACE 2010).

All sediment monitoring required through implementation of the EMICY10 was conducted as planned during CY 2010. The evaluation of monitoring data demonstrates that all applicable ARARs have been met. Appendix D, Table D-2, presents the analytical results from these monitoring activities (USACE 2010).

Radiological Parameters

The radiological results for CY 2010 Coldwater Creek sediment sampling events are presented in Table 3-10. The ROD (USACE 2005) established sediment RGs for Ra-226, Th-230, and U-238 at the NC Sites. Therefore, sediment sampling results for those radionuclides were compared

against their corresponding RGs. Sediment samples from Coldwater Creek were not analyzed for U-234 during CY 2010, because U-234 is assumed to be in equilibrium with U-238.

Table 3-10. Radiological Results for CY 2010 Coldwater Creek Sediment Sampling

Monitoring Parameter	RGs ^b	Monitoring Stations					
		C002	C003	C004	C005	C006	C007
Radionuclide Concentration (picocuries per gram [pCi/g])							
First Sampling Event (March 29, 2010)							
Ac-227	No RG	<0.12 ^a	<0.12 ^a	<0.15 ^a	<0.18 ^a	<0.18 ^a	<0.19 ^a
Pa-231	No RG	<0.34 ^a	<0.33 ^a	<0.39 ^a	<0.46 ^a	<0.47 ^a	<0.54 ^a
Ra-226	15	0.71	0.98	1.26	1.52	1.69	1.4
Ra-228	No RG	0.30	0.44	0.62	0.73	0.88	0.82
Th-228 ^c	No RG	0.46	0.85	0.90	0.92	1.01	1.00
Th-230 ^c	43	0.67	1.03	2.21	2.24	1.91	2.63
Th-232 ^c	No RG	0.53	0.43	0.77	0.65	0.80	1.04
U-235	No RG	<0.16 ^a	<0.15 ^a	<0.18 ^a	<0.22 ^a	<0.24 ^a	<0.23 ^a
U-238	150	0.66	0.36	0.90	0.73	0.85	1.08
Second Sampling Event (October 13, 2010)							
Ac-227	No RG	<0.16 ^a	<0.18 ^a	<0.23 ^a	<0.31 ^a	<0.25 ^a	<0.25 ^a
Pa-231	No RG	<0.45 ^a	<0.47 ^a	<0.65 ^a	<0.75 ^a	<0.70 ^a	<0.69 ^a
Ra-226	15	0.95	1.07	1.50	2.51	1.74	1.40
Ra-228	No RG	0.33	0.36	0.81	0.88	0.88	0.73
Th-228 ^c	No RG	0.44	0.42	1.24	0.96	0.82	0.78
Th-230 ^c	43	1.21	1.09	1.63	19.6	4.08	4.43
Th-232 ^c	No RG	0.21	0.17	1.01	1.09	0.71	0.72
U-235	No RG	<0.22 ^a	<0.22 ^a	<0.29 ^a	<0.35 ^a	<0.30 ^a	<0.31 ^a
U-238	150	0.81	0.63	1.23	1.78	1.07	<0.84 ^a

^a Reported result is less than the MDC and is therefore set equal to the MDC.

^b RGs presented in the ROD (USACE 2005).

^c Both gamma-spec and alpha spec results produced; alpha-spec results reported.

All sediment data results were below the RGs established by the ROD. The historical radiological sediment sampling information for all monitoring stations since 2001 is summarized in Table 3-11.

Chemical Parameters

Chemical monitoring results for CY 2010 Coldwater Creek sediment sampling events are presented in Table 3-12.

3.2.3 Impact of FUSRAP Coldwater Creek Remedial Action on Total Uranium Concentrations in Coldwater Creek Surface Water and Sediment

As part of the FUSRAP RA at SLAPS, sediment and soil were removed from the bed and banks of Coldwater Creek near monitoring stations C002 and C003 during August 2004. An evaluation was conducted to determine if the SLAPS RA resulted in increased levels of uranium in Coldwater Creek. The concentrations of radionuclides in sediment and surface-water samples from various stations along Coldwater Creek were assessed. Radionuclide data from surface-water and sediment samples collected from March 2000 to March 2004 were used to create a baseline for comparison with sample results collected after the RA.

Table 3-11. Comparison of Historical Radiological Sediment Results for Coldwater Creek

Stations	Radionuclide	Units	03/01	10/01	03/02	08/02	04/03	10/03	03/04	10/04	03/05	10/05	03/06	09/06	03/07	10/07	04/08	11/08	03/09	10/09	03/10	10/10
C002	Total U ^b	pCi/g	<1.5 ^a	<1.1 ^a	0.48	0.42	1.5	3.9	1.8	1.1	0.91	0.93	1.2	1.7	0.971	1.1 ^c	1.68	0.73	0.80	0.89	1.34	1.31
	Ra-226	pCi/g	0.50	0.06	0.86	1.0	0.88	0.93	0.99	0.89	0.92	0.69	0.74	0.72	0.97	<0.37 ^{a,c}	1.04	0.85	0.75	1.07	0.71	0.95
	Ra-228	pCi/g	0.18	0.15	0.22	0.19	0.21	0.24	0.28	0.16	0.26	0.26	0.22	0.29	0.20	0.18	0.20	0.17	0.20	0.24	0.30	0.33
	Th-228	pCi/g	0.41	0.37	0.33	0.92	0.58	0.38	0.49	0.40	0.51	0.61	0.75	0.67	0.26	0.24 ^c	0.53	0.41	0.50	0.35	0.46	0.44
	Th-230	pCi/g	0.48	0.83	1.52	<0.71 ^a	0.67	0.81	1.0	1.0	0.78	0.98	1.1	1.3	1.2	0.84 ^c	0.92	1.05	0.51	1.24	0.67	1.21
	Th-232	pCi/g	0.26	0.15	0.31	0.45	0.19	0.17	0.12	<0.27 ^a	<0.26 ^a	0.41	0.30	0.22	0.46	<0.24 ^{a,c}	0.24	<0.26 ^a	0.28	0.31	0.53	0.21
C003	Total U ^b	pCi/g	<2.0 ^a	<1.9 ^a	0.63	0.98	1.4	3.3	1.8	0.85	1.6	2.0	1.4	1.4	1.2	2.0 ^c	1.92	2.27	1.19	2.88	0.72	1.74
	Ra-226	pCi/g	0.68	0.84	0.78	1.4	0.72	0.96	0.81	0.92	1.0	1.5	1.1	1.3	1.5	1.7 ^c	1.05	1.08	0.79	1.42	0.98	1.07
	Ra-228	pCi/g	0.41	0.82	0.32	0.73	0.30	0.25	0.38	0.33	0.59	0.86	0.45	0.38	0.68	0.49	0.49	0.57	0.40	1.03	0.44	0.36
	Th-228	pCi/g	0.98	0.96	0.45	1.1	1.3	0.47	0.74	0.57	1.1	0.92	1.2	0.34	0.97	0.53 ^c	0.70	0.66	0.64	1.14	0.85	0.42
	Th-230	pCi/g	3.6	1.9	1.3	2.3	1.4	0.81	2.4	3.3	3.5	1.5	2.6	3.8	1.2	1.5 ^c	2.10	2.26	1.23	1.49	1.03	1.09
	Th-232	pCi/g	0.67	0.93	<0.31 ^a	0.7	0.35	0.14	0.35	0.41	0.75	0.71	0.69	0.43	0.38	0.46 ^c	0.51	0.57	0.34	0.73	0.43	0.17
C004	Total U ^b	pCi/g	<2.5 ^a	<1.1 ^a	0.62	0.71	2.1	5.2	2.9	1.6	2.1	2.1	1.6	1.9	2.7	7.3 ^{c,d}	1.99	2.30	2.03	3.30	1.81	2.55
	Ra-226	pCi/g	0.85	0.99	0.9	1.4	1.0	1.1	0.93	1.1	1.0	1.3	1.2	1.2	1.3	1.6 ^c	1.02	1.04	0.97	1.27	1.26	1.50
	Ra-228	pCi/g	1.0	0.96	0.32	0.83	0.82	0.90	0.83	0.72	0.85	0.87	0.83	0.74	0.80	0.81	0.70	1.0	0.73	0.85	0.62	0.81
	Th-228	pCi/g	1.8	1.3	0.42	0.96	0.94	1.4	1.7	1.6	0.99	1.1	0.9	0.93	1.7	1.3 ^c	1.21	1.36	0.83	1.09	0.90	1.24
	Th-230	pCi/g	2.6	1.6	3.0	1.3	1.7	1.6	2.4	1.4	2.0	2.2	2.2	2.1	2.6	2.2 ^c	1.98	1.03	1.65	2.05	2.21	1.63
	Th-232	pCi/g	1.5	0.96	1.0	0.81	0.99	0.84	1.0	0.92	0.82	0.86	1.0	0.85	0.79	0.97 ^c	1.31	0.80	0.82	1.03	0.77	1.01
C005	Total U ^b	pCi/g	<3.2 ^a	<1.4 ^a	0.71	1.1	2.4	5.4	2.2	1.8	3.3	2.0	2.3	2.0	0.94	2.0 ^c	2.00	3.56	1.58	2.80	1.59	3.56
	Ra-226	pCi/g	1.4	0.73	1.2	1.9	1.7	2.2	1.3	1.9	1.6	1.8	1.4	1.4	1.7	1.6 ^c	1.14	5.40	1.04	1.42	1.52	2.51
	Ra-228	pCi/g	0.98	0.23	0.4	0.55	0.66	0.74	0.53	0.53	0.85	0.73	0.78	0.53	0.98	0.58	0.78	1.05	0.31	0.86	0.73	0.88
	Th-228	pCi/g	1.1	0.38	0.73	1.2	1.2	1.3	0.98	0.79	0.99	0.95	1.5	1.0	1.5	0.68 ^c	0.98	1.65	0.50	1.34	0.92	0.96
	Th-230	pCi/g	19	3.2	3.6	14	8.7	23	3.8	3.5	8.4	4.5	11	11	4.7	3.7 ^c	6.60	82.6	4.23	9.63	2.24	19.6
	Th-232	pCi/g	0.98	0.29	0.21	0.86	1.0	0.69	0.57	0.20	0.43	0.57	1.3	0.77	1.6	0.45 ^c	0.98	1.38	0.50	0.87	0.65	1.09
C006	Total U ^b	pCi/g	<2.7 ^a	<1.6 ^a	0.91	0.69	1.8	4.8	1.0	1.9	2.6	1.8	2.7	2.3	2.9	2.3 ^c	1.66	1.83	2.05	0.75	1.85	2.23
	Ra-226	pCi/g	0.93	0.90	1.2	1.3	1.3	1.1	1.1	1.1	1.2	1.3	1.3	1.3	1.4	0.94 ^c	1.00	1.41	1.01	1.12	1.69	1.74
	Ra-228	pCi/g	0.79	0.95	0.85	0.86	0.87	0.86	0.94	0.74	0.94	1.0	0.74	0.92	0.97	0.93	0.88	0.98	0.82	0.99	0.88	0.88
	Th-228	pCi/g	1.1	1.3	1.5	1.2	1.2	1.7	1.6	2.0	1.4	1.2	0.92	2.0	0.99	1.6 ^c	1.70	0.94	1.50	1.59	1.01	0.82
	Th-230	pCi/g	4.0	2.8	2.9	1.4	1.7	3.7	3.2	3.1	2.2	2.1	2.8	3.2	1.8	2.7 ^c	3.40	2.19	2.17	2.58	1.91	4.08
	Th-232	pCi/g	1.2	1.5	0.91	0.84	1.0	1.2	0.79	0.64	1.3	0.98	1.3	0.85	1.1	1.4 ^c	1.10	1.18	1.06	0.97	0.80	0.71
C007	Total U ^b	pCi/g	<2.6 ^a	<2.0 ^a	1.3	1.2	2.4	6.0	0.90	0.99	2.8	1.6	2.1	1.9	2.0	2.3 ^c	1.43	2.31	1.92	2.59	2.16	1.72
	Ra-226	pCi/g	1.1	0.99	1.2	1.6	1.1	1.3	1.4	1.5	1.1	1.5	1.3	1.5	1.9	1.1 ^c	1.14	1.42	1.10	1.31	1.4	1.40
	Ra-228	pCi/g	0.95	0.73	0.85	0.74	0.85	0.95	1.1	0.90	0.87	0.90	0.99	0.87	0.79	0.84	0.69	0.89	0.77	0.77	0.82	0.73
	Th-228	pCi/g	1.9	1.5	1.6	1.1	1.4	1.5	2.1	1.4	0.79	1.2	1.2	1.0	1.2	1.5 ^c	0.73	0.67	1.08	0.66	1.00	0.78
	Th-230	pCi/g	5.8	9.3	2.8	4.7	2.8	4.2	2.0	3.5	5.6	2.9	3.8	2.8	19	4.6 ^c	3.81	3.56	3.56	2.27	2.63	4.43
	Th-232	pCi/g	0.95	1.1	1.1	0.74	0.79	0.66	1.4	0.94	0.98	1.4	1.1	0.84	1.2	0.83 ^c	0.55	0.72	1.00	0.57	1.04	0.72

^a Reported result is less than the MDC and is therefore set equal to the MDC.

^b Total U is equal to the sum of the concentrations of U isotopes (Office of the Federal Register, NARA 1998).

^c Both gamma-spec and alpha-spec results produced, for Table 3-11 gamma-spec results reported.

^d The 7.3 pCi/g value for total U obtained on 10/07 from C004 was a typographical error and the result should be reported as 1.3.

Table 3-12. Chemical Results for CY 2010 Coldwater Creek Sediment Sampling

Monitoring Parameter	Monitoring Stations					
	C002	C003	C004	C005	C006	C007
Target Analyte List Metals Concentration (milligrams per kilogram [mg/kg])						
First Sampling Event (March 29, 2010)						
Antimony	<1.1 ^a	<0.96 ^a	<1.1 ^a	<1.1 ^a	<0.96 ^a	<1.3 ^a
Arsenic	3.5	6.7	4.3	10.5	1.5	3.6
Barium	46.2	195	149	281	114	137
Cadmium	3.3	1.6	0.57	<0.88 ^a	0.19	0.46
Chromium	20.8	29.8	23.6	20.5	15.0	16.0
Molybdenum	5.8	0.83	<0.55 ^a	<0.55 ^a	<0.47 ^a	<0.63 ^a
Nickel	14.9	17.1	16.2	22.0	13.2	14.5
Selenium	<0.48 ^a	<0.43 ^a	<0.50 ^a	<0.51 ^a	<0.43 ^a	<0.58 ^a
Thallium	<2.5 ^a	<2.3 ^a	<2.6 ^a	<2.6 ^a	<2.3 ^a	<3.0 ^a
Vanadium	14.0	25.1	23.4	31.1	17.5	20.4
Second Sampling Event (October 13, 2010)						
Antimony	1.2	<0.8 ^a	<1.1 ^a	<1.0 ^a	<0.97 ^a	<1.0 ^a
Arsenic	<1.9 ^a	3.5	4.4	4.4	4.8	6.0
Barium	146	41.9	88.9	158	132	134
Cadmium	<0.3 ^a	0.19	0.43	0.36	0.33	0.59
Chromium	73.3	10.6	13.9	18.5	20.2	23.7
Molybdenum	2.0	<1.2 ^a	<1.7 ^a	<1.6 ^a	<1.5 ^a	<1.6 ^a
Nickel	12.6	18.3	16.2	15.3	15.0	16.6
Selenium	<0.61 ^a	<0.62 ^a	<0.85 ^a	<0.78 ^a	<0.76 ^a	<0.78 ^a
Thallium	<9.1 ^a	<1.9 ^a	<2.6 ^a	<2.3 ^a	<2.3 ^a	<2.4 ^a
Vanadium	13.4	7.8	18.2	18.7	19.1	21.6

^a Reported result is less than the DL and is therefore set equal to the DL.

Methodology

Total U results from surface-water and sediment samples from the six monitoring stations (C002 through C007) for 2010 were compared to the 2000 to 2004 dataset for this evaluation. Total U was selected for this evaluation because it is among the most mobile of all the radionuclide COCs present at the SLAPS.

Figure 3-5 presents qualitative trend line graphs of total U results from surface-water samples collected at monitoring stations C002 through C007 from March 2000 to October 2010. This figure also shows the mean, 95 percent upper confidence limit (UCL₉₅), and 95 percent lower confidence limit (LCL₉₅) concentrations of total U calculated from the March 2000 to March 2004 dataset.

Figure 3-6 presents qualitative trend line graphs of total U results from sediment samples collected at monitoring stations C002 through C007 from March 2000 to October 2010. This figure also shows the mean, UCL₉₅, and LCL₉₅ concentrations of total U calculated from the March 2000 to March 2004 dataset.

The total U concentration statistics for surface water and sediment in Coldwater Creek for 2000 through 2004 are presented in Table 3-13.

Table 3-13. Total U Concentration Statistics for Coldwater Creek (2000-2004)

Stations	Statistics for Total U in Surface Water March 2000 to March 2004 data (pCi/L)			Statistics for Total U in Sediment March 2000 to March 2004 data (pCi/g)		
	UCL ₉₅	Mean	LCL ₉₅	UCL ₉₅	Mean	LCL ₉₅
C002	4.2	3.1	1.9	1.7	1.4	1.1
C003	3.8	3.3	2.7	1.9	1.5	1.0
C004	4.5	3.4	2.3	2.3	1.7	1.2
C005	4.1	3.0	1.9	2.8	2.4	2.0
C006	8.2 ^a	5.0	^b	3.0	2.4	1.8
C007	4.7	3.4	0.75	2.5	1.9	1.3

^a March 2000 to March 2004 data are gamma distributed. Therefore, approximate gamma upper confidence limit (UCL) used.

^b LCL₉₅ not calculated due to gamma distributed data.

Conclusion

The data could suggest two hypotheses. First, the post-RA sampling results were not significantly below the pre-RA sampling results for downstream stations at the SLAPS (C003 through C007), so it is unlikely that total U on the SLAPS was causing a significant contribution to Coldwater Creek. The RA over time should markedly reduce the total U load in Coldwater Creek if the SLAPS were a significant contributor. While a time lag in the fate downstream could occur, the current total U concentrations are already low. Second, the RA within Coldwater Creek did not adversely impact concentrations of total U in Coldwater Creek surface water or sediment. Had the RA contributed adversely, an excessive short-term increase in total U concentrations would have been observed.

4.0 EVALUATION OF GROUND-WATER MONITORING DATA

Twenty one ground-water monitoring wells were sampled at the NC Sites during CY 2010. Ground water was sampled following protocol for individual wells and analytes and was analyzed for various radiological constituents and inorganic analytes. Static water levels were measured quarterly at the retained monitoring wells. In addition, field parameters were measured continuously during purging of the wells before sampling. The static water levels and other ground-water field parameter results for CY 2010 sampling are presented in Appendix E, Tables E-1 and E-2. Summary tables providing the NC Sites ground-water analytical sampling results for CY 2010 are found in Appendix E, Tables E-3 and E-4.

Ground-Water Guidelines

The CY 2010 ground-water monitoring data for the NC Sites are compared to the ROD ground-water monitoring guidelines listed in Tables F-1 and F-2 in Appendix F of this EMDAR. The ROD ground-water monitoring guidelines (i.e., ROD guidelines) for the NC Sites are based on requirements specified in the ROD (USACE 2005) and are further explained in Sections 4.1.1 and 4.2.1.

Stratigraphy at the North St. Louis County Sites

The stratigraphic units present at the NC sites are shown in the stratigraphic column presented in Figure 4-1. Fill and topsoil (Unit 1) overlie Pleistocene loess (Unit 2) and glaciolacustrine deposits. The glaciolacustrine sediments consist of Subunit 3T (silty clay), Subunit 3M (moderately to highly plastic clay), Subunit 3B (silty clay), and Unit 4 (clayey and sandy gravel). Beneath these unconsolidated deposits, the bedrock is composed of Mississippian limestone (Unit 6). Stratigraphic Unit 5, Pennsylvanian shale bedrock, is not present at the HISS or Futura but is found directly overlying Unit 6 under portions of the SLAPS.

4.1 LATTY AVENUE PROPERTIES

The Latty Avenue Properties include the HISS, Futura, and eight Latty Avenue VPs (VPs 01L through 06L, 40A, and Parcel 10K530087). The ground-water monitoring wells at the Latty Avenue Properties are located on or immediately adjacent to the HISS and Futura.

Stratigraphy at the Latty Avenue Properties

Four HZs (HZ-A through HZ-C, and HZ-E) have been identified at the Latty Avenue Properties. The shallow ground-water zone, HZ-A, consists of the fine-grained silts and clays of Unit 1, Unit 2, and Subunit 3T. Underlying HZ-A is HZ-B, which consists of a highly impermeable clay (Subunit 3M). HZ-C consists of silty clay, clayey silt, and clayey gravel deposits that make up the stratigraphic Subunit 3B and Unit 4. The Mississippian limestone bedrock is defined as HZ-E. HZ-E is the protected aquifer for the site. As a result of their very low permeability, Subunits 3M and 3B limit vertical ground-water movement between HZ-A and the deep ground-water zones (HZ-C and HZ-E) at the Latty Avenue Properties.

Summary of CY 2010 Ground-Water Monitoring Results at the Latty Avenue Properties

Based on an evaluation of the ground-water data at the Latty Avenue Properties, four inorganic soil COCs (arsenic, molybdenum, nickel, and vanadium) and three radiological analytes (U-234, U-238, and total U), were detected at concentrations above the ROD guidelines in HZ-A ground water at the Latty Avenue Properties in CY 2010. One of the inorganic soil COCs, arsenic in

HW22, has been above the ROD guideline for more than a period of 12 months. In addition, the three radiological COCs (U-234, U-238, and total U) have been above the ROD guidelines for more than a 12-month period in HZ-A ground water at HISS-01, based on historical data. Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water.

Based on the CY 2010 results and associated measurement errors, one well (HW23) had concentrations of U-234 (5.48 pCi/L) exceeding the ROD ground-water guideline (3.8 pCi/L) in HZ-C ground water during CY 2010. It has exceeded the ROD guideline for more than a 12-month period, based on the previous sampling result (6.9 pCi/L in August 2009). However, U-234 only slightly exceeds its ROD guideline (i.e., is within 0.1 pCi/L when measurement error is taken into account) and the total U concentration is not above the monitoring guideline of 30 µg/L. In addition, a significant degrading of Coldwater Creek surface water has not occurred. Therefore, there is currently no finding of significantly degraded ground-water conditions in HZ-C ground water. An evaluation of potential response actions is not required.

4.1.1 Evaluation of Ground-Water Monitoring Data at the Latty Avenue Properties

The ground-water monitoring data for the Latty Avenue Properties are evaluated against the requirements for ground-water monitoring identified in the ROD (USACE 2005). The ROD specifies two types of ground-water monitoring guidelines: 1) response-action monitoring guidelines and 2) a total U monitoring guideline (which is used for both response-action and long-term monitoring). Response-action monitoring of HZ-A and HZ-C is being conducted to assure that the RA does not degrade current ground-water conditions. Another purpose of the response-action ground-water monitoring of HZ-C is to document the protection of the limestone aquifer (HZ-E) during the RA.

The response-action monitoring guideline is two times the UCL_{95} , based on historical concentrations of the analyte in a particular well before RAs were initiated under the ROD. The response-action monitoring guidelines have been developed for the ROD soil COCs for each of the wells at the Latty Avenue Properties. The methodology for the development of the response-action monitoring guidelines is detailed in Appendix F of this document. The total U guideline is defined in the ROD to be equal to the total U maximum contaminant level of 30 µg/L (USACE 2005). If total U levels exceed 30 µg/L, monitoring would continue subject to a five-year review.

In addition to the above, an evaluation of concentration trends over time is conducted for the COCs detected above the ROD guidelines in ground water to support assessment of the effectiveness of the RA in the CERCLA five-year reviews.

Monitoring Well Network at the Latty Avenue Properties

The CY 2010 EMP well network for the Latty Avenue Properties is shown in Figure 4-2. No ground-water monitoring wells were decommissioned at HISS/Futura in CY 2010. However, two HISS wells, HISS-06 and HISS-05D, were damaged during remediation activities conducted at the HISS in early CY 2010. These wells will be decommissioned in early CY 2011, and a replacement well for HISS-06 (HISS-06A) will be installed. With the exception of monitoring wells HISS-05D and HW23, which are screened in HZ-C, the monitoring wells are screened in HZ-A. The screened HZs for the HISS ground-water monitoring wells are identified in Table 4-1.

Ground-water sampling was conducted at nine ground-water monitoring wells at the Latty Avenue Properties during CY 2010. First quarter sampling was conducted on March 8 and 12; second quarter sampling was conducted on May 21 and 25; third quarter sampling was conducted from September 13 through 15 and completed on September 17; and fourth quarter sampling was conducted on December 14, 15, and 17.

Table 4-1. Screened HZs for Ground-Water Monitoring Wells at the Latty Avenue Properties

Well ID	Screened HZs
HISS-01	HZ-A
HISS-05D*	HZ-C
HISS-06*	HZ-A
HISS-09	HZ-A
HISS-10	HZ-A
HISS-14	HZ-A
HISS-15	HZ-A
HISS-17S	HZ-A
HISS-18S	HZ-A
HISS-19S	HZ-A
HW21	HZ-A
HW22	HZ-A
HW23	HZ-C

*HISS-06 and HISS-05D were damaged during remediation activities conducted at the HISS in early CY 2010 and will be decommissioned in early CY 2011.

HZ-A Ground Water

Ground-water samples were collected from eight HZ-A wells during CY 2010. Summary tables presenting the analytical data for all analytes are included in Appendix E.

For response-action monitoring, the CY 2010 ground-water data were evaluated to determine if ground-water conditions have significantly degraded. Continued monitoring of HZ-A could be required long term if significantly degraded ground-water conditions are found. Based on the ROD and the EMICY10 (USACE 2010), a significantly degraded ground-water condition requires all of the following:

- 1) that soil COC concentrations have statistically increased in ground water (relative to the well's historic data and accounting for uncertainty) for more than a 12-month period. Significantly increased concentrations are defined as doubling of an individual COC concentration above the upper confidence limit (UCL) of the mean (based on the historical concentration before RA) for a period of 12 months;
- 2) that the degraded well is close enough to impact Coldwater Creek; and
- 3) that a significant degrading of Coldwater Creek surface water is anticipated.

The CY 2010 results were compared to the ROD ground-water guidelines for the soil COCs identified in the ROD (i.e., antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238). Table 4-2 lists those soil COCs with concentrations above the ROD ground-water guidelines in HZ-A ground-water samples at the Latty Avenue Properties during CY 2010.

Four inorganic soil COCs were detected at concentrations above the ROD guidelines in HZ-A ground water at the Latty Avenue Properties: arsenic (HW22), molybdenum (HISS-10, HW21,

and HW22), nickel (HISS-18S and HW22), and vanadium (HW22). The concentrations of molybdenum in HW21 and HW22 are not above the ROD guidelines when measurement error is taken into account. The concentration of molybdenum at HISS-10 was above the ROD ground-water guideline during the third quarter CY 2010 sampling event but was at nondetect levels during the previous sampling event conducted in the third quarter of CY 2009. The concentration of nickel at HISS-18S was above the ROD ground-water guideline during the fourth quarter CY 2010 sampling event but was below the ROD guideline during the previous sampling event. Therefore, concentrations of molybdenum at HISS-10 and nickel at HISS-18S have not been above the ROD ground-water guidelines for more than a period of 12 months. Although the concentrations of nickel and vanadium in HW22 were above the ROD guidelines in the first of two sampling events, they fell below the ROD guidelines in the second sampling event. The concentrations of arsenic at HW22 were above the ROD ground-water guidelines during the two sampling events conducted at HISS22 in CY 2010, as well as in the previous two 2009 sampling events. Therefore, concentrations of arsenic at HW22 have been above the ROD ground-water guidelines for more than a period of 12 months. Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water.

Table 4-2. Analytes Exceeding ROD Ground-Water Criteria in HZ-A Ground Water at the Latty Avenue Properties

Analyte	Units	Station	ROD Ground-Water Guidelines ^a	Minimum Detected	Maximum Detected	Mean Detected	# Detects > ROD Ground-Water Guidelines ^a
Arsenic	µg/L	HW22	2.4	122	128	125	2
Molybdenum	µg/L	HISS-10	5.6	23.9	23.9	23.9	1
		HW21	5.6	6.1	6.1	6.1	1
		HW22	3.4	7.3	7.5	7.4	2
Nickel	µg/L	HISS-18S	39.0	83.6	83.6	83.6	1
		HW22	7.0	3.8	8.1	6.0	1
Vanadium	µg/L	HW22	4.0	2.7	9.1	5.9	1
U-234	pCi/L	HISS-01	12	27.2	38.8	24.9	3
U-238	pCi/L	HISS-01	13	28.0	39.2	32.6	3
Total U	µg/L	HISS-01	30	84	117.8	97.9	3

^a ROD ground-water guidelines include the response-action monitoring guidelines and the total U monitoring guideline of 30 µg/L. Response-Action Monitoring Guideline = 2 x UCL₉₅, based on historical concentrations before RAs were initiated (USACE 2005). Results are reported to two significant digits.

Concentrations of the radiological COCs U-234 and U-238 were above the ROD ground-water guidelines in HZ-A ground water at the Latty Avenue Properties in CY 2010. The concentrations of U-234 and U-238 were above the ROD ground-water guidelines in HISS-01 during all three sampling events conducted at HISS-01 in CY 2010, as well as in the previous 2009 sampling events. Therefore, U-234 and U-238 have exceeded the ROD ground-water guidelines for more than a period of 12 months at HISS-01.

The ROD ground-water guidelines for total U (30 µg/L) is used for both response-action and long-term monitoring of ground water at the Latty Avenue Properties. Total U concentrations (calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide specific activities) were compared to the 30 µg/L monitoring guideline. Total U concentrations in samples collected from HISS-01 exceeded the 30 µg/L monitoring guide at the Latty Avenue

Properties during three sampling events in CY 2010. As total U also exceeded the monitoring guideline at this well during the previous 2009 sampling events, this soil COC has exceeded the ROD guideline for a period of at least 12 months. However, based on trend analysis, total U concentrations have not shown a statistically significant increase at HISS-01 from CY 1999 to CY 2010. Surface water sampling results for CY 2010, presented in Section 3.2, indicate there has not been an increase in total U concentrations in Coldwater Creek. Therefore, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water at the Latty Avenue Properties.

In summary, comparison of the data to the ROD ground-water guidelines indicate that one inorganic soil COC (arsenic) and three radiological COCs (U-234, U-238, and total U) had concentrations greater than the ROD ground-water guidelines for a period of at least 12 months. However, because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water.

HZ-C Ground Water

Ground-water samples were collected from one HZ-C well, HW23, during CY 2010. It was sampled once for radionuclides (third quarter) and once for inorganics (fourth quarter) during CY 2010. Table 4-3 lists those soil COCs with concentrations above the ROD ground-water guidelines in HZ-C ground-water samples at the Latty Avenue Properties during CY 2010. Concentrations of all inorganic soil COCs were below the ROD ground-water guidelines in HW23 during CY 2010.

One radiological COC, U-234, was above its ROD ground-water guideline in CY 2010 in ground-water samples from HW23. When measurement error is taken into account, the result is only slightly (i.e., 0.1 pCi/L) above the ROD ground-water guideline. The concentration of U-234 was also slightly above the ROD ground-water guideline in the previous sampling event for this well (August 2009). Although U-234 has been above its ROD ground-water guideline for a period of at least 12 months in HW23, the total U concentration in HW23 (calculated from the isotopic concentrations) did not exceed the total U monitoring guideline of 30 µg/L. Therefore, because COCs are not present at significantly increased concentrations and total-U concentrations are not above 30 µg/L in HZ-C, there is no finding of significantly degraded ground-water conditions in HZ-C.

Table 4-3. Analytes Exceeding ROD Ground-Water Criteria in HZ-C Ground Water at the Latty Avenue Properties

Analyte	Units	Station	ROD Ground-Water Criteria ^a	Minimum Detected	Maximum Detected	Mean Detected	# Detects > ROD Ground-Water Criteria ^a
Uranium-234	pCi/L	HW23	3.8	5.5	5.5	5.5	1

^a ROD ground-water guidelines include the response-action monitoring guidelines and the total U monitoring guideline of 30 µg/L. Response-action monitoring guideline = 2 x UCL₉₅, based on historical concentrations before RAs were initiated (USACE 2005).

Results are reported to two significant digits.

In summary, the CY 2010 HZ-C ground-water data from the Latty Avenue Properties indicate that one analyte, U-234, was detected at concentrations above its ROD ground-water guideline in HZ-C ground water and has been detected above its ROD ground-water guideline for a period of

at least 12 months. However, because the U-234 only slightly exceeds its ROD guideline (i.e., is within 0.1 pCi/L when measurement error is taken into account) and the total U concentration is not above the monitoring guideline of 30 µg/L, there is currently no finding of significantly degraded ground-water conditions in HZ-C ground water. An evaluation of potential response actions is not required.

4.1.2 Comparison of Historical Ground-Water Data at the Latty Avenue Properties

Ground-water sampling has been conducted at the Latty Avenue Properties from CY 1984 to the present. The most comprehensive ground-water monitoring program, involving sampling from 18 monitoring wells, was conducted at the site in the summer of CY 1997. Results from subsequent sampling events were used to evaluate contaminant trends at the Latty Avenue Properties during the period from the first quarter of CY 1999 to the fourth quarter of CY 2010. Statistical analysis was used to assist with identifying trends for those contaminants that exceeded the ROD ground-water guidelines during CY 2010.

Statistical Method and Trend Analysis

Several statistical methods are available to evaluate contaminant trends in ground water. These include the Mann-Kendall test, the Wilcoxon rank sum 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 test. The Mann-Kendall test was selected for this project because this test can be used with small sample sizes (as few as four data points) and because a seasonal variation in concentrations was not indicated by the time versus concentration plots at the NC Sites. The Mann-Kendall 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 detection limit (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 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 at the NC Sites where data have been collected for at least six sampling events.

The Mann-Kendall 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 test are reported in terms of a p-value or Z-score, depending on sample size, N. If the sample size is ≤ 10 , then the p-value is computed. If the p value ≤ 0.05 , the test concludes that the trend is statistically significant. If the p value is > 0.05 , the test concludes there is no evidence of a significant trend. For dataset sizes larger than 10, the Z-score is compared to ± 1.65 , which is the comparison level at a 95 percent confidence level. If the Z-score is greater than +1.65, the test concludes that a significant upward trend exists. If the Z-score is less than -1.65, the test concludes that a significant downward trend exists. For Z-scores between -1.65 and 1.65, there is no evidence of a significant trend.

The Mann-Kendall test was performed using Version 6.0 of the software package Visual Sample Plan, developed by Pacific Northwest National Laboratory (PNNL 2010). This package includes a number of statistical analysis tools, including Mann-Kendall trend analysis. The results of the Mann-Kendall test are less reliable for datasets containing a high number of nondetects, particularly if the DL changes over time. For that reason, for datasets where more than 50 percent of the time-series data is non-detect, the Mann-Kendall trend test was not conducted. The maximum percentage of non-detects has been increased from the maximum percentage allowed in the EMDARs for the years prior to 2008, which had only allowed 20 percent non-detects. There is no general consensus regarding the percentage of non-detects that can be handled by the Mann-Kendall test. However, because the Mann-Kendall test is a nonparametric test that uses relative magnitudes, not actual values, it is generally valid even in cases in which there are a large number of nondetects. A 20-percent cutoff was used previously, because the size of the historical database for many of the wells resulted in fewer than six detected results when larger cutoff values were used. The concern was that the test would give biased results if only a small number of detected results were in the database. In 2008, the non-detect frequency was increased, because several years worth of additional data are available, because the 20-percent cutoff was selected. This has resulted in greater numbers of detected results in the databases used for each well. This change allows a larger number of wells and analytes to be evaluated using the Mann-Kendall test.

Only unfiltered data were used, and split sample and QC sample results were not included in the database for the Mann-Kendall test. The Mann-Kendall test is used to evaluate the radiological data and determine trends without regard to isotopic analysis. In addition, for monitoring wells for which the Mann-Kendall test has indicated a trend (either upward or downward), another analysis is performed to determine whether the trend is due to inherent error associated with the analytical test method for each sample analysis. This methodology graphs the data and the associated error-bar for the specific constituent. Time-concentration plots for total U and nickel are provided in Figures 4-3 and 4-4, respectively.

Results of Trend Analysis for Ground Water at the Latty Avenue Properties

For those stations at which an analyte exceeded the ROD ground-water monitoring guideline at least once during the year and for which sufficient historical data were available to evaluate trends (i.e., at least six samples), statistical trend analysis was conducted to assess whether concentrations of the analyte are increasing (upward trending) or decreasing (downward trending) over time. For the purposes of this trend analysis, a statistically significant trend in concentration is defined as a trend with a confidence level greater than 95 percent. The confidence level denotes the probability that the indicated trend is an actual trend in the data, rather than a result of the random nature of environmental data.

HZ-A Ground Water

The Mann-Kendall test was performed for those wells at which analytes exceeded the ROD ground-water monitoring guidelines at least once during CY 2010, for which sufficient data was available (i.e., at least six samples were collected during the period from the first quarter of CY 1999 to the fourth quarter of CY 2010), and at which the percentage of non-detect results is \leq 50 percent. Seven analytes, (arsenic, molybdenum, nickel, vanadium, U-234, U-238, and total U) were above the ROD ground-water guidelines in HZ-A ground water at the Latty Avenue Properties during CY 2010.

Inorganics

Statistical trend analysis using the Mann-Kendall test was conducted to confirm whether concentrations of nickel are increasing or decreasing over time. The nickel concentration (83.6 µg/L) for the fourth quarter CY 2010 sample from HISS-18S is above the ROD ground-water guideline for nickel (39.0 µg/L). As shown in Table 4-4, an increasing trend in nickel concentrations was observed for HISS-18S. Figure 4-4 provides the time versus concentration plot for nickel in HISS-18S. Because the frequency of non-detected results exceeds 50 percent for arsenic (HW22), molybdenum (HISS-10, HW21, and HW22), nickel (HW22), and vanadium (HW22), a trend analysis was not conducted for these analytes.

Radionuclides

The time-versus-concentration plots shown in Figure 4-3 provide an overview of the temporal and spatial variability in the concentrations of total U in ground water at the Latty Avenue Properties. Total U concentrations were calculated using the isotopic U results in pCi/L and were converted to µg/L using radionuclide-specific activities. The reported values were used for detected and non-detected isotopic values, except in instances when the value was negative. If the reported value was negative, a value equal to zero was substituted for the result prior to calculating the total U concentration. Three radiological analytes, (U-234, U-238, and total U) were above the ROD ground-water guidelines in HZ-A well HISS-01 at the Latty Avenue Properties during CY 2010. A trend analysis was performed for the total U concentrations for HISS-01. Because the 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 unnecessary to perform a separate trend analysis for each of these isotopes. As shown in Table 4-4, a statistically significant increasing trend in total U concentrations was identified for HISS-01. Based on the time-versus-concentration plot for HISS-01 in Figure 4-3, the concentrations were relatively stable prior to 2009, and increased abruptly in February 2009. Concentrations have since declined from a high of 337 µg/L on May 29, 2009, to 84 µg/L on September 17, 2010.

Table 4-4. Results of Mann-Kendall Trend Test^a for Analytes With Concentrations Above the ROD Ground-Water Criteria in Ground Water at the Latty Avenue Properties

Analyte	Station	N ^b	Test Statistics ^c		Trend ^d
			S	Z	
Nickel	HISS-18S	11	39	3.12	Upward Trend
Total U	HISS-01	26	83	1.81	Upward Trend

^a One-tailed Mann-Kendall tests were performed at a 95-percent level of confidence.

^b N is the number of unfiltered ground-water sample results for a particular analyte at the well for the period between January 1999 and December 2010.

^c Test Statistics: S – the S-Statistic; Z – Z-score, or normalized test statistic (for datasets having N>10).

^d Trend: If N>10, the Z-score is compared to ±1.65 to determine trend significance.

HZ-C Ground Water

A sample from one HZ-C well, HW23, was above the ROD ground-water guideline for U-234 during CY 2010. However, total U concentrations did not exceed the 30 µg/L monitoring guideline in this well. A trend analysis was not conducted for U-234, because the frequency of non-detected results exceeds 50 percent. Based on the time-versus-concentration plot for total U shown in Figure 4-3, there is no trend in total U concentrations at HW23. Therefore, based on the historical data and the time-versus-concentration plots, there were no significant changes in total U concentrations in HZ-C ground water during CY 2010.

4.1.3 Evaluation of the Potentiometric Surface at the Latty Avenue Properties

Ground-water surface elevations were measured at the Latty Avenue Properties in March, May, September, and December of CY 2010. The potentiometric surface maps for HZ-A and HZ-C created from the May 21 and December 13, 2010, ground-water elevation measurements are provided in Figures 4-5, 4-6, 4-7, and 4-8. The ground-water surface elevations at the Latty Avenue Properties and the SLAPS and SLAPS VPs were mapped on the same figures because these areas are in the same ground-water flow regime.

The top of the saturated zone occurs in the low hydraulic conductivity silts and clays of stratigraphic Units 2 and 3T at the Latty Avenue Properties. The potentiometric data indicate near-radial potentiometric surface contour patterns for the HZ-A ground water at the HISS and Futura. Wells HISS-01, HISS-10, HISS-14, and HW21, located near the center of the site, have the highest potentiometric surface elevations, with lower ground-water elevations measured in the surrounding wells. At the western edge of the site, ground water in the HZ-A zone flows to the west toward Coldwater Creek. The local gradient for HZ-A ground water at the Latty Avenue Properties averaged 0.018 ft/ft during CY 2010.

The potentiometric surface of the HZ-C ground water at the Latty Avenue Properties is not well defined due to the limited data available for the deeper HZs. Based on measured ground-water elevations in two HZ-C monitoring wells at the Latty Avenue Properties (HISS-05D and HW23) and several HZ-C wells located to the southwest at the SLAPS and SLAPS VPs, the flow direction in the HZ-C ground water is generally toward the east or northeast. The local horizontal gradient for HZ-C ranged from 0.0031 ft/ft (May) to 0.0036 ft/ft (December) in CY 2010. This is an increase in the gradient from previous years, which typically averaged 0.0018 ft/ft.

4.2 ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES

Summary of CY 2010 Ground-Water Monitoring Results at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

Four soil COCs (chromium at B53W06S and B53W13S; molybdenum at B53W13S; nickel at B53W09S, B53W13S, PW43, and PW45; and total U at PW46) were above the ROD ground-water guidelines in HZ-A ground water at the SLAPS and SLAPS VPs in CY 2010. However, molybdenum at B52W13S and chromium at B53W06S do not exceed their ROD guidelines if the associated measurement errors are taken into account. Nickel concentrations at B53W13S were above the ROD ground-water guideline during all three sampling events conducted at B53W13S in CY 2010 and also were above the guideline in the previous sampling events conducted in CY 2009; therefore, nickel concentrations at B53W13S have been above the ROD ground-water monitoring guideline for a period of at least 12 months. None of the remaining inorganic soil COCs have been above the ROD guidelines for a period of at least 12 months. Total U concentrations were above the total U guideline of 30 µg/L in one HZ-A well (PW46) located at the SLAPS and have been above the guideline for a period of at least 12 months. However, based on trend analysis, concentrations of total U have not statistically increased in PW46.

Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water at the SLAPS and SLAPS VPs in CY 2010. However, because nickel and total U levels have been

above the ROD ground-water monitoring guidelines for a period of at least 12 months, monitoring will continue subject to subsequent five-year reviews.

Concentrations of two soil COCs (cadmium at PW35 and chromium at B53W01D) were above the ROD ground-water monitoring guidelines in HZ-C through HZ-E ground water at the SLAPS and SLAPS VPs. However, cadmium does not exceed its ROD guideline in HZ-E well PW35 if the associated measurement error is taken into account. The concentration of chromium was above the ROD guideline in HZ-C well B53W01D in CY 2010. However, the chromium concentration in B53W01D was below the ROD ground-water guideline in the previous sampling event. Therefore, chromium concentrations at B53W01D did not exceed the ROD guideline for a period of at least 12 months. Because no soil COCs have statistically increased in ground water (relative to the well's historic data and accounting for uncertainty) for more than a 12-month period, there is currently no finding of significantly degraded ground-water conditions in HZ-C through HZ-E ground water at the SLAPS and SLAPS VPs.

Stratigraphy at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

Ground-water monitoring wells have been installed at the SLAPS and SLAPS VPs to characterize the site stratigraphy, ground-water chemistry, and ground-water migration pathways. In the vicinity of the SLAPS and the adjacent ballfields, surficial deposits (Unit 1) include topsoil and anthropogenic fill (rubble, scrap metal, gravel, glass, slag, and concrete) generally less than 14 ft thick (Figures 4-1, 4-9, and 4-10). Unit 2 is comprised of loess and has a thickness of 11 to 30 ft. Unit 3, which is subdivided into Subunits 3T, 3M, and 3B, consists primarily of clay and silt lakebed deposits. Each of these clayey subunits has a thickness of up to 30 ft. Unit 4 consists of clayey gravel with fine to very-fine sand and sandy gravel. This unit is interpreted to be approximately 5 to 15 ft thick and thins eastward and westward of the SLAPS. This unit is absent beneath the eastern part of the SLAPS, where the 3T, 3M, and 3B drape, or onlap, onto shale bedrock. Below Units 3 and 4 are Units 5 and 6, which consist of Pennsylvanian shale/siltstone and Mississippian limestone, respectively. Depth to bedrock ranges from approximately 55 ft on the eastern part of the SLAPS to a maximum of 90 ft toward Coldwater Creek to the west. The hydrogeologic and geologic setting at the SLAPS and SLAPS VPs is similar to that at the HISS, with one exception. The Pennsylvanian shale bedrock unit (Unit 5) present beneath portions of the SLAPS and SLAPS VPs is absent beneath the HISS.

Five HZs (HZ-A through HZ-E) are recognized beneath the SLAPS and SLAPS VPs. HZ-A consists of fill (Unit 1) and the Pleistocene, glacially related sediments of stratigraphic Unit 2, and Subunit 3T. Underlying HZ-A is HZ-B, which consists of highly impermeable clay (Subunit 3M). HZ-C consists of the stratigraphic Subunit 3B and Unit 4. The shale (Unit 5) and limestone (Unit 6) bedrock are recognized as HZ-D and HZ-E, respectively. HZ-E is the protected aquifer for the site.

The shallow (HZ-A) ground-water flow is toward Coldwater Creek under normal flow conditions. Average depths to the ground-water surface at the site range from near the ground surface during the spring months to approximately 10 ft below ground surface during the fall months. The dominant flow in HZ-A is through the more permeable Unit 2. Each of the subunits in Unit 3 has lower hydraulic conductivity than Units 1, 2, and 4. Units HZ-B and the Pennsylvanian shale, HZ-D, limit the passage of ground water vertically beneath the SLAPS and SLAPS VPs. Subunit 3M of HZ-B acts as a vertical barrier to ground-water movement under the western portion of the site. Subunit 3M is a clayey aquitard (unit resisting water passage) that effectively separates the HZ-A ground-water system from the underlying HZ-C and HZ-E. The

dominant unit to obtain water in the lower horizon is the sandy, clayey gravel of Unit 4. Unit 4 of HZ-C is used as a surrogate for HZ-E, as water movement within the Mississippian limestone is dependent upon the limestone's joint and solutioned system. In addition, the limestone has exhibited massive characteristics and is very slow to recharge.

4.2.1 Evaluation of Ground-Water Monitoring Data at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

The purpose of the ground-water monitoring conducted at the SLAPS and SLAPS VPs is specified in the ROD (USACE 2005). Response-action monitoring is currently being conducted in HZ-A and HZ-C to assess the improvement of water quality due to source removals and to document the protection of the limestone aquifer (HZ-E) during the RA.

As noted in Section 4.1.1, the ground-water monitoring data at the SLAPS and SLAPS VPs are evaluated against the requirements for ground-water monitoring identified in the ROD (USACE 2005).

In addition to the above, an evaluation of concentration trends is conducted for the COCs detected above ROD ground-water guidelines in ground water to support assessment of the effectiveness of the RA in the CERCLA five-year reviews.

Monitoring Well Network at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

The current EMP well network for the SLAPS and SLAPS VPs is shown in Figure 4-11. A summary of the HZ information for the ground-water monitoring wells located at the SLAPS and SLAPS VPs is provided in Table 4-5. HZ-A is considered the upper (or shallow) zone, while HZ-C, HZ-D, and HZ-E have been considered the lower (or deep) zone. This designation of upper and lower zones is separated at Subunit 3M of HZ-B. Fourteen wells are screened exclusively across the shallow zone (HZ-A). Four wells are screened exclusively in the lower zone across HZ-C, HZ-D, and/or HZ-E. The remaining well (PW36) is screened across both HZ-B and HZ-C.

Table 4-5. Ground-Water Monitoring Well Network at the SLAPS and SLAPS VPs

Well ID	Screened HZs			
	HZ-A	HZ-B	HZ-C	HZ-E
B53W01D			X	
B53W01S	X			
B53W06S	X			
B53W07D			X	
B53W07S	X			
B53W09S	X			
B53W13S	X			
B53W17S	X			
B53W18S	X			
B53W19S	X			
MW31-98	X			
MW32-98	X			

**Table 4-5. Ground-Water Monitoring Well Network at the SLAPS and SLAPS VPs
(Continued)**

Well ID	Screened HZs			
	HZ-A	HZ-B	HZ-C	HZ-E
PW35				X
PW36		X	X	
PW42			X	
PW43	X			
PW44	X			
PW45	X			
PW46	X			

During CY 2010, 12 ground-water wells were sampled for various parameters at the SLAPS and SLAPS VPs. Ground-water samples collected from these wells were analyzed for both radiological and inorganic constituents. Historically, radiological parameters (U-234, U-235, U-238, Ra-226, Th-228, Th-230, and Th-232) and inorganic constituents have been the main focus of the ground-water sampling. In CY 2010, ground-water sampling was conducted on March 8 and 9 (first quarter); May 24 (second quarter); September 9, 13, and 14 (third quarter); and December 14 and 15 (fourth quarter).

HZ-A Ground Water

Nine wells that were sampled at the SLAPS and the adjacent ballfields during CY 2010 are screened in HZ-A: B53W06S, B53W09S, B53W13S, MW31-98, MW32-98, PW43, PW44, PW45, and PW46. The analytical data for the CY 2010 ground-water sampling at the SLAPS and SLAPS VPs are provided in Table E-4 in Appendix E.

The CY 2010 results were compared to ROD ground-water guidelines for the soil COCs identified in the ROD (i.e., antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238). Table 4-6 lists those soil COCs exceeding the ROD ground-water guidelines in CY 2010 ground-water samples from HZ-A wells at the SLAPS and SLAPS VPs.

Three inorganic analytes (molybdenum, chromium, and nickel) were detected in HZ-A ground water at concentrations above the ROD guidelines at the SLAPS and SLAPS VPs. Molybdenum was detected in B53W13S at levels above the ROD guideline of 3.2 µg/L in the first and fourth quarter samples (4.4 µg/L and 3.4 µg/L, respectively). However, molybdenum concentrations are not above the ROD guideline in B53W13S if the associated measurement error is taken into account. Chromium was detected in B53W06S and B53W13S at concentrations above the ROD guidelines during CY 2010. However, the chromium concentration is not above its ROD guideline in B53W06S if the associated measurement error is taken into account. The chromium concentration in B53W13S was not above the ROD guideline in the previous sampling event and so did not exceed the guidelines for a period of at least 12 months. Nickel was detected in B53W09S, B53W13S, PW43, and PW45 at concentrations above the ROD guidelines during CY 2010. Nickel concentrations at PW43 and PW45 were below the ROD guidelines in the previous sampling event and so did not exceed the ROD guidelines for a period of at least 12 months. The concentration of nickel in B53W09S was above the ROD guideline in the first quarter of CY 2010 but decreased to levels below the ROD criteria in the third quarter CY 2010 sample. Nickel concentrations were above the ROD guideline in all samples collected from B53W13S in CY 2009 and CY 2010. Therefore, nickel concentrations at B53W13S have been above the ROD guideline for a period of at least 12 months. In summary, comparison of the data to the ROD

ground-water guidelines indicate that one inorganic soil COC, nickel, had concentrations greater than the ROD ground-water guideline for a period of at least 12 months. However, because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water conditions in HZ-A ground water.

Table 4-6. Analytes Exceeding ROD Ground-Water Criteria in HZ-A Ground Water at the SLAPS and SLAPS VPs

Analyte	Units	Station	ROD Ground-Water Guidelines ^a	Minimum Detected	Maximum Detected	Mean Detected	# Detects > ROD Ground-Water Guidelines ^a
Chromium	µg/L	B53W06S	47	51	51	51	1
		B53W13S	9.1	30.7	63.2	47.0	3
Molybdenum	µg/L	B53W13S	3.2	3	4.4	3.6	2
Nickel	µg/L	B53W09S	83	41	118	79.5	1
		B53W13S	38	53.1	156	106.4	3
		PW43	3.6	12.7	12.7	12.7	1
		PW45	67	88.6	88.6	88.6	1
Total U ^b	µg/L	PW46	30	484	3861	2173	2

^a ROD Ground-Water Guidelines = Response-Action Monitoring Guideline and Total U Monitoring Guideline. Response-Action Monitoring Guideline = 2 x UCL₉₅ (based on historical concentrations before RAs were initiated). Total U Monitoring Guideline = 30 µg/L (USACE 2005).

^b Total U values were calculated from isotopic concentrations in pCi/L and converted to µg/L using radionuclide specific activities. Results are reported to two significant digits.

One radiological contaminant (total U) exceeded the ROD guideline in HZ-A ground water at the SLAPS and SLAPS VPs. The total U concentrations in PW46 (converted from pCi/L to µg/L using the isotopic concentrations and radionuclide-specific activities) exceeded the 30 µg/L guideline during the first quarter and third quarter CY 2010, sampling events. The total U concentration in PW46 was 1,278 µg/L on March 9, 2010 and 161 µg/L on September 14, 2010. PW46 is an RA evaluation well that was installed at the western edge of SLAPS in April 2006. Although no ground-water sampling data is available for PW46 prior to May 18, 2006, data is available for the well previously at this location, PW38. The ROD ground-water guidelines for PW46 were developed using pre-2004 data from PW38. Based on the total U data collected in PW38 prior to its decommissioning in November 2003, the CY 2010 total U concentration at PW46 is lower than the historical concentrations reported at PW38. Based on the statistical evaluation of trends presented in Section 4.2.2, no increases in the concentrations of total U have occurred in PW46 during CY 2010. However, because the total U concentrations in PW46 have exceeded the total U guideline, monitoring will continue subject to the subsequent five-year reviews.

In summary, two inorganic contaminants, chromium (at B53W13S) and nickel (at B53W09S, B53W13S, PW43, and PW45), were above the ROD ground-water guidelines in HZ-A ground water at the SLAPS and SLAPS VPs in CY 2010 if the associated measurement errors are taken into account. Only one of these inorganic contaminants at one well, nickel at B53W13S, has been above the ROD guidelines for a period of at least 12 months. Total U concentrations were above the total U guideline of 30 µg/L in one HZ-A well (PW46) located at the SLAPS and have been above the guideline for a period of at least 12 months. However, comparison of their CY 2010 concentrations with historical well data did not indicate that significant degradation of HZ-A ground water is occurring. Because a significant degrading of Coldwater Creek surface water has not occurred, there is currently no finding of significantly degraded ground-water

conditions in HZ-A ground water at the SLAPS and SLAPS VPs in CY 2010. However, because nickel and total U levels have been above the ROD ground-water monitoring guidelines for a period of at least 12 months, monitoring will continue subject to subsequent five-year reviews.

Lower, HZ-C Through HZ-E, Ground Water

Three wells screened across lower ground water (HZ-C through HZ-E) were sampled at the SLAPS and SLAPS VPs during CY 2010: B53W01D, which is screened in HZ-C; PW36, which is screened across HZ-B and HZ-C; and PW35, which is screened in HZ-E. Table 4-7 lists those COCs that were above the ROD ground-water guidelines in CY 2010 samples from HZ-C through HZ-E ground water at the SLAPS and SLAPS VPs.

Concentrations of two soil COCs (cadmium at PW35 and chromium at B53W01D) were above the ROD ground-water guidelines in HZ-C through HZ-E ground water at the SLAPS and SLAPS VPs. However, cadmium does not exceed its ROD guideline in HZ-E well PW35 if the associated measurement error is taken into account. The concentration of chromium was above the ROD guideline in HZ-C well B53W01D in CY 2010. However, the chromium concentration in B53W01D was below the ROD ground-water guideline in the previous sampling event. Therefore, chromium concentrations at B53W01D did not exceed the ROD guideline for a period of at least 12 months. Therefore, the CY 2010 HZ-C through HZ-E ground-water data from the SLAPS and SLAPS VPs does not indicate that significant degradation of lower ground water is occurring.

Table 4-7. Analytes Exceeding ROD Ground-Water Guidelines in HZ-C through HZ-E Ground Water at the SLAPS and SLAPS VPs

Analyte	Units	Station	ROD Ground-Water Guideline ^a	Minimum Detected	Maximum Detected	Mean Detected	# Detects > ROD Ground-Water Guideline ^a
Cadmium ^b	µg/L	PW35	0.6	1.2	1.2	1.2	1
Chromium	µg/L	B53W01D	7.2	26.2	26.2	26.2	1

^a ROD Ground-Water Guidelines = Response-Action Monitoring Guideline and Total U Monitoring Guideline. Response-Action Monitoring Guideline = 2 x UCL₉₅ (based on historical concentrations before RAs were initiated). Total U Monitoring Guideline = 30 µg/L (USACE 2005).

^b Cadmium at PW35 does not exceed the ROD Ground-Water Guideline when measurement error is taken into account.

4.2.2 Comparison of Historical Ground-Water Data at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

Results of ground-water sampling conducted between CY 1998 through CY 2010 indicated that various inorganics and radionuclides have been detected above their ROD ground-water guidelines in HZ-A ground water at the SLAPS and SLAPS VPs. Statistical analysis was used to identify trends for those contaminants that exceeded these criteria during CY 2010. The statistical method used to evaluate the trends, the Mann-Kendall test, is described in Section 4.1.2. Filtered data, split samples, and field duplicates were not included in the analysis. For datasets in which 50 percent or more of the time-series data are nondetect, the Mann-Kendall trend test was not performed.

Results of Trend Analysis at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

The evaluation of historical trends for ground water at the SLAPS and SLAPS VPs focuses on those contaminants that exceeded the ROD ground-water guidelines in samples collected during

CY 2010. For those stations where an analyte exceeded these guidelines in one or more samples during CY 2010 and the historical dataset had a detection frequency greater than 50 percent and sample size of at least six, a statistical trend analysis was conducted to assess whether concentrations of the analyte are increasing (upward trending) or decreasing (downward trending) over time. For the purposes of this report, a statistically significant trend in concentration is defined as a trend with a confidence level greater than 95 percent. Because the Mann-Kendall test does not consider the effects of measurement error and does not provide any information concerning the magnitude of the trends, time-concentration plots were used to evaluate these factors.

Based on the CY 2010 ground-water monitoring data for SLAPS and the SLAPS VPs, three soil COCs (chromium, nickel, and total U) exceeded their ROD ground-water guidelines in HZ-A ground water in CY 2010, if associated measurement errors are taken into account. To aid in the evaluation of trends, time-concentration plots for chromium, nickel, and total U are provided in Figures 4-12 through 4-15. Due to the high percentage of nondetect values for nickel in PW43, the Mann-Kendall test could not be performed for this analyte. The Mann-Kendall test was performed for chromium in B53W06S and B53W13S; nickel in B53W09S, B53W13S, and PW45; and total U in PW46.

Based on the CY 2010 ground-water monitoring data for SLAPS and the SLAPS VPs, two soil COCs (cadmium and chromium) exceeded their ROD ground-water guidelines in deep (HZ-C through HZ-E) ground water in CY 2010. However, cadmium was not above its ROD guideline when the associated measurement error is taken into account. Due to the high percentage of nondetect values for chromium in B53W01D and cadmium in PW35, the Mann-Kendall test could not be performed for these analytes.

Inorganics

The Mann-Kendall test was performed for chromium (B53W13S and PW45), nickel (B53W09S, B53W13S, and PW45), and total U (PW46). The results of the Mann-Kendall tests are provided in Table 4-8. As shown in Table 4-8, a statistically significant increasing trend in nickel concentrations (i.e., a trend with a confidence level greater than 95 percent) was observed for B53W13S and B53W09S. In addition, a statistically significant increasing trend in chromium concentrations was observed for B53W13S. Because the Mann-Kendall 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 nickel and chromium in B53W13S (Figure 4-13) and nickel in B53W09S (Figure 4-14) were used to evaluate these factors. The graphs also show the best-fit trend lines based on the data scatter. The graphs indicate that the nickel concentrations at B53W09S and B53W13S during the third quarter CY 2010 sampling event decreased from higher concentrations reported in the first quarter sampling event and were not above the ROD guidelines when their associated measurement errors were taken into account.

Table 4-8. Results of Mann-Kendall Trend Test^a for Analytes with Concentrations Above ROD Criteria in Ground Water at the SLAPS and SLAPS VPs

Analyte	Station	N ^b	Test Statistics ^c			Trend ^d
			S	p	Z	
Chromium	B53W06S	11	18	---	1.33	No Trend
	B53W13S	15	56	---	2.82	Upward Trend
Nickel	B53W09S	11	27	---	2.14	Upward Trend
	B53W13S	15	53	---	2.63	Upward Trend
	PW45	10	-12	0.15	---	No Trend

Table 4-8. Results of Mann-Kendall Trend Test^a for Analytes with Concentrations Above ROD Criteria in Ground Water at the SLAPS and SLAPS VPs (Continued)

Analyte	Station	N ^b	Test Statistics ^c			Trend ^d
			S	p	Z	
Total U	PW46	11	-3	---	-0.16	No Trend

^a One-tailed Mann-Kendall tests were performed at a 95-percent level of confidence.

^b N is the number of unfiltered ground-water sample results for a particular analyte for the period between January 1999 and December 2010 for B53W06S, B53W13S, and PW45 and between May 2006 and December 2010 for PW46.

^c Test Statistics: S – the S-Statistic; p – probability of obtaining the S-statistic under null hypotheses (used if $N \leq 10$); Z – Z-score, or normalized test statistic (used if $N > 10$).

^d Trend: If $N \leq 10$, p is compared to 0.05 to determine trend significance. If $N > 10$, the Z-score is compared to ± 1.64 to determine trend significance.

--- Not applicable, see footnote “c” for explanation.

Radionuclides

A statistical evaluation of historical U concentrations has been conducted using total U concentrations. Total U values were calculated from isotopic concentrations in pCi/L and converted to $\mu\text{g/L}$ using radionuclide specific activities. Figure 4-12 provides time-versus-concentration graphs for total U for some of the wells sampled in CY 2010 at the SLAPS and SLAPS VPs. The Mann-Kendall test was performed for total U in the one HZ-A well, PW46, having levels above the 30 $\mu\text{g/L}$ ROD guideline in CY 2010. The results of the Mann-Kendall test are provided in Table 4-8. The Mann-Kendall test results indicate that there is no trend for total U in PW46. Figure 4-15 shows a graph of time versus total U concentrations for PW46. PW46 was installed in April 2006 near the former location of PW38 and is screened across the same interval. For comparison purposes, the graph of PW46 data on Figure 4-15 also shows the PW38 data collected between March 2000 and November 2003. The graph indicates that total U concentrations in PW46 have decreased from the levels reported at PW38 prior to installation of PW46.

4.2.3 Evaluation of Potentiometric Surface at the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties

Ground-water surface elevations were measured from wells at the SLAPS and SLAPS VPs in March, May, September, and December of CY 2010. Ground-water elevation contours were drawn using the May 21, 2010, and December 13, 2010, measurements to provide a comparison of the ground-water flow conditions during periods of high and low ground-water elevations, respectively. The potentiometric surface maps, shown in Figures 4-5 through 4-8, were developed for both HZ-A and HZ-C ground-water zones. The ground-water flow direction is interpreted to be perpendicular to the ground-water equipotential contours.

The ground-water flow direction at the SLAPS and adjacent SLAPS VP Investigation Area 09 in May and December CY 2010 in the HZ-A ground water is northwesterly toward Coldwater Creek (Figures 4-5 and 4-7). In the eastern portion of SLAPS, the average horizontal hydraulic gradient ranges from 0.0057 ft/ft (May 21, 2010) to 0.0055 ft/ft (December 13, 2010). The hydraulic gradient increases near Coldwater Creek, where the average horizontal gradient ranges from 0.0358 ft/ft (May 21, 2010) to 0.0271 ft/ft (December 13, 2010). The unconfined HZ-A ground water is interpreted to discharge into Coldwater Creek, which divides the HZ-A ground-water system south and east of the creek from areas north and west of Coldwater Creek. Ground-water recharge comes from three primary sources: precipitation, off-site inflow of ground water, and creek bed infiltration during high creek stage. Ground-water discharge could occur by

seepage into Coldwater Creek during low creek stage (DOE 1994). The vertical gradient varies beneath the site and is influenced by stratigraphic heterogeneity and seasonal fluctuations in recharge and evapotranspiration. Based on the May and December 2010 water level measurements, the position of the HZ-A ground-water surface averages approximately three feet higher in the corresponding shallow wells at the SLAPS and SLAPS VPs in the wet season (May) than in the dry season (December).

A review of the screened intervals in the deep wells indicates that many wells are screened across multiple lithologic units and HZs. Based on this review, the HZ-C (Units 3B and 4) potentiometric surface was determined to be a proper representation of the lower ground-water system. This review reduces the number of data points used to develop the potentiometric surface contours but results in a higher level of confidence in contouring the HZ-C potentiometric surface.

The potentiometric surface contours for the HZ-C ground water in CY 2010 are illustrated in Figures 4-6 and 4-8. The flow in HZ-C is generally east to northeast, at an average horizontal gradient of 0.0031 ft/ft in May 2010 and 0.0036 ft/ft in December 2010. A comparison of the ground-water elevations from monitoring well pairs indicates that the wells completed in HZ-A exhibit different hydraulic heads from the wells completed in HZ-C. Near Coldwater Creek, the potentiometric surface of the “confined” aquifer HZ-C (ranging in elevation between approximately 515 and 516 ft amsl) is higher than the potentiometric surface of the unconfined HZ-A zone, indicating an upward vertical gradient. In the southwestern portion of the SLAPS, the potentiometric maps indicate a downward hydraulic gradient. The large difference in hydraulic head demonstrates that the HZ-A and HZ-C ground-water zones are distinct ground-water systems with limited hydraulic connection. This is supported by the lithologic data, which indicate that a highly impermeable clay (Subunit 3M of HZ-B) and silty clay (Subunit 3B of HZ-C) separates the HZ-A ground-water system from the underlying ground-water zones. The HZ-C potentiometric surfaces do not appear to be influenced by Coldwater Creek (the creek’s thalweg is about 500 ft amsl) or by seasonal changes. These features are likely a result of the overlying clay layers limiting vertical ground-water movement.

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5.0 ENVIRONMENTAL QUALITY ASSURANCE PROGRAM

5.1 PROGRAM OVERVIEW

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

The environmental QA program provides FUSRAP with reliable, accurate, and precise monitoring data. The program furnishes guidance and directives to detect and prevent problems from the time a sample is collected until the associated data are evaluated. MDNR conducted site visits to observe the environmental monitoring activities. USEPA and MDNR regulatory oversight of sampling activities provided an additional level of QA/QC.

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

General objectives are as follows:

- To provide data of sufficient quality and quantity to support ongoing remedial efforts, aid in defining potential COCs, meet the requirements of the EMG and the SAG, and support the ROD (USACE 1999a, 2000, 2005).
- 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 NC Sites 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 NC Sites.

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 *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 structure for identified sampling/monitoring was delineated through programmatic documents such as the EMG for the NC Sites, which is an upper tier companion document to the SAG (USACE 2000). The EMICY10 document outlines the analyses to be performed at the NC Sites for various media (USACE 2010).

Flexibility to address non-periodic environmental sampling, such as 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 VII on a quarterly basis per the requirements of the Federal Facility Agreement.

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 in completing field logbooks, chain-of-custody forms, labels, and custody seals. Documentation of training and readiness were 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 Engineer Manual 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 (SAIC 2002). Data entered into the database may be flagged accordingly.

5.5 PERFORMANCE AND SYSTEM AUDITS

Performance and system audits of both field and laboratory activities are 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 EMICY documents.

5.5.1 Field Assessments

Internal assessments (audit or surveillance) of field activities (sampling and measurements) are conducted by the QA/QC Officer (or designee). Assessments include an examination of field sampling records, field instrument operating records, sample collection, handling and packaging procedures, 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 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 VII, or the State of Missouri.

5.5.2 Laboratory Audits

The onsite laboratories are subject to USACE periodic review(s) by the local USACE Chemist to demonstrate compliance with the *Department of Defense Quality Systems Manual* Version 4.2 (DOD 2010). In conjunction, blind third-party performance evaluation studies (performance audits) are participated in at least twice per year, and results are reported to the local USACE point(s) of contact. In addition, contract laboratories are required to be an accredited laboratory under the Department of Defense (DOD) Environmental Laboratory Accreditation Program (ELAP). The DOD ELAP requires an annual audit and re-accreditation every three 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 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 QA Plan. These 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 are generated and provided to the local USACE authority – these reports document the ongoing QC elements and to allow further monitoring of quality processes/status. Also, QA Plans and methodology are to follow the guidance as presented in the *Department of Defense Quality Systems Manual* (DOD 2010).

5.6 SUBCONTRACTED LABORATORY PROGRAMS

All samples collected during environmental monitoring activities were analyzed by USACE-approved laboratories. QA samples were collected for ground water and sediment, which 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 were also required to be an accredited laboratory under the DOD ELAP.

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

5.7 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

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

5.7.1 Duplicate Samples

These samples, which measure precision, were collected by the sampling teams and were submitted for analysis to the on-site laboratory or contract laboratories. The identity of duplicate samples is held blind to the analysts. 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. Precision is measured by the relative percent difference (RPD) for radiological and non-radiological analyses or the normalized absolute difference (NAD) for radiological analyses.

The non-radiological analyses RPDs are presented in Tables 5-1 and 5-2. The radiological analyses RPDs and NADs are presented in Tables 5-3 through 5-5. See Section 5.9 for the evaluation process.

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

Sample Name	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD	RPD	RPD	RPD	RPD
CWC126568 / CWC126568-1	NC	5.13	2.37	NC	NC
CWC126569 / CWC126569-1	NC	35.94	29.44	NC	12.79
CWC131372 / CWC131372-1	87.18	11.11	0.85	65.56	NC
CWC131373 / CWC131373-1	NC	5.88	19.08	53.33	104.50
HIS125884 / HIS125884-1	0.00	0.00	0.21	NC	NC
HIS127686 / HIS127686-1	NC	NC	0.88	17.82	NC
HIS130581 / HIS130581-1	NC	33.33	2.90	5.46	NC
	Molybdenum	Nickel	Selenium	Thallium	Vanadium
	RPD	RPD	RPD	RPD	RPD
CWC126568 / CWC126568-1	1.37	0.00	0.00	NC	NC
CWC126569 / CWC126569-1	NC	12.37	NC	NC	22.54
CWC131372 / CWC131372-1	3.08	6.90	28.57	33.92	NC
CWC131373 / CWC131373-1	NC	38.44	NC	NC	21.28
HIS125884 / HIS125884-1	0.63	5.31	1.63	NC	NC
HIS127686 / HIS127686-1	2.90	22.90	3.30	NC	NC
HIS130581 / HIS130581-1	4.10	0.00	6.67	37.04	NC

NC Not calculated due to one or both concentrations being below DLs.

-1 Sample Duplicate

Boldface Values exceed the control limits. Values not in boldface are within control limits.

Table 5-2. Non-Radiological Duplicate Sample Analysis – Sediment

Sample Name	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD	RPD	RPD	RPD	RPD
CWC126569 / CWC126569-1	NC	35.94	29.44	NC	12.79
CWC131373 / CWC131373-1	NC	5.88	19.08	53.33	104.50
	Molybdenum	Nickel	Selenium	Thallium	Vanadium
	RPD	RPD	RPD	RPD	RPD
CWC126569 / CWC126569-1	NC	12.37	NC	NC	22.54
CWC131373 / CWC131373-1	NC	38.44	NC	NC	21.28

NC Not calculated due to one or both concentrations being below DLs.

-1 Sample Duplicate

Boldface Values exceed the control limits. Values not in boldface are within control limits.**Table 5-3. Radiological Duplicate Sample Analysis – Ground Water**

Sample Name	Radium-226		Radium-228		Thorium-228		Thorium-230	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126568 / CWC126568-1	116.21	1.14	*	*	17.65	NC	44.31	0.34
CWC126569 / CWC126569-1	*	*	*	*	32.62	0.53	137.52	3.52
CWC131372 / CWC131372-1	NC	NA	*	*	NC	NA	NC	NA
CWC131373 / CWC131373-1	*	*	*	*	56.22	0.69	63.32	1.18
HIS125884 / HIS125884-1	NC	NA	*	*	NC	NA	NC	NA
HIS127686 / HIS127686-1	NC	NA	*	*	NC	NA	NC	NA
HIS130581 / HIS130581-1	96.12	1.33	*	*	NC	NA	20.81	NA
	Thorium-232		Uranium-234		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126568 / CWC126568-1	NC	NA	54.85	0.75	NC	NC	20.75	NA
CWC126569 / CWC126569-1	49.13	0.71	*	*	*	*	*	*
CWC131372 / CWC131372-1	NC	NA	26.90	NC	NC	NC	NC	NA
CWC131373 / CWC131373-1	41.69	0.32	*	*	*	*	*	*
HIS125884 / HIS125884-1	NC	NA	2.08	NC	0.00	NC	7.68	NA
HIS127686 / HIS127686-1	NC	NA	5.22	NC	NC	NC	56.12	0.50
HIS130581 / HIS130581-1	NC	NA	32.97	0.74	NC	NC	2.75	NA

NC Not calculated due to one or both concentrations being below DLs.

NA Not applicable; see other calculated value.

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

Boldface Values exceed the control limits. Values not in boldface are within control limits.

-1 Sample Duplicate

Table 5-4. Radiological Duplicate Sample Analysis – Sediment

Sample Name	Thorium-228		Thorium-230		Thorium-232	
	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-1	32.62	NA	137.52	3.52	49.13	NA
CWC131373 / CWC131373-1	56.22	0.69	63.32	1.18	41.69	NA

NA Not applicable; see other calculated value.

Boldface Values exceed the control limits. Values not in boldface are within control limits.

-1 Sample Duplicate

Table 5-5. Radiological Duplicate Sample Gamma Analysis – Sediment

Sample Name	Actinium-227		Americium-241		Cesium-137		Potassium-40	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-1	NC	NA	NC	NA	NC	NA	5.13	NA
CWC131373 / CWC131373-1	NC	NA	NC	NA	NC	NA	15.24	NA
	Protactinium-231		Radium-226		Radium-228		Thorium-228	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-1	NC	NA	0.66	NA	3.61	NA	3.61	NA
CWC131373 / CWC131373-1	NC	NA	20.92	NA	29.92	NA	29.92	NA
	Thorium-230		Thorium-232		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-1	23.01	NA	3.61	NA	NC	NA	49.09	NA
CWC131373 / CWC131373-1	NC	NA	29.92	NA	NC	NA	26.67	NA

NC Not calculated due to one or both concentrations being below DLs

NA Not applicable; see other calculated value..

-1 Sample Duplicate

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 radiological analytes.

The radiological analyses RPDs and NADs are presented in Tables 5-6 through 5-8. The non-radiological analysis RPDs are presented in Tables 5-9 and 5-10. The overall precision for the CY 2010 environmental monitoring sampling activities was acceptable. See Section 5.9 for the evaluation process.

Table 5-6. Radiological Split Sample Analysis – Ground Water

Sample Name	Thorium-228		Thorium-230		Thorium-232	
	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-2	*	*	*	*	*	*
CWC131373 / CWC131373-2	42.54	NA	93.40	2.89	95.84	1.33

NA Not applicable; see other calculated value.

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

Boldface Values exceed the control limits. Values not in boldface are within control limits

-2 Sample Split

Table 5-7. Radiological Split Sample Analysis – Sediment

Sample Name	Actinium-227		Americium-241		Cesium-137		Potassium-40	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-2	*	*	*	*	*	*	*	*
CWC131373 / CWC131373-2	NC	NA	NC	NA	NC	NA	4.36	NA
	Protactinium-231		Radium-226		Radium-228		Thorium-228	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-2	*	*	*	*	*	*	*	*
CWC131373 / CWC131373-2	NC	NA	0.94	NA	17.45	NA	*	*

Table 5-7. Radiological Split Sample Analysis – Sediment (Continued)

Sample Name	Thorium-230		Thorium-232		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126569 / CWC126569-2	*	*	*	*	*	*	*	*
CWC131373 / CWC131373-2	17.45	NA	*	*	NA	NA	NA	NA

NC Not calculated due to one or both concentrations being below DLs.

NA Not applicable; see other calculated value.

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

-2 Sample Split

Table 5-8. Radiological Split Sample Gamma Analysis – Sediment

Sample Name	Radium-226		Radium-228		Thorium-228		Thorium-230	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126568 / CWC126568-2	NC	NA	*	*	NC	NA	NC	NA
CWC126569 / CWC126569-2	*	*	*	*	*	*	*	*
CWC131372 / CWC131372-2	NC	NA	*	*	NC	NA	NC	NA
CWC131373 / CWC131373-2	*	*	*	*	42.54	0.68	93.40	2.89
HIS125884 / HIS125884-2	NC	NA	*	*	NC	NA	2.47	NA
HIS127686 / HIS127686-2	NC	NA	*	*	NC	NA	NC	NA
HIS130581 / HIS130581-2	NC	NA	*	*	NC	NA	104.46	0.85
	Thorium-232		Uranium-234		Uranium-235		Uranium-238	
	RPD	NAD	RPD	NAD	RPD	NAD	RPD	NAD
CWC126568 / CWC126568-2	NC	NA	41.01	0.48	NC	NA	12.81	NA
CWC126569 / CWC126569-2	*	*	*	*	*	*	*	*
CWC131372 / CWC131372-2	NC	NA	46.03	0.66	NC	NA	33.64	0.44
CWC131373 / CWC131373-2	95.84	1.33	*	*	*	*	*	*
HIS125884 / HIS125884-2	NC	NA	10.96	NA	23.56	NA	13.78	NA
HIS127686 / HIS127686-2	NC	NA	12.61	NA	NC	NA	34.88	0.42
HIS130581 / HIS130581-2	NC	NA	35.78	0.94	NC	NA	28.99	NA

NC Not calculated due to one or both concentrations being below DLs.

NA Not applicable; see other calculated value.

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

-2 Sample Split

Table 5-9. Non-Radiological Split Sample Analysis – Sediment

Sample Name	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD	RPD	RPD	RPD	RPD
CWC126569 / CWC126569-2	NC	59.26	28.92	NC	18.67
CWC131373 / CWC131373-2	NC	52.63	77.57	120.00	23.16
	Molybdenum	Nickel	Selenium	Thallium	Vanadium
	RPD	RPD	RPD	RPD	RPD
CWC126569 / CWC126569-2	NC	44.44	NC	NC	69.85
CWC131373 / CWC131373-2	NC	70.11	NC	NC	68.91

NC Not calculated due to one or both concentrations being below DLs.

Boldface Values exceed the control limits. Values not in boldface are within control limits.

-2 Sample Split

Table 5-10. Non-Radiological Split Sample Analysis – Groundwater

Sample Name	Antimony	Arsenic	Barium	Cadmium	Chromium
	RPD	RPD	RPD	RPD	RPD
CWC126568 / CWC126568-2	NC	18.18	3.92	NC	NC
CWC126569 / CWC126569-2	NC	59.26	28.92	NC	18.67
CWC131372 / CWC131372-2	103.52	20.29	15.67	NC	NC
CWC131373 / CWC131373-2	NC	52.63	77.57	120.00	23.16
HIS125884 / HIS125884-2	27.49	51.12	12.08	NC	NC
HIS127686 / HIS127686-2	NC	NC	3.57	NC	NC
HIS130581 / HIS130581-2	NC	85.71	2.79	80.94	NC
	Molybdenum	Nickel	Selenium	Thallium	Vanadium
	RPD	RPD	RPD	RPD	RPD
CWC126568 / CWC126568-2	9.84	62.69	31.58	NC	NC
CWC126569 / CWC126569-2	NC	44.44	NC	NC	69.85
CWC131372 / CWC131372-2	4.12	35.62	18.18	NC	NC
CWC131373 / CWC131373-2	NC	70.11	NC	NC	68.91
HIS125884 / HIS125884-2	0.63	151.65	6.90	NC	NC
HIS127686 / HIS127686-2	2.82	1.38	9.88	NC	NC
HIS130581 / HIS130581-2	0.42	52.10	4.72	177.58	NC

NC Not calculated due to one or both concentrations being below DLs.

Boldface Values exceed the control limits. Values not in boldface are within control limits.

-2 Sample Split

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. Because all of the monitoring wells have dedicated sampling equipment, equipment rinsate blanks were not employed to assess the effectiveness of the decontamination process, because it does not apply.

Sediment samples from Coldwater Creek are collected from each station using a clean sampling spoon. These spoons are segregated after use and decontaminated at the field barn according to Field Technical Procedure 405 *Cleaning and Decontaminating Sample Containers and Sampling Equipment* (SAIC 2000). Because the process of collecting sediment is below the surface of the water, a rinsate blank would not represent the wetted surface of the sampling spoon at the time of sample collection and, therefore, would not apply. The Coldwater Creek surface water samples are collected using new nitrile gloves and new laboratory sample containers. Therefore, equipment rinsate blanks for these samples are also not required.

5.8 DATA REVIEW, EVALUATION AND VALIDATION

All data packages received from the analytical laboratory were reviewed and either evaluated 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 USEPA regional or National Functional Guidelines or project-specific guidelines. General chemical data quality management guidance found in Engineer Regulation 1110-1-263 (USACE 1998c) 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 FUSRAP Site* (USACE 1999b). Data assessment guidance, to determine the usability of data from hazardous, toxic, and radioactive waste projects, was provided in Engineer Manual 200-1-6 (USACE 1997).

One hundred 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 that result from various QC failures; it does not determine data usability, nor does it include assignment of data qualifier flags. The data evaluation 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 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 was validated.

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

The data evaluation process considers precision, accuracy, representativeness, completeness, comparability, and sensitivity. The following sub-sections will provide detail to the particular parameters and how the data was evaluated for each with discussion and tables to present the associated data.

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

where:

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

S = Parent Sample Result
 D = Duplicate Sample Result
 U_S = Parent Sample Uncertainty
 U_D = Split Sample Uncertainty

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

The RPD is calculated for all samples for which 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 below a value of 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 through 5-5). Sample collection precision was measured in the laboratory by the analyses of duplicates. With the exception of a few outliers, which were qualified accordingly, the overall precision for the CY 2010 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 5-6 through 5-10). 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.

Representativeness expresses the degree to which data accurately and precisely represents 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 EMICY10; the sampling protocol from the SAG has been followed; and, analytical procedures were conducted within the bounds of the QAPP. The overall representativeness of the CY 2010 environmental monitoring sampling activities was acceptable for the media and the media's sampling previously listed in this document.

Comparability expresses the confidence with which one data set can be compared with 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. These most recent (post CY 1997) analytical data, however, may not be directly comparable to data collected before CY 1997 because of differences in DQOs. Some media, such as storm-water, and radiological monitoring have values that are primarily useful in the present and the comparison to historic data is not as relevant.

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 2010 environmental monitoring sampling activities, the data completeness was 100 percent (FUSRAP DQO for completeness is 90 percent).

Sensitivity is the determination of MDC values that allows the investigation to assess the relative confidence that can be placed in a value 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-radiologicals and the minimum detectable activity (MDA) for radiological analytes. The closer a measured value comes 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 spec, 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 are desired that exceed the MDC of the analyte.

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 being less than desired but adequate for interpretation.

This data can withstand scientific scrutiny, is appropriate for its intended purpose, and is technically defensible. 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 Tables 5-11 through 5-14.

Table 5-11. Non-Radiological Parent Samples and Associated Duplicate and Split Samples^a (Ground Water)

Sample Name ^b	Antimony			Arsenic			Barium			Cadmium			Chromium		
	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual
CWC126568	1.10	1.10	U	2.00	0.95	=	125.00	0.20	=	0.06	0.06	U	3.30	3.30	U
CWC126568-1	1.10	1.10	U	1.90	0.95	=	128.00	0.20	=	0.06	0.06	U	3.30	3.30	U
CWC126568-2	0.51	0.40	=	2.40	0.60	=	130.00	4.00	=	0.40	0.40	U	2.00	2.00	U
CWC126569	1.10	1.10	U	10.50	0.56	=	281.00	0.44	=	0.88	0.88	U	20.50	0.54	=
CWC126569-1	1.00	1.00	U	15.10	0.50	=	378.00	0.39	=	0.79	0.79	U	23.30	0.48	=
CWC126569-2	1.40	0.08	=	5.70	0.07	=	210.00	0.20	=	1.60	0.13	=	17.00	0.33	=
CWC131372	2.80	1.10	J	3.80	0.95	=	117.00	0.20	=	0.16	0.06	=	3.30	3.30	U
CWC131372-1	1.10	1.10	J	3.40	0.95	=	118.00	0.20	=	0.08	0.06	=	3.30	3.30	U
CWC131372-2	0.89	0.40	=	3.10	0.30	=	100.00	2.00	=	0.20	0.20	U	1.50	1.00	=
CWC131373	0.80	0.80	U	3.50	0.39	=	41.90	0.31	=	0.19	0.06	=	10.60	0.38	J
CWC131373-1	0.79	0.79	U	3.30	0.39	=	34.60	0.31	=	0.11	0.06	=	33.80	0.38	J
CWC131373-2	0.36	0.01	=	6.00	0.04	=	95.00	0.24	J	0.76	0.08	=	8.40	0.10	J
HIS125884	1.20	1.10	J	1.40	0.95	=	47.40	0.20	=	0.06	0.06	U	3.30	3.30	U
HIS125884-1	1.20	1.10	J	1.40	0.95	=	47.50	0.20	=	0.06	0.06	U	3.30	3.30	U
HIS125884-2	0.91	0.80	=	0.83	0.60	=	42.00	4.00	=	0.40	0.40	U	2.00	2.00	U
HIS127686	1.10	1.10	U	0.95	0.95	U	114.00	0.20	=	0.11	0.06	=	3.30	3.30	U
HIS127686-1	1.10	1.10	U	0.95	0.95	U	113.00	0.20	=	0.09	0.06	=	3.30	3.30	U
HIS127686-2	0.40	0.40	U	0.60	0.60	U	110.00	4.00	=	0.40	0.40	U	2.00	2.00	U
HIS130581	1.10	1.10	U	1.40	0.95	=	88.50	0.20	J	0.09	0.06	=	3.30	3.30	U
HIS130581-1	1.10	1.10	U	1.00	0.95	=	91.10	0.20	J	0.09	0.06	=	3.30	3.30	U
HIS130581-2	0.75	0.40	=	0.56	0.60	J	91.00	10.00	=	0.21	0.11	=	5.00	5.00	U
	Molybdenum			Nickel			Selenium			Thallium			Vanadium		
	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual
CWC126568	14.50	0.22	=	2.30	0.23	=	2.40	0.31	=	0.55	0.55	U	2.40	2.40	U
CWC126568-1	14.70	0.22	=	2.30	0.23	=	2.40	0.31	=	0.55	0.55	U	2.40	2.40	U
CWC126568-2	16.00	2.00	=	4.40	4.00	=	3.30	2.00	=	0.80	0.80	U	1.40	0.80	=
CWC126569	0.55	0.55	U	22.00	0.39	=	0.51	0.51	U	2.60	2.60	U	31.10	2.20	=
CWC126569-1	0.50	0.50	U	24.90	0.36	=	4.60	4.60	U	2.40	2.40	U	39.00	2.00	=
CWC126569-2	0.69	0.65	=	14.00	1.30	=	0.48	0.33	=	0.11	0.10	=	15.00	0.26	=
CWC131372	9.90	0.41	J	3.00	0.40	=	2.00	1.30	=	1.00	0.55	=	2.40	2.40	U
CWC131372-1	9.60	0.41	J	2.80	0.40	=	1.50	1.30	=	0.71	0.55	=	2.40	2.40	U

Table 5-11. Non-Radiological Parent Samples and Associated Duplicate and Split Samples^a (Ground Water) (Continued)

Sample Name ^b	Molybdenum			Nickel			Selenium			Thallium			Vanadium		
	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual
CWC131372-2	9.50	1.00	=	4.30	2.00	=	2.40	1.00	=	0.40	0.40	U	1.50	0.40	=
CWC131373	1.20	1.20	U	18.30	0.28	J	0.62	0.62	U	1.90	1.90	U	7.80	1.60	=
CWC131373-1	1.20	1.20	U	12.40	0.28	J	0.61	0.61	U	1.90	1.90	U	6.30	1.50	=
CWC131373-2	0.86	0.40	=	8.80	0.40	=	0.47	0.20	=	0.07	0.06	=	16.00	0.08	=
HIS125884	15.90	0.22	=	0.55	0.23	=	364.00	0.31	J	0.55	0.55	U	2.40	2.40	U
HIS125884-1	16.00	0.22	=	0.58	0.23	=	370.00	0.31	J	0.55	0.55	U	2.40	2.40	U
HIS125884-2	16.00	2.00	=	4.00	4.00	=	390.00	2.00	=	0.80	0.80	U	1.00	0.80	=
HIS127686	3.50	0.22	=	7.30	0.23	=	15.40	0.31	J	0.68	0.55	=	2.40	2.40	U
HIS127686-1	3.40	0.22	=	5.80	0.23	=	14.90	0.31	J	0.55	0.55	U	2.40	2.40	U
HIS127686-2	3.60	2.00	=	7.20	4.00	=	17.00	2.00	=	0.80	0.80	U	0.80	0.80	=
HIS130581	23.90	0.41	J	0.88	0.40	=	6.20	1.30	=	1.60	0.55	=	2.40	2.40	U
HIS130581-1	24.90	0.41	J	0.88	0.40	=	5.80	1.30	=	1.10	0.55	=	2.40	2.40	U
HIS130581-2	24.00	5.00	=	1.50	0.13	=	6.50	5.00	=	0.10	0.11	J	0.72	0.12	=

^a Results are expressed in µg/L.^b Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

Qual Qualifier.

= Positive result was obtained.

J When the associated value is an estimated quantity, indicating a decreased knowledge of the accuracy or precision of the reported value.

U When the material was analyzed for a COC, but it was not detected above the level of the associated value.

Table 5-12. Non-Radiological Parent Samples and Associated Duplicate and Split Samples^a (Sediment)

Sample Name ^b	Antimony			Arsenic			Barium			Cadmium			Chromium		
	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual
CWC126569	1.10	1.10	U	10.50	0.56	=	281.00	0.44	=	0.88	0.88	U	20.50	0.54	=
CWC126569-1	1.00	1.00	U	15.10	0.50	=	378.00	0.39	=	0.79	0.79	U	23.30	0.48	=
CWC126569-2	1.40	0.08	=	5.70	0.07	=	210.00	0.20	=	1.60	0.13	=	17.00	0.33	=
CWC131373	0.80	0.80	U	3.50	0.39	=	41.90	0.31	=	0.19	0.06	=	10.60	0.38	J
CWC131373-1	0.79	0.79	U	3.30	0.39	=	34.60	0.31	=	0.11	0.06	=	33.80	0.38	J
CWC131373-2	0.36	0.01	=	6.00	0.04	=	95.00	0.24	J	0.76	0.08	=	8.40	0.10	J
	Molybdenum			Nickel			Selenium			Thallium			Vanadium		
	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual	Result	DL	Qual
CWC126569	0.55	0.55	U	22.00	0.39	=	0.51	0.51	U	2.60	2.60	U	31.10	2.20	=
CWC126569-1	0.50	0.50	U	24.90	0.36	=	4.60	4.60	U	2.40	2.40	U	39.00	2.00	=
CWC126569-2	0.69	0.65	=	14.00	1.30	=	0.48	0.33	=	0.11	0.10	=	15.00	0.26	=
CWC131373	1.20	1.20	U	18.30	0.28	J	0.62	0.62	U	1.90	1.90	U	7.80	1.60	=
CWC131373-1	1.20	1.20	U	12.40	0.28	J	0.61	0.61	U	1.90	1.90	U	6.30	1.50	=
CWC131373-2	0.86	0.40	=	8.80	0.40	=	0.47	0.20	=	0.07	0.06	=	16.00	0.08	=

^a Results are expressed in µg/L.^b Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

Qual Qualifier.

= Positive result was obtained.

J When the associated value is an estimated quantity, indicating a decreased knowledge of the accuracy or precision of the reported value.

U When the material was analyzed for a COC, but it was not detected above the level of the associated value.

Table 5-13. Radiological Parent Samples and Associated Duplicate and Split Samples^a (Ground Water)

Sample Name ^b	Radium-226				Radium-228				Thorium-228				Thorium-230			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126568	0.26	0.26	0.18	J	*	*	*	*	0.33	0.30	0.18	J	0.27	0.27	0.18	J
CWC126568-1	0.99	0.58	0.47	J	*	*	*	*	0.28	0.28	0.19	J	0.42	0.35	0.19	J
CWC126568-2	0.13	0.11	0.15	U	*	*	*	*	0.07	0.25	0.58	UJ	0.10	0.35	0.78	UJ
CWC126569	*	*	*	*	*	*	*	*	0.92	0.39	0.17	J	2.24	0.68	0.09	=
CWC126569-1	*	*	*	*	*	*	*	*	1.28	0.55	0.13	J	12.10	2.72	0.25	=
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CWC131372	0.00	0.60	1.79	UJ	*	*	*	*	0.16	0.31	0.60	UJ	0.49	0.46	0.61	U
CWC131372-1	-0.10	0.21	1.25	UJ	*	*	*	*	0.37	0.44	0.68	UJ	0.60	0.56	0.78	U
CWC131372-2	0.15	0.11	0.16	U	*	*	*	*	0.11	0.16	0.25	UJ	0.04	0.12	0.24	UJ
CWC131373	*	*	*	*	*	*	*	*	0.42	0.28	0.11	J	1.09	0.47	0.21	=
CWC131373-1	*	*	*	*	*	*	*	*	0.75	0.39	0.26	J	2.10	0.71	0.22	=
CWC131373-2	*	*	*	*	*	*	*	*	0.65	0.19	0.09	J	3.00	0.46	0.07	=
HIS125884	0.06	0.11	0.15	UJ	*	*	*	*	0.22	0.31	0.53	UJ	0.29	0.29	0.19	J
HIS125884-1	0.12	0.22	0.44	UJ	*	*	*	*	0.29	0.34	0.53	UJ	0.39	0.36	0.43	U
HIS125884-2	0.14	0.10	0.13	J	*	*	*	*	0.03	0.09	0.20	UJ	0.28	0.22	0.18	J
HIS127686	-0.11	0.56	1.78	UJ	*	*	*	*	0.47	0.36	0.18	J	0.10	0.20	0.40	UJ
HIS127686-1	-0.34	0.40	1.92	UJ	*	*	*	*	0.15	0.22	0.36	UJ	0.15	0.22	0.36	UJ
HIS127686-2	0.15	0.11	0.15	=	*	*	*	*	0.01	0.12	0.26	UJ	0.18	0.14	0.14	J
HIS130581	3.05	1.22	0.98	=	*	*	*	*	0.14	0.26	0.50	UJ	0.48	0.37	0.19	J
HIS130581-1	1.07	0.85	0.99	J	*	*	*	*	0.26	0.26	0.18	J	0.59	0.43	0.48	J
HIS130581-2	0.16	0.13	0.19	U	*	*	*	*	0.09	0.11	0.17	UJ	0.15	0.12	0.06	J
	Thorium-232				Uranium-234				Uranium-235				Uranium-238			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126568	0.07	0.13	0.18	UJ	0.92	0.58	0.23	J	0.10	0.21	0.28	UJ	1.08	0.63	0.23	J
CWC126568-1	0.00	0.00	0.19	U	1.61	0.73	0.19	=	0.30	0.36	0.52	UJ	1.33	0.65	0.19	J
CWC126568-2	-0.05	0.07	0.59	UJ	1.39	0.81	0.66	J	0.11	0.27	0.56	UJ	0.95	0.64	0.29	J
CWC126569	0.65	0.32	0.09	=	*	*	*	*	*	*	*	*	*	*	*	*
CWC126569-1	1.08	0.50	0.13	=	*	*	*	*	*	*	*	*	*	*	*	*
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
CWC131372	0.00	0.00	0.22	U	0.58	0.42	0.20	J	0.00	0.00	0.24	U	0.94	0.55	0.20	J
CWC131372-1	0.00	0.00	0.25	U	0.44	0.37	0.20	J	0.00	0.00	0.25	U	0.41	0.38	0.44	U

Table 5-13. Radiological Parent Samples and Associated Duplicate and Split Samples^a (Ground Water) (Continued)

Sample Name ^b	Thorium-232				Uranium-234				Uranium-235				Uranium-238			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC131372-2	-0.02	0.05	0.19	UJ	0.93	0.32	0.21	=	0.01	0.06	0.18	UJ	0.67	0.27	0.16	=
CWC131373	0.17	0.17	0.11	J	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373-1	0.26	0.22	0.12	J	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373-2	0.48	0.16	0.06	=	*	*	*	*	*	*	*	*	*	*	*	*
HIS125884	0.11	0.22	0.43	UJ	38.80	7.03	0.16	=	1.61	0.74	0.20	=	39.20	7.08	0.16	=
HIS125884-1	0.04	0.16	0.43	UJ	38.00	6.77	0.34	=	1.61	0.72	0.19	=	36.30	6.49	0.15	=
HIS125884-2	0.00	0.04	0.11	UJ	43.30	4.70	0.30	=	2.04	0.73	0.26	=	45.00	4.80	0.10	=
HIS127686	0.13	0.19	0.18	UJ	1.18	0.63	0.43	J	0.04	0.20	0.53	UJ	0.46	0.39	0.43	J
HIS127686-1	0.03	0.13	0.36	UJ	1.12	0.72	0.59	J	0.00	0.00	0.33	U	0.83	0.61	0.58	J
HIS127686-2	-0.01	0.01	0.12	UJ	1.04	0.34	0.17	=	0.10	0.13	0.18	UJ	0.66	0.26	0.13	=
HIS130581	0.00	0.00	0.19	U	5.37	1.59	0.21	=	0.09	0.19	0.25	UJ	3.95	1.31	0.45	=
HIS130581-1	0.00	0.00	0.18	U	3.85	1.28	0.21	=	0.09	0.19	0.25	UJ	4.06	1.32	0.20	=
HIS130581-2	0.00	0.01	0.09	UJ	3.74	0.70	0.25	=	0.16	0.16	0.19	U	2.95	0.60	0.18	=

^a Results are expressed in pCi/L. Negative results are less than the laboratory system's background level.

^b Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

Qual Qualifier.

= Positive result was obtained.

J When the associated value is an estimated quantity, indicating a decreased knowledge of the accuracy or precision of the reported value.

U When the material was analyzed for a COC, but it was not detected above the level of the associated value.

UJ When the analyte was analyzed for, but it was not detected above minimum detectable value, the reported value is an estimate, indicating a decreased knowledge of the accuracy or precision of the reported value.

* Not available because sample was not analyzed.

**Table 5-14. Radiological Parent Samples and Associated Duplicate and Split Samples^a
(Sediment)**

Sample Name ^b	Thorium-228				Thorium-230				Thorium-232			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126569	0.92	0.39	0.17	J	2.24	0.68	0.09	=	0.65	0.32	0.09	=
CWC126569-1	1.28	0.55	0.13	J	12.10	2.72	0.25	=	1.08	0.50	0.13	=
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373	0.42	0.28	0.11	J	1.09	0.47	0.21	=	0.17	0.17	0.11	J
CWC131373-1	0.75	0.39	0.26	J	2.10	0.71	0.22	=	0.26	0.22	0.12	J
CWC131373-2	0.65	0.19	0.09	J	3.00	0.46	0.07	=	0.48	0.16	0.06	=
	Actinium-227				Americium-241				Cesium-137			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126569	0.10	0.12	0.18	UJ	-0.01	0.02	0.03	UJ	0.01	0.01	0.02	UJ
CWC126569-1	-0.01	0.10	0.16	UJ	0.02	0.02	0.03	UJ	0.00	0.01	0.02	UJ
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373	0.00	0.11	0.18	UJ	0.01	0.04	0.06	UJ	-0.01	0.01	0.02	UJ
CWC131373-1	-0.03	0.10	0.17	UJ	0.00	0.02	0.03	UJ	0.01	0.01	0.02	UJ
CWC131373-2	2.66	0.43	0.45	=	0.00	0.11	0.19	UJ	0.08	0.04	0.03	=
	Potassium-40				Protactinium-231				Radium-226			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126569	11.40	0.77	0.15	=	-0.03	0.30	0.46	UJ	1.52	0.38	0.04	=
CWC126569-1	12.00	0.75	0.14	=	0.17	0.29	0.46	UJ	1.51	0.37	0.04	=
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373	8.67	0.81	0.14	=	-0.09	0.34	0.47	UJ	1.07	0.28	0.04	=
CWC131373-1	10.10	0.78	0.16	=	-0.06	0.33	0.48	UJ	1.32	0.33	0.05	=
CWC131373-2	8.30	1.30	0.50	=	2.70	1.30	1.90	=	1.06	0.18	0.12	=
	Radium-228				Thorium-228				Thorium-230			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126569	0.73	0.05	0.06	=	0.73	0.05	0.06	=	4.50	2.68	3.19	J
CWC126569-1	0.71	0.05	0.05	=	0.71	0.05	0.05	=	5.67	3.48	3.11	J
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373	0.36	0.05	0.05	=	0.36	0.05	0.05	=	0.05	2.84	4.83	UJ
CWC131373-1	0.49	0.05	0.06	=	0.49	0.05	0.06	=	0.99	2.02	3.31	UJ
CWC131373-2	0.43	0.17	0.13	J	*	*	*	*	*	*	*	*
	Thorium-232				Uranium-235				Uranium-238			
	Result	Error	MDC	Qual	Result	Error	MDC	Qual	Result	Error	MDC	Qual
CWC126569	0.73	0.05	0.06	=	0.14	0.14	0.22	UJ	0.73	0.33	0.33	J
CWC126569-1	0.71	0.05	0.05	=	0.17	0.13	0.22	UJ	1.20	0.43	0.30	J
CWC126569-2	*	*	*	*	*	*	*	*	*	*	*	*
CWC131373	0.36	0.05	0.05	=	0.05	0.14	0.22	UJ	0.63	0.59	0.52	J
CWC131373-1	0.49	0.05	0.06	=	0.01	0.14	0.21	UJ	0.48	0.38	0.33	J
CWC131373-2	0.43	0.17	0.13	J	0.81	0.33	0.49	J	1.20	1.30	2.10	UJ

^a Results are expressed in pCi/g. Negative results are less than the laboratory system's background level.^b Samples ending in "-1" are duplicate samples. Samples ending in "-2" are split samples.

Qual Qualifier.

= Positive result was obtained.

J When the associated value is an estimated quantity, indicating a decreased knowledge of the accuracy or precision of the reported value.

U When the material was analyzed for a COC, but it was not detected above the level of the associated value.

UJ When the analyte was analyzed for, but it was not detected above minimum detectable value, the reported value is an estimate, indicating a decreased knowledge of the accuracy or precision of the reported value.

* Not available because sample was not analyzed.

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6.0 RADIOLOGICAL DOSE ASSESSMENT

This section evaluates the cumulative dose to a hypothetically impacted individual from exposure to radiological contaminants at the NC Sites and documents dose trends. The regulatory dose limit for members of the public is 100 mrem/yr as stated in 10 *CFR* 20.1301. Although 10 *CFR* 20.1301 is not an ARAR for the NC Sites, USACE has provided this evaluation to assess public exposures from FUSRAP cleanup operations. Compliance with the dose limit in §20.1301 can be demonstrated in one of the two following ways [§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 NC Sites FUSRAP cleanup operations does not exceed the annual dose limit (i.e., 100 mrem/yr); 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 2 of Appendix B to Part 20; and (ii) if an individual were continuously present in an unrestricted area, the dose from external sources would not exceed 2 millirem per hour.

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

Dose calculations are presented for hypothetical maximally exposed individuals at Latty Avenue Properties, the SLAPS and SLAPS VPs, and Coldwater Creek. The monitoring data used in the dose calculations are reported in the respective environmental monitoring sections of this report.

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 NC Sites FUSRAP CY 2010 Radionuclide Emissions NESHAP Report.

6.1 SUMMARY OF ASSESSMENT RESULTS AND DOSE TRENDS

- The TEDE from Latty Avenue Properties and the SLAPS and SLAPS VPs to a hypothetical maximally exposed individual from all complete/applicable pathways combined was 3.1 mrem/yr, estimated for an individual who works full time at a location approximately 50 meters west of the HISS perimeter.
- The TEDE from the SLAPS and SLAPS VPs to a hypothetical, maximally exposed individual from all complete/applicable pathways combined was <0.1 mrem/yr, estimated for an individual who works full time at a location approximately 500 meters west-southwest from the center of the SLAPS loadout area.
- The TEDE from Coldwater Creek to a hypothetical, maximally exposed individual from all complete/applicable pathways combined was 0.2 mrem/yr, estimated for a youth spending time as a recreational user of Coldwater Creek.

Figure 6-1 documents annual dose trends from CY 2000 to CY 2010 at the NC Sites. Figure 6-2 provides a comparison of the maximum annual dose from CY 2000 to CY 2010 at each of the NC Sites to the annual average background dose of 300 mrem/yr.

6.2 PATHWAY ANALYSIS

Table 6-1 lists the six complete pathways for exposure from 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 site. Of the six complete pathways, four were applicable in CY 2010 and were thus incorporated into radiological dose estimates.

Table 6-1. Complete Radiological Exposure Pathways for the NC Sites

Exposure Pathway	Pathway Description	Applicable to CY 2010 Dose Estimate		
		SLAPS	HISS	Coldwater Creek
Liquid A	Ingestion of ground water from local wells down-gradient from the site.	N	N	N
Liquid B	Ingestion of fish inhabiting Coldwater Creek.	NC	NC	N
Liquid C	Ingestion of surface water ^a and sediments.	NC	NC	Y ^b
Airborne A	Inhalation of particulates dispersed through wind erosion and RAs.	Y	Y	NC
Airborne B	Inhalation of Rn-222 and decay products emitted from contaminated soils/wastes.	Y	Y	NC
External	Direct gamma radiation from contaminated soils/wastes.	Y	Y	N

^a Surface water includes storm-water run-off from NC Sites, MSD discharges, and the water in Coldwater Creek.

^b The pathway is only applicable to a recreational receptor (youth) exposed to contaminants present in Coldwater Creek water and sediments. Data from NC Sites storm-water discharges and MSD discharges are not applicable to the hypothesized recreational receptor; therefore, that data is not evaluated in this section.

NC Not a complete pathway for the respective site.

N 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 whether a potential for exposure was present during CY 2010. If this is the case, the pathway is termed applicable. Only applicable pathways are considered in estimates of dose.

Table 6-1 shows the pathways that are applicable to the CY 2010 dose estimates for NC Sites including Coldwater Creek. The pathways that are not complete were not considered in the dose assessment and are only listed in Table 6-1 because they were complete for at least one receptor location. The pathways listed as not applicable were not applicable in CY 2010 for the following reasons:

- Liquid A is not applicable 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 NC Sites (DOE 1994).

- Liquid B is not applicable at Coldwater Creek or for the SLAPS transient receptor, because it is unlikely that a game fish would be caught and eaten by the receptor. A survey was conducted, and 97 percent of the fish collected at Coldwater Creek during the survey (Parker and Szlemp 1987) were fathead minnows.
- The dose equivalent from Coldwater Creek to the receptor from contaminants in the water/sediment was estimated by using the Microshield Version 5.03 computer-modeling program. The scenario used was a youth playing in the creek bed (1 ft of water shielding and dry) for 52 hours per year. The highest estimated whole body dose to the youth was 0.3 microrem per year. Therefore, the external gamma pathway (from contaminants in the creek water/sediment) is not applicable for the Coldwater Creek receptor, because the gamma dose rate emitted from the contaminants is indistinguishable from background gamma radiation.

6.3 EXPOSURE SCENARIOS

Dose calculations were performed for maximally exposed individuals at critical receptor locations for applicable exposure pathways (see Table 6-1) to assess dose due to radiological releases from the NC Sites. First, conditions were set to determine the TEDE to a maximally exposed individual at each of the main site locations (Latty Avenue Properties and the SLAPS and SLAPS VPs). Because several SLAPS VPs where excavation occurred are near the HISS, a single maximally exposed individual was selected for determination of TEDE from Latty Avenue Properties and those SLAPS VPs. A second dose equivalent for Coldwater Creek was calculated. A third 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 here. 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 NC Sites. 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.

All ingestion calculations were performed using the methodology described in International Commission on Radiation Protection Reports 26 and 30 for a 50-year committed effective dose equivalent (CEDE). Fifty-year CEDE conversion factors were obtained from the USEPA *Federal Guidance Report*, No. 11 (USEPA 1989b).

6.4 DETERMINATION OF TOTAL EFFECTIVE DOSE EQUIVALENT FOR EXPOSURE SCENARIOS

TEDE for the exposure scenarios were calculated using CY 2010 monitoring data. Calculations for dose scenarios are provided in Appendix G. Dose equivalent estimates are well below the standards set by the Nuclear Regulatory Commission for annual public exposure and USEPA NESHAP limits.

The CY 2010 TEDEs for hypothetical maximally exposed individuals near the Latty Avenue Properties, the SLAPS and SLAPS VPs, and Coldwater Creek are 3.1 mrem/yr, <0.1 mrem/yr, and 0.2 mrem/yr, respectively. In comparison, the annual average exposure to natural background radiation in the United States results in a TEDE of approximately 300 mrem/yr (Beir 1990). Assumptions are detailed in the following sections.

6.4.1 Radiation Dose Equivalent from Latty Avenue Properties and the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties to a Maximally Exposed Individual

The Latty Avenue Properties contributing to dose (i.e., those properties where remedial action occurred in CY 2010) include: the HISS, Futura, and VP-02(L). Additionally, the following SLAPS VPs are included in this dose calculation, because they were located closer to the Latty Avenue receptors than the SLAPS receptors: Hazelwood Avenue (including VP-53) and VPs 54 and 55. This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent the Latty Avenue Properties and the SLAPS and SLAPS VPs and receive a radiation dose by the exposure pathways identified above. A full-time-employee business receptor was considered to be the maximally exposed individual from Latty Avenue Properties and the SLAPS and SLAPS VPs. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent.

The exposure scenario assumptions are as follows:

- Exposure to radiation from all Latty Avenue Properties and the SLAPS and SLAPS VPs sources occurs to the maximally exposed individual while working full-time outside at the receptor location facility located approximately 50 meters west of the HISS perimeter. Exposure time is 2,000 hours per year (SAIC 2011b).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the site perimeter between the source and the receptor. The site is assumed to represent a line-source to the receptor.
- Exposure from airborne radioactive particulates was calculated using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP-88 PC modeling code to calculate dose to the receptor (SAIC 2011b).
- Exposure from Rn-222 (and progeny) was calculated using a dispersion factor and Rn-222 (alpha track) monitoring data at the site perimeter between the source and the receptor (SAIC 2011b).

Based on the exposure scenario and assumptions described above, a maximally exposed individual working outside at the receptor location facility 50 meters west from the HISS perimeter received less than 0.1 mrem/yr from external gamma, 3.0 mrem/yr from airborne radioactive particulates, and 0.1 mrem/yr from Rn-222 for a TEDE of 3.1 mrem/yr (SAIC 2011b).

6.4.2 Radiation Dose Equivalent from St. Louis Airport Site/St. Louis Airport Site Vicinity Properties to a Maximally Exposed Individual

The SLAPS and SLAPS VPs contributing to dose (i.e., those properties where remedial action occurred in CY 2010) include: Hazelwood Avenue (including VP-53), VPs 54 and 55, McDonnell Boulevard, VPs 05 and 06, VP-12, VP-63, and the SLAPS loadout. The following

SLAPS VPs were in closer proximity to the Latty Avenue Properties receptors than to the SLAPS receptors: Hazelwood Avenue (including VP-53) and VPs 54 and 55. Therefore, the doses due to air particulate emissions from these sites were included in the Latty Avenue Properties dose evaluation. This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent the perimeter of the SLAPS and SLAPS VPs and receive a radiation dose by the exposure pathways identified above. No private residences are adjacent to the site. 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 SLAPS and SLAPS VPs.

The exposure scenario assumptions are as follows:

- Exposure to radiation from all SLAPS sources occurs to the maximally exposed individual while working full time outside at the receptor location facility located approximately 500 meters west-southwest from the center of the SLAPS loadout area. Exposure time is 2,000 hours per year (SAIC 2011c).
- Exposure from external gamma radiation was calculated using environmental TLD monitoring data at the perimeter between the source and the receptor. The site is assumed to represent a line-source to the receptor.
- Exposure from airborne radioactive particulates was calculated using soil concentration data and air particulate monitoring data to determine a source term and then running the CAP-88 PC modeling code to calculate dose to the receptor (SAIC 2011c).
- Exposure from Rn-222 (and progeny) was calculated using a dispersion factor and Rn-222 (alpha track) monitoring data at the site perimeter between the source and the receptor (SAIC 2011c).

Based on the exposure scenario and assumptions described above, a maximally exposed individual working outside at the receptor facility 500 meters west-southwest of the center of the SLAPS loadout area received less than 0.1 mrem/yr from external gamma, less than 0.1 mrem/yr from airborne radioactive particulates, and less than 0.1 mrem/yr from Rn-222 for a TEDE of less than 0.1 mrem/yr (SAIC 2011c).

6.4.3 Radiation Dose Equivalent from Coldwater Creek to a Maximally Exposed Individual

This section discusses the estimated TEDE to a hypothetical maximally exposed individual assumed to frequent Coldwater Creek and receive a radiation dose by the exposure pathways identified above. The assumed scenario is for a recreational user. Therefore, all calculations of dose equivalent due to the applicable pathway assume a realistic residence time that is less than 100 percent. A youth spending time as a recreational user of Coldwater Creek is considered to be the maximally exposed individual from Coldwater Creek.

The exposure scenario assumptions are as follows:

- The youth spends two hours at Coldwater Creek during each visit, and visits once every two weeks. It is likely that activity would be greater in summer and less in winter, but the yearly average is 26 visits.

- The soil/sediment ingestion rate is 50 milligrams per day, and water ingestion rate is two liters per day (USEPA 1989c).
- The UCL_{95} of the mean radionuclide concentrations in Coldwater Creek surface water/sediment samples taken in CY 2010 were assumed to be present in the water/sediment ingested by the maximally exposed individual (SAIC 2011d).
- Dose equivalent conversion factors for ingestion are: Total U, $2.50E-5$ millirem per picocurie (mrem/pCi); Ra-226, $1.33E-3$ mrem/pCi; Ra-228, $1.44E-3$ mrem/pCi; Th-228, $3.96E-4$ mrem/pCi; Th-230, $5.48E-4$ mrem/pCi; and Th-232, $2.73E-3$ mrem/pCi (USEPA 1989b).

Based on the exposure scenario and assumptions described above, a maximally exposed individual using Coldwater Creek for recreational purposes received less than 0.1 mrem/yr from soil/sediment ingestion, and 0.2 mrem/yr from water ingestion for a TEDE of 0.2 mrem/yr (SAIC 2011d).

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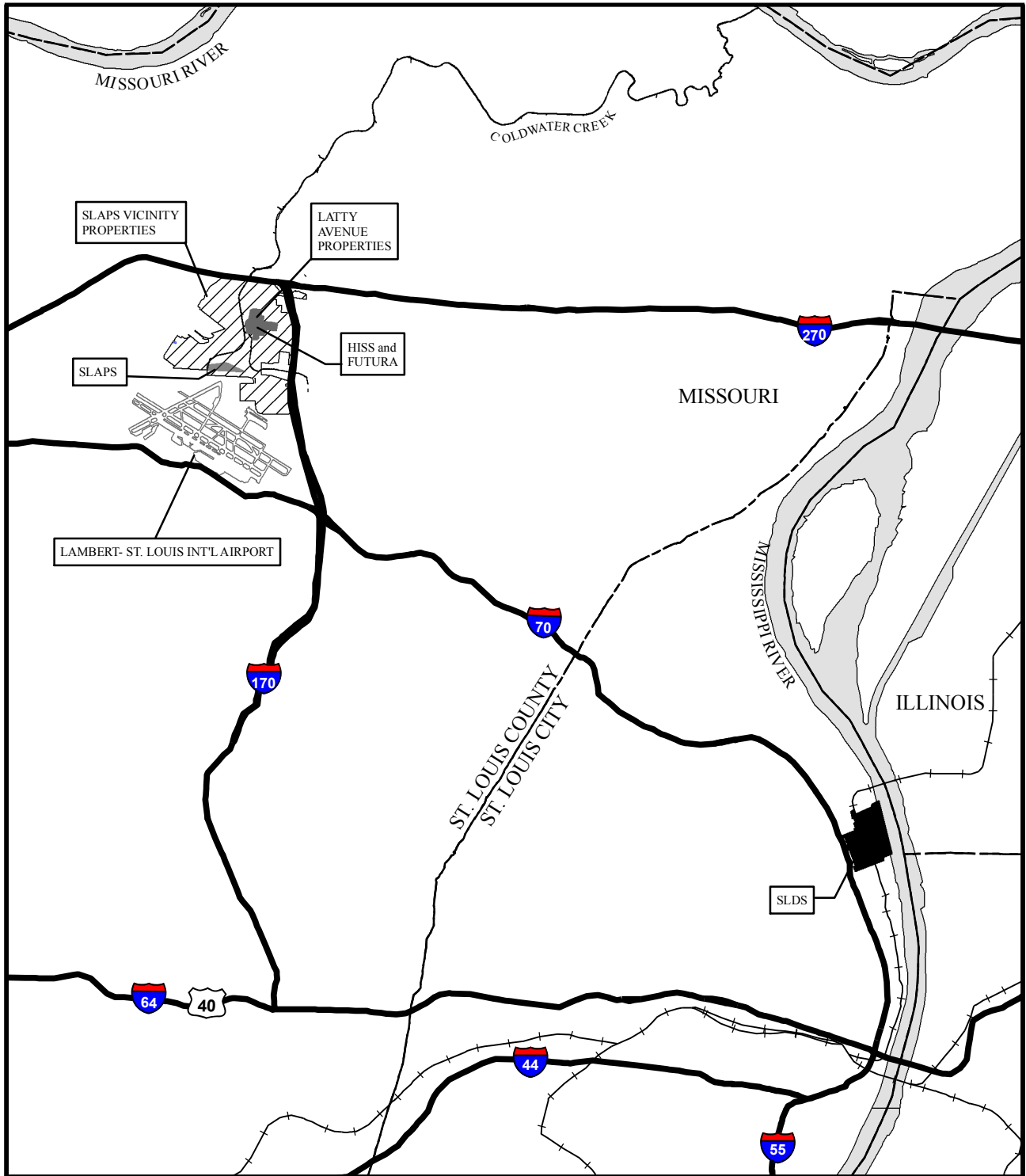
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- 10 CSR 20-7.031, *Water Quality Standards*.
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FIGURES

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LEGEND:

- Interstate
- US Highway
- Railroad
- North St. Louis County Sites ROD Boundary
- Airfield
- SLDS ROD Boundary
- River/Stream

MO-East State Plane
(NAD 83, Feet)

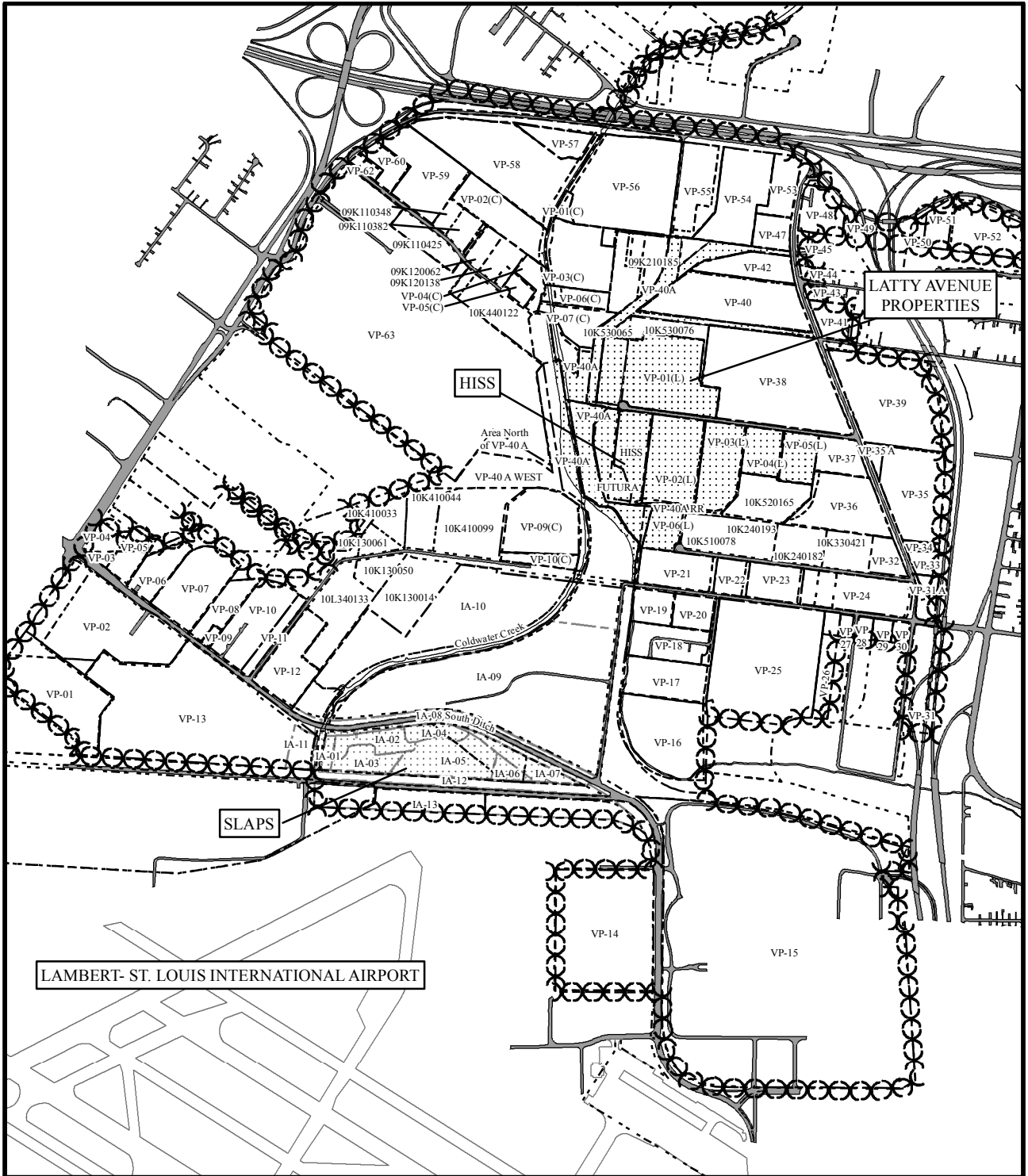
0 5,000 10,000 Feet

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

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U:\GPS\EMD\AR\NCO Projects\FY2011\Rev0\Figure 1-2 Plan View of the SLAPS and SLAPS VPs.mxd



LEGEND:

- Road
- Parcel Boundary
- ROD Boundary
- Airfield
- General Location of SLAPS and Latty Avenue Properties
- Investigation Areas
- River/Stream



MO-East State Plane
(NAD 83, Feet)

0 750 1,500 Feet

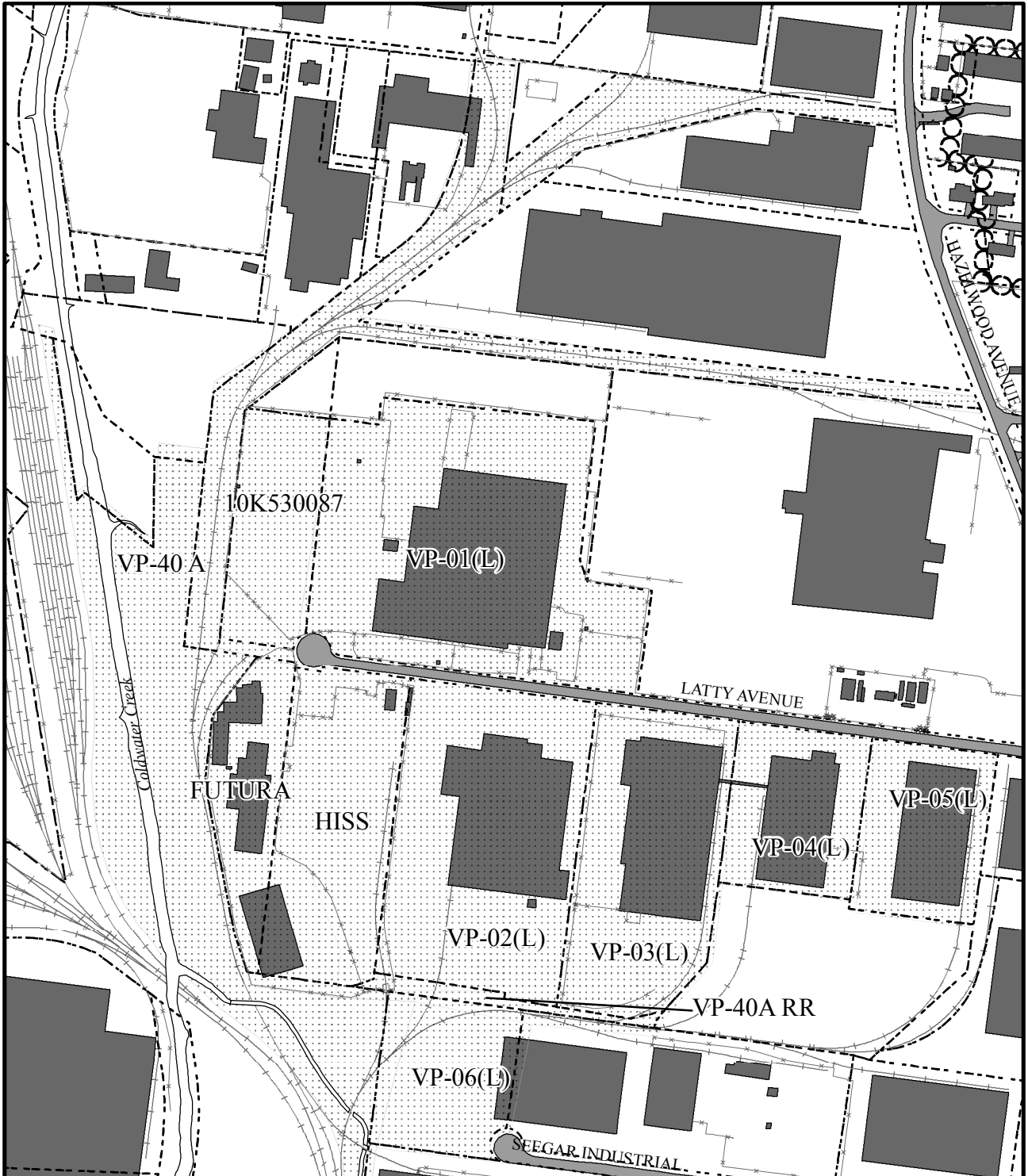


Figure 1-2.
Plan View of the
SLAPS, SLAPS VPs,
and Latty Avenue Properties









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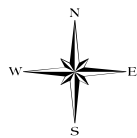
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U:\GPS\EMD\ARINCO Projects\FY2011\Rev0\Figure 1-3 Plan View of the Latty Avenue VPs including HISS and Futura.mxd



LEGEND:

-  Parcel Boundary
-  Latty Avenue Properties
-  ROD Boundary
-  Buildings
-  Road
-  Fence
-  Railroad
-  River/Stream



MO-East State Plane
(NAD 83, Feet)

0 265 530 Feet

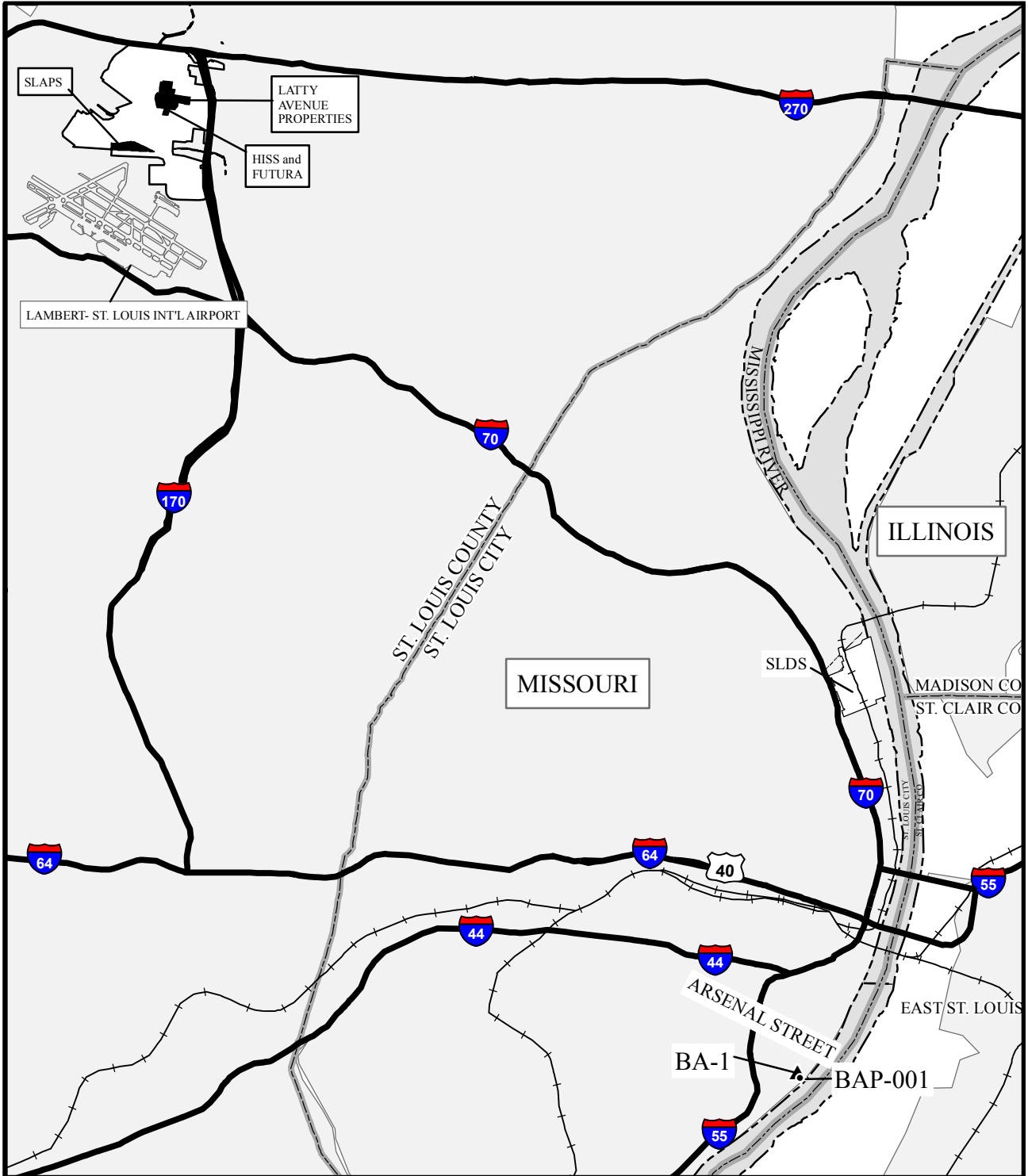


Figure 1-3. Plan View of the Latty Avenue Properties including HISS and Futura

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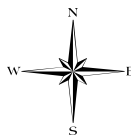
U:\GPS\EMDAR\NCO Projects\FY2011\Rev0\Figure 2-1 Gamma Radiation, Rn, and Particulate Air Monitoring at St. Louis Background Location.mxd



LEGEND:

- +— Railroad
- Roads
- US Highway
- River/Stream
- State/County Boundary

- BA = Background monitoring for external gamma (TLD) and radon monitor (alpha track)
- ▲ BAP = Background air particulate monitor



MO-East State Plane
(NAD 83, Feet)

0 4,700 9,400 Feet

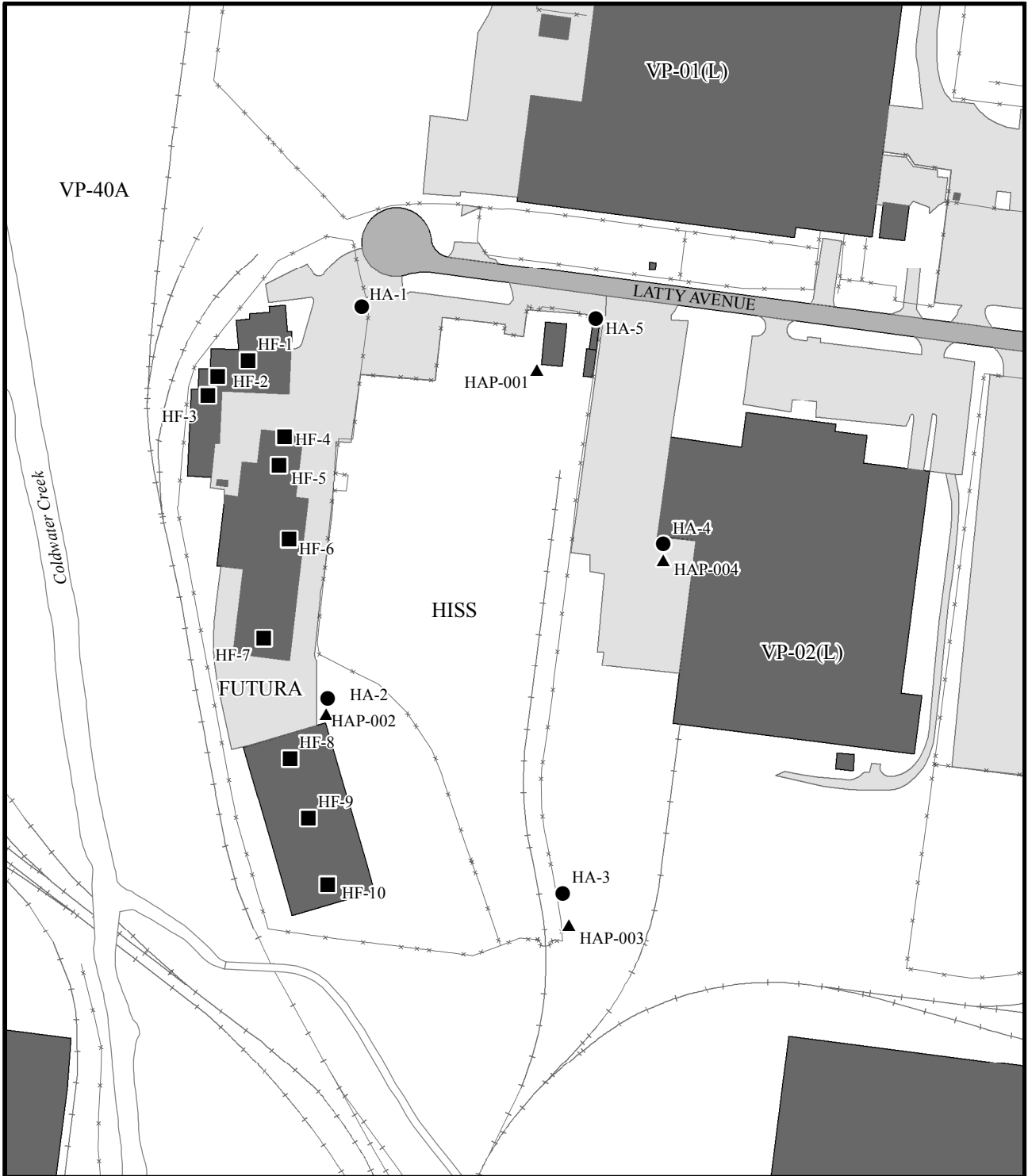


Figure 2-1. Gamma Radiation, Rn, and Particulate Air Monitoring at St. Louis Background Location - USACE Service Base

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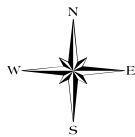
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U:\GPSEMD\ARINCO Projects\FY2011\Rev-0\Figure 2-2 Gamma Radiation, Rn, and Particulate Air Monitoring Locations at the Latty Avenue Properties.mxd



LEGEND:

- Buildings
- Parking Lots
- Road
- River/Stream
- Fence
- Railroad
- HA= HISS AIR MONITORING FOR EXTERNAL GAMMA (TLD) AND RADON MONITOR (ATD)
- HAP= HISS AIR PARTICULATE MONITOR
- HF= FUTURA INDOOR AIR MONITORING FOR RADON MONITOR (ATD)



MO-East State Plane
(NAD 83, Feet)

0 110 220 Feet

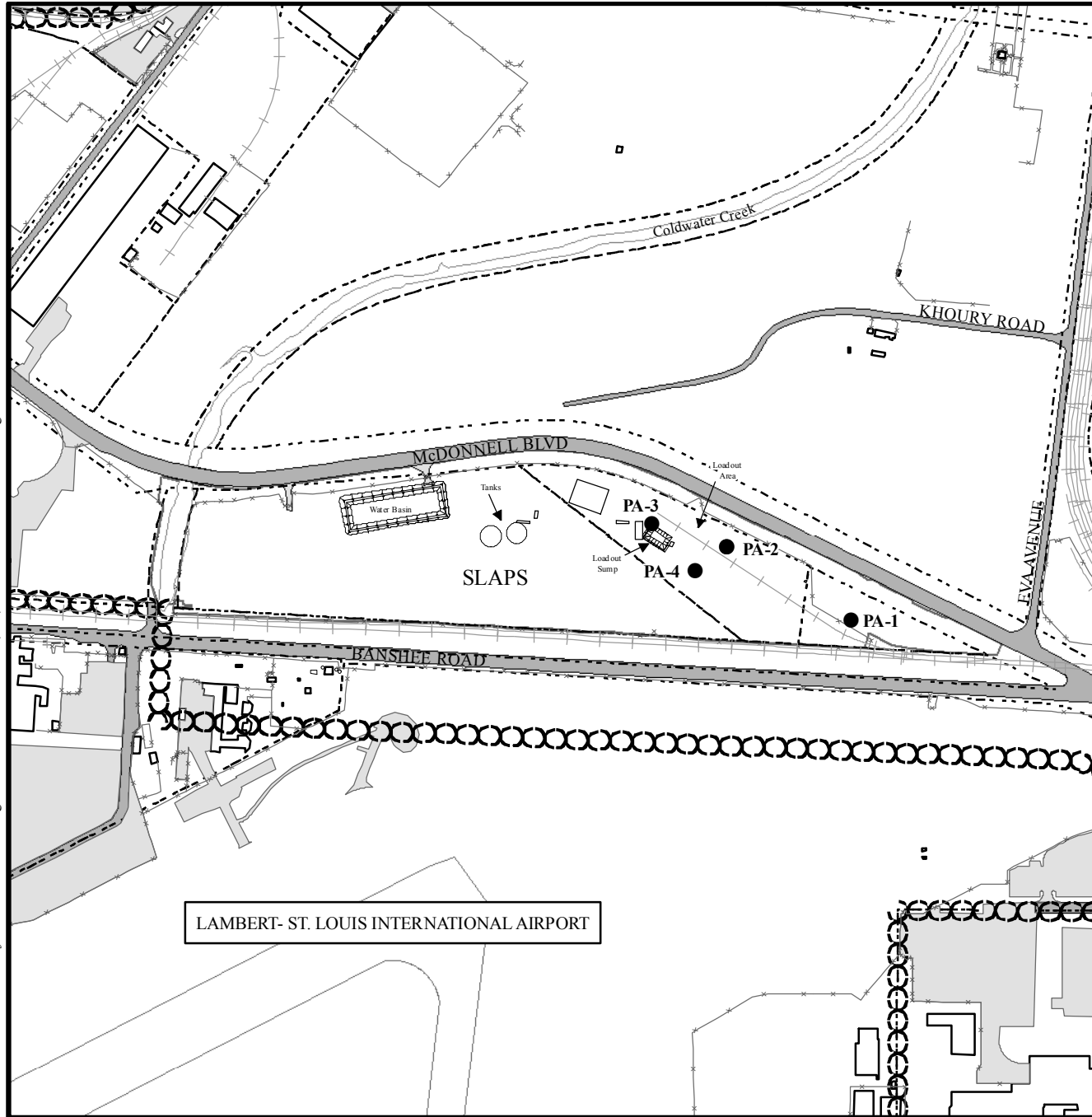


Figure 2-2. Gamma Radiation, Rn, and Particulate Air Monitoring Locations at the Latty Avenue Properties

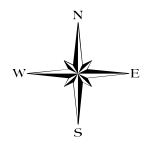
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U:\GPS\EMD\AR\NCO Projects\FY2011\Rev0\Figure 2-3 Gamma Radiation, Rn, and Particulate Air Monitoring Locations at the SLAPS and SLAPS VPs.mxd



- LEGEND:
- ROD Boundary
 - Parcel Boundary
 - Building/Tank
 - Parking Lot
 - Road
 - River/Stream
 - Fence
 - Railroad
 - PA= SLAPS Air Monitoring for External Gamma (TLD) and Rn-222 (ATD)



MO-East State Plane
(NAD 83, Feet)

0 195 390 Feet

LAMBERT- ST. LOUIS INTERNATIONAL AIRPORT

Figure 2-3. Gamma Radiation and Rn Monitoring Locations at the SLAPS and SLAPS VPs

FUSRAP

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U:\GPS\EMD\AR\NCO Projects\FY2011\Rev0\Figure 3-1 MDS Discharge Point for Waste Water from the HISS Laboratory.mxd



LEGEND:

- MSD Manhole (Discharge Point)
- - - Parcel Boundary
- X ROD Boundary
- Parking Lots
- ▬ Road
- Buildings
- x- Fence
- + Railroad



MO-East State Plane
(NAD 83, Feet)

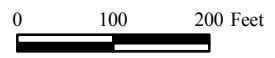
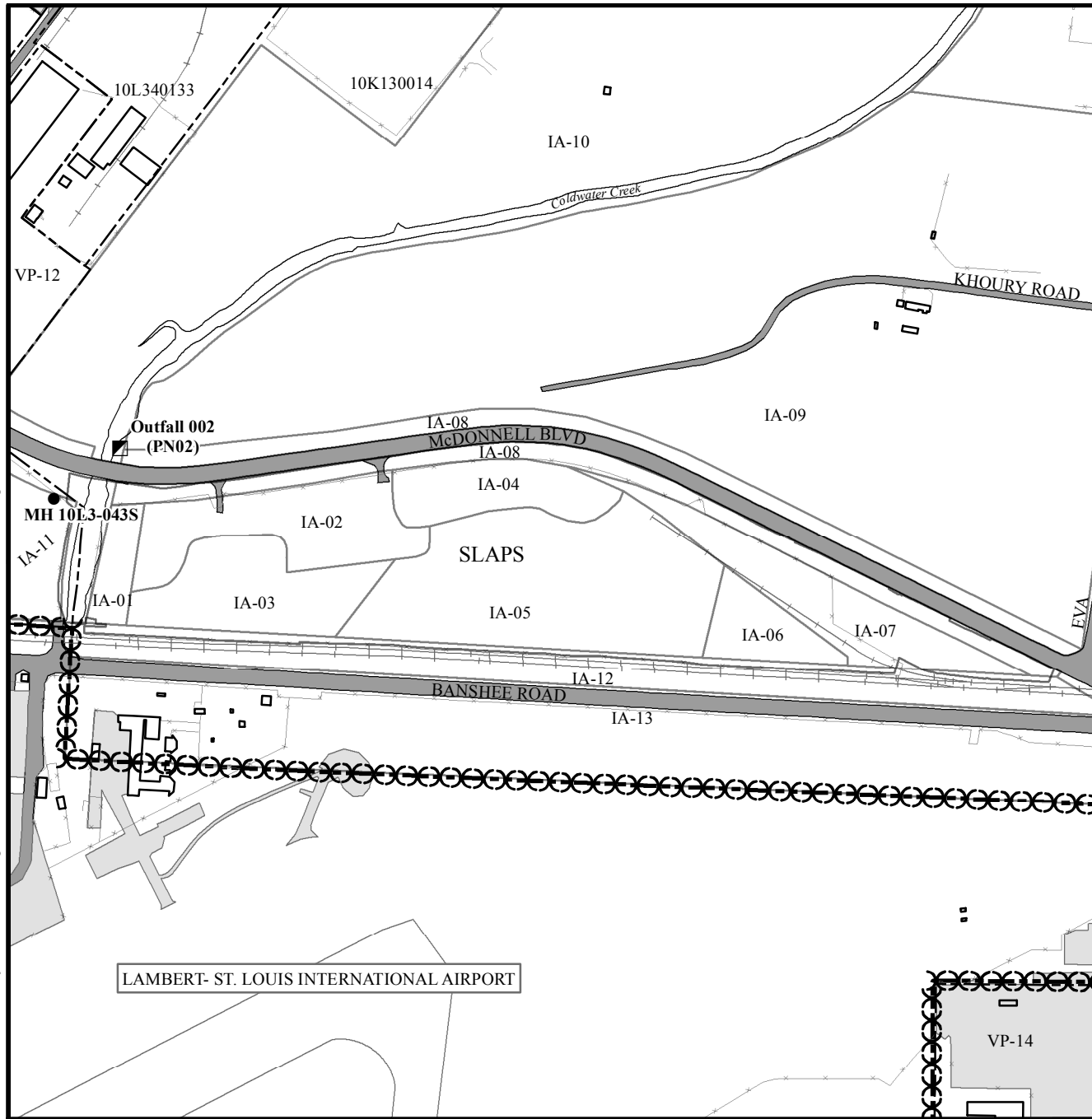


Figure 3-1.
MDS Discharge Point for Waste
Water from the HISS Laboratory



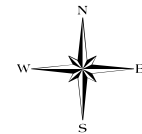
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LEGEND:

- Buildings
- ▭ Parking Lots
- ▬ Road
- x- Fence
- + Railroad
- ⊗⊗ ROD Boundary
- MSD Manhole (Discharge Point)
- ▣ NPDES Storm-Water Outfall Locations
- ▭ River/Stream



MO-East State Plane
(NAD 83, Feet)

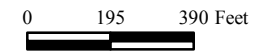


Figure 3-2. Storm-Water Outfall and MSD Excavation-Water Discharge Point at the SLAPS

FUSRAP

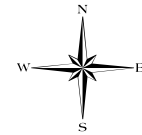
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U:\GPS\EMDAR\NCO Projects\FY2011\Rev0\Figure 3-3 Excavation - Water Discharge Stations at the HISS.mxd



LEGEND:

- Buildings
- Parking Lots
- ▨ Road
- x- Fence
- + Railroad
- ▭ River/Stream
- - - Parcel Boundary
- Metropolitan St. Louis Sewer District (MSD) Waste- Water Discharge Location



MO-East State Plane
(NAD 83, Feet)

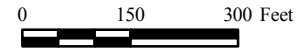
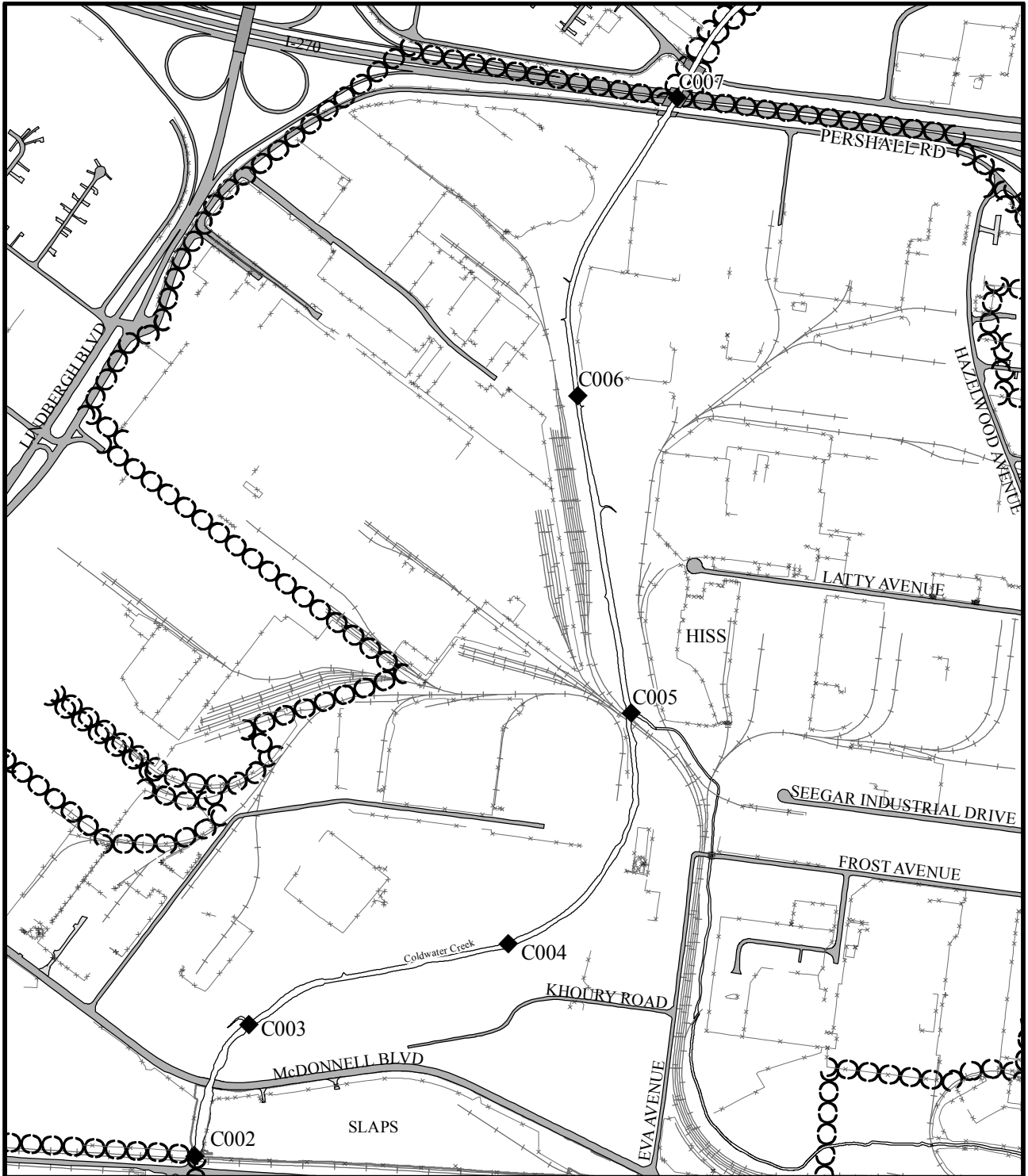


Figure 3-3.
Excavation-Water Discharge
Station at the HISS

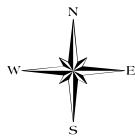
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LEGEND:

- ◆ Surface-Water and Sediment Sampling Location
- River/Stream
- ▬ Road
- +— Fence
- +— Railroad
- ⌘ ROD Boundary



MO-East State Plane
(NAD 83, Feet)

0 430 860 Feet



Figure 3-4. Surface-Water and Sediment Sampling Locations at Coldwater Creek

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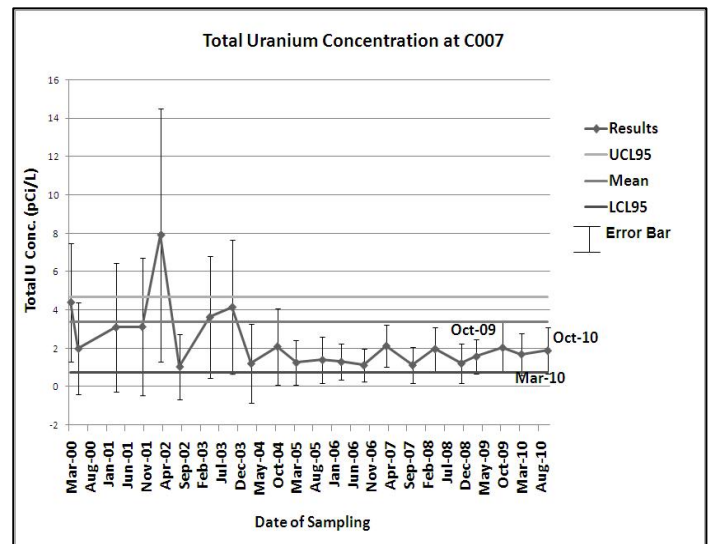
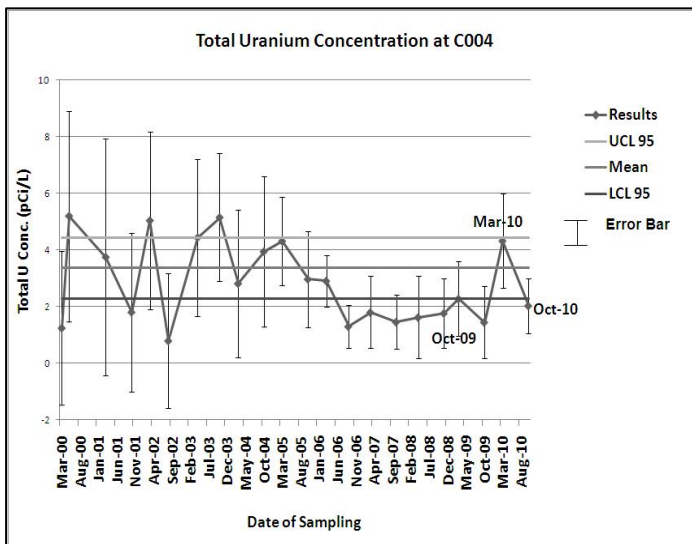
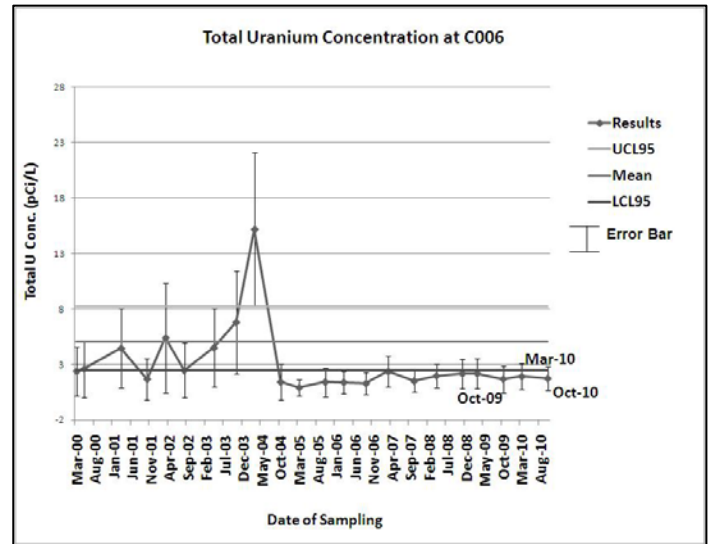
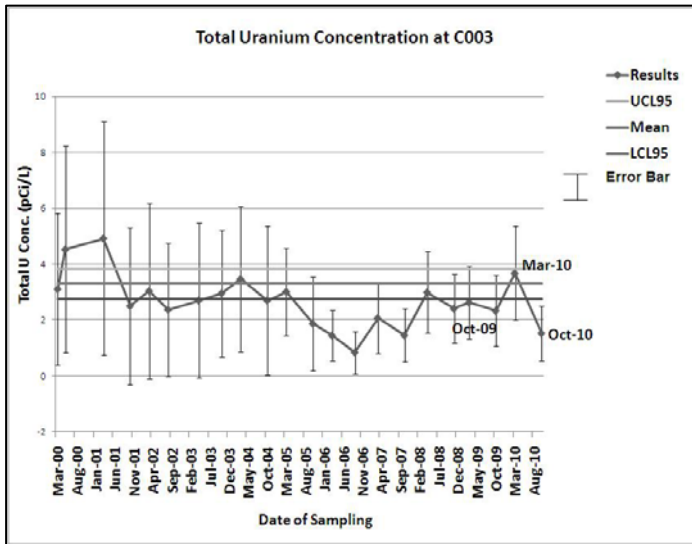
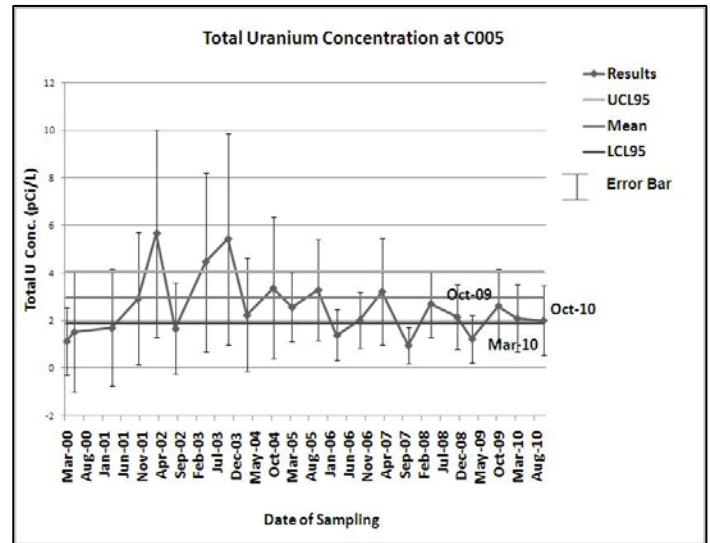
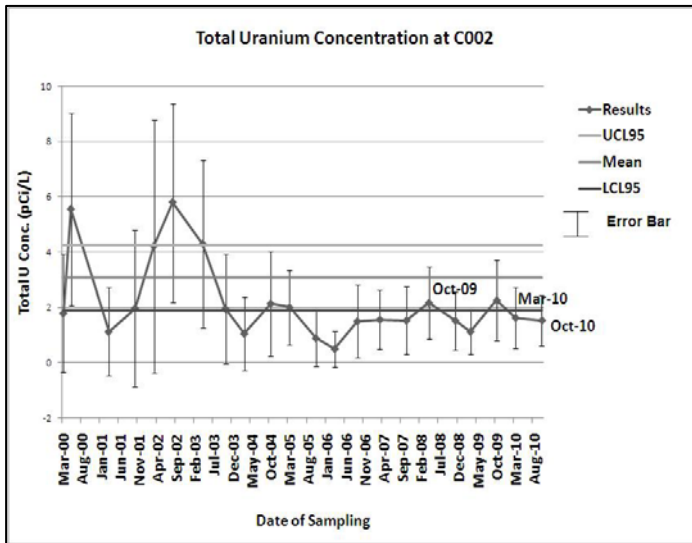
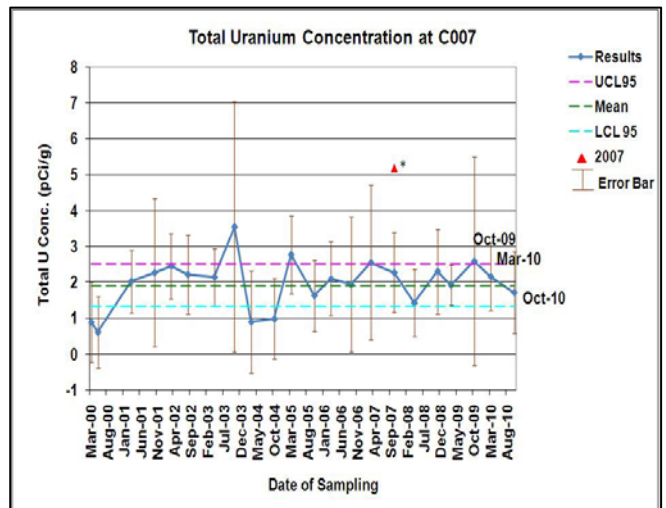
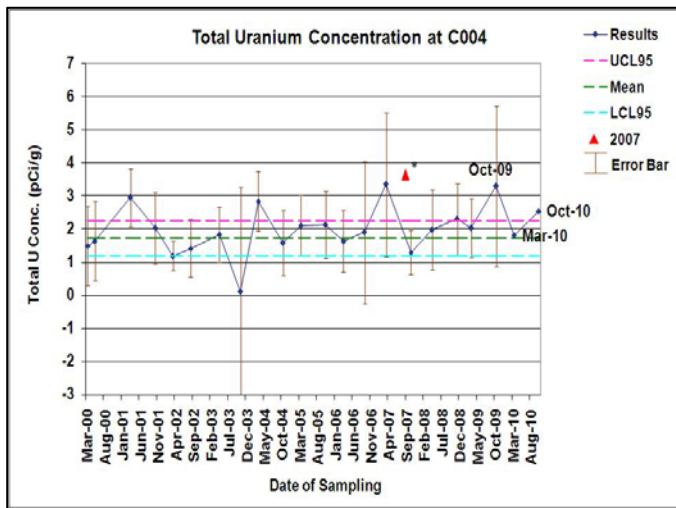
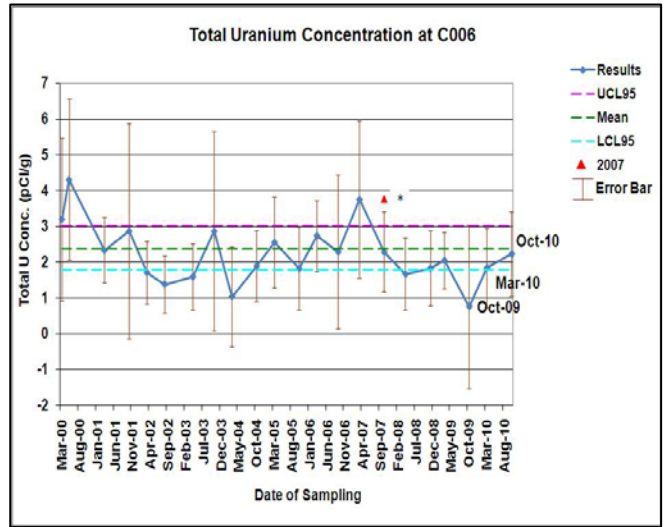
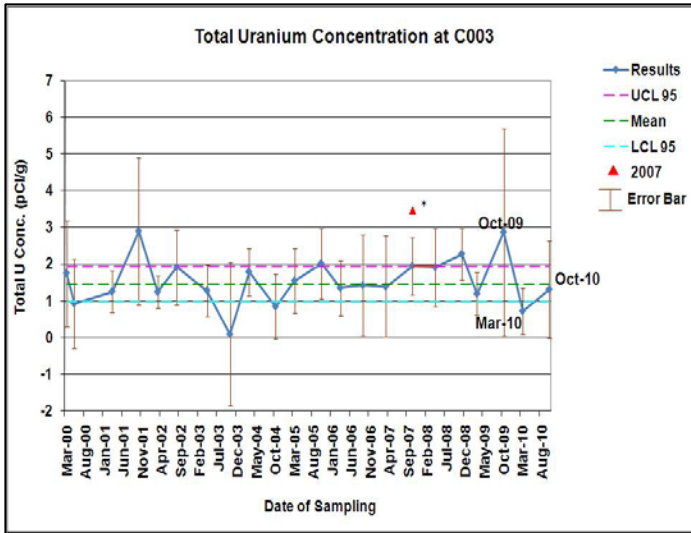
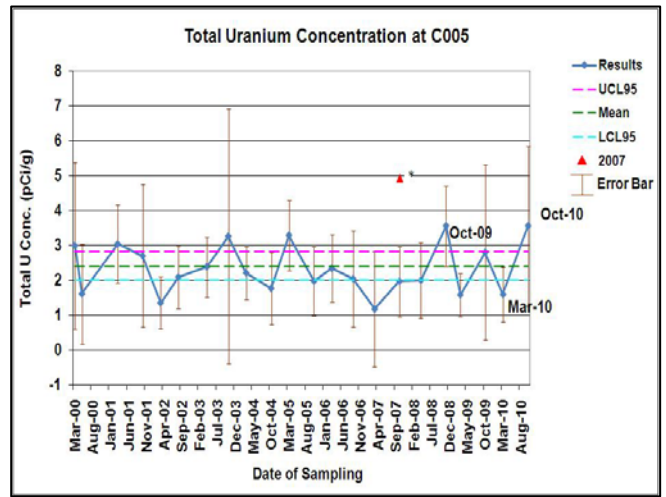
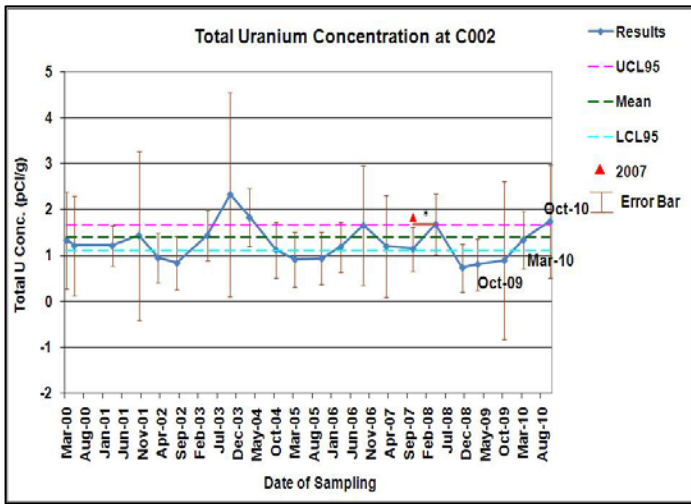


Figure 3-5. Total U Concentrations in Surface Water Versus Sampling Date



* The October 2007 value was incorrectly graphed due to the alpha and gamma results being added together, artificially increasing the value. The charts above have been corrected.

Figure 3-6. Total U Concentrations in Sediment Versus Sampling Date

Zone	Period	Epoch	Stratigraphy	Thickness (ft.)	Description
Hydrostratigraphic zone (HZ)-A	Quaternary	Holocene	FILL/TOPSOIL	0-14	UNIT 1 Fill - Sand, silt, clay, concrete, rubble. Topsoil - Organic silts, clayey silts, wood, fine sand.
		Pleistocene	LOESS (CLAYEY SILT)	11-32	UNIT 2 Clayey silts, fine sands, commonly mottled with iron oxide staining. Scattered roots and organic material, and a few fossils.
GLACIOLACUSTRINE SERIES: SILTY CLAY			19-75 (3) 9-27 (3T)	UNIT 3 Silty clay with scattered organic blebs and peat stringers. Moderate plasticity. Moist to saturated. (3T)	
VARVED CLAY			0-8	Alternating layers of dark and light clay as much as 1/16 inch thick (3M)	
CLAY			0-26	Dense, stiff, moist, highly plastic clay. (3M)	
SILTY CLAY			10-29	Similar to upper silty clay. Probable unconformable contact with highly plastic clay. (3B)	
Hydrostratigraphic zone (HZ)-B	BASAL CLAYEY & SANDY GRAVEL	0-6	UNIT 4 Glacial clayey gravels, sands, and sandy gravels. Mostly chert.		
Hydrostratigraphic zone (HZ)-C	Pennsylvanian		Cherokee (?) group (undifferentiated)	0-35	UNIT 5 BEDROCK: Interbedded silty clay/shale, lignite/coal, sandstone, and siltstone. Erosionally truncated by glaciolacustrine sequences. (Absent at the HISS).
Hydrostratigraphic zone (HZ)-D					Mississippian
Hydrostratigraphic zone (HZ)-E					



Figure 4-1. Generalized Stratigraphic Column for the NC Sites

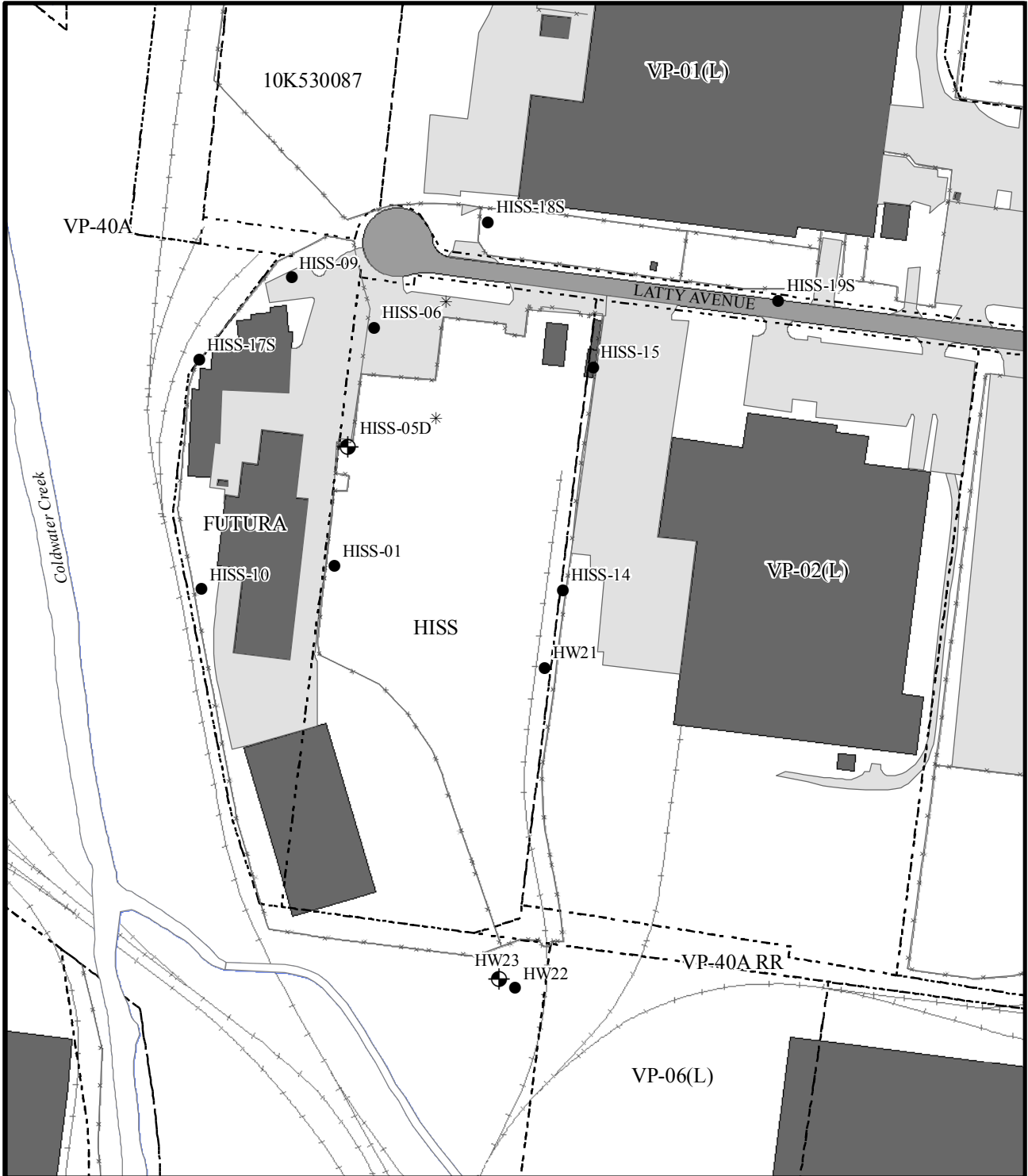
DRAWN BY:
C.Kaple

REV. NO./DATE:
1 - 04/01/04











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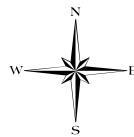
NOT TO SCALE

U:\GPS\EMD\AR\NCO Projects\FY2011\Rev0\Figure 4-2 Existing Monitoring Well Locations at the Latty Avenue Properties.mxd



LEGEND:

-  Buildings
-  Parking Lots
-  Road
-  Fence
-  Railroad
-  River/Stream
-  Parcel Boundary
-  Existing HZ-A Monitoring Well
-  Existing HZ-C Monitoring Well
-  * HISS-05D and HISS-06 will be decommissioned in early CY 2011. A replacement well for HISS-06 will be installed.



MO-East State Plane
(NAD 83, Feet)

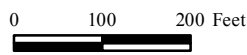
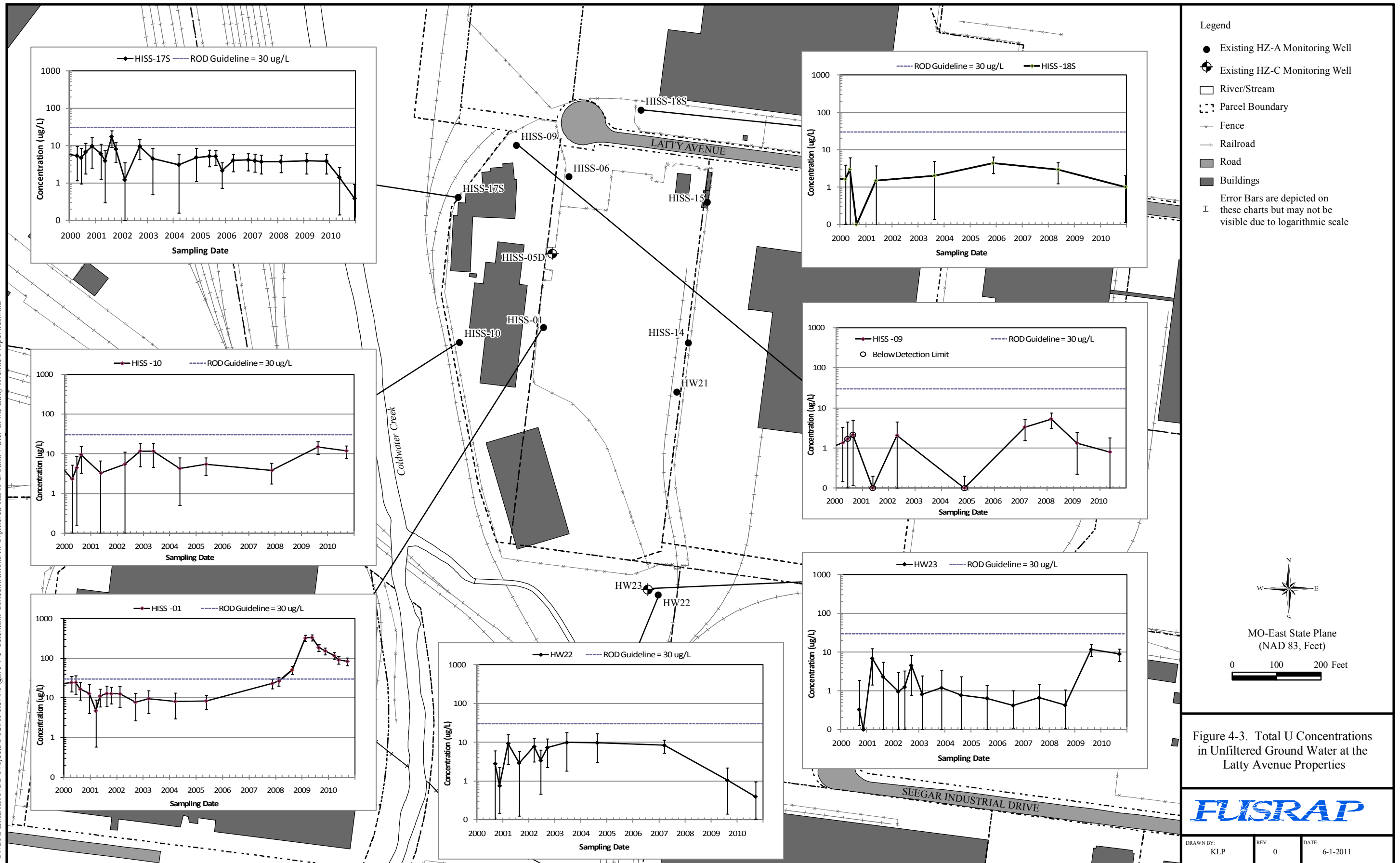


Figure 4-2. Existing Monitoring Well Locations at the Latty Avenue Properties

FUSRAP

DRAWN BY:	REV:	DATE:
KLP	0	6-7-2011

U:\GPS\EMD\AR\NCO Projects\FY2011\Rev0\Figure 4-3 Selenium Concentrations in Unfiltered HZ-A Ground Water at the Latty Avenue Properties.mxd



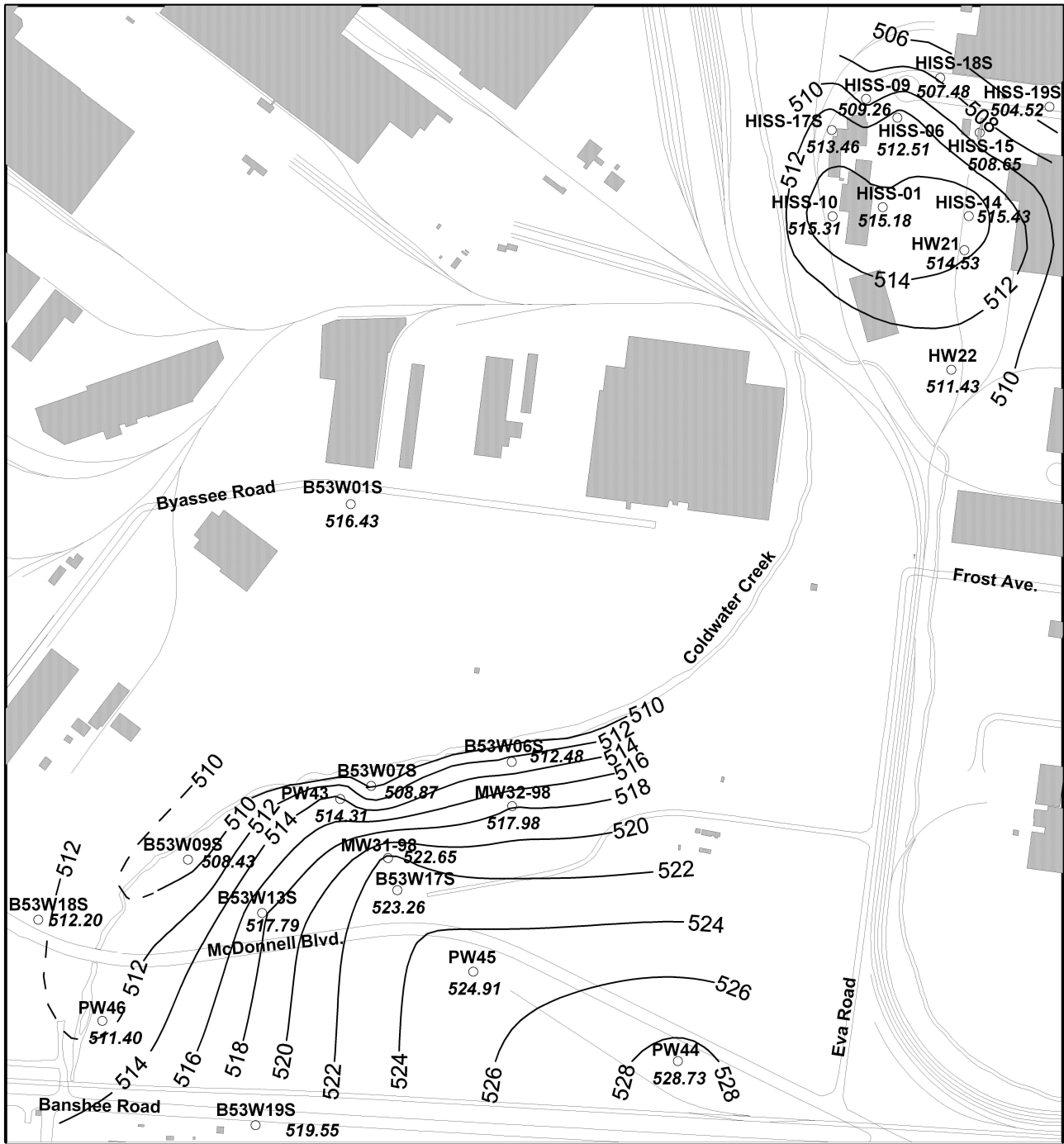
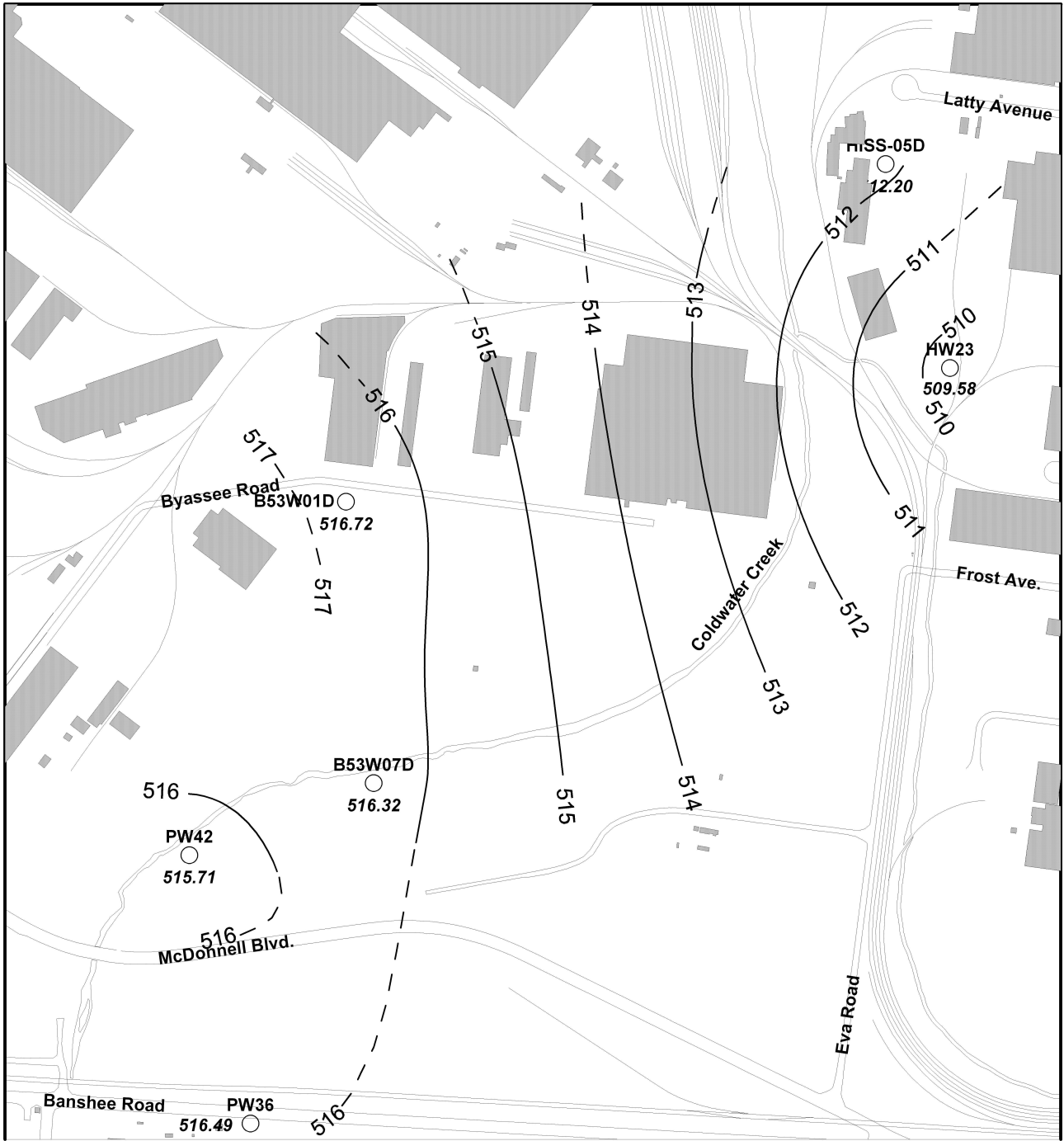


Figure 4-5. HZ-A Potentiometric Surface at the Latty Avenue Properties and the SLAPS and SLAPS VPs (May 21, 2010)

DRAWN BY: CMW

REV. - DATE: 2/7/2011



Legend:

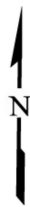
- HZ-C Ground-Water Elevation Contours
- HZ-C Monitoring Well Locations

Ground-water elevations in feet AMSL; contours dashed where inferred
 Contour Interval = 1 ft.

Scale: 1 inch = 600 feet



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



FUSRAP

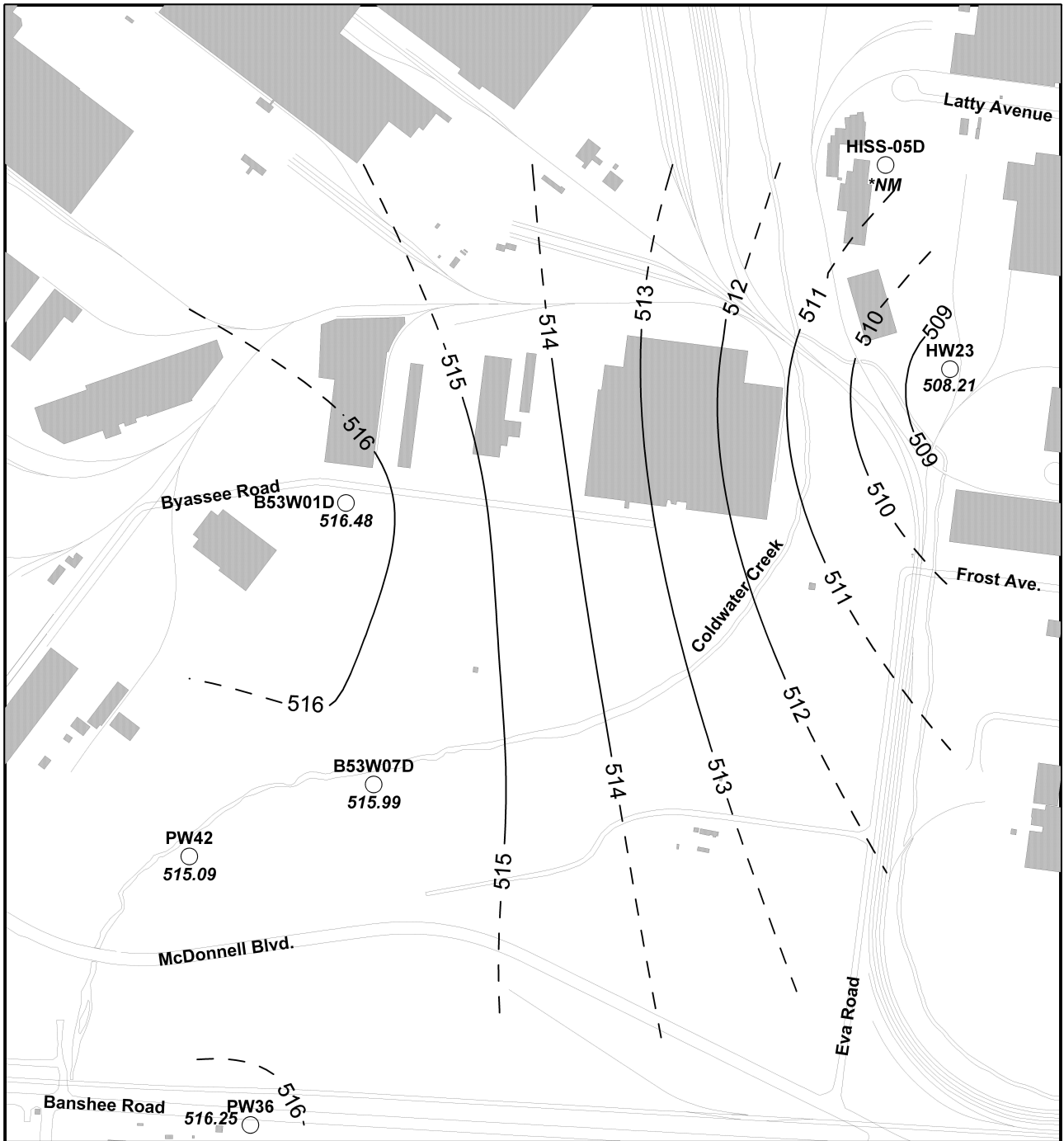
Figure 4-6. HZ-C Potentiometric Surface at the Latty Avenue Properties and the SLAPS and SLAPS VPs (May 21, 2010)

DRAWN BY:

CMW

REV. - DATE:

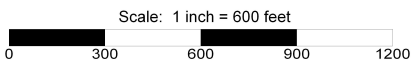
0 - 12/21/10



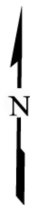
Legend:

- HZ-C Ground-Water Elevation Contours
 - HZ-C Monitoring Well Locations
- Ground-water elevations in feet AMSL; contours dashed where inferred
 Contour Interval = 1 ft.

*NM = Not measured. HISS-05D was damaged during remediation activities conducted in early CY10.



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

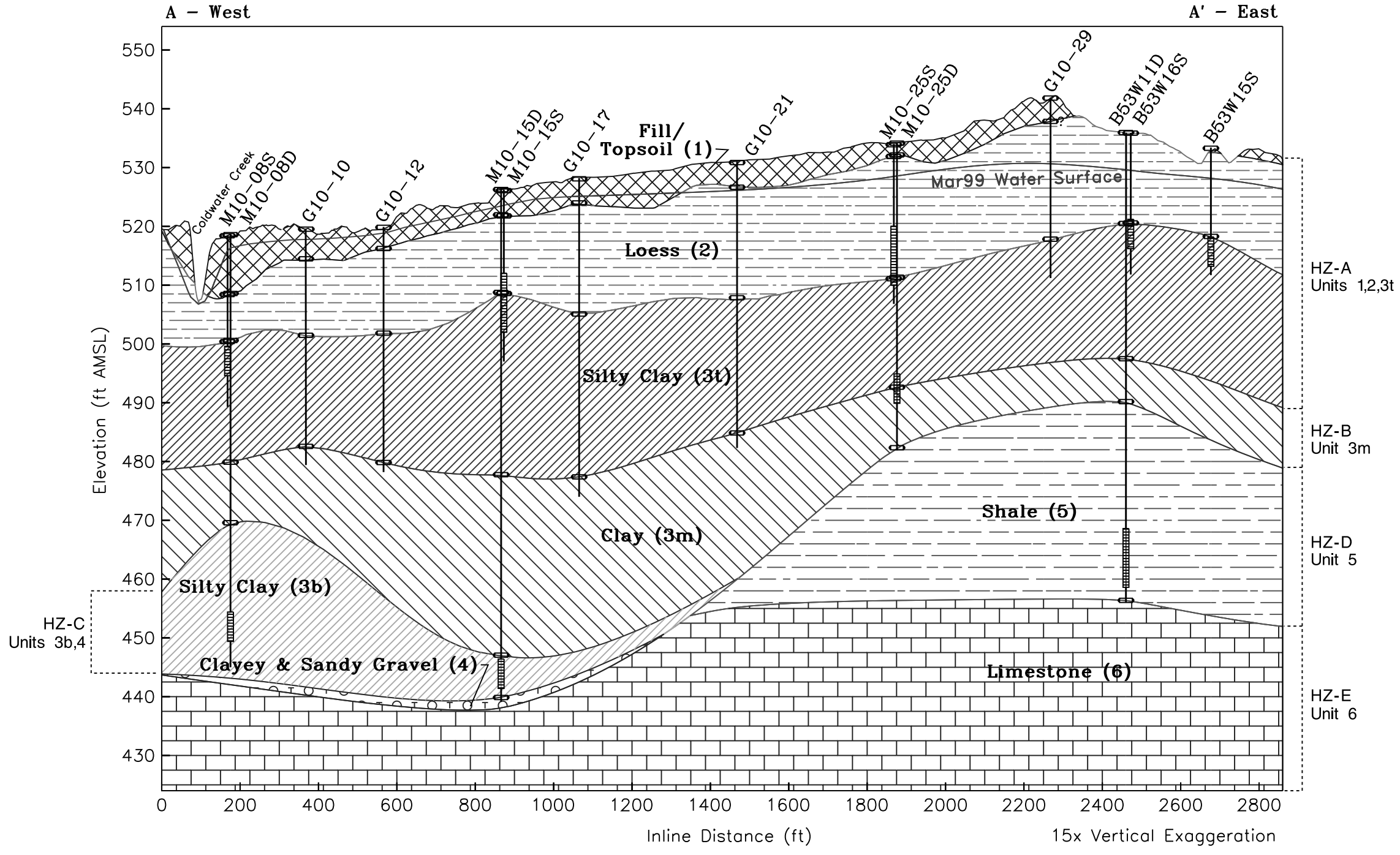


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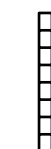
Figure 4-8. HZ-C Potentiometric Surface at the Latty Avenue Properties and the SLAPS and SLAPS VPs (December 13, 2010)

DRAWN BY: CMW

REV. - DATE: 0 - 12/21/10



Notes
 Geologic data used in the cross section collected through 2000.

Legend
 Borehole pick
 Well screen

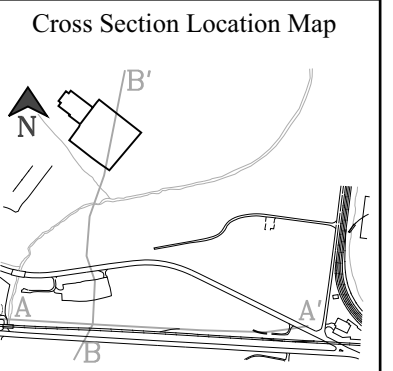
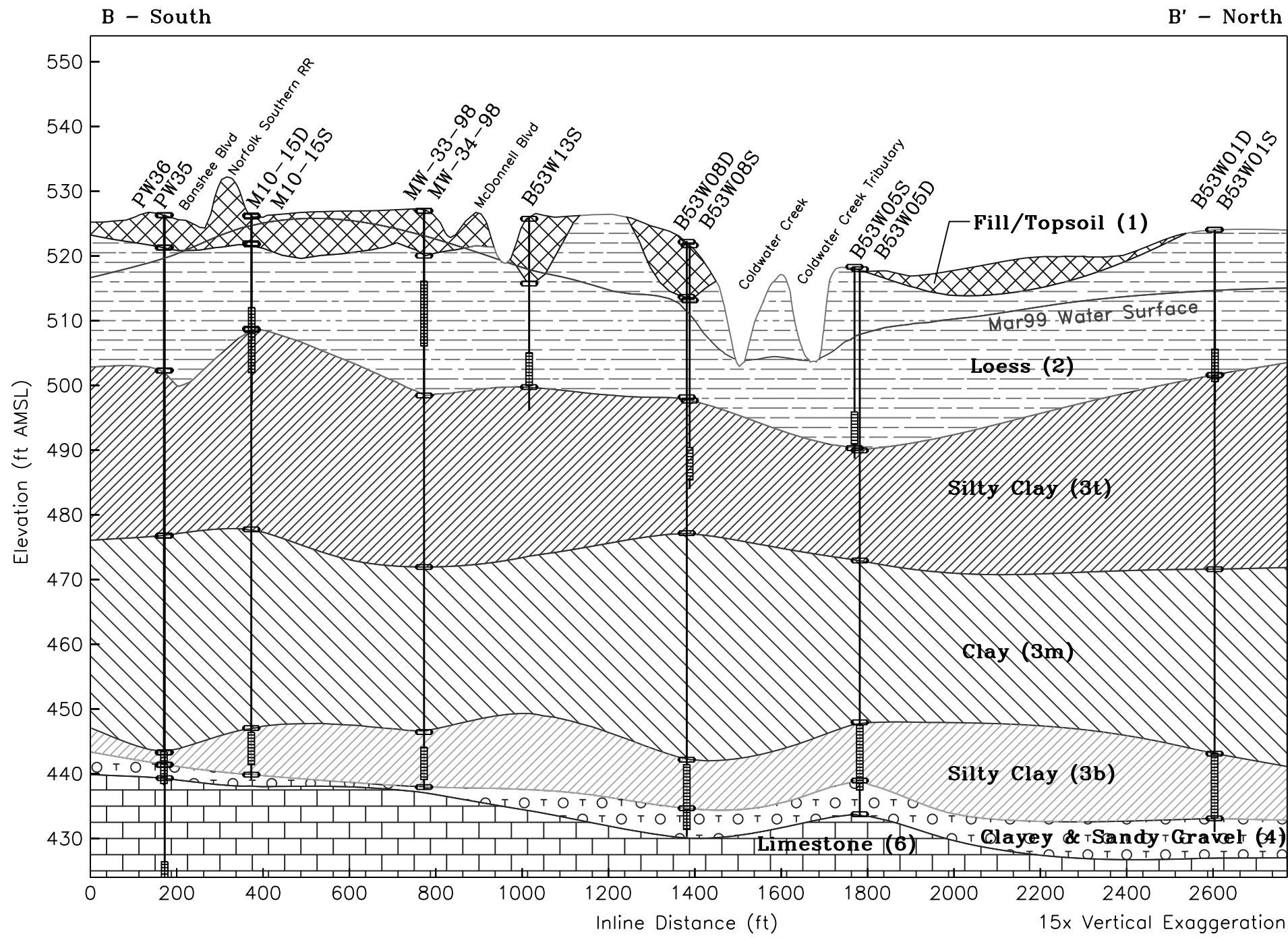


Figure 4-9. Geologic Cross-Section A-A' at the SLAPS

Drawn By: N. Voorhies

Rev. No. - Date: 0 - 08/29/00

File: SLAPSGI05ExtendedAAS.sho



HZ-A
Units 1,2,3t


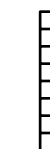
HZ-B
Unit 3m

HZ-C
Units 3b,4

HZ-E
Unit 6

Notes
Geologic data used in the cross section collected through 2000.

Legend

-  Borehole pick
-  Well screen

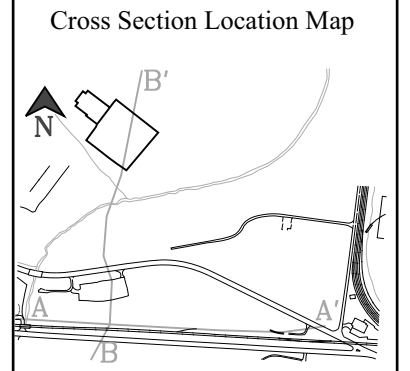
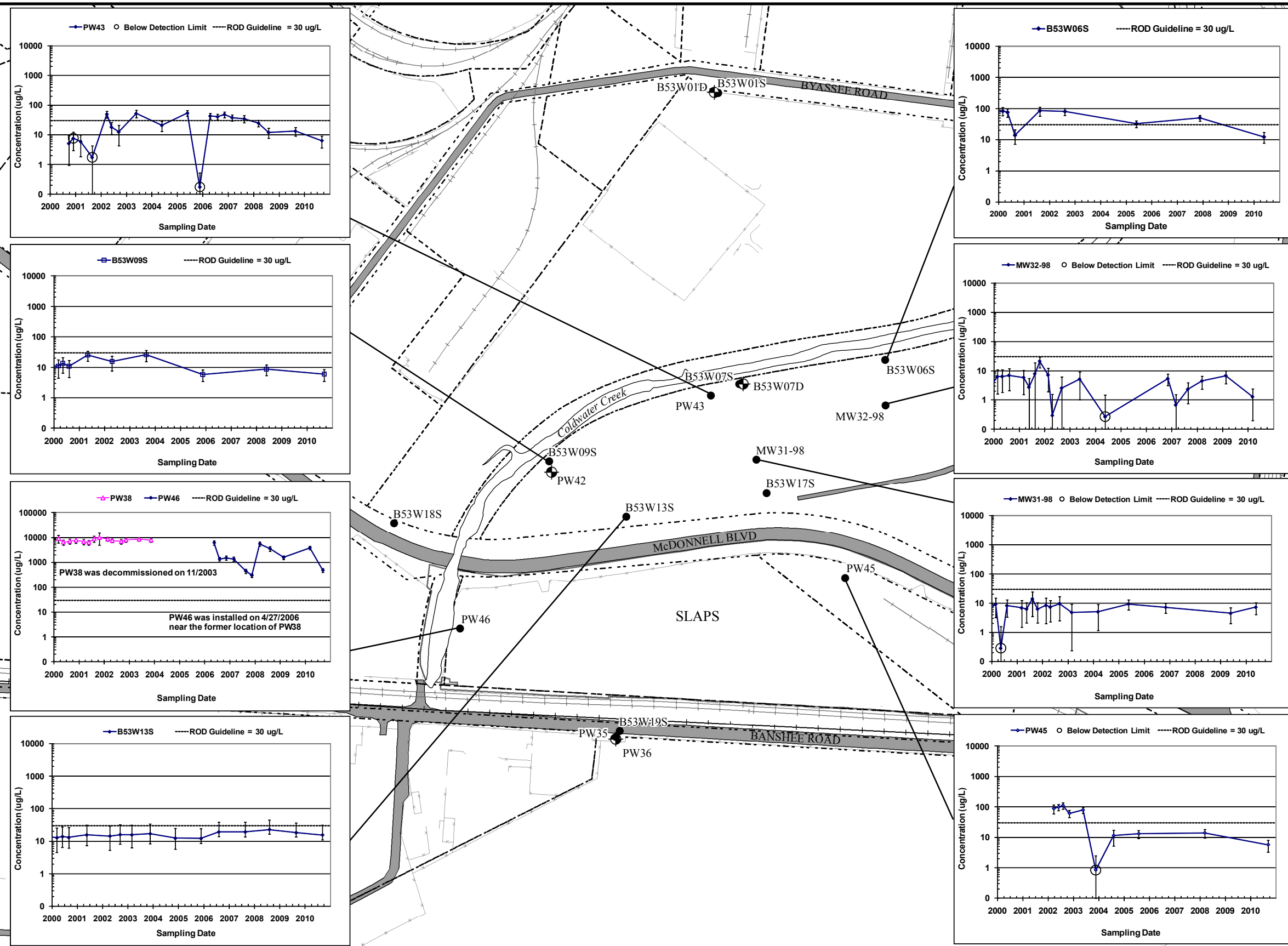


Figure 4-10. Geologic Cross-Section B-B' at the SLAPS and SLAPS VPs

Drawn By: N. Voorhies
 Rev. No.- Date: 0 - 08/29/00
 File: SLAPSGI05ExtendedBBS.sho

L:\GPS\EMD\AR\INCO Projects\FY2011\Rev0\Figure 4-12 Selenium Concentrations in Ground Water at the SLAPS and SLAPS VPs.mxd



- Legend
- Parcel Boundary
 - River/Stream
 - Road
 - Fence
 - Railroad
 - Existing HZ-A Monitoring Well
 - Existing HZ-C or HZ-E Monitoring Well
 - Error Bars are depicted on these charts but may not be visible due to logarithmic scale

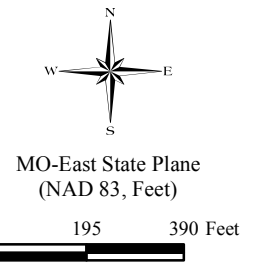
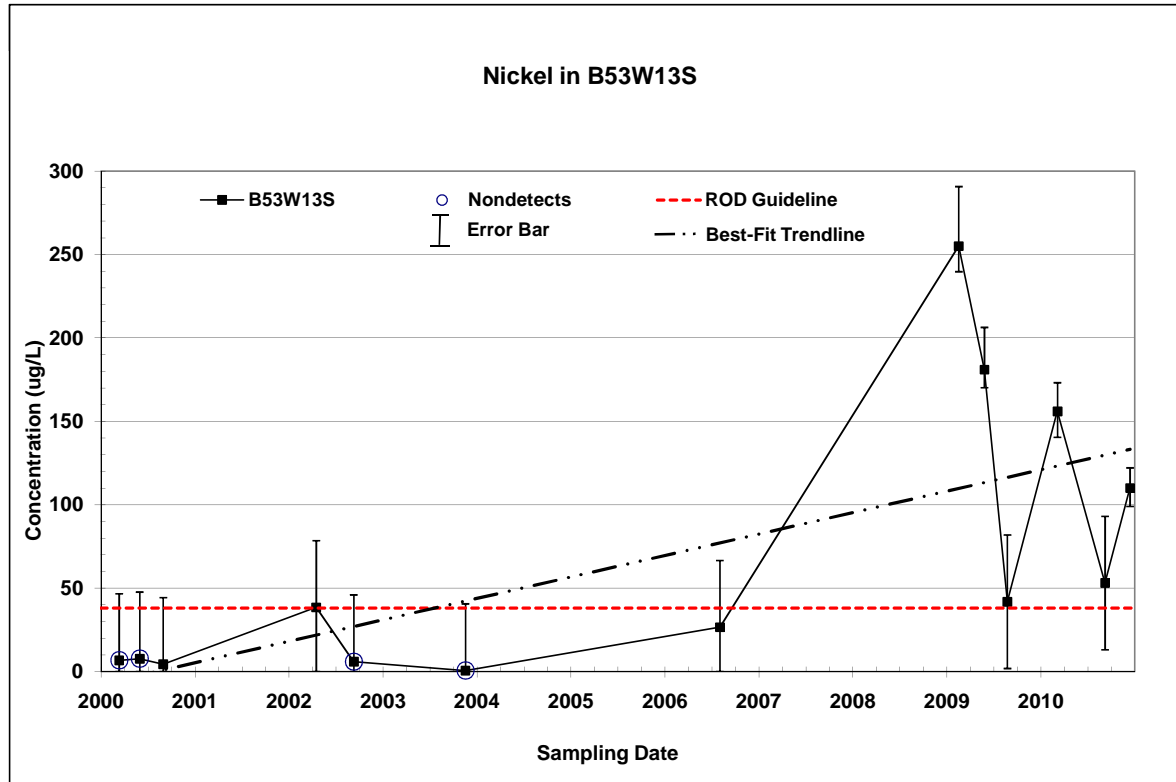
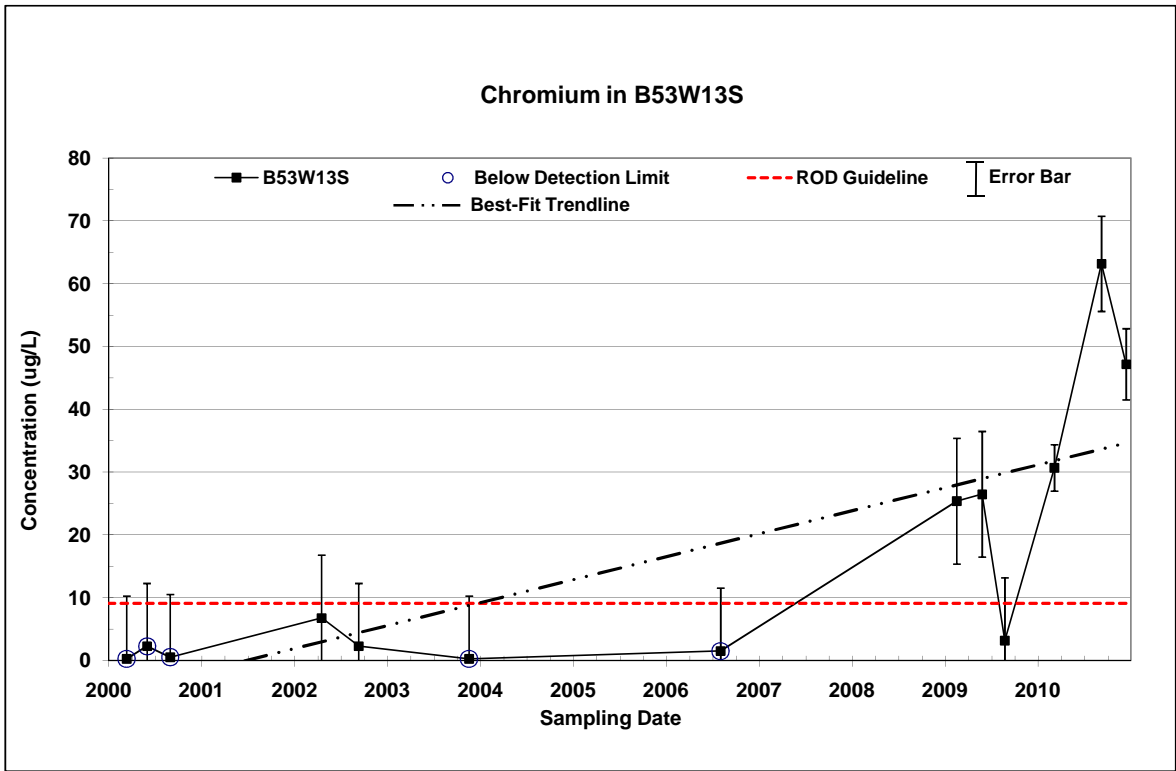


Figure 4-12 Total Uranium Concentrations in Ground Water at the SLAPS and SLAPS VPs



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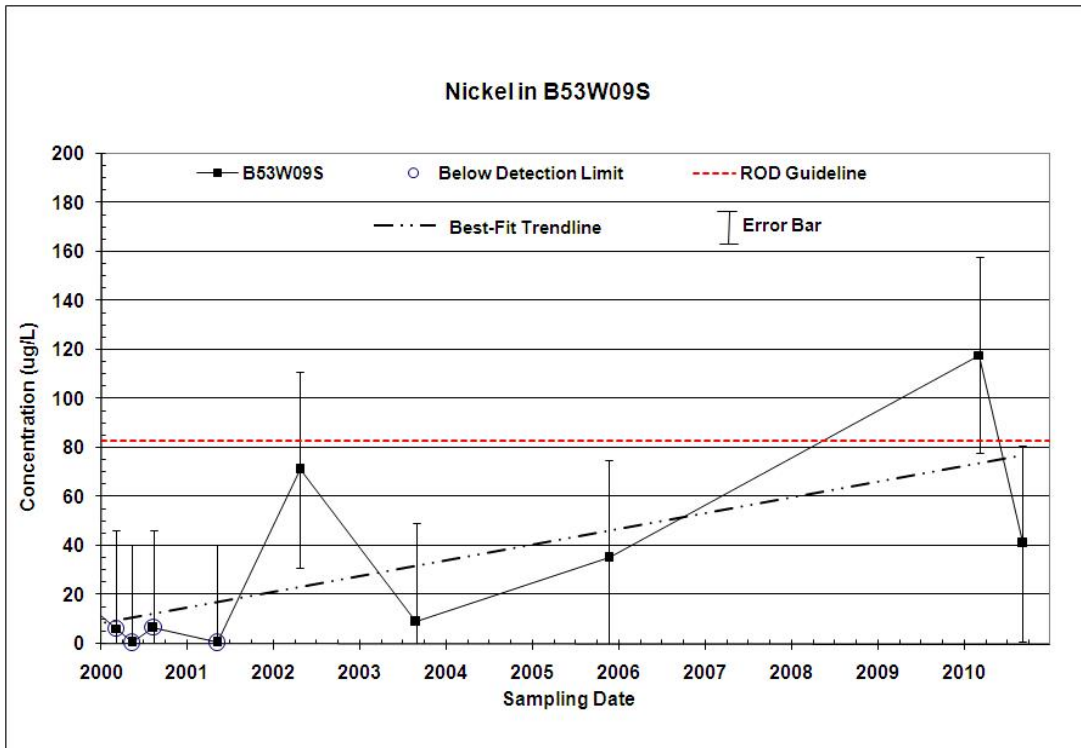


Notes:

For nickel results < 3 times the reporting limit (RL), the error bar represents \pm RL. For results exceeding 3 times the RL, the error bar represents the Upper and Lower Control Limits on the Control Spike Samples

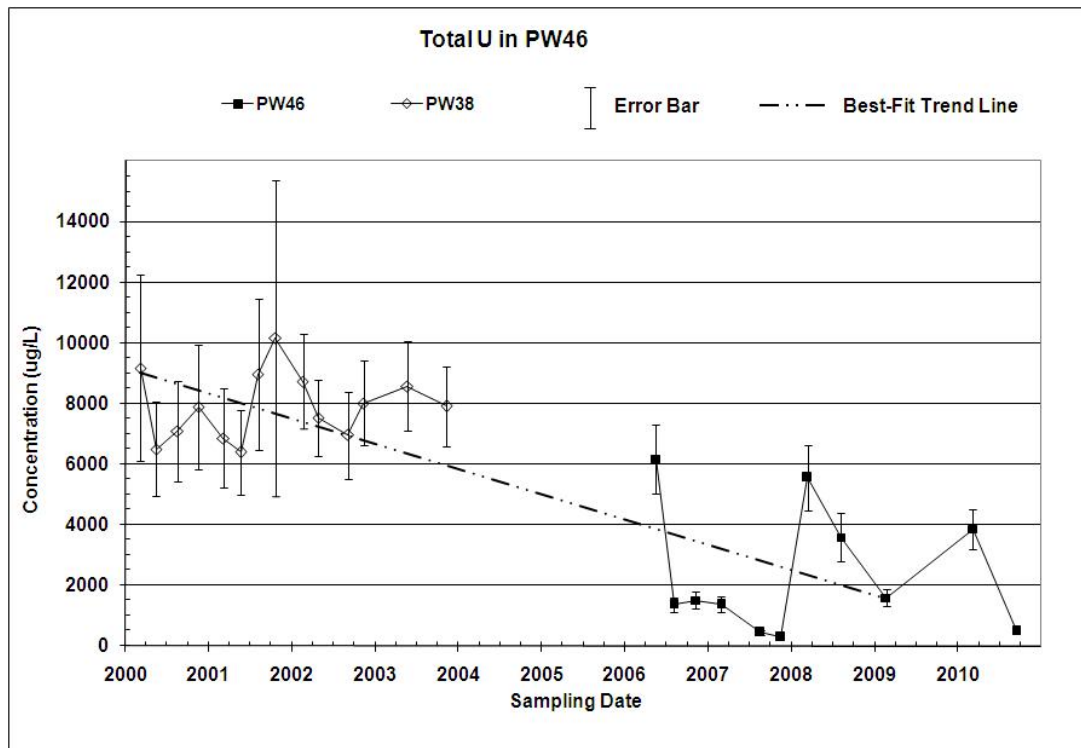
For nickel and chromium results reported as nondetect, the value plotted is 1/2 the detection limit.

Figure 4-13. Time Versus Concentration Graphs for Chromium and Nickel in Ground Water at B53W13S



Notes:
 For nickel results < 3 times the reporting limit (RL), the error bar represents \pm RL. For results exceeding 3 times the RL, the error bar and Lower Control Limits on the Control Spike Samples
 For nickel results reported as nondetect, the value plotted is 1/2 the detection limit.

Figure 4-14. Time Versus Concentration Graphs for Nickel in Ground Water at B53W09S



Notes:
 For total uranium, the error bar represents \pm the sum of the measurement errors for U-234, U-235, and U-238, converted to ug/L

Figure 4-15. Time Versus Concentration Graphs for Total U in Ground Water at PW46

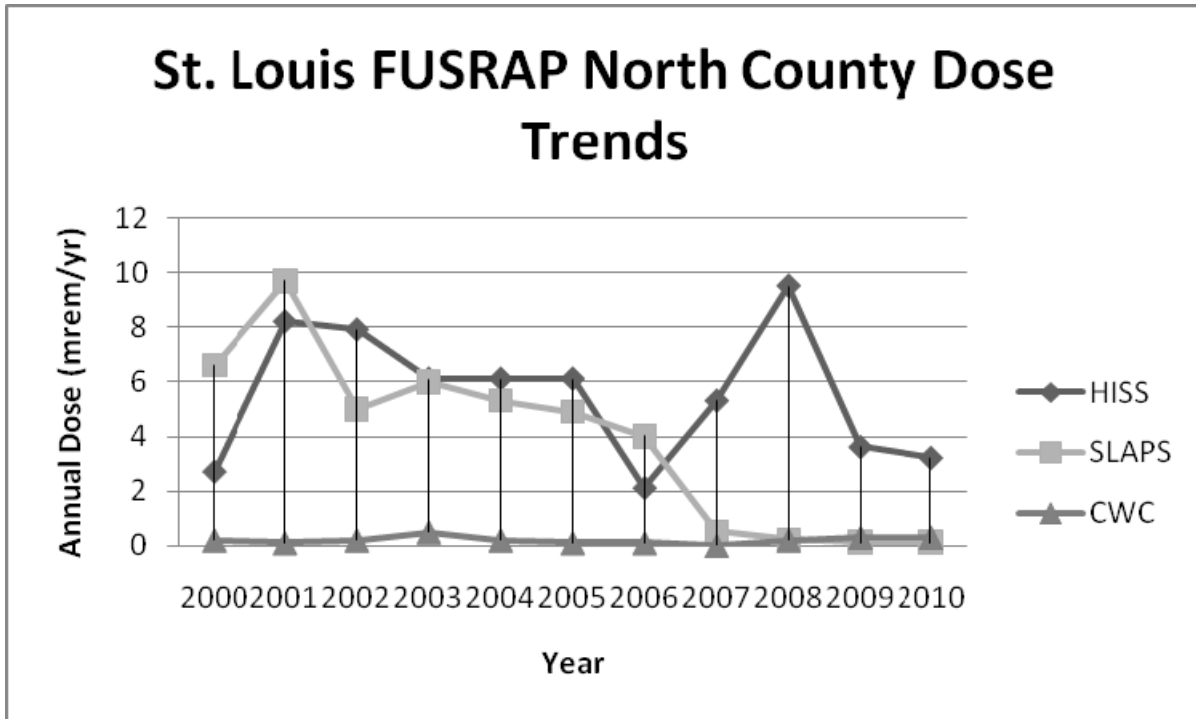


Figure 6-1. St. Louis FUSRAP North County Dose Trends

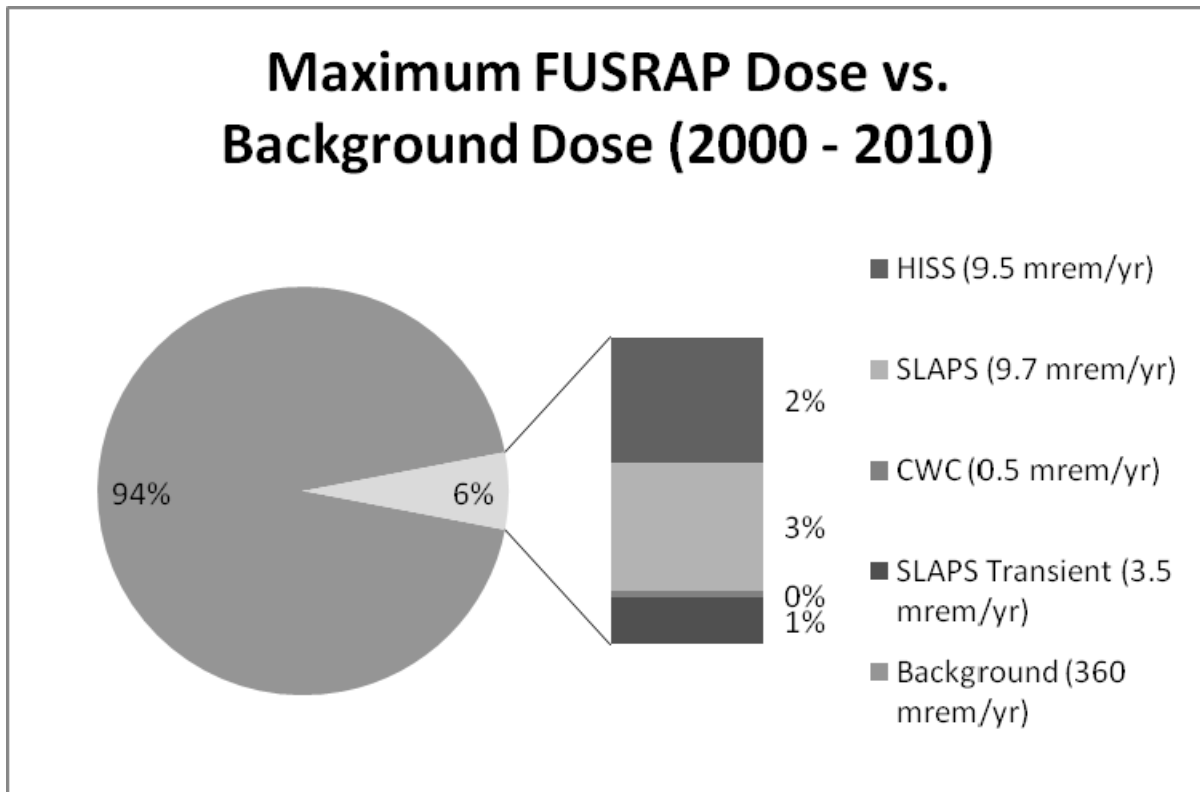


Figure 6-2. St. Louis FUSRAP North County Maximum Dose Vs. Background Dose

APPENDIX A

**NORTH ST. LOUIS COUNTY FUSRAP SITES
2010 RADIONUCLIDE EMISSIONS NESHAP REPORT**

SUBMITTED IN ACCORDANCE WITH REQUIREMENTS OF 40 CFR 61 SUBPART I

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ACRONYMS AND ABBREVIATIONS

$\mu\text{Ci}/\text{cm}^3$	microcurie per cubic centimeter
$\mu\text{Ci}/\text{mL}$	microcurie per milliliter
Ac	actinium
CFR	Code of Federal Regulations
Ci/yr	curie per year
CY	calendar year
DOE	U.S. Department of Energy
EDE	effective dose equivalent
FUSRAP	Formerly Utilized Sites Remedial Action Program
Futura	Futura Coatings Company
HEPA	high efficiency particulate air
HISS	Hazelwood Interim Storage Site
m	meter(s)
m^2	square meter
m/min	meters per minute
m/sec	meter per sec
m^3/min	cubic meter(s) per minute
mrem/yr	millirem per year
mSv/yr	milliSievert(s) per year
NC	North St. Louis County
NESHAP	National Emission Standard for Hazardous Air Pollutants
Pa	protactinium
Ra	radium
SLAPS	St. Louis Airport Site
SLDS	St. Louis Downtown Site
Th	thorium
U	uranium
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VP	vicinity property
yd^3	cubic yards

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) North St. Louis County (NC) Sites for calendar year 2010 (CY 2010). 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 Regulation (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* (USEPA 1989).

This report evaluates sites where there was a reasonable potential for radionuclide emissions due to St. Louis FUSRAP activities. These sites include: the Latty Avenue Properties (consisting of the Hazelwood Interim Storage Sites (HISS), Futura Coatings Company (Futura), and Vicinity Property [VP] 02[L]) and the St. Louis Airport Site (SLAPS) VPs 05 and 06, VP-12, VPs 54 and 55, VP-63, SLAPS loadout, McDonnell Boulevard, and Hazelwood Avenue (including VP-53). This report also evaluates radionuclide emissions from the United States Army Corps of Engineers (USACE) Radioanalytical Laboratory operations. Emissions from the sites and lab were evaluated for the entire CY 2010 to provide a conservative estimate of total emissions.

The NESHAP standard of EDE to a critical receptor from radionuclide emissions is 10 millirem per year (mrem/yr) (0.1 milliseivert per year [mSv/yr]). None of the sites exceeded this standard. The EDE from radionuclide emissions at the sites were 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 of 3 mrem/yr (0.03 mSv/yr) and less than 0.1 mrem/yr (<0.001 mSv/yr) from Latty Avenue Properties and the SLAPS VPs, respectively. The EDE from the laboratory emissions was calculated using the methodology in Appendix D of 40 *CFR* 61, *Methods for Estimating Radionuclide Emissions*, soil characterization data, and the USEPA CAP88-PC modeling code, which resulted in less than 0.1 mrem/yr (<0.001 mSv/yr).

Evaluations for the USACE Radioanalytical Laboratory resulted in less than 10 percent of the dose standard in 40 *CFR* 61.102. These sites are 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 that there are significant penalties for submitting false information including the possibility of fine and imprisonment. See 18 U.S. Code 1001.

Signature

Date

Office: U.S. Army Corps of Engineers, St. Louis District Office
Address: 8945 Latty Ave.
Berkeley, MO 63134
Contact: Jon Rankins

1.0 PURPOSE

This report calculates the EDE from radionuclide emissions (exclusive of radon) to critical receptors from the USACE Radioanalytical Laboratory and the NC FUSRAP Sites where there was a reasonable potential for radionuclide emissions due to St. Louis FUSRAP activities. These sites include: the Latty Avenue Properties (consisting of the HISS, Futura, and VP-02[L]) and the SLAPS VPs 05 and 06, VP-12, VPs 54 and 55, VP-63, SLAPS loadout, McDonnell Boulevard, and Hazelwood Avenue (including VP-53). The air emissions from the laboratory include fume hood stack releases of particulate radionuclides from sample preparation and separation activities. The air emissions from the other sites 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 sites were modeled using guidance documents referenced in 40 *CFR* 61, Appendix E, *Compliance Procedures Methods for Determining Compliance with Subpart I*, (USEPA 1989) and measured by collection of environmental air samples. Emission rates for the laboratory were modeled using guidance in 40 *CFR* 61 Appendix D, *Methods for Estimating Radionuclide Emissions*. Emission rates were input into the USEPA computer code CAP88-PC, along with appropriate meteorological data and distances to critical receptors¹, 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 transport models for assessing dose and risk from radioactive air emissions.” The USEPA continues to maintain and update the CAP88-PC modeling program and has updated it as recently as December 9, 2007. 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 report to demonstrate compliance with the NESHAP standard.

2.1 EMISSION RATE

Two methods were used to determine particulate radionuclide emission rates from the sites: (1) 40 *CFR* 61 Appendix D, *Methods for Estimating Radionuclide Emissions*, and (2) environmental air samples collected from the perimeter of a site. Emissions during excavations and waste loadout were evaluated using air sampling data at the excavation and waste loadout perimeters when site perimeter air particulate data was not available.

2.2 EFFECTIVE DOSE EQUIVALENT

The EDE to critical receptors¹ is obtained using USEPA computer code CAP88-PC, Version 3.0 (USEPA 2007). 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 one meter (m) is modeled for the sites, and a stack release was modeled for the laboratory.

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

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

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3.0 METEOROLOGICAL DATA

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

Average Annual Wind Velocity	4.446 meters/second (m/sec)
Average Annual Precipitation Rate	111 centimeters per year
Average Annual Air Temperature	14.18 degrees Celsius

Wind speed frequency data was obtained from St. Louis Lambert International Airport (see Table A.3-1).

Table A.3-1. St. Louis Wind Speed Frequency

Wind Speed Group, Knots ^a	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

^a knot = 1.151 miles/hour

Wind direction frequency was obtained from the CAP88-PC wind file, 13994.WND (see Table A.3-2).

Table A.3-2. St. Louis Wind Rose Frequency

Wind Direction (wind towards)	Wind From	Wind Frequency	Wind Direction (wind toward)	Wind From	Wind Frequency
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 LATTY AVENUE PROPERTIES UNDER ACTIVE REMEDIATION

4.1 SITE HISTORY

In 1966, Continental Mining and Milling Company of Chicago, Illinois, purchased the wastes stored at SLAPS and began moving them to a property at 9200 Latty Avenue for storage. In 1967, the Commercial Discount Corporation of Chicago, Illinois, purchased the residues, dried the materials, and shipped much of the material to Canon City, Colorado. Cotter Corporation purchased the remaining residues in 1969 and dried and shipped more material to Canon City during 1970. In 1973, the remaining undried material was shipped to Canon City and leached barium sulfate was mixed with soil and transported to a St. Louis County landfill. During these activities, improper storage, handling, and transportation of materials caused the spread of materials along haul routes and to the adjacent VPs.

In 1979, the owner of the 9200 Latty Avenue property excavated approximately 13,000 cubic yards (yd³) from the western half of the property prior to constructing a manufacturing facility. The material excavated at this time was stockpiled on the eastern half of the property, which now constitutes the HISS. In 1984, Bechtel National, Inc. performed removal actions, including clearing, cleanup, and excavation of the property at 9200 Latty Avenue and the surrounding VPs. This action created approximately 14,000 yd³ of additional contaminated soil, which was stockpiled on the HISS.

In 1986, the U.S. Department of Energy (DOE) provided radiological support to the cities of Hazelwood and Berkeley for a drainage and road improvement project. Soil with constituents in excess of DOE remedial action guidelines was excavated and stored at the HISS. This action resulted in an additional 4,600 yd³ of material being placed at the HISS in a supplemental storage pile.

In 1996, the owner of the property to the east of the HISS, General Investment Funds Real Estate Holding Company, in consultation with DOE, made commercial parking and drainage improvements on the property. This action resulted in the stockpiling of approximately 8,000 yd³ of soil and debris in two interim storage piles located in the southwestern portion of the Latty Avenue VP-02(L). These piles were referred to as the Eastern Piles.

In 2000 and 2001, the USACE removed the main, supplemental, and Eastern piles and shipped the material by rail to properly permitted disposal facilities. The ground surface where the piles were previously located was covered by a layer of plastic and approximately six inches of gravel.

4.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2010

During CY 2010, excavations were conducted on the following Latty Avenue Properties: the HISS, Futura, and VP-02(L). Environmental air samples were collected around the perimeter of the HISS during CY 2010 from January to December. Air particulate samples were collected around excavation perimeters during active excavation on other Latty Avenue Properties throughout CY 2010. Analytical results of air particulate samples were used to determine windblown *in situ* emissions.

4.3 SOURCE DESCRIPTION – RADIONUCLIDE SOIL CONCENTRATIONS

The radionuclide concentrations for each site were obtained from data contained in Table D-5 of *Feasibility Study for the St. Louis North County Site* (USACE 2003). Attachment 1 contains a summary table of the radionuclide concentrations used to calculate the emission rate from the site.

4.4 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2010

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 are assumed for the particulate radionuclide emission determinations from the Latty Avenue Properties at which excavation and/or loadout occurred in CY 2010. Other Latty Avenue Properties do not contribute to the emission determinations for periods of inactivity due to the low activity and vegetative cover.

4.5 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown in Figure A-1 and presented in Table A.4-1. Distances and directions to critical receptors are based on measurements on the U.S. Geological Survey (USGS) 7.5-minute Florissant Quadrangle Map. Several SLAPS VPs (VPs 54 and 55, and Hazelwood Avenue [including VP-53]) where remedial action occurred in CY 2010 were in closer proximity to the Latty Avenue Properties receptors than to the SLAPS receptors. Therefore, the doses due to air particulate emissions from these sites were included in the Latty Avenue Properties dose evaluation.

Table A.4-1. Latty Avenue Properties Critical Receptors

Sources	Resident		Farm		Business		School	
	Dist. ^a	Dir. ^a	Dist. ^a	Dir. ^a	Dist. ^{a,b}	Dir. ^a	Dist. ^a	Dir. ^a
HISS	480	SSE	740	NE	130	NW	2220	ESE
Futura	470	SSE	820	NE	150	NW	2270	ESE
VP-02(L)	350	SSE	775	NE	230	NW	2045	ESE
VPs 54 and 55 ^c	1,425	S	640	SSE	1010	SSW	2455	SE
Hazelwood Avenue and VP-53 ^c	840	SW	190	N	755	WSW	1720	SE

^a Dist. = Distance in m; Dir. = Direction.

^b Distance from receptor to fenceline is 50 m. Distance from receptor to emission source from the HISS is 110 m.

^c SLAPS VPs were in closer proximity to the Latty Avenue receptors than SLAPS receptors, and, therefore, will be included in the Latty Avenue receptor dose evaluation.

4.6 EMISSIONS DETERMINATIONS

4.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from four locations around the perimeter of the HISS to measure the radionuclide emissions. Particulates in air were continuously sampled for the entire year around the perimeter of the HISS and around the perimeter of excavations during active excavation at the other Latty Avenue Properties and SLAPS VPs. The air sample results provide the basis for determining the radionuclide emission rates during CY 2010. The average site gross alpha and gross beta concentrations in microcuries per milliliter ($\mu\text{Ci/mL}$) are determined for each site. The average site concentrations are presented in Table A.4-2.

Table A.4-2. Latty Avenue Properties and SLAPS VPs Average Gross Alpha and Beta Airborne Particulate Emissions

Site	Average Concentration (μCi/mL)	
	Gross Alpha	Gross Beta
HISS	4.4E-15	2.7E-14
Futura	4.7E-15	2.2E-14
VP-02(L)	3.6E-15	2.5E-14
VPs 54 and 55	4.5E-15	1.9E-14
Hazelwood Avenue and VP-53	3.3E-15	2.2E-14
Background Concentration ^a	2.5E-15	1.8E-14

^a These concentrations are only provided for informational purposes. As a conservative approach, background values were not subtracted from the gross average concentration during the determination of EDE.

Radionuclide activity fractions are determined for alpha and beta from the average radionuclide concentration data contained in Table D-5 of *Feasibility Study for the St. Louis North County Site* (USACE 2003). The product of each radionuclide activity fraction and the gross concentration provides the radionuclide emission concentration in microcuries per cubic centimeter (μCi/cm³). The gross average concentration (μCi/cm³) is converted to a release (emission) rate as measured in curies per year (Ci/yr) using Equations (1) and (2). The emission rates are summarized in Table A.4-5.

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 is the effective diameter in m of the release, and
- A is the area of the stack, vent, or release point in square meter (m²).

Table A.4-3 provides the effective surface area available for release of airborne radionuclides normalized to one year and the effective diameter for the HISS and the other Latty Avenue and SLAPS VPs that were excavated in CY 2010. Calculation of the effective surface area can be referenced in Attachment 1.

Table A.4-3. Latty Avenue Properties Excavation Effective Areas and Effective Diameters

Location	Effective Area (m ²)	Effective Diameters (m)
HISS	19,758	160
Futura	542	27
VP-02(L)	2,112	52
VPs 54 and 55	57	9
Hazelwood Avenue and VP-53	20	5

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

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

where:

- V is the wind velocity (meters per minute [m/min]) = 266.76 m/min,
- F is the flow rate (cubic meters per minute [m³/min]),

- π is a mathematical constant, and
 D is the effective diameter of the release determined using Equation (1) above (m).

Converting the velocity of emissions from the sites to an effective flow rate results in the following site release flow rates for the Latty Avenue Properties and SLAPS VP areas as listed in Table A.4-4. 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 illustrated in Table A.4-5. Attachment 1 can be referenced for flow rate and average radionuclide concentration data.

Table A.4-4. Latty Avenue Properties Site Release Flow Rates

Location	Site Release Flow Rate (m ³ /min.)
HISS	5.4E+06
Futura	1.5E+05
VP-02(L)	5.8E+05
VPs 54 and 55	1.6E+04
Hazelwood Avenue and VP-53	5.4E+03

4.6.2 Latty Avenue Properties Total Airborne Radioactive Particulate Emission Rates

The Latty Avenue Properties and SLAPS VP areas' total CY 2010 emission/release rates that were input into the USEPA codes are shown in Table A.4-5 and are based on the measured emission rates from the air samples collected from the perimeter of the site or excavations as appropriate.

Table A.4-5. Latty Avenue Properties Total Airborne Radioactive Particulate Emission Rates

Radionuclide	Emission (Ci/yr) ^a				
	HISS	Futura	VP-02(L)	VPs 54 and 55	Hazelwood Avenue and VP-53
Uranium (U)-238	2.0E-03	5.4E-05	7.4E-05	1.5E-05	2.8E-06
U-235	1.9E-04	2.5E-06	3.4E-06	8.5E-09	2.5E-09
U-234	2.0E-03	5.4E-05	7.4E-05	2.0E-07	5.8E-08
Radium (Ra)-226	1.1E-03	4.5E-05	2.0E-05	2.8E-06	6.8E-07
Thorium (Th)-232	2.1E-04	2.3E-06	1.4E-05	3.7E-06	8.8E-07
Th-230	6.2E-03	1.0E-04	8.6E-04	1.6E-05	4.9E-06
Th-228	1.2E-04	2.3E-06	7.6E-06	1.6E-08	4.9E-09
Ra-224	1.2E-04	2.3E-06	7.6E-06	1.6E-08	4.9E-09
Th-234	3.4E-02	8.5E-04	3.3E-03	7.9E-05	1.9E-05
Protactinium (Pa)-234m	3.4E-02	8.5E-04	3.3E-03	7.9E-05	1.9E-05
Th-231	3.2E-03	3.9E-05	1.5E-04	4.6E-08	1.7E-08
Ra-228	2.0E-03	2.9E-06	3.4E-04	3.2E-08	1.2E-08
Actinium (Ac)-228	2.0E-03	2.9E-06	3.4E-04	3.2E-08	1.2E-08
Pa-231	2.0E-04	5.9E-05	2.6E-05	1.3E-07	3.9E-08
Ac-227	2.0E-04	5.0E-05	2.2E-05	1.1E-07	3.4E-08

^a Release rate based on 365-day period at a respective flow rate as presented in Table A.4-4 as determined from the average annual wind speed (4.446 m/sec) and the effective site area as presented in Table A.4-3 for each location.

4.7 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment 2. The effective area factor input was taken from Table A.4-3. Results show compliance with the 10 mrem/yr (0.1 mSv/yr) criterion for all critical receptors. Table A.4-6 summarizes the results.

Table A.4-6. Latty Avenue Properties CAP88-PC Results for Critical Receptors

Source	Dose (mrem/yr)			
	Resident ^a	School ^b	Business ^b	Farm ^a
HISS ^c	0.8	0.1	2.7	0.7
Futura	<0.1	<0.1	0.1	<0.1
VP-02(L)	0.1	<0.1	0.1	<0.1
VPs 54 and 55	<0.1	<0.1	<0.1	<0.1
Hazelwood Avenue and VP-53	<0.1	<0.1	<0.1	<0.1
Latty Avenue Properties Total Dose	1.0	0.2	3.0	1.0

^a Occupancy factor is 100 percent for resident and farm.

^b Corrected for the 23 percent occupancy factor (50 weeks/year 40 hours/week).

^c Distance from receptor to fenceline is 50 m. Distance from receptor to emission source from the HISS is 110 m.

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5.0 ST. LOUIS AIRPORT SITE AND ST. LOUIS AIRPORT SITE VICINITY PROPERTIES UNDER ACTIVE REMEDIATION

5.1 SITE HISTORY

The Manhattan Engineer District acquired the SLAPS in 1946 to store uranium (U)-bearing residuals generated at the St. Louis Downtown Site (SLDS) from 1946 until 1966. In 1966, these residuals were purchased by Continental Mining and Milling Company of Chicago, removed from the SLAPS, and placed in storage at the Latty Avenue HISS under an Atomic Energy Commission license. After most of the residuals were removed, site structures were demolished and buried on the property along with approximately 60 truckloads of scrap metal and a vehicle that had become contaminated. In 1973, the U.S. Government and the City of St. Louis agreed to transfer ownership from Atomic Energy Commission to the St. Louis Airport Authority. The USACE conducted cleanup operations on the SLAPS from 1998 to 2007. Although excavations have concluded at the SLAPS, a small portion of the site is still used to conduct waste storage and loadout activities.

5.2 MATERIAL HANDLING AND PROCESSING FOR CALENDAR YEAR 2010

During CY 2010, excavations were conducted on VPs 54 and 55, Hazelwood Avenue, McDonnell Boulevard, VPs 05 and 06, VP-12, and VP-63 and waste loadout activities were conducted at the SLAPS loadout facility. Air particulate samples were collected around excavation perimeters during active excavation on SLAPS VPs and around the SLAPS loadout area throughout CY 2010. Analytical results of air particulate samples were used to determine windblown *in situ* emissions.

Several SLAPS VPs (Hazelwood Avenue [including VP-53] and VPs 54 and 55) at which remedial action occurred in CY 2010, VPs 54 and 55, and Hazelwood Avenue, were in closer proximity to the Latty Avenue Properties receptors than to the SLAPS receptors. Therefore, the doses due to air particulate emissions from these sites were included in the Latty Avenue Properties dose evaluation (Section 4.0).

5.3 SOURCE DESCRIPTION – RADIONUCLIDE SOIL CONCENTRATIONS

The radionuclide concentrations for each site were obtained from data contained in Table D-5 of *Feasibility Study for the St. Louis North County Site* (USACE 2003). Attachment 1 contains a summary table of the radionuclide concentrations used to calculate the emission rate from the site.

5.4 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2010

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, are assumed for the particulate radionuclide emission determinations from the SLAPS VPs where excavations occurred in CY 2010. Other SLAPS VPs do not contribute to the emission determinations for periods of inactivity due to the low activity and vegetative cover.

5.5 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown in Figure A-2 and presented in Table A.5-1. Distances and directions to critical receptors are based on measurements on the USGS 7.5-minute Florissant Quadrangle Map.

Table A.5-1. SLAPS Critical Receptors

Sources	Resident		Farm		Business		School	
	Dist. ^a	Dir. ^a	Dist. ^a	Dir. ^a	Dist. ^a	Dir. ^a	Dist. ^a	Dir. ^a
McDonnell Boulevard	680	NNE	1,670	NNE	950	W	2,050	ENE
VPs 05 and 06	1,740	E	2,340	NE	950	SE	3,610	E
VP-12	1,290	ENE	2,095	NE	350	SE	3,105	E
VP-63	1,550	SE	1,645	E	1640	S	3,305	SE
SLAPS Loadout ^b	770	NE	1,710	NE	500	WSW	2,580	E

^a Dist. = Distance in m; Dir. = Direction.

^b Distance from receptor to fence line is 160 m. Distance from receptor to center of source is 500 m for emissions determination.

5.6 EMISSIONS DETERMINATION

5.6.1 Measured Airborne Radioactive Particulate Emissions

Particulate air samples were collected from four locations around the perimeter of the SLAPS to measure the radionuclide emissions. The samples provide the basis for determining the radionuclide emission rates during all of CY 2010. The average gross alpha and beta concentrations in $\mu\text{Ci}/\text{mL}$ are determined for each sample location for CY 2010. The site average concentrations are presented in Table A.5-2.

Table A.5-2. SLAPS Average Gross Alpha and Beta Airborne Particulate Emissions

Monitoring Location	Average Concentration ($\mu\text{Ci}/\text{mL}$)	
	Gross Alpha	Gross Beta
McDonnell Blvd	5.8E-15	2.1E-14
VPs 05 and 06	2.3E-15	1.2E-14
VP-12	7.6E-15	5.6E-14
VP-63	9.9E-15	3.1E-14
SLAPS Loadout	4.7E-15	2.3E-14
Background Concentration ^a	2.5E-15	1.8E-14

^a These concentrations are provided only for informational purpose. As a conservative approach, background values were not subtracted from the gross average concentration during the determination of EDE.

Radionuclide activity fractions are determined for alpha and beta from the average radionuclide concentration data contained in Table D-5 of *Feasibility Study for the St. Louis North County Site* (USACE 2003). The product of each radionuclide activity fraction and the gross concentration provides the radionuclide emission concentration as measured in $\mu\text{Ci}/\text{cm}^3$. The gross average concentration ($\mu\text{Ci}/\text{cm}^3$) is converted to a release (emission) rate (Ci/yr) using Equations (1) and (2). The emission rates are summarized in Table A.5-5.

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 is the effective diameter of the release (m), and
 A is the area of the stack, vent, or release point (m²).

Table A.5-3 provides the effective surface area available for release of airborne radionuclides normalized to one year and the effective diameter for SLAPS and the SLAPS VPs that were excavated in CY 2010. Calculation of the effective surface area can be referenced in Attachment 1.

Table A.5-3. SLAPS/SLAPS VPs Excavation Effective Areas and Effective Diameters

Location	Effective Area (m ²)	Effective Diameters (m)
McDonnell Blvd	59	9
VPs 05 and 06	2	2
VP-12	629	29
VP-63	12	4
SLAPS Loadout	1095	38

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

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

where:

- V is the wind velocity (m/min) = 266.76 m/min,
 F is the flow rate (m³/min),
 π is a mathematical constant, and
 D is the effective diameter of the release determined using Equation (1) above (m).

Converting the velocity of emissions from the sites to an effective flow rate results in the following site release flow rates for the SLAPS and SLAPS VPs areas as listed in Table A.5-4. 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 illustrated in Table A.5-5. Attachment 1 can be referenced for flow rate and average radionuclide concentration data.

Table A.5-4. SLAPS/SLAPS VPs Site Release Flow Rates

Location	Site Release Flow Rate (m ³ /min)
McDonnell Boulevard	1.6E+04
VPs 05 and 06	6.1E+02
VP-12	1.7E+05
VP-63	3.4E+03
SLAPS Loadout	3.0E+05

5.6.2 St. Louis Airport Site and St. Louis Airport Site Vicinity Properties Total Airborne Radioactive Particulate Emission Rates

The SLAPS and SLAPS VPs' total CY 2010 emission/release rates that were input into the USEPA codes are shown in Table A.5-5 and are based on the measured emission rates from the air samples collected from the perimeter of the site or excavations as appropriate.

Table A.5-5. SLAPS/SLAPS VPs Total Airborne Radioactive Particulate Emission Rates

Radionuclide	Emission (Ci/yr) ^a				
	McDonnell Blvd	VPs 5 and 6	VP-12	VP-63	SLAPS Loadout
U-238	6.0E-06	8.6E-09	1.5E-04	2.0E-07	5.0E-05
U-235	2.9E-07	3.7E-10	2.4E-07	8.7E-09	4.7E-07
U-234	6.0E-06	8.6E-09	5.5E-06	2.0E-07	9.8E-06
Ra-226	2.4E-06	5.0E-09	2.9E-05	1.2E-07	1.1E-05
Th-232	2.3E-06	7.2E-10	2.7E-05	1.7E-08	1.0E-05
Th-230	2.7E-05	7.2E-07	4.6E-04	1.7E-05	1.8E-04
Th-228	1.8E-06	7.2E-10	4.6E-07	1.7E-08	2.5E-06
Ra-224	1.8E-06	7.2E-10	4.6E-07	1.7E-08	2.5E-06
Th-234	7.1E-05	1.8E-06	2.5E-03	2.6E-05	5.4E-04
Pa-234m	7.1E-05	1.8E-06	2.5E-03	2.6E-05	5.4E-04
Th-231	3.4E-06	7.9E-08	3.9E-06	1.1E-06	5.0E-06
Ra-228	1.6E-05	5.5E-08	2.7E-06	7.8E-07	2.0E-05
Ac-228	1.6E-05	5.5E-08	2.7E-06	7.8E-07	2.0E-05
Pa-231	8.0E-07	5.7E-09	3.7E-06	1.3E-07	2.2E-06
Ac-227	6.0E-07	5.0E-09	3.2E-06	1.2E-07	1.8E-06

^a Release rate based on 365-day period at a respective flow rate as presented in Table A.5-4 as determined from the average annual wind speed (4.446 m/sec) and the effective site area as presented in Table A.5-3 for each location.

5.7 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment 2. The effective area factor input was taken from Table A.5-3. Results show compliance with the 10 mrem/yr (0.1 mSv/yr) criterion for all critical receptors. Table A.5-6 summarizes the results.

Table A.5-6. SLAPS/SLAPS VPs CAP88-PC Results for Critical Receptors

Source	Dose (mrem/yr)			
	Resident ^a	School ^b	Business ^b	Farm ^a
McDonnell Boulevard	<0.1	<0.1	0.1	<0.1
VPs 05 and 06	<0.1	<0.1	<0.1	<0.1
VP-12	<0.1	<0.1	<0.1	<0.1
VP-63	<0.1	<0.1	<0.1	<0.1
SLAPS Loadout ^c	<0.1	<0.1	<0.1	<0.1
SLAPS/SLAPS VPs	0.1	<0.1	<0.1	<0.1

^a Occupancy factor is 100 percent for resident and farm.

^b Corrected for the 23 percent occupancy factor (50 weeks/year, 40 hours/week).

^c Distance from receptor to fence line is 160 m. Distance from receptor to center of source is 500 m for emissions determination.

6.0 U.S. ARMY CORPS OF ENGINEERS RADIOANALYTICAL LABORATORY

6.1 SITE DESCRIPTION

The USACE radioanalytical laboratory is located on VP-38. VP-38 is a SLAPS VP, owned by SuperValue, Inc. The USACE radioanalytical laboratory is bounded on the north, east, and west by SuperValue, Inc. property and on the south by Latty Avenue. The laboratory site covers approximately one acre of VP-38.

6.2 LIST OF ASSUMED AIR RELEASES FOR CALENDAR YEAR 2010

Emissions from USACE Radioanalytical Laboratory operations are assumed for the particulate radionuclide emission determinations from the Laboratory Site. There were no active excavations on VP-38 during CY 2010.

6.3 EFFLUENT CONTROLS

The effluent controls at the USACE laboratory during operations include performing all radioanalytical activities in fume hoods that exhaust to the outside air after passing through a high efficiency particulate air (HEPA) filter.

6.4 DISTANCES TO CRITICAL RECEPTORS

The distances to critical receptors are shown on Figure A-2 and listed in Table A.6-1. Distances and directions to critical receptors are based on measurements on the USGS 7.5-minute Florissant Quadrangle Map.

Table A.6-1. Laboratory Critical Receptors

Receptor	Distance (m)	Direction from Site
Nearest Resident	330	NE
School	1,830	SE
Business	110	S
Farm	310	NE

6.5 EMISSIONS DETERMINATIONS

6.5.1 Stack Emissions from U.S. Army Corps of Engineers Laboratory Operations

There are two potential sources of emissions from laboratory operations:

1. The drying and grinding operations for soil samples, and
2. The dissolution of soil and water samples.

To obtain an estimate of the emissions that these operations can cause, the methodology in Appendix D of 40 *CFR* 61, *Methods for Estimating Radionuclide Emissions*, was utilized. For the drying and grinding operations, a factor of 0.001 (applicable to liquids and powders) was applied to the entire annual laboratory inventory to determine the emissions for the year. For the dissolution operation; however, only five grams of any sample are used. Because the dissolution involved heating samples to near boiling temperatures, no adjustment was made to the dissolution inventory to determine the emissions (a factor of 1.0 as specified in Appendix D). To

account for the small aliquot utilized, the annual inventory was adjusted by a factor of 0.005 (the ratio of the five-gram aliquot to the one-kilogram sample mass) to estimate emissions. The two emission sources were then summed to determine the total laboratory source term.

Note that no credit is taken for emission controls serving the drying and grinding operations, even though Appendix D of 40 *CFR* 61 allows for credit to be taken for the HEPA filters installed on the grinder equipment. The calculated source term therefore provides a conservative basis on which to determine compliance with USEPA guidance in 40 *CFR* 61.

To determine whether the laboratory complies with the 10 mrem/yr (0.1 mSv/yr) limit specified in 40 *CFR* 61, Subpart I, the annual inventory handled by the laboratory had to be determined. The actual number of samples handled by the laboratory was reported as shown in Table A.6-2. With this data, the following equation was used to calculate laboratory emissions from the operations conducted in CY 2010.

$$\text{Emission Rate (Ci/yr)} = C * [N_1 * F_1 + N_2 * F_2] * 1,000 \text{ grams/sample} * 1E-12 \text{ (curies per picocuries)}$$

where:

- C = the concentration of a radionuclide of concern in a sample type (picocuries per gram),
 N₁ = the number of samples involved in drying/grinding operation
 N₂ = the number of samples involved in separations operation
 F = the appropriate correction factor (i.e., 0.001 for drying/grinding [F₁] or 0.005 for dissolution [F₂])

Table A.6-2. Laboratory Annual Sample Inventory

Site	Type	Gamma	IsoRa ^c	IsoTh ^c	IsoU ^c	Total Drying and Grinding ^a	Total Separations ^b
HISS	soil	167	0	160	0	167	160
HISS	water	0	18	17	17	0	52
Latty Avenue Properties	soil	778	0	702	0	778	702
Latty Avenue Properties	water	2	47	46	3	2	96
SLAPS	soil	650	0	633	0	650	633
SLAPS	water	38	48	48	13	38	109
SLAPS VPs	soil	1,168	0	1,052	0	1,168	1,052
SLAPS VPs	water	3	71	69	4	3	144
Coldwater Creek	sediment (soil)	7	0	7	0	7	7
Coldwater Creek	water	0	7	7	7	0	21
SLDS	soil	2,814	0	2,639	0	2,814	2,639
SLDS	water	0	73	72	8	0	153
Total		5627	264	5452	52	5,627	5,768
HISS and Latty Avenue Properties					Total	945	1,010
SLAPS, SLAPS VPs, and Coldwater Creek					Total	1,825	1,966
SLDS					Total	2,193	2,814

^a Assumes all soil samples went through a drying/grinding process.

^b Assumes all soil and water samples for isotopic radium, thorium, and uranium went through a separations process.

^c Assumes isotopic radium, thorium, and uranium occur in separate and distinct processes.

Notes:

Sample data from the lab did not separate Latty Avenue Properties from SLAPS VPs samples. Based on a property-specific summary, 40 percent of NC Sites samples were assumed to be from Latty Avenue Properties; the remainder was assumed to be from SLAPS VPs.

Coldwater Creek samples use SLAPS characterization data to determine release rates.

6.5.2 Laboratory Total Airborne Radioactive Particulate Emission Rates

The laboratory total CY 2010 emission rate was input into the USEPA CAP88-PC code. The total emission rates are shown in Table A.6-3 as the calculated emissions from laboratory operations. The result was then used to calculate total dose to the hypothetical maximally exposed receptor. Calculation of emission rates can be referenced in Attachment 1.

Table A.6-3. Laboratory Total Airborne Radioactive Particulate Emission Rates

Radionuclide	Emission (Ci/yr) ^a
U-238	1.4E-06
U-235	6.3E-08
U-234	1.3E-06
Ra-226	3.3E-07
Th-232	8.0E-08
Th-230	9.4E-07
Th-228	6.9E-08
Ra-224	6.9E-08
Th-234	1.4E-06
Pa-234m	1.4E-06
Th-231	6.3E-08
Ra-228	6.5E-08
Ac-228	6.5E-08
Pa-231	1.4E-07
Ac-227	1.2E-07

^a Total emission rate is the sum of individual emission rates that were determined by using the calculation in Section 7.5.1.

6.6 CAP88-PC RESULTS

The CAP88-PC report is contained in Attachment 2. The stack factor input was 3 m high and 0.3 m in diameter. This evaluation demonstrates that all USACE Radioanalytical Laboratory critical receptors receive less than 10 percent of the dose standard in 40 *CFR* 61.102, and therefore, the laboratory is exempt from the reporting requirement of 40 *CFR* 61.104(a). Table A.6-4 summarizes the results.

Table A.6-4. Laboratory CAP88-PC Results for Critical Receptors

Receptor	Distance (m)	Direction from Site	Dose (mrem/yr)
Nearest Resident ^a	330	NE	<0.1
School ^b	1,830	SE	<0.1
Business ^b	110	S	<0.1
Farm ^a	310	NE	<0.1

^a Occupancy factor is 100 percent for resident and farm.

^b Corrected for the 23 percent occupancy factor (50 weeks/year; 40 hours/week).

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7.0 REFERENCES

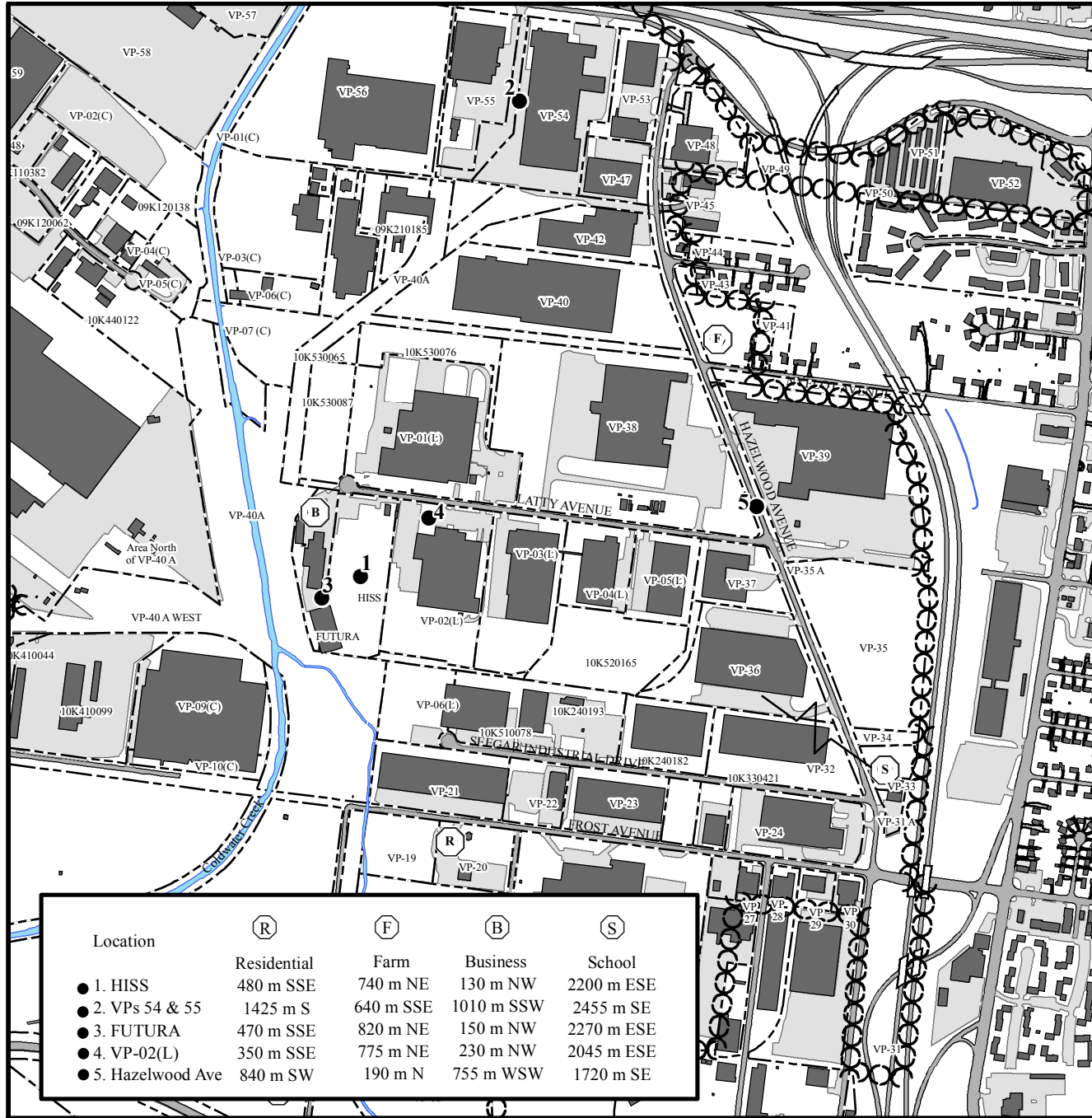
- USACE 2003. *Feasibility Study for the St. Louis North County Site*, U.S. Army Corps of Engineers, St. Louis District Office, FUSRAP. Final, May.
- USEPA 1989. EPA 520/1-89-002, *A Guide for Determining Compliance with the Clean Air Act Standards for Radionuclide Emissions From NRC-Licensed and Non-DOE Federal Facilities*, U.S. Environmental Protection Agency, Office of Radiation Programs, Washington, DC, October.
- USEPA 2007. CAP88-PC Version 3.0 Computer Code, U.S. Environmental Protection Agency, December.
- 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 Subpart D. *Method for Estimating Radionuclide Emissions*.
- 40 CFR 61 Appendix E. *Compliance Procedures Methods for Determining Compliance with Subpart I*.

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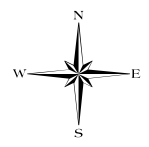
APPENDIX A

FIGURES

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- LEGEND:**
- Latty Ave Critical Receptors
 - XXX ROD Boundary
 - ▭ Parcel Boundaries
 - Buildings
 - Parking Lots
 - ▬ Road
 - ▬ River/Stream



MO-East State Plane
(NAD 83, Feet)

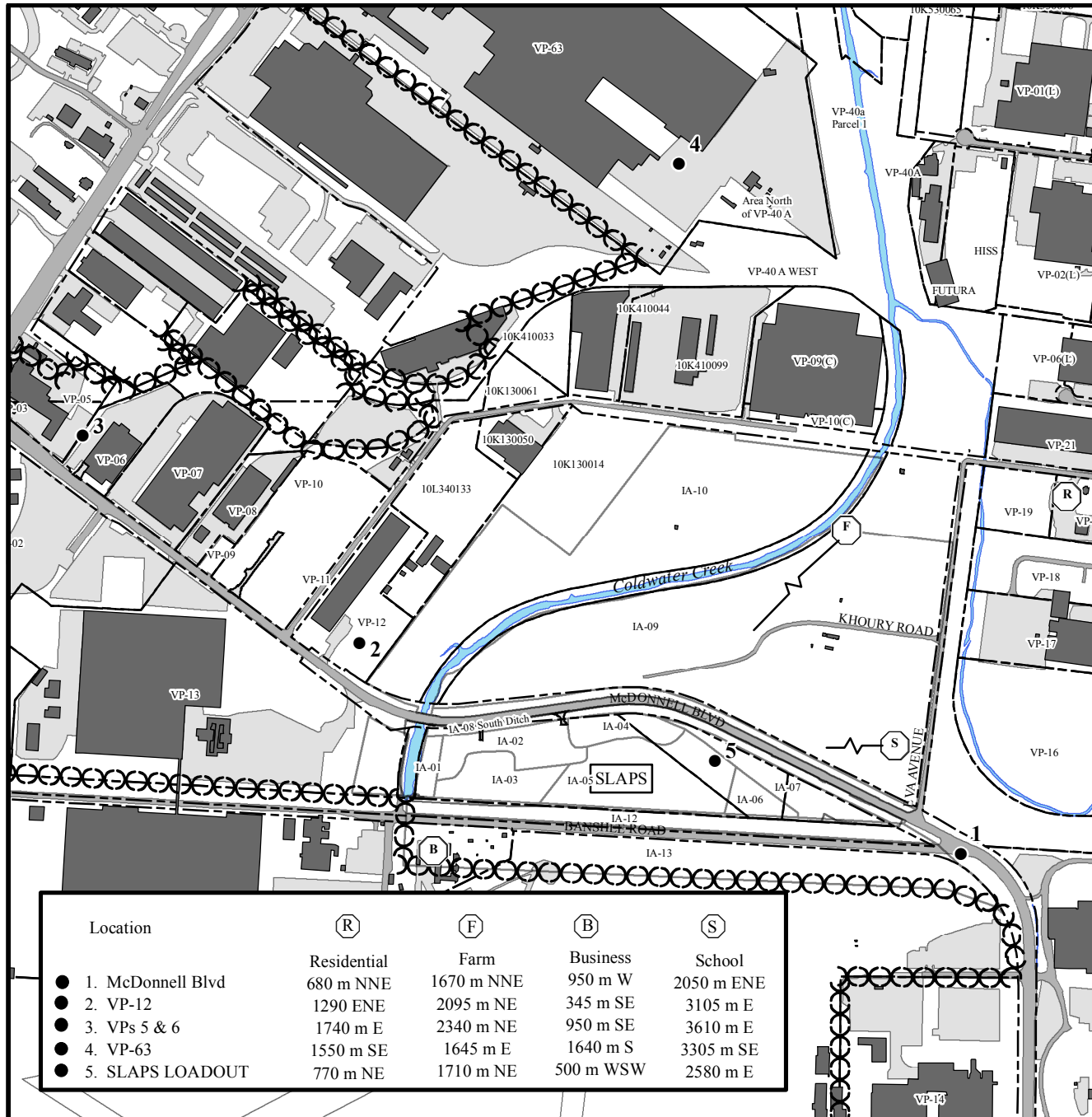
0 115 230 Meters

Location	(R)	(F)	(B)	(S)
● 1. HISS	Residential 480 m SSE	Farm 740 m NE	Business 130 m NW	School 2200 m ESE
● 2. VPs 54 & 55	1425 m S	640 m SSE	1010 m SSW	2455 m SE
● 3. FUTURA	470 m SSE	820 m NE	150 m NW	2270 m ESE
● 4. VP-02(L)	350 m SSE	775 m NE	230 m NW	2045 m ESE
● 5. Hazelwood Ave	840 m SW	190 m N	755 m WSW	1720 m SE

Figure A-1.
Latty Avenue Properties
Critical Receptors



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- LEGEND:
- Parcel Boundaries
 - ROD Boundary
 - Buildings
 - Parking Lots
 - Road



MO-East State Plane
(NAD 83, Feet)

0 115 230 Meters

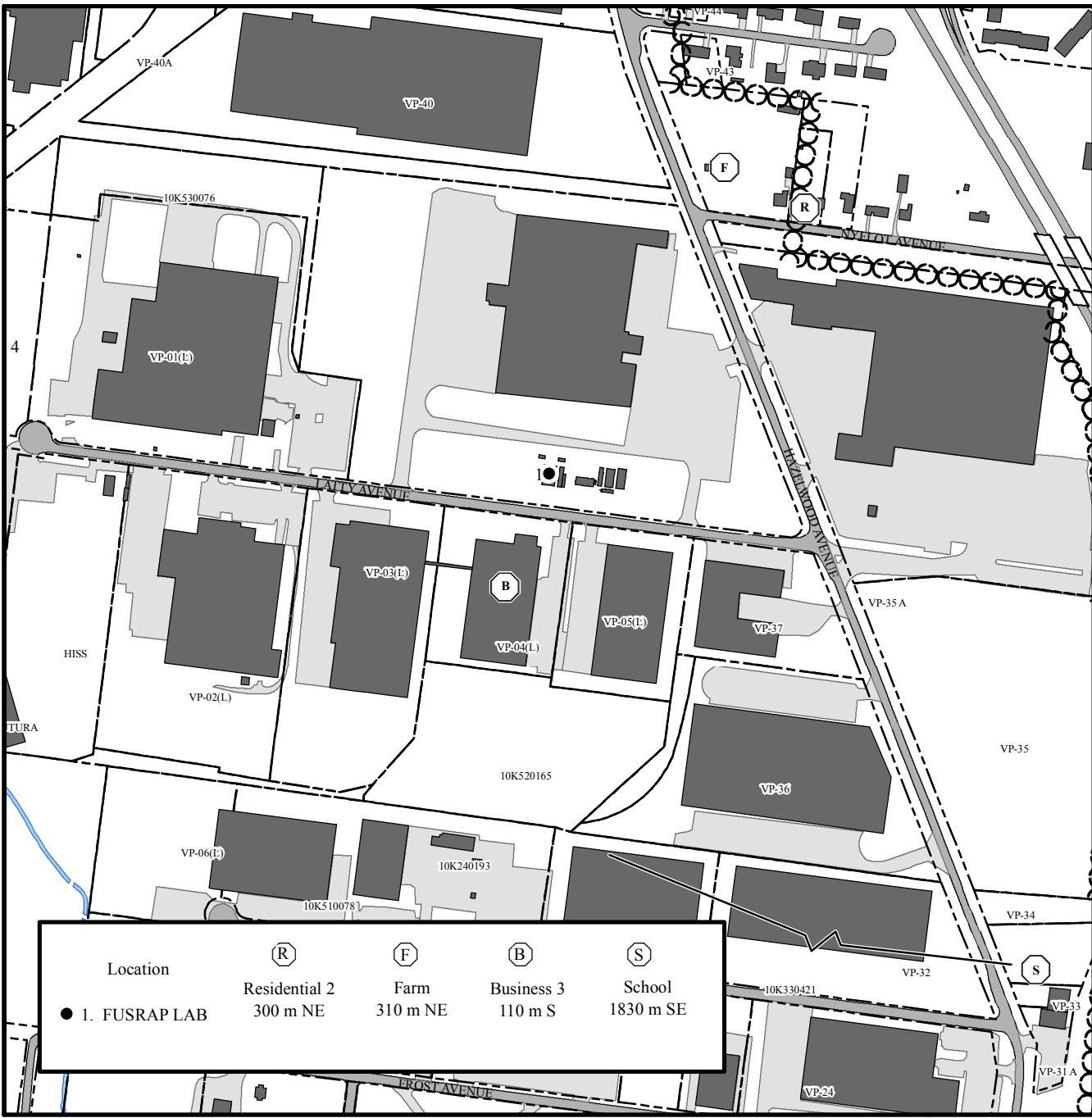
Figure A-2.
SLAPS and SLAPS VPs
Critical Receptors



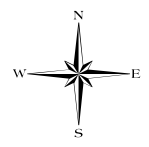
Location	(R)	(F)	(B)	(S)
● 1. McDonnell Blvd	Residential 680 m NNE	Farm 1670 m NNE	Business 950 m W	School 2050 m ENE
● 2. VP-12	1290 ENE	2095 m NE	345 m SE	3105 m E
● 3. VPs 5 & 6	1740 m E	2340 m NE	950 m SE	3610 m E
● 4. VP-63	1550 m SE	1645 m E	1640 m S	3305 m SE
● 5. SLAPS LOADOUT	770 m NE	1710 m NE	500 m WSW	2580 m E

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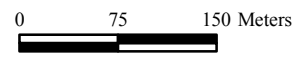
U:\GPS\EMD\AR\INCO Projects\FY2011\Rev0\Figure A-3 FUSRAP Lab Critical Receptors.mxd



- LEGEND:
- ROD Boundary
 - Buildings
 - Parcel Boundaries
 - Parking Lots
 - Road



MO-East State Plane
(NAD 83, Feet)



Location				
1. FUSRAP LAB	Residential 2 300 m NE	Farm 310 m NE	Business 3 110 m S	School 1830 m SE

Figure A-3.
FUSRAP
Lab Critical Receptors



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ATTACHMENT 1
CALCULATED EMISSION RATES FROM NC PROPERTIES

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Table A1-1. Latty Avenue Properties Soil Radionuclide Concentrations

Property	HISS ^a	Futura ^a	VP-02(L) ^a	VPs 54 and 55 ^b	Hazelwood Avenue and VP-53 ^c
Radionuclide	Average Concentration (pCi/g)				
U-238	17.1	54.2	10.3	10.6	2.5
U-235	1.6	2.5	0.5	0.006	0.002
U-234	17.1	54.2	10.3	0.1	0.05
Ra-226	9.6	46	2.7	2.06	0.6
Ra-228	1.0	0.2	1.1	0.004	0.002
Th-232	1.8	2.3	2.0	2.7	0.8
Th-230	51.9	102	119	11.8	4.3
Th-228	1.0	2.3	1.1	0.01	0.004
Pa-231	1.67	59.8	3.5	0.09	0.03
Ac-227	1.68	50.6	3.0	0.08	0.03

^a Radionuclides and concentrations from St. Louis FUSRAP Feasibility Study Appendix D, Attachment 5 (USACE 2003).

^b Radionuclides and concentrations for an adjacent property (VP-53) from the St. Louis FUSRAP Feasibility Study, Appendix D, Attachment 5 (USACE 2003), were used because data for VPs 54 and 55 were unavailable.

^c Radionuclides and concentrations were derived by averaging the data from all Hazelwood AVE ROW VPs where excavations took place (i.e., VPs 31A, 32, 35, 35A, 39, 40, 42, 47, and 53). Data from St. Louis FUSRAP Feasibility Study, Appendix D, Attachment 5 (USACE 2003).

Table A1-2. Latty Avenue Properties Average Gross Alpha and Beta Airborne Particulate Emissions

Location	Average Concentration ($\mu\text{Ci/mL}$) for Location ^a	
	Gross Alpha	Gross Beta
Futura	4.7E-15	2.2E-14
HISS	4.4E-15	2.7E-14
VP-02(L)	3.6E-15	2.5E-14
VPs 54 and 55	4.5E-15	1.9E-14
Hazelwood Avenue and VP-53	3.3E-15	1.3E-14
Background Concentration ^b	2.5E-15	1.8E-14

^a Average concentration values for the sampling period by location.

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

Table A1-3. Latty Avenue Properties Excavation Data

USACE Location Name	Surface Area (m²)	Start Date	Backfill Date
FUTURA/HISS - SU-12A	310	01/01/10	03/02/10
FUTURA/HISS - SU-12B	206	02/01/10	03/02/10
FUTURA/HISS - SU-12C	291	02/10/10	04/05/10
FUTURA/HISS - SU-12D	210	03/15/10	05/17/10
FUTURA/HISS - SU-12E	388	03/15/10	05/24/10
FUTURA/HISS - SU-12F	581	04/19/10	06/21/10
FUTURA/HISS - SU-13A	345	06/24/10	08/17/10
FUTURA/HISS - SU-13B	556	08/02/10	08/26/10
FUTURA/HISS - SU-13C	23	10/19/10	11/04/10
FUTURA/HISS - SU-13D	255	10/26/10	11/23/10
FUTURA/HISS - SU-13E	600	11/18/10	12/31/10
FUTURA/HISS - SU-11F	124	01/01/10	01/26/10
FUTURA/HISS - SU-11G	8	06/28/10	07/01/10
FUTURA/HISS - SU-11H	18	06/29/10	07/08/10
FUTURA/HISS - SU-11J	28	08/20/10	08/26/10
FUTURA/HISS - SU-11K	147	08/19/10	08/31/10
FUTURA/HISS - SU-11M	87	09/08/10	09/23/10
FUTURA/HISS - SU-11I	183	08/14/10	08/30/10
FUTURA/HISS - SU-11L	270	08/30/10	09/20/10
FUTURA/HISS - SU-10B	776	01/01/10	07/28/10
FUTURA/HISS - SU-14A	832	08/05/10	10/13/10
FUTURA/HISS - SU-14B	1,216	01/01/10	11/04/10
FUTURA/HISS - SU-15A	820	01/01/10	12/07/10
FUTURA/HISS - SU-15B	99	11/16/10	12/22/10
FUTURA/HISS - SU-15C	315	01/01/10	12/15/10
FUTURA/HISS - SU-15D	890	12/08/10	12/31/10
HISS Non-Excavated Areas	17,052	01/01/10	12/31/10
VP-02(L) - EA-1A	452	01/01/10	02/25/10
VP-02(L) - EA-1B	490	01/06/10	02/25/10
VP-02(L) - EA-2	32	01/01/10	01/05/10
VP-02(L) - EA-5	125	01/01/10	01/05/10
VP-02(L) - EA-6	57	02/01/10	02/22/10
VP-02(L) - EA-7	26	01/01/10	01/05/10
VP-02(L) - EA-8A	388	01/20/10	02/25/10
VP-02(L) - EA-8B	27	10/20/10	11/09/10
VP-02(L) - EA-9A	1,594	03/01/10	04/14/10
VP-02(L) - EA-9B	279	03/16/10	04/28/10
VP-02(L) - EA-9C	1,264	04/12/10	05/13/10
VP-02(L) - EA-9D	1,355	04/19/10	05/26/10
VP-02(L) - EA-9E	922	05/03/10	06/16/10
VP-02(L) - EA-9F	732	05/12/10	06/14/10
VP-02(L) - EA-9G	774	05/17/10	07/01/10
VP-02(L) - EA-9H	546	06/07/10	07/08/10
VP-02(L) - EA-9I	1	08/05/10	10/26/10
VP-02(L) - EA-9J	17	09/23/10	11/08/10
VP-02(L) - EA-10A	2,636	02/02/10	03/25/10
VP-02(L) - EA-10B	3,332	02/18/10	04/14/10

Table A1-3. Latty Avenue Properties Excavation Data

USACE Location Name	Surface Area (m ²)	Start Date	Backfill Date
VP-02(L) - EA-11	50	01/01/10	01/05/10
VP-02(L) - EA-12A	310	01/01/10	11/09/10
VP-02(L) - EA-12B	63	10/13/10	11/09/10
Hazelwood Avenue - Area 15	42	03/08/10	03/11/10
VP-53 (SU-1)	147	04/28/10	06/15/10
VP-54 (SU-1)	167	03/24/10	04/15/10
VP-55 (SU-1)	591	04/05/10	05/04/10

Open/close dates set to start or stop at the calendar year boundary.

Table A1-4. Latty Avenue Properties Average Surface Area and Flow Rate per Location

Location	Total Days	Surface Area * Total Days	Average Surface Area/yr (m ²)	Diameter of Stack $D=(1.3*A)^{1/2}(m)$	Flow Rate $F=V*Pi*(D)^2/4$ (m ³ /min.)
Futura					
FUTURA/HISS - SU-12A	60	18,622			
FUTURA/HISS - SU-12B	29	5,982			
FUTURA/HISS - SU-12C	54	15,720			
FUTURA/HISS - SU-12D	63	13,229			
FUTURA/HISS - SU-12E	70	27,134			
FUTURA/HISS - SU-12F	63	36,595			
FUTURA/HISS - SU-13A	54	18,624			
FUTURA/HISS - SU-13B	24	13,333			
FUTURA/HISS - SU-13C	16	367			
FUTURA/HISS - SU-13D	28	7,152			
FUTURA/HISS - SU-13E	43	25,800			
FUTURA/HISS - SU-11F	25	3,100			
FUTURA/HISS - SU-11G	3	25			
FUTURA/HISS - SU-11H	9	164			
FUTURA/HISS - SU-11J	6	166			
FUTURA/HISS - SU-11K	12	1,760			
FUTURA/HISS - SU-11M	15	1,301			
FUTURA/HISS - SU-11I	16	2,923			
FUTURA/HISS - SU-11L	21	5,670			
	Total	197,669	542	27	1.5E+05
HISS					
FUTURA/HISS - SU-10B	208	161,323			
FUTURA/HISS - SU-14A	69	57,418			
FUTURA/HISS - SU-14B	307	373,312			
FUTURA/HISS - SU-15A	340	278,964			
FUTURA/HISS - SU-15B	36	3,568			
FUTURA/HISS - SU-15C	348	109,583			
FUTURA/HISS - SU-15D	23	20,461			
HISS Non-Excavated Areas	364	6,206,928			
	Total	7,211,557	19,758	160	5.4E+06

Table A1-4. Latty Avenue Properties Average Surface Area and Flow Rate per Location (Continued)

	Total Days	Surface area * Total Days	Average Surface Area/yr (m2)	Diameter of Stack D=(1.3A)^{1/2} (m)	Flow Rate F=V*Pi*(D)²/4 (m3/min.)
VP-02L					
VP-02(L) - EA-1A	55	24,860			
VP-02(L) - EA-1B	50	24,522			
VP-02(L) - EA-2	4	130			
VP-02(L) - EA-5	4	499			
VP-02(L) - EA-6	21	1,194			
VP-02(L) - EA-7	4	104			
VP-02(L) - EA-8A	36	13,951			
VP-02(L) - EA-8B	20	537			
VP-02(L) - EA-9A	44	70,136			
VP-02(L) - EA-9B	43	12,011			
VP-02(L) - EA-9C	31	39,178			
VP-02(L) - EA-9D	37	50,121			
VP-02(L) - EA-9E	44	40,581			
VP-02(L) - EA-9F	33	24,154			
VP-02(L) - EA-9G	45	34,813			
VP-02(L) - EA-9H	31	16,921			
VP-02(L) - EA-9I	82	103			
VP-02(L) - EA-9J	46	782			
VP-02(L) - EA-10A	51	134,433			
VP-02(L) - EA-10B	55	183,272			
VP-02(L) - EA-11	4	201			
VP-02(L) - EA-12A	312	96,670			
VP-02(L) - EA-12B	27	1,710			
	Total	770,881	2,112	52	5.8E+05
Hazelwood Avenue					
Hazelwood Avenue - Area 15	3	126			
VP-53 (SU-1)	48	7,056			
	Total	7,182	20	5	5.4E+03
VPs 54 and 55					
VP-54 (SU-1)	22	3,674			
VP-55 (SU-1)	29	17,139			
	Total	20,813	57	9	1.6E+04

Table A1-5. Latty Avenue Properties Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples ^a

Property	Futura			HISS			VP-02L			VPs 54 and 55		
	Radionuclide	Activity Fraction ^a	Emission Conc. (uCi/cm ³) ^b	Release Rate (Ci/y) ^c	Activity Fraction ^a	Emission Conc. (uCi/cm ³) ^b	Release Rate (Ci/y) ^c	Activity Fraction ^a	Emission Conc. (uCi/cm ³) ^b	Release Rate (Ci/y) ^c	Activity Fraction ^a	Emission Conc. (uCi/cm ³) ^b
U-238	0.14	6.8E-16	5.4E-05	0.16	7.2E-16	2.0E-03	0.07	2.4E-16	7.4E-05	0.39	1.7E-15	1.5E-05
U-235	0.01	3.1E-17	2.5E-06	0.02	6.7E-17	1.9E-04	0.00	1.1E-17	3.4E-06	0.00	1.0E-18	8.5E-09
U-234	0.14	6.8E-16	5.4E-05	0.16	7.2E-16	2.0E-03	0.07	2.4E-16	7.4E-05	0.01	2.3E-17	2.0E-07
Ra-226	0.12	5.8E-16	4.5E-05	0.09	4.0E-16	1.1E-03	0.02	6.4E-17	2.0E-05	0.07	3.4E-16	2.8E-06
Th-232	0.01	2.9E-17	2.3E-06	0.02	7.5E-17	2.1E-04	0.01	4.6E-17	1.4E-05	0.10	4.4E-16	3.7E-06
Th-230	0.27	1.3E-15	1.0E-04	0.50	2.2E-15	6.2E-03	0.78	2.8E-15	8.6E-04	0.43	1.9E-15	1.6E-05
Th-228	0.01	2.9E-17	2.3E-06	0.01	4.1E-17	1.2E-04	0.01	2.5E-17	7.6E-06	0.00	1.9E-18	1.6E-08
Ra-224	0.01	2.9E-17	2.3E-06	0.01	4.1E-17	1.2E-04	0.01	2.5E-17	7.6E-06	0.00	1.9E-18	1.6E-08
Th-234	0.49	1.1E-14	8.5E-04	0.45	1.2E-14	3.4E-02	0.44	1.1E-14	3.3E-03	0.50	9.3E-15	7.9E-05
Pa-234m	0.49	1.1E-14	8.5E-04	0.45	1.2E-14	3.4E-02	0.44	1.1E-14	3.3E-03	0.50	9.3E-15	7.9E-05
Th-231	0.02	4.9E-16	3.9E-05	0.04	1.1E-15	3.2E-03	0.02	5.0E-16	1.5E-04	0.00	5.4E-18	4.6E-08
Ra-228	0.00	3.7E-17	2.9E-06	0.03	7.0E-16	2.0E-03	0.05	1.1E-15	3.4E-04	0.00	3.7E-18	3.2E-08
Ac-228	0.00	3.7E-17	2.9E-06	0.03	7.0E-16	2.0E-03	0.05	1.1E-15	3.4E-04	0.00	3.7E-18	3.2E-08
Pa-231	0.16	7.5E-16	5.9E-05	0.02	7.0E-17	2.0E-04	0.02	8.4E-17	2.6E-05	0.00	1.6E-17	1.3E-07
Ac-227	0.13	6.3E-16	5.0E-05	0.02	7.0E-17	2.0E-04	0.02	7.1E-17	2.2E-05	0.00	1.4E-17	1.1E-07

Table A1-5. Latty Avenue Properties Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples^a
(Continued)

Property	Hazelwood Ave		
	Radionuclide	Activity Fraction ^a	Emission Conc. (uCi/cm ³) ^b
U-238	0.30	1.0E-15	2.8E-06
U-235	0.00	8.9E-19	2.5E-09
U-234	0.01	2.1E-17	5.8E-08
Ra-226	0.07	2.4E-16	6.8E-07
Th-232	0.09	3.1E-16	8.8E-07
Th-230	0.52	1.7E-15	4.9E-06
Th-228	0.00	1.7E-18	4.9E-09
Ra-224	0.00	1.7E-18	4.9E-09
Th-234	0.50	6.7E-15	1.9E-05
Pa-234m	0.50	6.7E-15	1.9E-05
Th-231	0.00	5.9E-18	1.7E-08
Ra-228	0.00	4.1E-18	1.2E-08
Ac-228	0.00	4.1E-18	1.2E-08
Pa-231	0.00	1.4E-17	3.9E-08
Ac-227	0.00	1.2E-17	3.4E-08

^a Derived from the average soil radionuclide concentrations from St. Louis FUSRAP Feasibility Study Table D-5 (USACE 2003). Average soil radionuclide concentrations are presented in Table A1-1. Activity fractions have been rounded; non-rounded values were used in calculations.

^b Emission concentration is equal to the activity fraction * the gross alpha or gross beta airborne particulate concentrations listed in Table A1-2.

^c Release rate based on a 365-day period at measured flow rate (Table A1-4) for each site as determined from the average annual wind speed (4.446 meters/second) and calculated site area (Table A1-4). (Note: 1 mL = 1 cm³).

^d Note: When data was not available, the radionuclide was assumed to be in secular equilibrium with parent.

Table A1-6. SLAPS/SLAPS VPs Soil Radionuclide Concentrations^a

Property	McDonnell Boulevard ^a	VPs 5 and 6	VP-12	VP-63	SLAPS Loadout
Radionuclide	Average Concentration^b (pCi/g)				
Uranium-238	2.0	0.03	10.5	0.03	3
Uranium-235	0.1	0.001	0.02	0.001	0.03
Uranium-234	2	0.03	0.4	0.03	0.6
Radium-226	0.8	0.02	2.0	0.02	0.7
Radium-228	0.5	0.001	0.01	0.001	0.1
Thorium-232	0.8	0.003	2	0.003	0.6
Thorium-230	9.0	2.5	31.3	2.6	11.4
Thorium-228	0.6	0.003	0.03	0.003	0.2
Protactinium-231	0.3	0.02	0.3	0.02	0.1
Actinium-227	0.2	0.02	0.2	0.02	0.1

^a Soil radionuclide concentrations based upon average concentrations listed in the St. Louis FUSRAP Feasibility Study Table D-5 (USACE 2003) of the SLAPS VPs where excavations occurred (i.e., Investigation Area 13 and VP-15 rights of way).

^b Radionuclides and concentrations from St. Louis FUSRAP Feasibility Study Table D-5 (USACE 2003).

Table A1-7. SLAPS/SLAPS VPs Average Gross Alpha and Beta Airborne Particulate Emissions

Location	Average Concentration (uCi/ml) for Location ^a	
	Gross Alpha	Gross Beta
McDonnell Boulevard	5.8E-15	2.1E-14
VPs 5 and 6	2.3E-15	1.2E-14
VP-12	7.6E-15	5.6E-14
VP-63	9.9E-15	3.1E-14
SLAPS Loadout	4.7E-15	2.3E-14
Background Concentration ^b	2.5E-15	1.8E-14

^a Average concentration values for the sampling period by location.

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

Table A1-8. SLAPS/SLAPS VPs Excavation Data

USACE Location Name	Surface Area (m²)	Start Date	Backfill Date
McDonnell Boulevard - East Section(b) - SU-1A	194	09/04/10	09/21/10
McDonnell Boulevard - East Section(b) - SU-1B	73	09/18/10	09/21/10
McDonnell Boulevard - East Section(b) - SU-1C	162	09/25/10	10/14/10
McDonnell Boulevard - East Section(b) - SU-1D	157	09/25/10	10/13/10
McDonnell Boulevard - East Section(b) - SU-1E	1	10/05/10	10/21/10
McDonnell Boulevard - East Section(b) - PU-1D	46	11/20/10	12/31/10
McDonnell Boulevard - East Section(b) - PU-1E	250	11/20/10	12/31/10
VP-63/ SU-1	134.0	03/10/10	04/13/10
VP's 3-6 (SU-1)	29.0	05/17/10	06/14/10
VP-12C and 12E (SU-1A)	629.0	06/08/10	09/13/10
VP-12D (SU-1B)	256.0	07/07/10	08/11/10
VP-12G, 12H, and 12I (SU-1C)	28.9	08/02/10	08/11/10
VP-12A (SU-1G)	211.0	08/05/10	12/13/10
VP-12B (SU-1D)	66.0	08/05/10	08/11/10
VP-12F (SU-1E)	8.1	08/09/10	08/17/10
VP-12 (SU-1F) driveway	169.0	10/30/10	10/31/10
Coldwater Creek/VP-12A (SU-2A) East	399.0	08/05/10	11/10/10
Coldwater Creek/VP-12A (SU-2A) West	213.5	08/05/10	12/15/10
Coldwater Creek/VP-12A (SU-2B)	434.0	08/05/10	12/31/10
SLAPS Loadout	1,311	03/01/10	12/31/10

Open/close dates set to start or stop at calendar year boundary.

Table A1-9 SLAPS/SLAPS VPs Average Surface Area and Flow Rate Per Location

Location	Total Days	Surface Area * Total Days	Average Surface Area/yr (m ²)	Diameter of Stack $D=(1.3*A)^{1/2}$ (m)	Flow Rate $F=V*Pi*(D)^2/4$ (m ³ /min)
McDonnell Boulevard					
McDonnell Boulevard - East Section(b) - SU-1A	17	3,305			
McDonnell Boulevard - East Section(b) - SU-1B	3	219			
McDonnell Boulevard - East Section(b) - SU-1C	19	3,075			
McDonnell Boulevard - East Section(b) - SU-1D	18	2,833			
McDonnell Boulevard - East Section(b) - SU-1E	16	18			
McDonnell Boulevard - East Section(b) - PU-1D	41	1,886			
McDonnell Boulevard - East Section(b) - PU-1E	41	10,250			
	Total	21,586	59	9	1.6E+04
VP-63					
VP-63/ SU-1	34	4,556			
	Total	4,556	12	4	3.4E+03
VPs 5 and 6					
VP's 3-6 (SU-1)	28	812			
	Total	812	2	2	6.1E+02
VP-12					
VP-12C and 12E (SU-1A)	97	61,013			
VP-12D (SU-1B)	35	8,960			
VP-12G, 12H, and 12I (SU-1C)	9	260			
VP-12A (SU-1G)	130	27,430			
VP-12B (SU-1D)	6	396			
VP-12F (SU-1E)	8	64			
VP-12 (SU-1F) driveway	1	169			
Coldwater Creek/VP-12A (SU-2A) East	97	38,703			
Coldwater Creek/VP-12A (SU-2A) West	132	28,182			
Coldwater Creek/VP-12A (SU-2B)	148	64,235			
	Total	229,412	629	29	1.7E+05
SLAPS Loadout					
SLAPS Loadout	305	399,855			
	Total:	399,855	1,095	38	3.0.E+05

^a Average Surface Area/year = $[\Sigma(\text{Surface Area} \times \text{Total days})]/365$.

Table A1-10. SLAPS/SLAPS VPs Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples

Property	McDonnell Boulevard			VPs 5 and 6			VP-12			VP-63		
	Activity Fraction	Emission Conc. (uCi/cm ³)	Release Rate (Ci/y)	Activity Fraction	Emission Conc. (uCi/cm ³)	Release Rate (Ci/y)	Activity Fraction	Emission Conc. (uCi/cm ³)	Release Rate (Ci/y)	Activity Fraction	Emission Conc. (uCi/cm ³)	Release Rate (Ci/y)
U-238	0.12	7.2E-16	6.0E-06	0.01	2.7E-17	8.6E-09	0.23	1.7E-15	1.5E-04	0.01	1.1E-16	2.0E-07
U-235	0.01	3.5E-17	2.9E-07	0.00	1.2E-18	3.7E-10	0.00	2.7E-18	2.4E-07	0.00	4.9E-18	8.7E-09
U-234	0.12	7.2E-16	6.0E-06	0.01	2.7E-17	8.6E-09	0.01	6.1E-17	5.5E-06	0.01	1.1E-16	2.0E-07
Ra-226	0.05	2.8E-16	2.4E-06	0.01	1.6E-17	5.0E-09	0.04	3.2E-16	2.9E-05	0.01	6.6E-17	1.2E-07
Th-232	0.05	2.7E-16	2.3E-06	0.00	2.2E-18	7.2E-10	0.04	3.0E-16	2.7E-05	0.00	9.4E-18	1.7E-08
Th-230	0.55	3.2E-15	2.7E-05	0.95	2.2E-15	7.2E-07	0.67	5.1E-15	4.6E-04	0.95	9.4E-15	1.7E-05
Th-228	0.04	2.1E-16	1.8E-06	0.00	2.2E-18	7.2E-10	0.00	5.1E-18	4.6E-07	0.00	9.4E-18	1.7E-08
¹ Ra-224	0.04	2.1E-16	1.8E-06	0.00	2.2E-18	7.2E-10	0.00	5.1E-18	4.6E-07	0.00	9.4E-18	1.7E-08
² Th-234	0.40	8.4E-15	7.1E-05	0.48	5.7E-15	1.8E-06	0.50	2.8E-14	2.5E-03	0.48	1.4E-14	2.6E-05
³ Pa-234m	0.40	8.4E-15	7.1E-05	0.48	5.7E-15	1.8E-06	0.50	2.8E-14	2.5E-03	0.48	1.4E-14	2.6E-05
⁴ Th-231	0.02	4.1E-16	3.4E-06	0.02	2.5E-16	7.9E-08	0.00	4.3E-17	3.9E-06	0.02	6.3E-16	1.1E-06
Ra-228	0.09	1.9E-15	1.6E-05	0.01	1.7E-16	5.5E-08	0.00	3.0E-17	2.7E-06	0.01	4.3E-16	7.8E-07
⁵ Ac-228	0.09	1.9E-15	1.6E-05	0.01	1.7E-16	5.5E-08	0.00	3.0E-17	2.7E-06	0.01	4.3E-16	7.8E-07
⁶ Pa-231	0.016	9.5E-17	8.0E-07	0.008	1.8E-17	5.7E-09	0.01	4.1E-17	3.7E-06	0.01	7.5E-17	1.3E-07
⁷ Ac-227	0.012	7.1E-17	6.0E-07	0.007	1.6E-17	5.0E-09	0.00	3.6E-17	3.2E-06	0.01	6.6E-17	1.2E-07

Table A1-10. SLAPS/SLAPS VPs Airborne Radioactive Particulate Emissions Based on Site Perimeter Air Samples (Continued)

Property	SLAPS Loadout		
	Activity Fraction	Emission Conc. (uCi/cm ³)	Release Rate (Ci/y)
Radionuclide			
U-238	0.07	3.2E-16	5.0E-05
U-235	0.00	3.0E-18	4.7E-07
U-234	0.01	6.2E-17	9.8E-06
Ra-226	0.02	7.1E-17	1.1E-05
Th-232	0.01	6.6E-17	1.0E-05
Th-230	0.24	1.1E-15	1.8E-04
Th-228	0.00	1.6E-17	2.5E-06
¹ Ra-224	0.00	1.6E-17	2.5E-06
² Th-234	0.15	3.4E-15	5.4E-04
³ Pa-234m	0.15	3.4E-15	5.4E-04
⁴ Th-231	0.00	3.2E-17	5.0E-06
Ra-228	0.01	1.3E-16	2.0E-05
⁵ Ac-228	0.01	1.3E-16	2.0E-05
⁶ Pa-231	0.00	1.4E-17	2.2E-06
⁷ Ac-227	0.00	1.2E-17	1.8E-06

^a Derived from the average soil radionuclide concentrations from St. Louis FUSRAP Feasibility Study Table D-5 (USACE 2003). Average soil radionuclide concentrations are presented in Table A1-6. Activity fractions have been rounded; non-rounded values were used in calculations.

^b Emission concentration is equal to the activity fraction * the gross alpha or gross beta airborne particulate concentrations listed in Table A1-7.

^c Release rate based on a 365-day period at measured flow rate (Table A1-9) for each site as determined from the average annual wind speed (4.446 meters/second) and calculated site area (Table A1-9). (Note: 1 mL = 1 cm³).

^d Note: When data was not available, the radionuclide was assumed to be in secular equilibrium with parent.

Table A1-11. FUSRAP Laboratory Lab Analyses for 2010¹**FUSRAP Site Analyses for 2010¹**

Site	Type	Gamma	IsoRa	IsoTh	IsoU	Total Drying and Grinding	Total Separations
HISS	soil	167	0	160	0	167	160
HISS	water	0	18	17	17	0	52
Latty Avenue Properties	soil	778	0	702	0	778	702
Latty Avenue Properties	water	2	47	46	3	2	96
SLAPS	soil	650	0	633	0	650	633
SLAPS	water	38	48	48	13	38	109
SLAPS VPs	soil	1,168	0	1,052	0	1,168	1,052
SLAPS VPs	water	3	71	69	4	3	144
Coldwater Creek	sediment (soil)	7	0	7	0	7	7
Coldwater Creek	water	0	7	7	7	0	21
SLDS	soil	2,814	0	2,639	0	2,814	2,639
SLDS	water	0	73	72	8	0	153
Total		5,627	264	5,452	52	5,627	5,768

HISS and Latty Avenue Properties	Total	945	1,010
SLAPS, SLAPS VPs, and Coldwater Creek	Total	1,825	1,966
SLDS	Total	2,814	2,792

Assumptions:

¹ Data provided by the USACE laboratory for CY 2010.

All soil samples went through a drying/grinding process.

All soil and water samples went through a separations process for IsoRa, IsoTh, and IsoU.

IsoRa, IsoTh, and IsoU are distinctly separate processes occurring at different times.

Sample data from the lab did not separate Latty Avenue Properties from SLAPS VPs samples. Based on a property-specific summary, 40 percent of NC Sites samples were assumed to be from Latty Avenue Properties; the remainder was assumed to be from SLAPS VPs.

Table A1-12. SLDS Laboratory Samples - Avg. For All Excavation Locations

Radionuclide	Avg. (pCi/g) ^a	No. Samples ^b	No. Samples ^c	Emission Rate (Ci/y) ^d
U-238	72	2,814	2,792	1.2E-06
U-235	3	2,814	2,792	5.7E-08
U-234	72	2,814	2,792	1.2E-06
Ra-226	15	2,814	2,792	2.4E-07
Th-232	4	2,814	2,792	6.1E-08
Th-230	28	2,814	2,792	4.7E-07
Th-228	4	2,814	2,792	6.1E-08
Ra-224	4	2,814	2,792	6.1E-08
Th-234	72	2,814	2,792	1.2E-06
Pa-234m	72	2,814	2,792	1.2E-06
Th-231	3	2,814	2,792	5.7E-08
Ra-228	4	2,814	2,792	6.1E-08
Ac-228	4	2,814	2,792	6.1E-08
Pa-231	3	2,814	2,792	5.7E-08
Ac-227	3	2,814	2,792	5.7E-08

^a Average soil concentration from Table A1-1 of SLDS CY 2010 EMDAR Appendix A Attachment 1.

^b Number of samples involved in drying/grinding operations.

^c Number of samples involved in separations operations.

^d Emission Rate = (0.001*Avg * No. Samples [drying and grinding]+ 0.005*Avg * No. Samples [separations])*(1000g * 1E-12Ci/pCi).

Table A1-13. SLAPS/SLAPS VPs Laboratory Samples

Radionuclide	Avg. (pCi/g) ^a	No. Samples ^b	No. Samples ^c	Emission Rate ^d (Ci/y)
U-238	3.15	1,825	1,966	3.7E-08
U-235	0.03	1,825	1,966	3.4E-10
U-234	0.62	1,825	1,966	7.2E-09
Ra-226	0.70	1,825	1,966	8.2E-09
Th-232	0.65	1,825	1,966	7.6E-09
Th-230	11.36	1,825	1,966	1.3E-07
Th-228	0.16	1,825	1,966	1.9E-09
Ra-224	0.16	1,825	1,966	1.9E-09
Th-234	3.15	1,825	1,966	3.7E-08
Pa-234m	3.15	1,825	1,966	3.7E-08
Th-231	0.03	1,825	1,966	3.4E-10
Ra-228	0.12	1,825	1,966	1.4E-09
Ac-228	0.12	1,825	1,966	1.4E-09
Pa-231	0.14	1,825	1,966	1.6E-09
Ac-227	0.11	1,825	1,966	1.3E-09

^a Average soil concentration from Table A1-6.

^b Number of samples involved in drying/grinding operations.

^c Number of samples involved in separations operations.

^d Emission Rate = (0.001*Avg * No. Samples [drying and grinding]+ 0.005*Avg * No. Samples [separations])*(1,000g * 1E-12Ci/pCi).

Table A1-14. Latty Avenue Properties Laboratory Samples

Radionuclide	Avg. (pCi/g) ^a	No. Samples ^b	No. Samples ^c	Emission Rate ^d (Ci/y)
U-238	19	945	1,010	1.1E-07
U-235	1	945	1,010	5.5E-09
U-234	16	945	1,010	9.8E-08
Ra-226	12	945	1,010	7.3E-08
Th-232	2	945	1,010	1.1E-08
Th-230	58	945	1,010	3.5E-07
Th-228	1	945	1,010	5.3E-09
Ra-224	1	945	1,010	5.3E-09
Th-234	19	945	1,010	1.1E-07
Pa-234m	19	945	1,010	1.1E-07
Th-231	1	945	1,010	5.5E-09
Ra-228	0.4	945	1,010	2.7E-09
Ac-228	0.4	945	1,010	2.7E-09
Pa-231	13	945	1,010	7.8E-08
Ac-227	11	945	1,010	6.6E-08

^a Average soil concentration from Table A1-1.

^b Number of samples involved in drying/grinding operations.

^c Number of samples involved in separations operations.

^d Emission Rate = (0.001*Avg * No. Samples [drying and grinding]+ 0.005*Avg * No. Samples [separations])*(1000g * 1E-12Ci/pCi).

Table A1-15. Total Laboratory Airborne Radioactive Particulate Emission Rate

Radionuclides	Emission Rate (Ci/y)			
	SLDS	SLAPS/ SLAPS VPs	Latty Avenue Properties	Total Across Lab ^a
U-238	1.2E-06	3.7E-08	1.1E-07	1.4E-06
U-235	5.7E-08	3.4E-10	5.5E-09	6.3E-08
U-234	1.2E-06	7.2E-09	9.8E-08	1.3E-06
Ra-226	2.4E-07	8.2E-09	7.3E-08	3.3E-07
Th-232	6.1E-08	7.6E-09	1.1E-08	8.0E-08
Th-230	4.7E-07	1.3E-07	3.5E-07	9.4E-07
Th-228	6.1E-08	1.9E-09	5.3E-09	6.9E-08
Ra-224	6.1E-08	1.9E-09	5.3E-09	6.9E-08
Th-234	1.2E-06	3.7E-08	1.1E-07	1.4E-06
Pa-234m	1.2E-06	3.7E-08	1.1E-07	1.4E-06
Th-231	5.7E-08	3.4E-10	5.5E-09	6.3E-08
Ra-228	6.1E-08	1.4E-09	2.7E-09	6.5E-08
Ac-228	6.1E-08	1.4E-09	2.7E-09	6.5E-08
Pa-231	5.7E-08	1.6E-09	7.8E-08	1.4E-07
Ac-227	5.7E-08	1.3E-09	6.6E-08	1.2E-07

^a Total emission rate is sum of SLDS, SLAPS and SLAPS VPs, and Latty Avenue Properties emission rates.

ATTACHMENT 2
CAP88-PC RUNS FOR NC PROPERTIES

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CAP88-PC RUNS FOR LATTY AVENUE PROPERTIES

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CAP88 OUTPUT RESULTS

HISS

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 01:26 pm

Facility: HISS
Address: Latty Avenue
City: Berkley
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: HISS 2010
Dataset Date: 3/9/2011 1:26:00 PM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 01:26 pm

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	5.58E-02
B Surfac	1.71E+01
Breasts	5.89E-02
St Wall	5.71E-02
ULI Wall	6.18E-02
Kidneys	2.98E-01
Lungs	3.67E+00
Ovaries	1.82E-01
R Marrow	7.40E-01
Spleen	5.75E-02
Thymus	5.67E-02
Uterus	5.65E-02
Bld Wall	5.75E-02
Brain	5.68E-02
Esophagu	1.48E+00
SI Wall	5.69E-02
LLI Wall	7.15E-02
Liver	7.05E-01
Muscle	5.95E-02
Pancreas	5.58E-02
Skin	6.35E-01
Testes	1.87E-01
Thyroid	5.79E-02
EFFEC	1.57E+01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	5.22E-01
INHALATION	1.52E+01
AIR IMMERSION	5.62E-05
GROUND SURFACE	2.48E-02
INTERNAL	1.57E+01
EXTERNAL	2.48E-02
TOTAL	1.57E+01

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SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	5.76E-01
Th-234	2.79E-02
Pa-234m	5.64E-03
Pa-234	1.46E-04
U-234	7.00E-01
Th-230	8.72E+00
Ra-226	4.47E-01
Rn-222	8.32E-12
Po-218	4.26E-08
Pb-214	1.18E-03
Bi-214	7.11E-03
Po-214	3.90E-07
Pb-210	4.58E-04
Bi-210	1.34E-06
Po-210	3.91E-05
At-218	3.60E-09
U-235	5.92E-02
Th-231	1.20E-04
Pa-231	1.87E+00
Ac-227	1.45E+00
Th-227	1.54E-04
Ra-223	9.30E-04
Rn-219	0.00E+00
Po-215	9.02E-08
Pb-211	5.09E-05
Bi-211	2.36E-05
Tl-207	2.98E-05
Po-211	1.11E-08
Fr-223	1.63E-06
Th-232	5.21E-01
Ra-228	8.26E-01
Ac-228	1.07E-02
Th-228	4.74E-01
Ra-224	3.56E-02
Rn-220	8.35E-10
Po-216	1.77E-08
Pb-212	1.63E-04
Bi-212	2.45E-04
Po-212	0.00E+00
Tl-208	1.16E-03
TOTAL	1.57E+01

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	6.39E-09
Stomach	1.79E-08
Colon	6.41E-08
Liver	1.64E-07
LUNG	6.89E-06
Bone	2.13E-07
Skin	1.04E-09
Breast	1.03E-08
Ovary	3.07E-08
Bladder	1.49E-08
Kidneys	2.29E-08
Thyroid	1.36E-09
Leukemia	3.94E-08
Residual	6.96E-08
Total	7.54E-06
TOTAL	1.51E-05

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.65E-07
INHALATION	7.37E-06
AIR IMMERSION	2.73E-11
GROUND SURFACE	1.10E-08
INTERNAL	7.53E-06
EXTERNAL	1.11E-08
TOTAL	7.54E-06

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SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	4.75E-07
Th-234	2.65E-08
Pa-234m	9.07E-10
Pa-234	7.95E-11
U-234	5.79E-07
Th-230	4.46E-06
Ra-226	3.44E-07
Rn-222	4.52E-18
Po-218	2.34E-14
Pb-214	6.32E-10
Bi-214	3.78E-09
Po-214	2.14E-13
Pb-210	1.52E-10
Bi-210	6.72E-13
Po-210	1.50E-11
At-218	1.71E-15
U-235	4.88E-08
Th-231	1.09E-10
Pa-231	1.76E-07
Ac-227	3.82E-07
Th-227	1.25E-10
Ra-223	5.06E-10
Rn-219	0.00E+00
Po-215	4.95E-14
Pb-211	1.69E-11
Bi-211	1.29E-11
Tl-207	3.80E-12
Po-211	6.10E-15
Fr-223	9.29E-13
Th-232	2.30E-07
Ra-228	3.69E-07
Ac-228	5.93E-09
Th-228	4.06E-07
Ra-224	3.06E-08
Rn-220	4.56E-16
Po-216	9.68E-15
Pb-212	9.35E-11
Bi-212	1.10E-10
Po-212	0.00E+00
Tl-208	6.35E-10
TOTAL	7.54E-06

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SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	130	480	740	2220	
N	1.3E+01	2.0E+00	1.1E+00	4.8E-01	
NNW	1.3E+01	1.2E+00	7.3E-01	4.3E-01	
NW	1.2E+01	1.3E+00	7.9E-01	4.3E-01	Business
WNW	1.2E+01	1.5E+00	8.8E-01	4.5E-01	
W	1.0E+01	1.2E+00	7.6E-01	4.3E-01	
WSW	7.8E+00	7.9E-01	5.6E-01	4.0E-01	
SW	7.4E+00	9.7E-01	6.3E-01	4.1E-01	
SSW	8.3E+00	1.1E+00	6.9E-01	4.2E-01	
S	7.6E+00	1.0E+00	6.6E-01	4.2E-01	
SSE	7.2E+00	8.3E-01	5.7E-01	4.0E-01	Residence
SE	9.1E+00	1.0E+00	6.7E-01	4.2E-01	
ESE	1.3E+01	1.5E+00	8.7E-01	4.5E-01	School
E	1.6E+01	1.8E+00	1.0E+00	4.7E-01	
ENE	1.4E+01	1.6E+00	9.1E-01	4.5E-01	
NE	1.1E+01	1.1E+00	7.0E-01	4.2E-01	Farm
NNE	1.2E+01	1.0E+00	6.5E-01	4.1E-01	

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SUMMARY
Page 6

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

	Distance (m)			
Direction	130	480	740	2220
N	6.0E-06	8.8E-07	4.6E-07	1.7E-07
NNW	6.4E-06	5.1E-07	2.9E-07	1.4E-07
NW	5.7E-06	5.8E-07	3.2E-07	1.5E-07
WNW	5.9E-06	6.8E-07	3.7E-07	1.5E-07
W	4.9E-06	5.4E-07	3.0E-07	1.5E-07
WSW	3.7E-06	3.2E-07	2.1E-07	1.3E-07
SW	3.5E-06	4.1E-07	2.4E-07	1.4E-07
SSW	3.9E-06	4.7E-07	2.7E-07	1.4E-07
S	3.6E-06	4.3E-07	2.6E-07	1.4E-07
SSE	3.4E-06	3.4E-07	2.2E-07	1.3E-07
SE	4.4E-06	4.4E-07	2.6E-07	1.4E-07
ESE	6.4E-06	6.6E-07	3.6E-07	1.5E-07
E	7.5E-06	8.3E-07	4.3E-07	1.6E-07
ENE	6.8E-06	7.1E-07	3.8E-07	1.6E-07
NE	5.1E-06	4.8E-07	2.8E-07	1.4E-07
NNE	5.7E-06	4.2E-07	2.5E-07	1.4E-07

CAP88 OUTPUT RESULTS
FUTURA

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 01:22 pm

Facility: FUTURA
Address: Latty/HISS
City: Berkely
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: FUT2010
Dataset Date: 3/9/2011 1:22:00 PM
Wind File: C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 01:22 pm

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	5.28E-03
B Surfac	1.82E+00
Breasts	5.31E-03
St Wall	5.29E-03
ULI Wall	5.97E-03
Kidneys	2.33E-02
Lungs	9.98E-02
Ovaries	2.06E-02
R Marrow	7.41E-02
Spleen	5.31E-03
Thymus	5.28E-03
Uterus	5.28E-03
Bld Wall	5.29E-03
Brain	5.28E-03
Esophagu	3.41E-02
SI Wall	5.29E-03
LLI Wall	7.23E-03
Liver	1.28E-01
Muscle	5.30E-03
Pancreas	5.28E-03
Skin	1.81E-02
Testes	2.07E-02
Thyroid	5.29E-03
EFFEC	1.05E+00

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	6.16E-03
INHALATION	1.04E+00
AIR IMMERSION	5.40E-07
GROUND SURFACE	2.45E-04
INTERNAL	1.05E+00
EXTERNAL	2.46E-04
TOTAL	1.05E+00

Mar 9, 2011 01:22 pm

SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	1.39E-02
Th-234	6.22E-04
Pa-234m	1.29E-04
Pa-234	3.36E-06
U-234	1.69E-02
Th-230	1.26E-01
Ra-226	3.73E-07
Rn-222	0.00E+00
Po-218	2.52E-13
Pb-214	6.99E-09
Bi-214	4.19E-08
Po-214	2.30E-12
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	6.96E-04
Th-231	1.32E-06
Pa-231	4.92E-01
Ac-227	3.57E-01
Th-227	3.71E-05
Ra-223	2.08E-04
Rn-219	0.00E+00
Po-215	2.24E-08
Pb-211	1.27E-05
Bi-211	5.87E-06
Tl-207	7.39E-06
Po-211	2.71E-09
Fr-223	4.04E-07
Ra-225	2.51E-02
Ac-225	1.82E-05
Fr-221	1.29E-06
At-217	1.33E-08
Bi-213	7.64E-06
Th-232	5.10E-03
Ra-228	1.04E-03
Ac-228	1.41E-05
Th-228	8.12E-03
Ra-224	6.09E-04
Rn-220	1.43E-11
Po-216	1.54E-10
Pb-212	1.55E-06
Bi-212	2.14E-06
Po-212	0.00E+00
Tl-208	1.02E-05
TOTAL	1.05E+00

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	6.76E-10
Stomach	1.44E-09
Colon	3.77E-09
Liver	2.88E-08
LUNG	1.93E-07
Bone	1.94E-08
Skin	5.57E-11
Breast	8.11E-10
Ovary	3.55E-09
Bladder	1.62E-09
Kidneys	1.62E-09
Thyroid	1.18E-10
Leukemia	3.23E-09
Residual	4.91E-09
Total	2.63E-07
TOTAL	5.27E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.03E-09
INHALATION	2.62E-07
AIR IMMERSION	2.18E-13
GROUND SURFACE	7.66E-11
INTERNAL	2.63E-07
EXTERNAL	7.68E-11
TOTAL	2.63E-07

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SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.15E-08
Th-234	5.89E-10
Pa-234m	2.07E-11
Pa-234	1.83E-12
U-234	1.40E-08
Th-230	6.44E-08
Ra-226	1.28E-13
Rn-222	0.00E+00
Po-218	1.38E-19
Pb-214	3.73E-15
Bi-214	2.23E-14
Po-214	1.26E-18
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	5.75E-10
Th-231	1.19E-12
Pa-231	4.65E-08
Ac-227	9.40E-08
Th-227	2.97E-11
Ra-223	1.13E-10
Rn-219	0.00E+00
Po-215	1.23E-14
Pb-211	4.20E-12
Bi-211	3.21E-12
Tl-207	9.44E-13
Po-211	1.49E-15
Fr-223	2.29E-13
Ra-225	2.16E-08
Ac-225	1.66E-11
Fr-221	7.04E-13
At-217	7.27E-15
Bi-213	3.35E-12
Th-232	2.25E-09
Ra-228	4.65E-10
Ac-228	7.85E-12
Th-228	6.95E-09
Ra-224	5.24E-10
Rn-220	7.79E-18
Po-216	8.44E-17
Pb-212	9.29E-13
Bi-212	9.63E-13
Po-212	0.00E+00
Tl-208	5.55E-12
TOTAL	2.63E-07

Mar 9, 2011 01:22 pm

SUMMARY

Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	150	470	820	2270	
N	1.0E+00	1.3E-01	4.8E-02	1.1E-02	
NNW	5.4E-01	6.8E-02	2.6E-02	7.9E-03	
NW	6.4E-01	7.9E-02	3.0E-02	8.5E-03	Business
WNW	7.8E-01	9.6E-02	3.6E-02	9.4E-03	
W	5.9E-01	7.3E-02	2.8E-02	8.1E-03	
WSW	2.8E-01	3.7E-02	1.6E-02	6.0E-03	
SW	4.0E-01	5.1E-02	2.0E-02	6.7E-03	
SSW	5.0E-01	6.2E-02	2.4E-02	7.4E-03	
S	4.3E-01	5.5E-02	2.2E-02	7.1E-03	
SSE	3.0E-01	4.0E-02	1.7E-02	6.2E-03	Residence
SE	4.4E-01	5.6E-02	2.2E-02	7.1E-03	
ESE	7.5E-01	9.3E-02	3.5E-02	9.3E-03	School
E	1.0E+00	1.2E-01	4.4E-02	1.1E-02	
ENE	8.2E-01	1.0E-01	3.7E-02	9.6E-03	
NE	5.0E-01	6.3E-02	2.4E-02	7.5E-03	Farm
NNE	4.2E-01	5.3E-02	2.1E-02	7.0E-03	

Mar 9, 2011 01:22 pm

SUMMARY

Page 6

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

	Distance (m)			
Direction	150	470	820	2270
N	2.6E-07	3.2E-08	1.2E-08	2.5E-09
NNW	1.3E-07	1.7E-08	6.3E-09	1.6E-09
NW	1.6E-07	2.0E-08	7.3E-09	1.8E-09
WNW	2.0E-07	2.4E-08	8.7E-09	2.0E-09
W	1.5E-07	1.8E-08	6.7E-09	1.7E-09
WSW	7.1E-08	9.0E-09	3.6E-09	1.2E-09
SW	1.0E-07	1.2E-08	4.7E-09	1.4E-09
SSW	1.2E-07	1.5E-08	5.7E-09	1.5E-09
S	1.1E-07	1.4E-08	5.2E-09	1.4E-09
SSE	7.5E-08	9.7E-09	3.8E-09	1.2E-09
SE	1.1E-07	1.4E-08	5.3E-09	1.5E-09
ESE	1.9E-07	2.3E-08	8.5E-09	2.0E-09
E	2.5E-07	3.0E-08	1.1E-08	2.4E-09
ENE	2.1E-07	2.5E-08	9.0E-09	2.1E-09
NE	1.3E-07	1.5E-08	5.8E-09	1.5E-09
NNE	1.1E-07	1.3E-08	5.0E-09	1.4E-09

CAP88 OUTPUT RESULTS

VP-02(L)

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 10:55 am

Facility: VP-02L
Address: Latty AVE
City: Berkely
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: VP-02L 2010
Dataset Date: 3/9/2011 9:19:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 10:55 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	2.66E-03
B Surfac	9.27E-01
Breasts	2.78E-03
St Wall	2.71E-03
ULI Wall	2.94E-03
Kidneys	1.50E-02
Lungs	1.67E-01
Ovaries	9.39E-03
R Marrow	4.02E-02
Spleen	2.72E-03
Thymus	2.69E-03
Uterus	2.68E-03
Bld Wall	2.72E-03
Brain	2.69E-03
Esophagu	7.34E-02
SI Wall	2.70E-03
LLI Wall	3.39E-03
Liver	3.48E-02
Muscle	2.80E-03
Pancreas	2.65E-03
Skin	2.46E-02
Testes	9.62E-03
Thyroid	2.75E-03
EFFEC	7.72E-01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	3.29E-02
INHALATION	7.38E-01
AIR IMMERSION	3.24E-06
GROUND SURFACE	9.78E-04
INTERNAL	7.71E-01
EXTERNAL	9.81E-04
TOTAL	7.72E-01

Mar 9, 2011 10:55 am

SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	8.72E-03
Th-234	1.11E-03
Pa-234m	2.12E-04
Pa-234	4.99E-06
U-234	1.06E-02
Th-230	4.95E-01
Ra-226	3.39E-03
Rn-222	6.24E-14
Po-218	3.26E-10
Pb-214	9.05E-06
Bi-214	5.43E-05
Po-214	2.98E-09
Pb-210	3.87E-06
Bi-210	1.05E-08
Po-210	3.26E-07
At-218	0.00E+00
U-235	4.33E-04
Th-231	2.14E-06
Pa-231	9.92E-02
Ac-227	6.53E-02
Th-227	7.28E-06
Ra-223	4.70E-05
Rn-219	0.00E+00
Po-215	4.16E-09
Pb-211	2.35E-06
Bi-211	1.09E-06
Tl-207	1.37E-06
Po-211	5.04E-10
Fr-223	7.45E-08
Th-232	1.42E-02
Ra-228	6.01E-02
Ac-228	7.55E-04
Th-228	1.23E-02
Ra-224	9.26E-04
Rn-220	2.18E-11
Po-216	8.93E-10
Pb-212	7.83E-06
Bi-212	1.24E-05
Po-212	0.00E+00
Tl-208	5.87E-05
TOTAL	7.72E-01

Mar 9, 2011 10:55 am

SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	3.43E-10
Stomach	1.01E-09
Colon	3.43E-09
Liver	8.38E-09
LUNG	3.09E-07
Bone	1.19E-08
Skin	4.76E-11
Breast	5.74E-10
Ovary	1.68E-09
Bladder	7.94E-10
Kidneys	1.19E-09
Thyroid	7.60E-11
Leukemia	2.24E-09
Residual	3.64E-09
Total	3.44E-07
TOTAL	6.89E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.06E-08
INHALATION	3.33E-07
AIR IMMERSION	1.64E-12
GROUND SURFACE	4.40E-10
INTERNAL	3.44E-07
EXTERNAL	4.42E-10
TOTAL	3.44E-07

Mar 9, 2011 10:55 am

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	7.19E-09
Th-234	1.06E-09
Pa-234m	3.41E-11
Pa-234	2.72E-12
U-234	8.76E-09
Th-230	2.53E-07
Ra-226	2.58E-09
Rn-222	3.39E-20
Po-218	1.79E-16
Pb-214	4.83E-12
Bi-214	2.89E-11
Po-214	1.64E-15
Pb-210	1.28E-12
Bi-210	5.58E-15
Po-210	1.25E-13
At-218	0.00E+00
U-235	3.57E-10
Th-231	2.01E-12
Pa-231	9.37E-09
Ac-227	1.72E-08
Th-227	5.98E-12
Ra-223	2.56E-11
Rn-219	0.00E+00
Po-215	2.28E-15
Pb-211	7.80E-13
Bi-211	5.97E-13
Tl-207	1.75E-13
Po-211	2.76E-16
Fr-223	4.22E-14
Th-232	6.26E-09
Ra-228	2.67E-08
Ac-228	4.19E-10
Th-228	1.05E-08
Ra-224	7.95E-10
Rn-220	1.19E-17
Po-216	4.89E-16
Pb-212	4.39E-12
Bi-212	5.55E-12
Po-212	0.00E+00
Tl-208	3.20E-11
TOTAL	3.44E-07

Mar 9, 2011 10:55 am

SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	230	350	775	2045	
N	7.7E-01	3.7E-01	1.0E-01	3.8E-02	
NNW	4.1E-01	2.0E-01	6.4E-02	3.2E-02	
NW	4.8E-01	2.3E-01	7.0E-02	3.3E-02	Business
WNW	5.8E-01	2.8E-01	8.0E-02	3.4E-02	
W	4.4E-01	2.1E-01	6.6E-02	3.2E-02	
WSW	2.2E-01	1.2E-01	4.4E-02	2.8E-02	
SW	3.1E-01	1.5E-01	5.3E-02	2.9E-02	
SSW	3.8E-01	1.8E-01	5.9E-02	3.1E-02	
S	3.3E-01	1.6E-01	5.6E-02	3.0E-02	
SSE	2.4E-01	1.2E-01	4.6E-02	2.8E-02	Residence
SE	3.3E-01	1.7E-01	5.6E-02	3.0E-02	
ESE	5.6E-01	2.7E-01	7.9E-02	3.4E-02	School
E	7.3E-01	3.5E-01	9.5E-02	3.7E-02	
ENE	6.1E-01	2.9E-01	8.3E-02	3.5E-02	
NE	3.8E-01	1.9E-01	6.0E-02	3.1E-02	Farm
NNE	3.2E-01	1.6E-01	5.4E-02	3.0E-02	

Mar 9, 2011 10:55 am

SUMMARY
Page 6

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

Direction	Distance (m)			
	230	350	775	2045
N	3.4E-07	1.6E-07	4.2E-08	1.4E-08
NNW	1.8E-07	8.6E-08	2.6E-08	1.1E-08
NW	2.1E-07	1.0E-07	2.8E-08	1.2E-08
WNW	2.6E-07	1.2E-07	3.3E-08	1.2E-08
W	2.0E-07	9.3E-08	2.7E-08	1.1E-08
WSW	9.8E-08	4.9E-08	1.7E-08	9.6E-09
SW	1.4E-07	6.6E-08	2.1E-08	1.0E-08
SSW	1.7E-07	8.0E-08	2.4E-08	1.1E-08
S	1.5E-07	7.1E-08	2.2E-08	1.0E-08
SSE	1.0E-07	5.2E-08	1.8E-08	9.7E-09
SE	1.5E-07	7.2E-08	2.2E-08	1.1E-08
ESE	2.5E-07	1.2E-07	3.2E-08	1.2E-08
E	3.3E-07	1.5E-07	3.9E-08	1.4E-08
ENE	2.7E-07	1.3E-07	3.4E-08	1.3E-08
NE	1.7E-07	8.0E-08	2.4E-08	1.1E-08
NNE	1.4E-07	6.9E-08	2.1E-08	1.0E-08

CAP88 OUTPUT RESULTS

VPS 54 & 56

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Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 10:56 am

Facility: VPs 54 & 55
Address: Latty Avenue
City: Berkely
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: VPs 54 55 2010
Dataset Date: 3/9/2011 9:30:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 10:56 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	5.38E-06
B Surfac	2.02E-03
Breasts	5.67E-06
St Wall	5.52E-06
ULI Wall	5.92E-06
Kidneys	3.89E-05
Lungs	6.70E-04
Ovaries	1.93E-05
R Marrow	8.03E-05
Spleen	5.57E-06
Thymus	5.49E-06
Uterus	5.45E-06
Bld Wall	5.55E-06
Brain	5.48E-06
Esophagu	2.57E-04
SI Wall	5.52E-06
LLI Wall	6.84E-06
Liver	4.61E-05
Muscle	5.72E-06
Pancreas	5.40E-06
Skin	1.08E-04
Testes	1.98E-05
Thyroid	5.57E-06
EFFEC	2.36E-03

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	4.94E-05
INHALATION	2.31E-03
AIR IMMERSION	2.83E-09
GROUND SURFACE	2.66E-06
INTERNAL	2.36E-03
EXTERNAL	2.66E-06
TOTAL	2.36E-03

Mar 9, 2011 10:56 am

SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	2.59E-04
Th-234	4.04E-06
Pa-234m	1.09E-06
Pa-234	3.50E-08
U-234	4.19E-06
Th-230	1.35E-03
Ra-226	7.13E-05
Rn-222	1.32E-15
Po-218	7.14E-12
Pb-214	1.98E-07
Bi-214	1.19E-06
Po-214	6.53E-11
Pb-210	9.23E-08
Bi-210	2.09E-10
Po-210	7.81E-09
At-218	0.00E+00
U-235	1.58E-07
Th-231	1.27E-10
Pa-231	7.25E-05
Ac-227	4.77E-05
Th-227	4.33E-09
Ra-223	3.91E-08
Rn-219	0.00E+00
Po-215	3.20E-12
Pb-211	1.81E-09
Bi-211	8.38E-10
Tl-207	1.06E-09
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	5.49E-04
Ra-228	2.01E-06
Ac-228	3.66E-08
Th-228	3.77E-06
Ra-224	2.83E-07
Rn-220	6.96E-15
Po-216	1.10E-13
Pb-212	9.14E-10
Bi-212	1.52E-09
Po-212	0.00E+00
Tl-208	7.22E-09
TOTAL	2.36E-03

Mar 9, 2011 10:56 am

SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	5.49E-13
Stomach	1.28E-12
Colon	5.94E-12
Liver	9.24E-12
LUNG	1.17E-09
Bone	2.19E-11
Skin	1.38E-13
Breast	7.53E-13
Ovary	2.95E-12
Bladder	1.31E-12
Kidneys	2.75E-12
Thyroid	1.02E-13
Leukemia	3.60E-12
Residual	5.68E-12
Total	1.23E-09
TOTAL	2.46E-09

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.06E-11
INHALATION	1.22E-09
AIR IMMERSION	1.08E-15
GROUND SURFACE	1.00E-12
INTERNAL	1.23E-09
EXTERNAL	1.01E-12
TOTAL	1.23E-09

Mar 9, 2011 10:56 am

SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	2.13E-10
Th-234	3.91E-12
Pa-234m	1.76E-13
Pa-234	1.91E-14
U-234	3.46E-12
Th-230	6.88E-10
Ra-226	5.34E-11
Rn-222	7.19E-22
Po-218	3.92E-18
Pb-214	1.06E-13
Bi-214	6.32E-13
Po-214	3.58E-17
Pb-210	3.06E-14
Bi-210	1.16E-16
Po-210	2.99E-15
At-218	0.00E+00
U-235	1.31E-13
Th-231	1.04E-16
Pa-231	6.85E-12
Ac-227	1.26E-11
Th-227	3.54E-15
Ra-223	2.12E-14
Rn-219	0.00E+00
Po-215	1.76E-18
Pb-211	6.00E-16
Bi-211	4.59E-16
Tl-207	1.35E-16
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	2.42E-10
Ra-228	8.33E-13
Ac-228	1.97E-14
Th-228	3.23E-12
Ra-224	2.43E-13
Rn-220	3.80E-21
Po-216	6.00E-20
Pb-212	4.98E-16
Bi-212	6.84E-16
Po-212	0.00E+00
Tl-208	3.94E-15
TOTAL	1.23E-09

Mar 9, 2011 10:56 am

SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	640	1010	1425	2455	
N	2.4E-03	1.0E-03	5.8E-04	2.5E-04	
NNW	1.2E-03	5.4E-04	3.2E-04	1.5E-04	
NW	1.4E-03	6.2E-04	3.6E-04	1.7E-04	
WNW	1.7E-03	7.5E-04	4.3E-04	1.9E-04	
W	1.3E-03	5.7E-04	3.3E-04	1.5E-04	
WSW	6.5E-04	2.9E-04	1.8E-04	9.3E-05	
SW	9.0E-04	4.0E-04	2.4E-04	1.2E-04	
SSW	1.1E-03	4.8E-04	2.8E-04	1.3E-04	Business
S	9.9E-04	4.4E-04	2.6E-04	1.2E-04	Residence
SSE	7.0E-04	3.2E-04	1.9E-04	9.9E-05	Farm
SE	1.0E-03	4.5E-04	2.7E-04	1.3E-04	School
ESE	1.7E-03	7.3E-04	4.2E-04	1.9E-04	
E	2.2E-03	9.3E-04	5.3E-04	2.3E-04	
ENE	1.8E-03	7.8E-04	4.5E-04	2.0E-04	
NE	1.1E-03	4.9E-04	2.9E-04	1.4E-04	
NNE	9.5E-04	4.2E-04	2.5E-04	1.2E-04	

Mar 9, 2011 10:56 am

SUMMARY
Page 6

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

Direction	Distance (m)			
	640	1010	1425	2455
N	1.2E-09	5.2E-10	2.9E-10	1.2E-10
NNW	6.3E-10	2.7E-10	1.6E-10	6.7E-11
NW	7.4E-10	3.2E-10	1.8E-10	7.5E-11
WNW	9.0E-10	3.8E-10	2.2E-10	9.0E-11
W	6.8E-10	2.9E-10	1.6E-10	6.9E-11
WSW	3.3E-10	1.4E-10	8.3E-11	3.7E-11
SW	4.6E-10	2.0E-10	1.1E-10	4.9E-11
SSW	5.7E-10	2.4E-10	1.4E-10	5.9E-11
S	5.1E-10	2.2E-10	1.2E-10	5.4E-11
SSE	3.6E-10	1.6E-10	9.0E-11	4.0E-11
SE	5.2E-10	2.2E-10	1.3E-10	5.5E-11
ESE	8.8E-10	3.7E-10	2.1E-10	8.8E-11
E	1.1E-09	4.8E-10	2.7E-10	1.1E-10
ENE	9.4E-10	4.0E-10	2.2E-10	9.3E-11
NE	5.8E-10	2.5E-10	1.4E-10	6.0E-11
NNE	4.9E-10	2.1E-10	1.2E-10	5.2E-11

CAP88 OUTPUT RESULTS
HAZELWOOD AVENUE

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 10:56 am

Facility: Hazelwood Avenue
Address: Hazelwood Avenue
City: Berkely
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: Hzlwd Ave 2010
Dataset Date: 3/9/2011 9:38:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 10:56 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	1.31E-05
B Surfac	5.64E-03
Breasts	1.37E-05
St Wall	1.34E-05
ULI Wall	1.42E-05
Kidneys	1.01E-04
Lungs	1.75E-03
Ovaries	5.26E-05
R Marrow	2.20E-04
Spleen	1.35E-05
Thymus	1.33E-05
Uterus	1.32E-05
Bld Wall	1.34E-05
Brain	1.33E-05
Esophagu	6.96E-04
SI Wall	1.34E-05
LLI Wall	1.61E-05
Liver	1.27E-04
Muscle	1.38E-05
Pancreas	1.31E-05
Skin	2.20E-04
Testes	5.40E-05
Thyroid	1.35E-05
EFFEC	6.29E-03

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	8.77E-05
INHALATION	6.20E-03
AIR IMMERSION	6.66E-09
GROUND SURFACE	5.58E-06
INTERNAL	6.29E-03
EXTERNAL	5.58E-06
TOTAL	6.29E-03

Mar 9, 2011 10:56 am

SUMMARY

Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	4.68E-04
Th-234	9.13E-06
Pa-234m	2.20E-06
Pa-234	5.40E-08
U-234	1.18E-05
Th-230	4.00E-03
Ra-226	1.58E-04
Rn-222	0.00E+00
Po-218	1.56E-11
Pb-214	4.33E-07
Bi-214	2.60E-06
Po-214	1.43E-10
Pb-210	1.14E-07
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	4.45E-07
Th-231	3.29E-10
Pa-231	2.11E-04
Ac-227	1.43E-04
Th-227	1.06E-08
Ra-223	8.20E-08
Rn-219	0.00E+00
Po-215	8.87E-12
Pb-211	5.01E-09
Bi-211	2.32E-09
Tl-207	2.93E-09
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	1.27E-03
Ra-228	4.55E-06
Ac-228	9.24E-08
Th-228	1.12E-05
Ra-224	8.43E-07
Rn-220	1.99E-14
Po-216	2.30E-13
Pb-212	1.91E-09
Bi-212	3.19E-09
Po-212	0.00E+00
Tl-208	0.00E+00
TOTAL	6.29E-03

Mar 9, 2011 10:56 am

SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.36E-12
Stomach	3.06E-12
Colon	1.22E-11
Liver	2.54E-11
LUNG	3.07E-09
Bone	5.98E-11
Skin	2.94E-13
Breast	1.79E-12
Ovary	8.13E-12
Bladder	3.24E-12
Kidneys	6.83E-12
Thyroid	2.45E-13
Leukemia	9.43E-12
Residual	1.26E-11
Total	3.21E-09
TOTAL	6.42E-09

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.74E-11
INHALATION	3.19E-09
AIR IMMERSION	2.54E-15
GROUND SURFACE	2.14E-12
INTERNAL	3.21E-09
EXTERNAL	2.15E-12
TOTAL	3.21E-09

Mar 9, 2011 10:56 am

SUMMARY

Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	3.87E-10
Th-234	8.69E-12
Pa-234m	3.54E-13
Pa-234	2.95E-14
U-234	9.75E-12
Th-230	2.05E-09
Ra-226	1.23E-10
Rn-222	0.00E+00
Po-218	8.55E-18
Pb-214	2.31E-13
Bi-214	1.38E-12
Po-214	7.83E-17
Pb-210	3.77E-14
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	3.71E-13
Th-231	3.17E-16
Pa-231	2.00E-11
Ac-227	3.78E-11
Th-227	8.23E-15
Ra-223	4.46E-14
Rn-219	0.00E+00
Po-215	4.86E-18
Pb-211	1.66E-15
Bi-211	1.27E-15
Tl-207	3.74E-16
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	5.60E-10
Ra-228	1.94E-12
Ac-228	5.00E-14
Th-228	9.62E-12
Ra-224	7.25E-13
Rn-220	1.09E-20
Po-216	1.26E-19
Pb-212	1.04E-15
Bi-212	1.43E-15
Po-212	0.00E+00
Tl-208	0.00E+00
TOTAL	3.21E-09

Mar 9, 2011 10:56 am

SUMMARY

Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	190	755	840	1720	
N	6.3E-03	5.3E-04	4.4E-04	1.7E-04	Farm
NNW	3.2E-03	3.0E-04	2.6E-04	1.1E-04	
NW	3.8E-03	3.4E-04	2.9E-04	1.2E-04	
WNW	4.7E-03	4.0E-04	3.4E-04	1.4E-04	
W	3.5E-03	3.2E-04	2.7E-04	1.2E-04	
WSW	1.7E-03	1.8E-04	1.6E-04	8.7E-05	Business
SW	2.4E-03	2.3E-04	2.0E-04	9.8E-05	Residence
SSW	3.0E-03	2.7E-04	2.3E-04	1.1E-04	
S	2.6E-03	2.5E-04	2.1E-04	1.0E-04	
SSE	1.8E-03	1.9E-04	1.7E-04	9.0E-05	
SE	2.6E-03	2.5E-04	2.2E-04	1.0E-04	School
ESE	4.5E-03	3.9E-04	3.3E-04	1.4E-04	
E	6.0E-03	4.9E-04	4.1E-04	1.6E-04	
ENE	5.0E-03	4.2E-04	3.5E-04	1.4E-04	
NE	3.0E-03	2.8E-04	2.4E-04	1.1E-04	
NNE	2.5E-03	2.4E-04	2.1E-04	1.0E-04	

Mar 9, 2011 10:56 am

SUMMARY
Page 6

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

	Distance (m)			
Direction	190	755	840	1720
N	3.2E-09	2.5E-10	2.1E-10	6.8E-11
NNW	1.6E-09	1.4E-10	1.1E-10	4.1E-11
NW	1.9E-09	1.6E-10	1.3E-10	4.5E-11
WNW	2.4E-09	1.9E-10	1.5E-10	5.2E-11
W	1.8E-09	1.4E-10	1.2E-10	4.2E-11
WSW	8.7E-10	7.5E-11	6.3E-11	2.6E-11
SW	1.2E-09	1.0E-10	8.4E-11	3.2E-11
SSW	1.5E-09	1.2E-10	1.0E-10	3.7E-11
S	1.3E-09	1.1E-10	9.2E-11	3.4E-11
SSE	9.2E-10	8.1E-11	6.8E-11	2.8E-11
SE	1.3E-09	1.1E-10	9.4E-11	3.5E-11
ESE	2.3E-09	1.8E-10	1.5E-10	5.1E-11
E	3.0E-09	2.3E-10	1.9E-10	6.2E-11
ENE	2.5E-09	2.0E-10	1.6E-10	5.4E-11
NE	1.5E-09	1.2E-10	1.0E-10	3.8E-11
NNE	1.3E-09	1.1E-10	8.9E-11	3.4E-11

CAP88-PC RUNS FOR ST. LOUIS AIRPORT SITES

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CAP88 OUTPUT RESULTS

McDONNELL BLVD

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 9, 2011 10:09 am

Facility: McDonnell Blvd (VP-15 and IA-13)
Address: SLAPS
City: Berkely
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: MDB2010
Dataset Date: 3/8/2011 2:32:00 PM
Wind File: C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 9, 2011 10:09 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	1.52E-05
B Surfac	4.15E-03
Breasts	1.61E-05
St Wall	1.56E-05
ULI Wall	1.68E-05
Kidneys	7.47E-05
Lungs	9.83E-04
Ovaries	4.39E-05
R Marrow	1.94E-04
Spleen	1.57E-05
Thymus	1.54E-05
Uterus	1.54E-05
Bld Wall	1.57E-05
Brain	1.55E-05
Esophagu	3.91E-04
SI Wall	1.55E-05
LLI Wall	1.94E-05
Liver	1.50E-04
Muscle	1.63E-05
Pancreas	1.52E-05
Skin	1.07E-04
Testes	4.54E-05
Thyroid	1.58E-05
EFFEC	4.04E-03

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	2.35E-04
INHALATION	3.80E-03
AIR IMMERSION	1.72E-08
GROUND SURFACE	6.90E-06
INTERNAL	4.04E-03
EXTERNAL	6.92E-06
TOTAL	4.04E-03

Mar 9, 2011 10:09 am

SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	9.24E-05
Th-234	3.19E-06
Pa-234m	7.32E-07
Pa-234	1.98E-08
U-234	1.12E-04
Th-230	2.03E-03
Ra-226	5.48E-05
Rn-222	1.01E-15
Po-218	5.50E-12
Pb-214	1.53E-07
Bi-214	9.16E-07
Po-214	5.03E-11
Pb-210	7.28E-08
Bi-210	1.62E-10
Po-210	6.16E-09
At-218	0.00E+00
U-235	4.83E-06
Th-231	7.22E-09
Pa-231	3.98E-04
Ac-227	2.32E-04
Th-227	2.14E-08
Ra-223	2.00E-07
Rn-219	0.00E+00
Po-215	1.60E-11
Pb-211	9.04E-09
Bi-211	4.19E-09
Tl-207	5.28E-09
Po-211	0.00E+00
Fr-223	2.60E-10
Th-232	3.04E-04
Ra-228	3.99E-04
Ac-228	4.94E-06
Th-228	3.78E-04
Ra-224	2.84E-05
Rn-220	6.99E-13
Po-216	1.17E-11
Pb-212	1.10E-07
Bi-212	1.63E-07
Po-212	0.00E+00
Tl-208	7.73E-07
TOTAL	4.04E-03

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.91E-12
Stomach	6.16E-12
Colon	2.13E-11
Liver	3.83E-11
LUNG	1.83E-09
Bone	6.03E-11
Skin	2.43E-13
Breast	3.51E-12
Ovary	8.01E-12
Bladder	4.38E-12
Kidneys	6.39E-12
Thyroid	4.54E-13
Leukemia	1.23E-11
Residual	2.30E-11
Total	2.01E-09
TOTAL	4.02E-09

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	7.96E-11
INHALATION	1.93E-09
AIR IMMERSION	9.03E-15
GROUND SURFACE	3.39E-12
INTERNAL	2.01E-09
EXTERNAL	3.40E-12
TOTAL	2.01E-09

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SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	7.61E-11
Th-234	3.06E-12
Pa-234m	1.18E-13
Pa-234	1.08E-14
U-234	9.26E-11
Th-230	1.03E-09
Ra-226	4.09E-11
Rn-222	5.51E-22
Po-218	3.01E-18
Pb-214	8.14E-14
Bi-214	4.86E-13
Po-214	2.76E-17
Pb-210	2.41E-14
Bi-210	9.09E-17
Po-210	2.36E-15
At-218	0.00E+00
U-235	3.98E-12
Th-231	6.34E-15
Pa-231	3.76E-11
Ac-227	6.10E-11
Th-227	1.76E-14
Ra-223	1.09E-13
Rn-219	0.00E+00
Po-215	8.78E-18
Pb-211	3.00E-15
Bi-211	2.30E-15
Tl-207	6.75E-16
Po-211	0.00E+00
Fr-223	1.48E-16
Th-232	1.34E-10
Ra-228	1.76E-10
Ac-228	2.73E-12
Th-228	3.24E-10
Ra-224	2.44E-11
Rn-220	3.82E-19
Po-216	6.42E-18
Pb-212	6.39E-14
Bi-212	7.32E-14
Po-212	0.00E+00
Tl-208	4.21E-13
TOTAL	2.01E-09

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SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)					
	680	950	1150	1670	2050	
N	4.0E-03	2.2E-03	1.6E-03	9.6E-04	7.3E-04	HISS Business
NNW	2.2E-03	1.2E-03	9.4E-04	5.8E-04	4.6E-04	
NW	2.5E-03	1.4E-03	1.1E-03	6.4E-04	5.1E-04	
WNW	3.0E-03	1.7E-03	1.2E-03	7.4E-04	5.8E-04	
W	2.3E-03	1.3E-03	9.8E-04	6.0E-04	4.8E-04	SLAPS Business
WSW	1.2E-03	7.2E-04	5.6E-04	3.8E-04	3.2E-04	
SW	1.6E-03	9.4E-04	7.2E-04	4.6E-04	3.8E-04	
SSW	2.0E-03	1.1E-03	8.5E-04	5.3E-04	4.3E-04	
S	1.8E-03	1.0E-03	7.8E-04	5.0E-04	4.0E-04	
SSE	1.3E-03	7.7E-04	6.0E-04	4.0E-04	3.4E-04	
SE	1.8E-03	1.0E-03	7.9E-04	5.1E-04	4.1E-04	
ESE	2.9E-03	1.6E-03	1.2E-03	7.3E-04	5.7E-04	
E	3.8E-03	2.1E-03	1.5E-03	8.8E-04	6.7E-04	
ENE	3.1E-03	1.7E-03	1.3E-03	7.7E-04	5.9E-04	School
NE	2.0E-03	1.1E-03	8.6E-04	5.4E-04	4.3E-04	
NNE	1.7E-03	9.9E-04	7.6E-04	4.9E-04	4.0E-04	Residence / Farm

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SUMMARY
Page 6

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

Direction	Distance (m)				
	680	950	1150	1670	2050
N	2.0E-09	1.1E-09	8.0E-10	4.5E-10	3.4E-10
NNW	1.1E-09	5.9E-10	4.4E-10	2.6E-10	2.0E-10
NW	1.2E-09	6.8E-10	5.0E-10	3.0E-10	2.3E-10
WNW	1.5E-09	8.1E-10	6.0E-10	3.5E-10	2.6E-10
W	1.1E-09	6.3E-10	4.7E-10	2.7E-10	2.1E-10
WSW	5.8E-10	3.3E-10	2.6E-10	1.6E-10	1.3E-10
SW	7.9E-10	4.4E-10	3.3E-10	2.0E-10	1.6E-10
SSW	9.6E-10	5.3E-10	4.0E-10	2.4E-10	1.9E-10
S	8.6E-10	4.8E-10	3.6E-10	2.2E-10	1.7E-10
SSE	6.2E-10	3.6E-10	2.7E-10	1.7E-10	1.4E-10
SE	8.8E-10	4.9E-10	3.7E-10	2.3E-10	1.8E-10
ESE	1.5E-09	8.0E-10	5.9E-10	3.4E-10	2.6E-10
E	1.9E-09	1.0E-09	7.4E-10	4.2E-10	3.1E-10
ENE	1.6E-09	8.5E-10	6.2E-10	3.6E-10	2.7E-10
NE	9.8E-10	5.4E-10	4.1E-10	2.4E-10	1.9E-10
NNE	8.3E-10	4.7E-10	3.5E-10	2.2E-10	1.7E-10

CAP88 OUTPUT RESULTS

VPS 5 & 6

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 10, 2011 08:21 am

Facility: VPs 5 & 6
Address: SLAPS
City: Berkeley
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: VP5-62010
Dataset Date: 3/10/2011 8:21:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 10, 2011 08:21 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	6.07E-08
B Surfac	3.56E-05
Breasts	6.25E-08
St Wall	6.15E-08
ULI Wall	6.64E-08
Kidneys	5.56E-07
Lungs	8.01E-06
Ovaries	3.16E-07
R Marrow	1.37E-06
Spleen	6.15E-08
Thymus	6.11E-08
Uterus	6.10E-08
Bld Wall	6.14E-08
Brain	6.12E-08
Esophagu	3.68E-06
SI Wall	6.15E-08
LLI Wall	7.62E-08
Liver	8.09E-07
Muscle	6.27E-08
Pancreas	6.06E-08
Skin	8.47E-07
Testes	3.22E-07
Thyroid	6.19E-08
EFFEC	3.22E-05

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	8.26E-07
INHALATION	3.14E-05
AIR IMMERSION	5.75E-11
GROUND SURFACE	1.75E-08
INTERNAL	3.22E-05
EXTERNAL	1.75E-08
TOTAL	3.22E-05

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SUMMARY

Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	7.01E-08
Th-234	4.22E-08
Pa-234m	8.65E-09
Pa-234	0.00E+00
U-234	8.52E-08
Th-230	2.87E-05
Ra-226	5.57E-08
Rn-222	0.00E+00
Po-218	3.77E-15
Pb-214	1.05E-10
Bi-214	6.28E-10
Po-214	3.45E-14
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	0.00E+00
Th-231	7.41E-11
Pa-231	1.50E-06
Ac-227	1.02E-06
Th-227	0.00E+00
Ra-223	0.00E+00
Rn-219	0.00E+00
Po-215	0.00E+00
Pb-211	0.00E+00
Bi-211	0.00E+00
Tl-207	0.00E+00
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	0.00E+00
Ra-228	7.25E-07
Ac-228	9.28E-09
Th-228	0.00E+00
Ra-224	0.00E+00
Rn-220	0.00E+00
Po-216	0.00E+00
Pb-212	0.00E+00
Bi-212	0.00E+00
Po-212	0.00E+00
Tl-208	0.00E+00
TOTAL	3.22E-05

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	7.85E-15
Stomach	2.06E-14
Colon	7.69E-14
Liver	1.76E-13
LUNG	1.47E-11
Bone	3.94E-13
Skin	1.33E-15
Breast	1.15E-14
Ovary	5.32E-14
Bladder	1.85E-14
Kidneys	3.85E-14
Thyroid	1.58E-15
Leukemia	6.24E-14
Residual	7.17E-14
Total	1.56E-11
TOTAL	3.12E-11

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.83E-13
INHALATION	1.54E-11
AIR IMMERSION	2.63E-17
GROUND SURFACE	6.06E-15
INTERNAL	1.56E-11
EXTERNAL	6.09E-15
TOTAL	1.56E-11

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SUMMARY

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NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	5.78E-14
Th-234	4.04E-14
Pa-234m	1.39E-15
Pa-234	0.00E+00
U-234	7.04E-14
Th-230	1.46E-11
Ra-226	4.35E-14
Rn-222	0.00E+00
Po-218	2.07E-21
Pb-214	5.58E-17
Bi-214	3.33E-16
Po-214	1.89E-20
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	0.00E+00
Th-231	7.14E-17
Pa-231	1.42E-13
Ac-227	2.70E-13
Th-227	0.00E+00
Ra-223	0.00E+00
Rn-219	0.00E+00
Po-215	0.00E+00
Pb-211	0.00E+00
Bi-211	0.00E+00
Tl-207	0.00E+00
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	0.00E+00
Ra-228	3.20E-13
Ac-228	5.13E-15
Th-228	0.00E+00
Ra-224	0.00E+00
Rn-220	0.00E+00
Po-216	0.00E+00
Pb-212	0.00E+00
Bi-212	0.00E+00
Po-212	0.00E+00
Tl-208	0.00E+00
TOTAL	1.56E-11

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SUMMARY

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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)					
	950	1525	1740	2340	3610	
N	3.2E-05	1.5E-05	1.2E-05	7.4E-06	4.0E-06	
NNW	1.7E-05	7.8E-06	6.4E-06	4.1E-06	2.3E-06	
NW	2.0E-05	9.0E-06	7.3E-06	4.6E-06	2.6E-06	
WNW	2.4E-05	1.1E-05	8.7E-06	5.5E-06	3.0E-06	
W	1.8E-05	8.2E-06	6.7E-06	4.3E-06	2.4E-06	
WSW	8.9E-06	4.3E-06	3.5E-06	2.4E-06	1.5E-06	
SW	1.2E-05	5.7E-06	4.7E-06	3.1E-06	1.8E-06	
SSW	1.5E-05	6.9E-06	5.7E-06	3.6E-06	2.1E-06	
S	1.4E-05	6.3E-06	5.2E-06	3.4E-06	2.0E-06	
SSE	9.7E-06	4.6E-06	3.8E-06	2.5E-06	1.6E-06	
SE	1.4E-05	6.4E-06	5.3E-06	3.4E-06	2.0E-06	SLAPS Business
ESE	2.3E-05	1.1E-05	8.5E-06	5.4E-06	3.0E-06	
E	3.0E-05	1.3E-05	1.1E-05	6.7E-06	3.6E-06	Residence / School
ENE	2.5E-05	1.1E-05	9.0E-06	5.7E-06	3.1E-06	
NE	1.5E-05	7.1E-06	5.8E-06	3.7E-06	2.2E-06	HISS Business / Farm
NNE	1.3E-05	6.1E-06	5.0E-06	3.3E-06	1.9E-06	

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SUMMARY
Page 6

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

Distance (m)					
Direction	950	1525	1740	2340	3610
N	1.6E-11	7.0E-12	5.6E-12	3.4E-12	1.8E-12
NNW	8.1E-12	3.7E-12	3.0E-12	1.8E-12	9.8E-13
NW	9.4E-12	4.2E-12	3.4E-12	2.1E-12	1.1E-12
WNW	1.1E-11	5.1E-12	4.1E-12	2.5E-12	1.3E-12
W	8.6E-12	3.9E-12	3.1E-12	1.9E-12	1.0E-12
WSW	4.2E-12	1.9E-12	1.6E-12	9.9E-13	5.6E-13
SW	5.8E-12	2.6E-12	2.1E-12	1.3E-12	7.2E-13
SSW	7.2E-12	3.2E-12	2.6E-12	1.6E-12	8.6E-13
S	6.4E-12	2.9E-12	2.4E-12	1.5E-12	8.0E-13
SSE	4.6E-12	2.1E-12	1.7E-12	1.1E-12	6.0E-13
SE	6.6E-12	3.0E-12	2.4E-12	1.5E-12	8.1E-13
ESE	1.1E-11	5.0E-12	4.0E-12	2.5E-12	1.3E-12
E	1.4E-11	6.3E-12	5.1E-12	3.1E-12	1.6E-12
ENE	1.2E-11	5.3E-12	4.2E-12	2.6E-12	1.4E-12
NE	7.3E-12	3.3E-12	2.7E-12	1.7E-12	8.9E-13
NNE	6.2E-12	2.8E-12	2.3E-12	1.4E-12	7.7E-13

CAP88 OUTPUT RESULTS

VP-12

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 10, 2011 08:15 am

Facility: VP-12
Address: SLAPS
City: Berkeley
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: VP122010
Dataset Date: 3/10/2011 8:15:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 10, 2011 08:15 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	2.96E-04
B Surfac	1.53E-01
Breasts	3.09E-04
St Wall	3.02E-04
ULI Wall	3.21E-04
Kidneys	2.58E-03
Lungs	4.13E-02
Ovaries	1.39E-03
R Marrow	5.80E-03
Spleen	3.03E-04
Thymus	3.00E-04
Uterus	2.99E-04
Bld Wall	3.03E-04
Brain	3.00E-04
Esophagu	1.76E-02
SI Wall	3.01E-04
LLI Wall	3.63E-04
Liver	3.46E-03
Muscle	3.10E-04
Pancreas	2.96E-04
Skin	7.60E-03
Testes	1.42E-03
Thyroid	3.04E-04
EFFEC	1.55E-01

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	1.90E-03
INHALATION	1.53E-01
AIR IMMERSION	2.84E-07
GROUND SURFACE	1.37E-04
INTERNAL	1.55E-01
EXTERNAL	1.37E-04
TOTAL	1.55E-01

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SUMMARY

Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	8.03E-03
Th-234	3.80E-04
Pa-234m	8.13E-05
Pa-234	2.11E-06
U-234	3.58E-04
Th-230	1.20E-01
Ra-226	2.14E-03
Rn-222	4.19E-14
Po-218	2.20E-10
Pb-214	6.11E-06
Bi-214	3.67E-05
Po-214	2.01E-09
Pb-210	1.91E-06
Bi-210	6.54E-09
Po-210	1.58E-07
At-218	1.10E-11
U-235	1.39E-05
Th-231	2.75E-08
Pa-231	6.43E-03
Ac-227	4.33E-03
Th-227	3.21E-07
Ra-223	2.40E-06
Rn-219	0.00E+00
Po-215	2.83E-10
Pb-211	1.60E-07
Bi-211	7.40E-08
Tl-207	9.32E-08
Po-211	1.69E-11
Fr-223	5.01E-09
Th-232	1.25E-02
Ra-228	2.12E-04
Ac-228	3.34E-06
Th-228	3.38E-04
Ra-224	2.54E-05
Rn-220	6.11E-13
Po-216	9.23E-12
Pb-212	8.81E-08
Bi-212	1.28E-07
Po-212	0.00E+00
Tl-208	6.09E-07
TOTAL	1.55E-01

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	3.23E-11
Stomach	7.27E-11
Colon	3.07E-10
Liver	6.95E-10
LUNG	7.46E-08
Bone	1.60E-09
Skin	9.37E-12
Breast	4.18E-11
Ovary	2.19E-10
Bladder	7.71E-11
Kidneys	1.72E-10
Thyroid	5.78E-12
Leukemia	2.42E-10
Residual	2.73E-10
Total	7.84E-08
TOTAL	1.57E-07

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	3.37E-10
INHALATION	7.80E-08
AIR IMMERSION	1.09E-13
GROUND SURFACE	4.23E-11
INTERNAL	7.83E-08
EXTERNAL	4.24E-11
TOTAL	7.84E-08

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SUMMARY

Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	6.64E-09
Th-234	3.59E-10
Pa-234m	1.31E-11
Pa-234	1.15E-12
U-234	2.97E-10
Th-230	6.17E-08
Ra-226	1.67E-09
Rn-222	2.27E-20
Po-218	1.21E-16
Pb-214	3.26E-12
Bi-214	1.95E-11
Po-214	1.10E-15
Pb-210	6.33E-13
Bi-210	2.91E-15
Po-210	6.03E-14
At-218	5.23E-18
U-235	1.15E-11
Th-231	2.48E-14
Pa-231	6.08E-10
Ac-227	1.14E-09
Th-227	2.44E-13
Ra-223	1.31E-12
Rn-219	0.00E+00
Po-215	1.55E-16
Pb-211	5.30E-14
Bi-211	4.05E-14
Tl-207	1.19E-14
Po-211	9.29E-18
Fr-223	2.82E-15
Th-232	5.51E-09
Ra-228	9.45E-11
Ac-228	1.84E-12
Th-228	2.90E-10
Ra-224	2.18E-11
Rn-220	3.34E-19
Po-216	5.06E-18
Pb-212	5.15E-14
Bi-212	5.76E-14
Po-212	0.00E+00
Tl-208	3.32E-13
TOTAL	7.84E-08

Mar 10, 2011 08:15 am

SUMMARY

Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)					
	350	1270	1290	2095	3105	
N	1.6E-01	1.5E-02	1.5E-02	7.2E-03	4.3E-03	
NNW	8.0E-02	8.5E-03	8.3E-03	4.3E-03	2.8E-03	
NW	9.4E-02	9.6E-03	9.4E-03	4.8E-03	3.0E-03	
WNW	1.2E-01	1.1E-02	1.1E-02	5.5E-03	3.4E-03	
W	8.7E-02	8.9E-03	8.7E-03	4.4E-03	2.9E-03	
WSW	4.2E-02	4.9E-03	4.8E-03	2.8E-03	2.0E-03	
SW	5.9E-02	6.4E-03	6.2E-03	3.4E-03	2.3E-03	
SSW	7.3E-02	7.6E-03	7.4E-03	3.9E-03	2.6E-03	
S	6.4E-02	6.9E-03	6.8E-03	3.6E-03	2.5E-03	
SSE	4.5E-02	5.2E-03	5.1E-03	2.9E-03	2.1E-03	
SE	6.5E-02	7.1E-03	6.9E-03	3.7E-03	2.5E-03	SLAPS Business
ESE	1.1E-01	1.1E-02	1.1E-02	5.4E-03	3.4E-03	
E	1.5E-01	1.4E-02	1.4E-02	6.6E-03	4.0E-03	School
ENE	1.2E-01	1.2E-02	1.2E-02	5.7E-03	3.5E-03	Residence
NE	7.4E-02	7.8E-03	7.6E-03	4.0E-03	2.6E-03	HISS Business / Farm
NNE	6.2E-02	6.7E-03	6.6E-03	3.5E-03	2.4E-03	

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SUMMARY
Page 6

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

Direction	Distance (m)				
	350	1270	1290	2095	3105
N	7.8E-08	7.4E-09	7.2E-09	3.3E-09	1.8E-09
NNW	4.0E-08	3.9E-09	3.8E-09	1.8E-09	1.0E-09
NW	4.7E-08	4.5E-09	4.4E-09	2.0E-09	1.1E-09
WNW	5.8E-08	5.4E-09	5.3E-09	2.4E-09	1.3E-09
W	4.4E-08	4.1E-09	4.0E-09	1.9E-09	1.1E-09
WSW	2.1E-08	2.1E-09	2.0E-09	1.0E-09	6.2E-10
SW	3.0E-08	2.8E-09	2.8E-09	1.3E-09	7.8E-10
SSW	3.7E-08	3.5E-09	3.4E-09	1.6E-09	9.2E-10
S	3.2E-08	3.1E-09	3.1E-09	1.5E-09	8.5E-10
SSE	2.2E-08	2.3E-09	2.2E-09	1.1E-09	6.6E-10
SE	3.3E-08	3.2E-09	3.1E-09	1.5E-09	8.7E-10
ESE	5.6E-08	5.3E-09	5.1E-09	2.4E-09	1.3E-09
E	7.4E-08	6.7E-09	6.6E-09	3.0E-09	1.6E-09
ENE	6.1E-08	5.6E-09	5.5E-09	2.5E-09	1.4E-09
NE	3.7E-08	3.5E-09	3.5E-09	1.6E-09	9.4E-10
NNE	3.1E-08	3.0E-09	2.9E-09	1.4E-09	8.3E-10

CAP88 OUTPUT RESULTS

VP-63

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 10, 2011 08:23 am

Facility: VP-63
Address: SLAPS
City: Berkeley
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: VP63-2010
Dataset Date: 3/10/2011 8:23:00 AM
Wind File: . C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 10, 2011 08:23 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	1.15E-06
B Surfac	6.98E-04
Breasts	1.19E-06
St Wall	1.17E-06
ULI Wall	1.27E-06
Kidneys	1.08E-05
Lungs	1.58E-04
Ovaries	6.17E-06
R Marrow	2.65E-05
Spleen	1.17E-06
Thymus	1.16E-06
Uterus	1.16E-06
Bld Wall	1.16E-06
Brain	1.16E-06
Esophagu	7.26E-05
SI Wall	1.17E-06
LLI Wall	1.47E-06
Liver	1.58E-05
Muscle	1.19E-06
Pancreas	1.15E-06
Skin	1.11E-05
Testes	6.30E-06
Thyroid	1.17E-06
EFFEC	6.33E-04

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	1.65E-05
INHALATION	6.16E-04
AIR IMMERSION	2.12E-08
GROUND SURFACE	2.48E-07
INTERNAL	6.33E-04
EXTERNAL	2.69E-07
TOTAL	6.33E-04

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SUMMARY

Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	1.37E-06
Th-234	5.15E-07
Pa-234m	1.07E-07
Pa-234	4.61E-08
U-234	1.66E-06
Th-230	5.67E-04
Ra-226	1.26E-06
Rn-222	0.00E+00
Po-218	1.30E-13
Pb-214	3.61E-09
Bi-214	2.16E-08
Po-214	1.19E-12
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	6.42E-08
Th-231	8.76E-10
Pa-231	2.87E-05
Ac-227	2.06E-05
Th-227	2.10E-09
Ra-223	2.02E-08
Rn-219	0.00E+00
Po-215	1.46E-12
Pb-211	8.27E-10
Bi-211	3.83E-10
Tl-207	4.83E-10
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	9.97E-07
Ra-228	9.26E-06
Ac-228	1.11E-07
Th-228	1.59E-06
Ra-224	1.20E-07
Rn-220	2.97E-15
Po-216	1.34E-13
Pb-212	1.11E-09
Bi-212	1.86E-09
Po-212	0.00E+00
Tl-208	8.80E-09
TOTAL	6.33E-04

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	1.45E-13
Stomach	3.67E-13
Colon	1.39E-12
Liver	3.36E-12
LUNG	2.89E-10
Bone	7.57E-12
Skin	1.99E-14
Breast	2.04E-13
Ovary	1.03E-12
Bladder	3.44E-13
Kidneys	7.37E-13
Thyroid	2.83E-14
Leukemia	1.17E-12
Residual	1.28E-12
Total	3.07E-10
TOTAL	6.13E-10

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	3.13E-12
INHALATION	3.03E-10
AIR IMMERSION	1.15E-14
GROUND SURFACE	9.18E-14
INTERNAL	3.06E-10
EXTERNAL	1.03E-13
TOTAL	3.07E-10

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SUMMARY

Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.12E-12
Th-234	4.96E-13
Pa-234m	1.71E-14
Pa-234	2.92E-14
U-234	1.37E-12
Th-230	2.88E-10
Ra-226	9.20E-13
Rn-222	0.00E+00
Po-218	7.12E-20
Pb-214	1.92E-15
Bi-214	1.15E-14
Po-214	6.52E-19
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	5.28E-14
Th-231	8.37E-16
Pa-231	2.71E-12
Ac-227	5.41E-12
Th-227	1.76E-15
Ra-223	1.10E-14
Rn-219	0.00E+00
Po-215	8.03E-19
Pb-211	2.74E-16
Bi-211	2.10E-16
Tl-207	6.17E-17
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	4.38E-13
Ra-228	4.05E-12
Ac-228	6.13E-14
Th-228	1.36E-12
Ra-224	1.03E-13
Rn-220	1.63E-21
Po-216	7.34E-20
Pb-212	6.07E-16
Bi-212	8.33E-16
Po-212	0.00E+00
Tl-208	4.80E-15
TOTAL	3.07E-10

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SUMMARY

Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)					
	1050	1550	1640	1645	3305	
N	6.3E-04	3.3E-04	3.0E-04	3.0E-04	1.0E-04	
NNW	3.3E-04	1.8E-04	1.6E-04	1.6E-04	5.9E-05	
NW	3.8E-04	2.0E-04	1.9E-04	1.9E-04	6.6E-05	
WNW	4.6E-04	2.4E-04	2.2E-04	2.2E-04	7.8E-05	
W	3.5E-04	1.9E-04	1.7E-04	1.7E-04	6.1E-05	
WSW	1.8E-04	9.6E-05	8.8E-05	8.8E-05	3.6E-05	
SW	2.4E-04	1.3E-04	1.2E-04	1.2E-04	4.5E-05	
SSW	3.0E-04	1.6E-04	1.4E-04	1.4E-04	5.3E-05	
S	2.7E-04	1.4E-04	1.3E-04	1.3E-04	4.9E-05	SLAPS Business
SSE	1.9E-04	1.0E-04	9.6E-05	9.6E-05	3.8E-05	
SE	2.7E-04	1.5E-04	1.3E-04	1.3E-04	5.0E-05	*
ESE	4.5E-04	2.4E-04	2.2E-04	2.2E-04	7.6E-05	
E	5.8E-04	3.0E-04	2.8E-04	2.7E-04	9.3E-05	Farm
ENE	4.8E-04	2.5E-04	2.3E-04	2.3E-04	8.0E-05	
NE	3.0E-04	1.6E-04	1.5E-04	1.5E-04	5.4E-05	
NNE	2.6E-04	1.4E-04	1.3E-04	1.3E-04	4.8E-05	

*HISS Business / Residence / School, respectively

Mar 10, 2011 08:23 am

SUMMARY
Page 6

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

Distance (m)					
Direction	1050	1550	1640	1645	3305
N	3.1E-10	1.6E-10	1.4E-10	1.4E-10	4.6E-11
NNW	1.6E-10	8.3E-11	7.6E-11	7.6E-11	2.5E-11
NW	1.8E-10	9.6E-11	8.7E-11	8.7E-11	2.9E-11
WNW	2.2E-10	1.2E-10	1.1E-10	1.1E-10	3.4E-11
W	1.7E-10	8.8E-11	8.0E-11	7.9E-11	2.6E-11
WSW	8.2E-11	4.3E-11	3.9E-11	3.9E-11	1.4E-11
SW	1.1E-10	6.0E-11	5.4E-11	5.4E-11	1.8E-11
SSW	1.4E-10	7.3E-11	6.7E-11	6.6E-11	2.2E-11
S	1.3E-10	6.6E-11	6.0E-11	6.0E-11	2.0E-11
SSE	9.0E-11	4.7E-11	4.3E-11	4.3E-11	1.5E-11
SE	1.3E-10	6.8E-11	6.2E-11	6.2E-11	2.1E-11
ESE	2.2E-10	1.1E-10	1.0E-10	1.0E-10	3.3E-11
E	2.8E-10	1.4E-10	1.3E-10	1.3E-10	4.2E-11
ENE	2.3E-10	1.2E-10	1.1E-10	1.1E-10	3.5E-11
NE	1.4E-10	7.5E-11	6.9E-11	6.8E-11	2.3E-11
NNE	1.2E-10	6.4E-11	5.8E-11	5.8E-11	2.0E-11

CAP88 OUTPUT RESULTS
SLAPS LOAD OUT

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 10, 2011 08:26 am

Facility: SLAPS Loadout
Address: SLAPS
City: Berkeley
State: MO Zip: 63134

Source Category: Area
Source Type: Area
Emission Year: 2010

Comments: Air
Air

Dataset Name: SLPLO2010
Dataset Date: 3/10/2011 8:26:00 AM
Wind File: C:\Program Files\CAP88-PC30\WindLib\13994.WND

Mar 10, 2011 08:26 am

SUMMARY
Page 1

ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	7.87E-05
B Surfac	3.40E-02
Breasts	8.22E-05
St Wall	8.02E-05
ULI Wall	8.63E-05
Kidneys	5.78E-04
Lungs	8.74E-03
Ovaries	3.21E-04
R Marrow	1.36E-03
Spleen	8.06E-05
Thymus	7.98E-05
Uterus	7.95E-05
Bld Wall	8.06E-05
Brain	7.98E-05
Esophagu	3.68E-03
SI Wall	8.01E-05
LLI Wall	9.92E-05
Liver	8.93E-04
Muscle	8.28E-05
Pancreas	7.87E-05
Skin	1.03E-03
Testes	3.29E-04
Thyroid	8.11E-05
EFFEC	3.38E-02

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	8.31E-04
INHALATION	3.29E-02
AIR IMMERSION	6.40E-08
GROUND SURFACE	3.06E-05
INTERNAL	3.37E-02
EXTERNAL	3.07E-05
TOTAL	3.38E-02

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SUMMARY
Page 2

NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	1.37E-03
Th-234	4.28E-05
Pa-234m	9.82E-06
Pa-234	2.72E-07
U-234	3.27E-04
Th-230	2.41E-02
Ra-226	4.35E-04
Rn-222	8.21E-15
Po-218	4.37E-11
Pb-214	1.21E-06
Bi-214	7.29E-06
Po-214	4.00E-10
Pb-210	5.04E-07
Bi-210	1.40E-09
Po-210	4.23E-08
At-218	0.00E+00
U-235	1.40E-05
Th-231	1.92E-08
Pa-231	1.96E-03
Ac-227	1.24E-03
Th-227	1.05E-07
Ra-223	9.14E-07
Rn-219	0.00E+00
Po-215	8.34E-11
Pb-211	4.71E-08
Bi-211	2.18E-08
Tl-207	2.75E-08
Po-211	0.00E+00
Fr-223	1.46E-09
Th-232	2.36E-03
Ra-228	8.33E-04
Ac-228	1.09E-05
Th-228	9.40E-04
Ra-224	7.05E-05
Rn-220	1.72E-12
Po-216	2.73E-11
Pb-212	2.58E-07
Bi-212	3.79E-07
Po-212	0.00E+00
Tl-208	1.80E-06
TOTAL	3.38E-02

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	9.16E-12
Stomach	2.41E-11
Colon	9.04E-11
Liver	1.96E-10
LUNG	1.59E-08
Bone	3.88E-10
Skin	1.59E-12
Breast	1.38E-11
Ovary	5.29E-11
Bladder	2.15E-11
Kidneys	4.14E-11
Thyroid	1.85E-12
Leukemia	6.48E-11
Residual	9.09E-11
Total	1.69E-08
TOTAL	3.38E-08

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	2.12E-10
INHALATION	1.67E-08
AIR IMMERSION	2.98E-14
GROUND SURFACE	1.26E-11
INTERNAL	1.69E-08
EXTERNAL	1.26E-11
TOTAL	1.69E-08

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SUMMARY
Page 4

NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	1.13E-09
Th-234	4.10E-11
Pa-234m	1.58E-12
Pa-234	1.48E-13
U-234	2.70E-10
Th-230	1.23E-08
Ra-226	3.30E-10
Rn-222	4.46E-21
Po-218	2.40E-17
Pb-214	6.48E-13
Bi-214	3.87E-12
Po-214	2.20E-16
Pb-210	1.67E-13
Bi-210	7.30E-16
Po-210	1.62E-14
At-218	0.00E+00
U-235	1.15E-11
Th-231	1.68E-14
Pa-231	1.85E-10
Ac-227	3.27E-10
Th-227	8.42E-14
Ra-223	4.97E-13
Rn-219	0.00E+00
Po-215	4.57E-17
Pb-211	1.56E-14
Bi-211	1.19E-14
Tl-207	3.51E-15
Po-211	0.00E+00
Fr-223	8.19E-16
Th-232	1.04E-09
Ra-228	3.70E-10
Ac-228	6.01E-12
Th-228	8.04E-10
Ra-224	6.06E-11
Rn-220	9.39E-19
Po-216	1.49E-17
Pb-212	1.50E-13
Bi-212	1.70E-13
Po-212	0.00E+00
Tl-208	9.81E-13
TOTAL	1.69E-08

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SUMMARY
Page 5

INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)					
	500	770	1010	1710	2580	
N	3.4E-02	1.5E-02	9.4E-03	4.2E-03	2.4E-03	
NNW	1.8E-02	8.1E-03	5.1E-03	2.5E-03	1.5E-03	
NW	2.1E-02	9.4E-03	5.8E-03	2.7E-03	1.7E-03	
WNW	2.5E-02	1.1E-02	7.0E-03	3.2E-03	1.9E-03	
W	1.9E-02	8.7E-03	5.4E-03	2.5E-03	1.6E-03	
WSW	9.4E-03	4.5E-03	2.9E-03	1.5E-03	1.1E-03	SLAPS Business
SW	1.3E-02	6.0E-03	3.8E-03	1.9E-03	1.2E-03	
SSW	1.6E-02	7.3E-03	4.6E-03	2.2E-03	1.4E-03	
S	1.4E-02	6.6E-03	4.2E-03	2.1E-03	1.3E-03	
SSE	1.0E-02	4.8E-03	3.1E-03	1.6E-03	1.1E-03	
SE	1.4E-02	6.7E-03	4.3E-03	2.1E-03	1.3E-03	
ESE	2.4E-02	1.1E-02	6.8E-03	3.1E-03	1.9E-03	
E	3.2E-02	1.4E-02	8.6E-03	3.8E-03	2.2E-03	School
ENE	2.6E-02	1.2E-02	7.2E-03	3.3E-03	1.9E-03	
NE	1.6E-02	7.5E-03	4.7E-03	2.3E-03	1.4E-03	Residence / Farm
NNE	1.4E-02	6.4E-03	4.0E-03	2.0E-03	1.3E-03	HISS Business

Mar 10, 2011 08:26 am

SUMMARY
Page 6

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

Direction	Distance (m)				
	500	770	1010	1710	2580
N	1.7E-08	7.6E-09	4.6E-09	2.0E-09	1.1E-09
NNW	8.7E-09	4.0E-09	2.4E-09	1.1E-09	6.2E-10
NW	1.0E-08	4.6E-09	2.8E-09	1.2E-09	6.9E-10
WNW	1.2E-08	5.6E-09	3.4E-09	1.5E-09	8.0E-10
W	9.4E-09	4.2E-09	2.6E-09	1.1E-09	6.4E-10
WSW	4.6E-09	2.1E-09	1.3E-09	6.3E-10	3.9E-10
SW	6.4E-09	2.9E-09	1.8E-09	8.1E-10	4.8E-10
SSW	7.9E-09	3.6E-09	2.2E-09	9.7E-10	5.6E-10
S	7.0E-09	3.2E-09	2.0E-09	8.9E-10	5.2E-10
SSE	4.9E-09	2.3E-09	1.4E-09	6.7E-10	4.1E-10
SE	7.1E-09	3.2E-09	2.0E-09	9.1E-10	5.3E-10
ESE	1.2E-08	5.4E-09	3.3E-09	1.4E-09	7.9E-10
E	1.6E-08	7.0E-09	4.2E-09	1.8E-09	9.6E-10
ENE	1.3E-08	5.8E-09	3.5E-09	1.5E-09	8.3E-10
NE	8.0E-09	3.6E-09	2.2E-09	1.0E-09	5.7E-10
NNE	6.8E-09	3.1E-09	1.9E-09	8.6E-10	5.1E-10

CAP88 OUTPUT RESULTS
USACE RADIOANALYTICAL LABORATORY

C A P 8 8 - P C

Version 3.0

Clean Air Act Assessment Package - 1988

D O S E A N D R I S K E Q U I V A L E N T S U M M A R I E S

Non-Radon Individual Assessment

Mar 15, 2011 12:26 am

Facility: Latty Lab
Address: Latty Avenue
City: Berkeley
State: MO Zip: 63147

Source Category: Area
Source Type: Stack
Emission Year: 2010

Comments: Air
Air

Dataset Name: Lab 2010
Dataset Date: 3/15/2011 12:25:00 AM
Wind File: C:\Program Files\CAP88-PC30\WindLib\13994.WND

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SUMMARY
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ORGAN DOSE EQUIVALENT SUMMARY

Organ	Selected Individual (mrem/y)
Adrenals	2.14E-05
B Surfac	6.16E-03
Breasts	2.20E-05
St Wall	2.17E-05
ULI Wall	2.41E-05
Kidneys	1.00E-04
Lungs	9.93E-04
Ovaries	7.37E-05
R Marrow	2.62E-04
Spleen	2.18E-05
Thymus	2.16E-05
Uterus	2.16E-05
Bld Wall	2.18E-05
Brain	2.16E-05
Esophagu	3.36E-04
SI Wall	2.17E-05
LLI Wall	2.88E-05
Liver	4.41E-04
Muscle	2.21E-05
Pancreas	2.15E-05
Skin	9.77E-05
Testes	7.46E-05
Thyroid	2.18E-05
EFFEC	5.16E-03

PATHWAY EFFECTIVE DOSE EQUIVALENT SUMMARY

Pathway	Selected Individual (mrem/y)
INGESTION	7.15E-05
INHALATION	5.08E-03
AIR IMMERSION	1.08E-09
GROUND SURFACE	4.06E-06
INTERNAL	5.15E-03
EXTERNAL	4.06E-06
TOTAL	5.16E-03

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SUMMARY
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NUCLIDE EFFECTIVE DOSE EQUIVALENT SUMMARY

Nuclide	Selected Individual (mrem/y)
U-238	3.78E-04
Th-234	1.23E-06
Pa-234m	6.52E-07
Pa-234	0.00E+00
U-234	4.26E-04
Th-230	1.24E-03
Ra-226	1.26E-04
Rn-222	0.00E+00
Po-218	1.22E-11
Pb-214	3.40E-07
Bi-214	2.04E-06
Po-214	1.12E-10
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	1.84E-05
Th-231	6.21E-09
Pa-231	1.22E-03
Ac-227	1.26E-03
Th-227	9.80E-08
Ra-223	8.07E-07
Rn-219	0.00E+00
Po-215	7.81E-11
Pb-211	4.41E-08
Bi-211	2.04E-08
Tl-207	2.58E-08
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	1.86E-04
Ra-228	2.56E-05
Ac-228	2.66E-07
Th-228	2.55E-04
Ra-224	1.91E-05
Rn-220	4.34E-13
Po-216	4.80E-12
Pb-212	4.01E-08
Bi-212	6.68E-08
Po-212	0.00E+00
Tl-208	3.16E-07
TOTAL	5.16E-03

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SUMMARY
Page 3

CANCER RISK SUMMARY

Cancer	Selected Individual Total Lifetime Fatal Cancer Risk
Esophagu	2.56E-12
Stomach	5.86E-12
Colon	1.80E-11
Liver	1.01E-10
LUNG	1.93E-09
Bone	6.92E-11
Skin	2.45E-13
Breast	3.36E-12
Ovary	1.24E-11
Bladder	6.08E-12
Kidneys	7.56E-12
Thyroid	4.69E-13
Leukemia	1.21E-11
Residual	2.21E-11
Total	2.19E-09
TOTAL	4.38E-09

PATHWAY RISK SUMMARY

Pathway	Selected Individual Total Lifetime Fatal Cancer Risk
INGESTION	1.85E-11
INHALATION	2.17E-09
AIR IMMERSION	4.55E-16
GROUND SURFACE	1.89E-12
INTERNAL	2.19E-09
EXTERNAL	1.89E-12
TOTAL	2.19E-09

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SUMMARY
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NUCLIDE RISK SUMMARY

Nuclide	Selected Individual Total Lifetime Fatal Cancer Risk
U-238	3.12E-10
Th-234	1.22E-12
Pa-234m	1.05E-13
Pa-234	0.00E+00
U-234	3.52E-10
Th-230	6.33E-10
Ra-226	9.67E-11
Rn-222	0.00E+00
Po-218	6.71E-18
Pb-214	1.81E-13
Bi-214	1.08E-12
Po-214	6.15E-17
Pb-210	0.00E+00
Bi-210	0.00E+00
Po-210	0.00E+00
At-218	0.00E+00
U-235	1.52E-11
Th-231	3.82E-15
Pa-231	1.16E-10
Ac-227	3.31E-10
Th-227	7.75E-14
Ra-223	4.39E-13
Rn-219	0.00E+00
Po-215	4.28E-17
Pb-211	1.46E-14
Bi-211	1.12E-14
Tl-207	3.29E-15
Po-211	0.00E+00
Fr-223	0.00E+00
Th-232	8.20E-11
Ra-228	1.14E-11
Ac-228	1.42E-13
Th-228	2.18E-10
Ra-224	1.65E-11
Rn-220	2.37E-19
Po-216	2.63E-18
Pb-212	2.18E-14
Bi-212	3.00E-14
Po-212	0.00E+00
Tl-208	1.73E-13
TOTAL	2.19E-09

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SUMMARY
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INDIVIDUAL EFFECTIVE DOSE EQUIVALENT RATE (mrem/y)
(All Radionuclides and Pathways)

Direction	Distance (m)				
	110	310	330	1830	
N	5.2E-03	1.2E-03	1.1E-03	1.0E-04	
NNW	2.8E-03	6.6E-04	6.0E-04	7.7E-05	
NW	2.9E-03	7.6E-04	6.9E-04	8.2E-05	
WNW	3.4E-03	9.2E-04	8.3E-04	8.8E-05	
W	2.7E-03	7.1E-04	6.4E-04	7.9E-05	
WSW	1.4E-03	3.7E-04	3.4E-04	6.4E-05	
SW	1.7E-03	5.0E-04	4.5E-04	7.0E-05	
SSW	2.1E-03	6.0E-04	5.5E-04	7.4E-05	
S	2.2E-03	5.4E-04	4.9E-04	7.2E-05	Business
SSE	1.6E-03	3.9E-04	3.6E-04	6.5E-05	
SE	2.3E-03	5.5E-04	5.0E-04	7.2E-05	School
ESE	3.4E-03	9.0E-04	8.1E-04	8.7E-05	
E	4.1E-03	1.2E-03	1.0E-03	9.8E-05	
ENE	3.3E-03	9.6E-04	8.7E-04	9.0E-05	
NE	2.3E-03	6.1E-04	5.5E-04	7.5E-05	Farm / Resident
NNE	2.0E-03	5.2E-04	4.7E-04	7.1E-05	

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

Direction	Distance (m)			
	110	310	330	1830
N	2.2E-09	5.2E-10	4.7E-10	3.5E-11
NNW	1.2E-09	2.7E-10	2.5E-10	2.5E-11
NW	1.2E-09	3.2E-10	2.9E-10	2.6E-11
WNW	1.4E-09	3.8E-10	3.5E-10	2.9E-11
W	1.2E-09	2.9E-10	2.7E-10	2.5E-11
WSW	5.8E-10	1.5E-10	1.3E-10	1.9E-11
SW	7.3E-10	2.0E-10	1.8E-10	2.1E-11
SSW	8.7E-10	2.5E-10	2.2E-10	2.3E-11
S	9.4E-10	2.2E-10	2.0E-10	2.2E-11
SSE	6.9E-10	1.6E-10	1.4E-10	2.0E-11
SE	9.6E-10	2.2E-10	2.0E-10	2.2E-11
ESE	1.5E-09	3.7E-10	3.4E-10	2.9E-11
E	1.7E-09	4.8E-10	4.4E-10	3.3E-11
ENE	1.4E-09	4.0E-10	3.6E-10	3.0E-11
NE	9.8E-10	2.5E-10	2.3E-10	2.3E-11
NNE	8.6E-10	2.1E-10	1.9E-10	2.2E-11

APPENDIX B

**ENVIRONMENTAL TLD, ALPHA TRACK AND PERIMETER AIR DATA
(On CD-ROM at the end of this document)**

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Table B-1. Background Air Particulate Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122887	BAP-001	01/04/10	Gross Alpha/Beta	Gross Alpha	2.92E-15	8.88E-16	4.58E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122887	BAP-001	01/04/10	Gross Alpha/Beta	Gross Beta	2.50E-14	2.73E-15	1.32E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122892	BAP-001	01/11/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	7.87E-16	4.50E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122892	BAP-001	01/11/10	Gross Alpha/Beta	Gross Beta	2.41E-14	2.65E-15	1.30E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122897	BAP-001	01/20/10	Gross Alpha/Beta	Gross Alpha	4.98E-15	1.07E-15	4.16E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122897	BAP-001	01/20/10	Gross Alpha/Beta	Gross Beta	3.71E-14	2.50E-15	1.22E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122902	BAP-001	01/26/10	Gross Alpha/Beta	Gross Alpha	1.07E-15	5.78E-16	5.06E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122902	BAP-001	01/26/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.90E-15	1.49E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122907	BAP-001	02/01/10	Gross Alpha/Beta	Gross Alpha	1.90E-15	7.81E-16	5.50E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122907	BAP-001	02/01/10	Gross Alpha/Beta	Gross Beta	1.99E-14	2.24E-15	1.62E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122912	BAP-001	02/08/10	Gross Alpha/Beta	Gross Alpha	1.23E-15	5.69E-16	4.41E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122912	BAP-001	02/08/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.99E-15	1.30E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122917	BAP-001	02/16/10	Gross Alpha/Beta	Gross Alpha	1.21E-15	5.45E-16	4.14E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122917	BAP-001	02/16/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.72E-15	1.22E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122922	BAP-001	02/22/10	Gross Alpha/Beta	Gross Alpha	1.27E-15	6.39E-16	5.31E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122922	BAP-001	02/22/10	Gross Alpha/Beta	Gross Beta	1.29E-14	1.86E-15	1.56E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122927	BAP-001	03/02/10	Gross Alpha/Beta	Gross Alpha	1.62E-15	6.07E-16	3.94E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122927	BAP-001	03/02/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.85E-15	1.16E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122932	BAP-001	03/08/10	Gross Alpha/Beta	Gross Alpha	1.69E-15	6.82E-16	4.72E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122932	BAP-001	03/08/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.76E-15	1.39E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122937	BAP-001	03/16/10	Gross Alpha/Beta	Gross Alpha	8.94E-16	4.65E-16	3.97E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122937	BAP-001	03/16/10	Gross Alpha/Beta	Gross Beta	9.29E-15	1.38E-15	1.16E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122938	BAP-001	03/23/10	Gross Alpha/Beta	Gross Alpha	6.01E-16	4.26E-16	4.55E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122938	BAP-001	03/23/10	Gross Alpha/Beta	Gross Beta	1.44E-14	1.76E-15	1.34E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122943	BAP-001	03/29/10	Gross Alpha/Beta	Gross Alpha	1.38E-15	6.72E-16	4.97E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122943	BAP-001	03/29/10	Gross Alpha/Beta	Gross Beta	1.45E-14	2.01E-15	1.69E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122948	BAP-001	04/06/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	6.47E-16	3.54E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122948	BAP-001	04/06/10	Gross Alpha/Beta	Gross Beta	1.56E-14	1.68E-15	1.21E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122953	BAP-001	04/13/10	Gross Alpha/Beta	Gross Alpha	1.77E-15	6.85E-16	4.15E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122953	BAP-001	04/13/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.88E-15	1.41E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122958	BAP-001	04/19/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	8.01E-16	4.63E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122958	BAP-001	04/19/10	Gross Alpha/Beta	Gross Beta	1.66E-14	2.02E-15	1.58E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122963	BAP-001	04/26/10	Gross Alpha/Beta	Gross Alpha	2.76E-15	8.50E-16	4.37E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122963	BAP-001	04/26/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.85E-15	1.44E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122968	BAP-001	05/03/10	Gross Alpha/Beta	Gross Alpha	1.84E-15	6.94E-16	4.27E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122968	BAP-001	05/03/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.61E-15	1.41E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122973	BAP-001	05/10/10	Gross Alpha/Beta	Gross Alpha	1.59E-15	6.46E-16	4.25E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122973	BAP-001	05/10/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.72E-15	1.40E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122978	BAP-001	05/17/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	5.32E-16	4.19E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS122978	BAP-001	05/17/10	Gross Alpha/Beta	Gross Beta	9.54E-15	1.57E-15	1.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122983	BAP-001	05/24/10	Gross Alpha/Beta	Gross Alpha	1.89E-15	7.09E-16	4.31E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122983	BAP-001	05/24/10	Gross Alpha/Beta	Gross Beta	1.00E-14	1.63E-15	1.47E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122988	BAP-001	06/01/10	Gross Alpha/Beta	Gross Alpha	9.82E-16	4.82E-16	3.70E-16	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-1. Background Air Particulate Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122988	BAP-001	06/01/10	Gross Alpha/Beta	Gross Beta	1.13E-14	1.53E-15	1.26E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122993	BAP-001	06/07/10	Gross Alpha/Beta	Gross Alpha	1.68E-15	7.29E-16	4.97E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122993	BAP-001	06/07/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.84E-15	1.66E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122998	BAP-001	06/14/10	Gross Alpha/Beta	Gross Alpha	1.93E-15	7.03E-16	4.33E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122998	BAP-001	06/14/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.67E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123003	BAP-001	06/21/10	Gross Alpha/Beta	Gross Alpha	7.97E-16	4.72E-16	4.23E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123003	BAP-001	06/21/10	Gross Alpha/Beta	Gross Beta	9.84E-15	1.51E-15	1.36E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123008	BAP-001	06/28/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	9.55E-16	4.63E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123008	BAP-001	06/28/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.89E-15	1.44E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123013	BAP-001	07/06/10	Gross Alpha/Beta	Gross Alpha	2.06E-15	7.42E-16	5.26E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123013	BAP-001	07/06/10	Gross Alpha/Beta	Gross Beta	1.51E-14	1.59E-15	8.82E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123020	BAP-001	07/12/10	Gross Alpha/Beta	Gross Alpha	3.48E-15	1.10E-15	7.30E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123020	BAP-001	07/12/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.79E-15	1.17E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123024	BAP-001	07/19/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	8.34E-16	6.13E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123024	BAP-001	07/19/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.62E-15	9.83E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123030	BAP-001	07/26/10	Gross Alpha/Beta	Gross Alpha	2.80E-15	8.39E-16	4.04E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123030	BAP-001	07/26/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.71E-15	1.40E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123035	BAP-001	08/02/10	Gross Alpha/Beta	Gross Alpha	3.37E-15	9.41E-16	4.45E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123035	BAP-001	08/02/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.91E-15	1.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123040	BAP-001	08/09/10	Gross Alpha/Beta	Gross Alpha	4.53E-15	1.07E-15	4.30E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123040	BAP-001	08/09/10	Gross Alpha/Beta	Gross Beta	2.43E-14	2.16E-15	1.38E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123045	BAP-001	08/16/10	Gross Alpha/Beta	Gross Alpha	3.07E-15	8.86E-16	4.23E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123045	BAP-001	08/16/10	Gross Alpha/Beta	Gross Beta	1.29E-14	1.72E-15	1.39E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123050	BAP-001	08/23/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	8.44E-16	6.18E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123050	BAP-001	08/23/10	Gross Alpha/Beta	Gross Beta	2.30E-14	2.03E-15	9.83E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123055	BAP-001	08/30/10	Gross Alpha/Beta	Gross Alpha	3.33E-15	9.70E-16	5.70E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123055	BAP-001	08/30/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.86E-15	9.66E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123056	BAP-001	09/07/10	Gross Alpha/Beta	Gross Alpha	1.80E-15	6.92E-16	5.35E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123056	BAP-001	09/07/10	Gross Alpha/Beta	Gross Beta	1.20E-14	1.41E-15	8.53E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123065	BAP-001	09/13/10	Gross Alpha/Beta	Gross Alpha	2.12E-15	8.68E-16	7.15E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123065	BAP-001	09/13/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.99E-15	1.14E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123068	BAP-001	09/20/10	Gross Alpha/Beta	Gross Alpha	1.49E-15	7.02E-16	6.37E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123068	BAP-001	09/20/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.99E-15	1.01E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123071	BAP-001	09/27/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	1.01E-15	4.41E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123071	BAP-001	09/27/10	Gross Alpha/Beta	Gross Beta	1.91E-14	1.97E-15	1.38E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123076	BAP-001	10/04/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	7.42E-16	4.29E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123076	BAP-001	10/04/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.74E-15	1.34E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123084	BAP-001	10/11/10	Gross Alpha/Beta	Gross Alpha	4.11E-15	1.12E-15	6.53E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123084	BAP-001	10/11/10	Gross Alpha/Beta	Gross Beta	2.91E-14	2.34E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123089	BAP-001	10/18/10	Gross Alpha/Beta	Gross Alpha	9.32E-15	1.53E-15	4.13E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123089	BAP-001	10/18/10	Gross Alpha/Beta	Gross Beta	2.95E-14	2.38E-15	1.37E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123091	BAP-001	10/25/10	Gross Alpha/Beta	Gross Alpha	3.49E-15	9.91E-16	5.59E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123091	BAP-001	10/25/10	Gross Alpha/Beta	Gross Beta	2.45E-14	2.04E-15	8.95E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

Table B-1. Background Air Particulate Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123100	BAP-001	11/01/10	Gross Alpha/Beta	Gross Alpha	2.11E-15	7.85E-16	5.62E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123100	BAP-001	11/01/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.56E-15	9.41E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123105	BAP-001	11/08/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	8.89E-16	5.76E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123105	BAP-001	11/08/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.70E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123106	BAP-001	11/15/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	1.06E-15	7.04E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123106	BAP-001	11/15/10	Gross Alpha/Beta	Gross Beta	2.34E-14	2.07E-15	9.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123111	BAP-001	11/22/10	Gross Alpha/Beta	Gross Alpha	4.83E-15	1.26E-15	6.97E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123111	BAP-001	11/22/10	Gross Alpha/Beta	Gross Beta	3.16E-14	2.55E-15	1.10E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123116	BAP-001	11/29/10	Gross Alpha/Beta	Gross Alpha	3.26E-15	9.10E-16	4.14E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123116	BAP-001	11/29/10	Gross Alpha/Beta	Gross Beta	2.17E-14	2.10E-15	1.38E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123121	BAP-001	12/06/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	9.35E-16	4.14E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123121	BAP-001	12/06/10	Gross Alpha/Beta	Gross Beta	2.68E-14	2.29E-15	1.38E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123130	BAP-001	12/13/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	9.81E-16	6.13E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123130	BAP-001	12/13/10	Gross Alpha/Beta	Gross Beta	2.09E-14	1.92E-15	9.48E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123135	BAP-001	12/20/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	9.63E-16	4.90E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123135	BAP-001	12/20/10	Gross Alpha/Beta	Gross Beta	2.60E-14	2.29E-15	1.45E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123140	BAP-001	12/27/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	5.80E-16	5.59E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123140	BAP-001	12/27/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.54E-15	9.24E-16	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123300	Futura	01/04/10	Gross Alpha/Beta	Gross Alpha	-7.00E-17	3.26E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123300	Futura	01/04/10	Gross Alpha/Beta	Gross Beta	2.72E-14	1.75E-14	2.29E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123304	Futura	01/13/10	Gross Alpha/Beta	Gross Alpha	2.14E-15	4.64E-15	8.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123304	Futura	01/13/10	Gross Alpha/Beta	Gross Beta	9.37E-15	1.70E-14	2.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123305	Futura	01/12/10	Gross Alpha/Beta	Gross Alpha	1.03E-15	4.04E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123305	Futura	01/12/10	Gross Alpha/Beta	Gross Beta	1.94E-14	1.77E-14	2.42E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123327	Futura	01/19/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	5.24E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123327	Futura	01/19/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.76E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123328	Futura	01/14/10	Gross Alpha/Beta	Gross Alpha	7.16E-15	6.99E-15	9.07E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123328	Futura	01/14/10	Gross Alpha/Beta	Gross Beta	3.96E-14	2.09E-14	2.66E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123329	Futura	01/18/10	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.34E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123329	Futura	01/18/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.83E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123337	Futura	01/28/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.49E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123337	Futura	01/28/10	Gross Alpha/Beta	Gross Beta	2.88E-14	1.89E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123338	Futura	01/27/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	4.16E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123338	Futura	01/27/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.82E-14	2.49E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123339	Futura	01/26/10	Gross Alpha/Beta	Gross Alpha	-1.22E-15	2.69E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123339	Futura	01/26/10	Gross Alpha/Beta	Gross Beta	-8.49E-16	1.65E-14	2.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123340	Futura	01/25/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123340	Futura	01/25/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.91E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123379	Futura	02/01/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	6.92E-15	8.48E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123379	Futura	02/01/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.80E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123380	Futura	02/02/10	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.34E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123380	Futura	02/02/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.92E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123381	Futura	02/03/10	Gross Alpha/Beta	Gross Alpha	7.02E-15	6.86E-15	8.89E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123381	Futura	02/03/10	Gross Alpha/Beta	Gross Beta	4.58E-14	2.10E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123382	Futura	02/04/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	6.73E-15	8.72E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123382	Futura	02/04/10	Gross Alpha/Beta	Gross Beta	6.32E-14	2.19E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123387	Futura	02/10/10	Gross Alpha/Beta	Gross Alpha	5.84E-15	6.44E-15	8.89E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123387	Futura	02/10/10	Gross Alpha/Beta	Gross Beta	2.17E-14	1.91E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123388	Futura	02/11/10	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.04E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123388	Futura	02/11/10	Gross Alpha/Beta	Gross Beta	6.18E-15	2.05E-14	3.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125686	Futura	02/15/10	Gross Alpha/Beta	Gross Alpha	-9.90E-17	4.60E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125686	Futura	02/15/10	Gross Alpha/Beta	Gross Beta	2.82E-14	2.41E-14	3.28E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125687	Futura	02/16/10	Gross Alpha/Beta	Gross Alpha	-2.38E-15	1.44E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125687	Futura	02/16/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.81E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125688	Futura	02/17/10	Gross Alpha/Beta	Gross Alpha	-6.46E-15	3.91E-15	2.35E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125688	Futura	02/17/10	Gross Alpha/Beta	Gross Beta	6.14E-14	5.08E-14	6.90E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125689	Futura	02/18/10	Gross Alpha/Beta	Gross Alpha	2.16E-15	4.69E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125689	Futura	02/18/10	Gross Alpha/Beta	Gross Beta	3.15E-14	1.90E-14	2.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125719	Futura	02/22/10	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.14E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125719	Futura	02/22/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.91E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125720	Futura	02/23/10	Gross Alpha/Beta	Gross Alpha	7.97E-15	7.05E-15	8.64E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125720	Futura	02/23/10	Gross Alpha/Beta	Gross Beta	4.00E-14	2.01E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125721	Futura	02/24/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	6.73E-15	8.72E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125721	Futura	02/24/10	Gross Alpha/Beta	Gross Beta	6.17E-14	2.18E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125765	Futura	03/15/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	5.26E-15	9.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125765	Futura	03/15/10	Gross Alpha/Beta	Gross Beta	9.36E-15	2.15E-14	3.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125766	Futura	03/16/10	Gross Alpha/Beta	Gross Alpha	2.82E-15	4.67E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125766	Futura	03/16/10	Gross Alpha/Beta	Gross Beta	4.45E-15	1.66E-14	2.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125767	Futura	03/17/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	5.35E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125767	Futura	03/17/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.92E-14	2.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125768	Futura	03/18/10	Gross Alpha/Beta	Gross Alpha	-1.60E-15	1.61E-15	7.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125768	Futura	03/18/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.86E-14	2.56E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125786	Futura	03/24/10	Gross Alpha/Beta	Gross Alpha	-1.59E-15	1.60E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125786	Futura	03/24/10	Gross Alpha/Beta	Gross Beta	5.22E-15	1.68E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125787	Futura	03/23/10	Gross Alpha/Beta	Gross Alpha	-4.67E-16	2.66E-15	7.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125787	Futura	03/23/10	Gross Alpha/Beta	Gross Beta	3.06E-14	1.85E-14	2.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125788	Futura	03/22/10	Gross Alpha/Beta	Gross Alpha	2.82E-15	4.67E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125788	Futura	03/22/10	Gross Alpha/Beta	Gross Beta	2.32E-14	1.82E-14	2.51E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125795	Futura	03/29/10	Gross Alpha/Beta	Gross Alpha	1.77E-15	4.24E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125795	Futura	03/29/10	Gross Alpha/Beta	Gross Beta	2.16E-14	1.85E-14	2.58E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125858	Futura	04/13/10	Gross Alpha/Beta	Gross Alpha	-1.47E-15	8.35E-15	2.27E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125858	Futura	04/13/10	Gross Alpha/Beta	Gross Beta	2.93E-14	5.26E-14	7.74E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125859	Futura	04/13/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	4.80E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125859	Futura	04/13/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.89E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125860	Futura	04/13/10	Gross Alpha/Beta	Gross Alpha	-1.65E-15	1.66E-15	7.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125860	Futura	04/13/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.80E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125880	Futura	04/19/10	Gross Alpha/Beta	Gross Alpha	3.76E-15	5.28E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125880	Futura	04/19/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.79E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125881	Futura	04/21/10	Gross Alpha/Beta	Gross Alpha	5.64E-15	7.92E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125881	Futura	04/21/10	Gross Alpha/Beta	Gross Beta	1.97E-14	2.58E-14	3.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125882	Futura	04/20/10	Gross Alpha/Beta	Gross Alpha	1.51E-15	4.20E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125882	Futura	04/20/10	Gross Alpha/Beta	Gross Beta	1.17E-14	1.71E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125883	Futura	04/22/10	Gross Alpha/Beta	Gross Alpha	1.06E-14	8.22E-15	8.92E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125883	Futura	04/22/10	Gross Alpha/Beta	Gross Beta	2.15E-14	1.99E-14	2.94E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127341	Futura	04/28/10	Gross Alpha/Beta	Gross Alpha	2.68E-15	4.86E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127341	Futura	04/28/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.77E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127342	Futura	04/29/10	Gross Alpha/Beta	Gross Alpha	3.03E-15	5.48E-15	9.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127342	Futura	04/29/10	Gross Alpha/Beta	Gross Beta	3.30E-14	2.13E-14	3.00E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127360	Futura	05/03/10	Gross Alpha/Beta	Gross Alpha	6.33E-15	6.37E-15	8.13E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127360	Futura	05/03/10	Gross Alpha/Beta	Gross Beta	7.27E-15	1.95E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127361	Futura	05/04/10	Gross Alpha/Beta	Gross Alpha	-6.84E-16	2.69E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127361	Futura	05/04/10	Gross Alpha/Beta	Gross Beta	5.57E-15	1.88E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127362	Futura	05/05/10	Gross Alpha/Beta	Gross Alpha	3.21E-14	1.25E-14	7.83E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127362	Futura	05/05/10	Gross Alpha/Beta	Gross Beta	2.70E-14	2.03E-14	2.66E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127363	Futura	05/06/10	Gross Alpha/Beta	Gross Alpha	4.51E-16	3.49E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127363	Futura	05/06/10	Gross Alpha/Beta	Gross Beta	-4.87E-15	1.78E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127377	Futura	05/10/10	Gross Alpha/Beta	Gross Alpha	6.25E-16	4.83E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127377	Futura	05/10/10	Gross Alpha/Beta	Gross Beta	-1.29E-14	2.42E-14	3.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127378	Futura	05/12/10	Gross Alpha/Beta	Gross Alpha	5.80E-16	4.49E-15	1.01E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127378	Futura	05/12/10	Gross Alpha/Beta	Gross Beta	8.05E-15	2.41E-14	3.43E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127399	Futura	05/17/10	Gross Alpha/Beta	Gross Alpha	-7.03E-16	3.15E-15	8.13E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127399	Futura	05/17/10	Gross Alpha/Beta	Gross Beta	-2.47E-15	1.68E-14	2.71E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127411	Futura	09/07/10	Gross Alpha/Beta	Gross Alpha	7.11E-15	9.40E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127411	Futura	09/07/10	Gross Alpha/Beta	Gross Beta	1.05E-14	2.54E-14	3.76E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127412	Futura	09/08/10	Gross Alpha/Beta	Gross Alpha	4.02E-15	6.46E-15	9.45E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127412	Futura	09/08/10	Gross Alpha/Beta	Gross Beta	5.34E-15	1.83E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127530	Futura	10/19/10	Gross Alpha/Beta	Gross Alpha	2.81E-15	4.86E-15	8.30E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127530	Futura	10/19/10	Gross Alpha/Beta	Gross Beta	1.69E-14	2.02E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127740	Futura	05/18/10	Gross Alpha/Beta	Gross Alpha	-6.65E-16	2.98E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127740	Futura	05/18/10	Gross Alpha/Beta	Gross Beta	4.95E-15	1.65E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127741	Futura	05/19/10	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.34E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127741	Futura	05/19/10	Gross Alpha/Beta	Gross Beta	1.52E-14	1.74E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127750	Futura	05/17/10	Gross Alpha/Beta	Gross Alpha	-6.77E-16	3.04E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127750	Futura	05/17/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.77E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127751	Futura	05/26/10	Gross Alpha/Beta	Gross Alpha	1.55E-15	4.33E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127751	Futura	05/26/10	Gross Alpha/Beta	Gross Beta	4.23E-15	1.65E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127752	Futura	05/25/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	5.44E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127752	Futura	05/25/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.76E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127753	Futura	05/27/10	Gross Alpha/Beta	Gross Alpha	1.54E-15	4.29E-15	7.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127753	Futura	05/27/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.76E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127785	Futura	06/01/10	Gross Alpha/Beta	Gross Alpha	2.40E-15	4.64E-15	8.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127785	Futura	06/01/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.81E-14	2.59E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127786	Futura	06/02/10	Gross Alpha/Beta	Gross Alpha	2.42E-15	4.68E-15	8.09E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127786	Futura	06/02/10	Gross Alpha/Beta	Gross Beta	-4.04E-15	1.60E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127787	Futura	06/03/10	Gross Alpha/Beta	Gross Alpha	3.57E-15	5.24E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127787	Futura	06/03/10	Gross Alpha/Beta	Gross Beta	2.60E-15	1.67E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127818	Futura	06/07/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	5.80E-15	1.00E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127818	Futura	06/07/10	Gross Alpha/Beta	Gross Beta	1.96E-14	2.19E-14	3.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127819	Futura	06/09/10	Gross Alpha/Beta	Gross Alpha	-1.54E-15	4.33E-15	1.34E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127819	Futura	06/09/10	Gross Alpha/Beta	Gross Beta	2.13E-14	2.88E-14	4.32E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127820	Futura	06/08/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	7.34E-15	1.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127820	Futura	06/08/10	Gross Alpha/Beta	Gross Beta	2.04E-14	3.09E-14	4.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127861	Futura	06/23/10	Gross Alpha/Beta	Gross Alpha	7.31E-15	6.83E-15	8.38E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127861	Futura	06/23/10	Gross Alpha/Beta	Gross Beta	2.50E-14	2.22E-14	2.73E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127862	Futura	06/24/10	Gross Alpha/Beta	Gross Alpha	8.96E-15	7.05E-15	7.78E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127862	Futura	06/24/10	Gross Alpha/Beta	Gross Beta	3.04E-14	2.11E-14	2.53E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127863	Futura	06/28/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	4.31E-15	7.99E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127863	Futura	06/28/10	Gross Alpha/Beta	Gross Beta	-1.92E-15	1.86E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127864	Futura	06/29/10	Gross Alpha/Beta	Gross Alpha	3.19E-16	3.92E-15	8.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127864	Futura	06/29/10	Gross Alpha/Beta	Gross Beta	8.96E-15	2.06E-14	2.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127865	Futura	06/30/10	Gross Alpha/Beta	Gross Alpha	-2.07E-15	1.98E-15	8.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127865	Futura	06/30/10	Gross Alpha/Beta	Gross Beta	-5.19E-15	1.95E-14	2.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127866	Futura	06/30/10	Gross Alpha/Beta	Gross Alpha	8.68E-15	7.44E-15	8.50E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127866	Futura	06/30/10	Gross Alpha/Beta	Gross Beta	1.84E-14	2.13E-14	2.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127867	Futura	07/01/10	Gross Alpha/Beta	Gross Alpha	6.34E-15	7.69E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127867	Futura	07/01/10	Gross Alpha/Beta	Gross Beta	1.11E-14	2.57E-14	3.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127889	Futura	07/08/10	Gross Alpha/Beta	Gross Alpha	-4.08E-15	3.93E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127889	Futura	07/08/10	Gross Alpha/Beta	Gross Beta	-5.03E-15	1.11E-14	1.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129047	Futura	07/07/10	Gross Alpha/Beta	Gross Alpha	9.43E-16	6.54E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129047	Futura	07/07/10	Gross Alpha/Beta	Gross Beta	5.46E-15	1.29E-14	1.98E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129048	Futura	07/06/10	Gross Alpha/Beta	Gross Alpha	2.94E-15	9.28E-15	1.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129048	Futura	07/06/10	Gross Alpha/Beta	Gross Beta	2.02E-14	1.85E-14	2.62E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129074	Futura	07/12/10	Gross Alpha/Beta	Gross Alpha	2.35E-15	7.40E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129074	Futura	07/12/10	Gross Alpha/Beta	Gross Beta	4.02E-15	1.33E-14	2.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129075	Futura	07/13/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	6.86E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129075	Futura	07/13/10	Gross Alpha/Beta	Gross Beta	6.50E-15	1.20E-14	1.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129076	Futura	07/14/10	Gross Alpha/Beta	Gross Alpha	6.77E-15	8.00E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129076	Futura	07/14/10	Gross Alpha/Beta	Gross Beta	1.55E-14	1.31E-14	1.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129077	Futura	07/15/10	Gross Alpha/Beta	Gross Alpha	2.63E-14	1.27E-14	1.17E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129077	Futura	07/15/10	Gross Alpha/Beta	Gross Beta	3.99E-14	1.59E-14	1.87E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129078	Futura	07/21/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	7.41E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129078	Futura	07/21/10	Gross Alpha/Beta	Gross Beta	5.87E-15	1.24E-14	1.89E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129079	Futura	07/19/10	Gross Alpha/Beta	Gross Alpha	4.85E-15	1.01E-14	1.40E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129079	Futura	07/19/10	Gross Alpha/Beta	Gross Beta	2.27E-14	1.71E-14	2.34E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129080	Futura	07/22/10	Gross Alpha/Beta	Gross Alpha	-9.60E-16	6.43E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129080	Futura	07/22/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.38E-14	1.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129098	Futura	07/26/10	Gross Alpha/Beta	Gross Alpha	3.13E-15	7.19E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129098	Futura	07/26/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.48E-14	1.92E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129099	Futura	07/27/10	Gross Alpha/Beta	Gross Alpha	4.44E-15	1.58E-14	2.83E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129099	Futura	07/27/10	Gross Alpha/Beta	Gross Beta	3.14E-14	3.21E-14	4.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129100	Futura	07/28/10	Gross Alpha/Beta	Gross Alpha	6.53E-16	6.22E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129100	Futura	07/28/10	Gross Alpha/Beta	Gross Beta	8.60E-15	1.30E-14	1.90E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129126	Futura	07/29/10	Gross Alpha/Beta	Gross Alpha	3.35E-15	5.25E-15	8.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129126	Futura	07/29/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.85E-14	2.57E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129127	Futura	08/02/10	Gross Alpha/Beta	Gross Alpha	9.81E-15	7.95E-15	9.20E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129127	Futura	08/02/10	Gross Alpha/Beta	Gross Beta	3.24E-14	2.11E-14	2.80E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129128	Futura	08/04/10	Gross Alpha/Beta	Gross Alpha	4.11E-15	6.44E-15	1.04E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129128	Futura	08/04/10	Gross Alpha/Beta	Gross Beta	4.56E-14	2.44E-14	3.15E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129129	Futura	08/05/10	Gross Alpha/Beta	Gross Alpha	4.69E-15	5.99E-15	8.85E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129129	Futura	08/05/10	Gross Alpha/Beta	Gross Beta	3.51E-14	2.06E-14	2.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129130	Futura	08/06/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	8.15E-15	8.31E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129130	Futura	08/06/10	Gross Alpha/Beta	Gross Beta	2.64E-14	1.88E-14	2.53E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129131	Futura	08/07/10	Gross Alpha/Beta	Gross Alpha	5.71E-15	6.26E-15	8.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129131	Futura	08/07/10	Gross Alpha/Beta	Gross Beta	2.65E-14	1.94E-14	2.62E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129132	Futura	08/08/10	Gross Alpha/Beta	Gross Alpha	7.85E-14	4.00E-14	3.13E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129132	Futura	08/08/10	Gross Alpha/Beta	Gross Beta	8.94E-14	7.68E-14	1.03E-13	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129133	Futura	08/08/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.51E-15	8.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129133	Futura	08/08/10	Gross Alpha/Beta	Gross Beta	3.70E-14	2.09E-14	2.72E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129134	Futura	08/09/10	Gross Alpha/Beta	Gross Alpha	1.63E-14	1.10E-14	1.24E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129134	Futura	08/09/10	Gross Alpha/Beta	Gross Beta	4.98E-14	1.72E-14	1.98E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129135	Futura	08/10/10	Gross Alpha/Beta	Gross Alpha	9.43E-16	7.06E-15	1.37E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129135	Futura	08/10/10	Gross Alpha/Beta	Gross Beta	3.50E-14	1.69E-14	2.17E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129136	Futura	08/11/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.97E-15	1.08E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129136	Futura	08/11/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.36E-14	1.71E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129137	Futura	08/15/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	6.79E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129137	Futura	08/15/10	Gross Alpha/Beta	Gross Beta	3.61E-14	1.49E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129138	Futura	08/14/10	Gross Alpha/Beta	Gross Alpha	4.57E-15	7.58E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129138	Futura	08/14/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.29E-14	1.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129139	Futura	08/12/10	Gross Alpha/Beta	Gross Alpha	3.46E-15	7.45E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129139	Futura	08/12/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.36E-14	2.00E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129170	Futura	08/16/10	Gross Alpha/Beta	Gross Alpha	7.08E-15	6.78E-15	8.49E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129170	Futura	08/16/10	Gross Alpha/Beta	Gross Beta	2.07E-14	1.85E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129171	Futura	08/17/10	Gross Alpha/Beta	Gross Alpha	5.86E-15	6.31E-15	8.41E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129171	Futura	08/17/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.86E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129172	Futura	08/18/10	Gross Alpha/Beta	Gross Alpha	3.60E-15	5.46E-15	8.49E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129172	Futura	08/18/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.95E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129173	Futura	08/21/10	Gross Alpha/Beta	Gross Alpha	7.44E-15	7.12E-15	8.92E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129173	Futura	08/21/10	Gross Alpha/Beta	Gross Beta	-4.73E-15	1.71E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129174	Futura	08/20/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	8.80E-15	1.71E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129174	Futura	08/20/10	Gross Alpha/Beta	Gross Beta	3.24E-15	3.41E-14	5.33E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129175	Futura	08/19/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.81E-15	8.41E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129175	Futura	08/19/10	Gross Alpha/Beta	Gross Beta	4.01E-14	1.99E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129203	Futura	08/23/10	Gross Alpha/Beta	Gross Alpha	5.10E-15	6.74E-15	9.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129203	Futura	08/23/10	Gross Alpha/Beta	Gross Beta	2.26E-14	1.94E-14	2.70E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129204	Futura	08/24/10	Gross Alpha/Beta	Gross Alpha	2.91E-15	6.13E-15	9.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129204	Futura	08/24/10	Gross Alpha/Beta	Gross Beta	3.06E-14	2.07E-14	2.80E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129205	Futura	08/25/10	Gross Alpha/Beta	Gross Alpha	1.62E-15	5.33E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129205	Futura	08/25/10	Gross Alpha/Beta	Gross Beta	1.55E-14	1.85E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129206	Futura	08/26/10	Gross Alpha/Beta	Gross Alpha	5.93E-16	5.86E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129206	Futura	08/26/10	Gross Alpha/Beta	Gross Beta	2.52E-14	2.30E-14	3.21E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129226	Futura	08/30/10	Gross Alpha/Beta	Gross Alpha	1.63E-15	5.38E-15	9.19E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129226	Futura	08/30/10	Gross Alpha/Beta	Gross Beta	4.44E-15	1.78E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129227	Futura	08/31/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	5.28E-15	9.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129227	Futura	08/31/10	Gross Alpha/Beta	Gross Beta	1.10E-14	1.80E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129228	Futura	09/03/10	Gross Alpha/Beta	Gross Alpha	6.37E-15	7.26E-15	9.45E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129228	Futura	09/03/10	Gross Alpha/Beta	Gross Beta	1.69E-14	1.93E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131523	Futura	10/26/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.09E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131523	Futura	10/26/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.66E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131524	Futura	10/27/10	Gross Alpha/Beta	Gross Alpha	1.57E-16	3.85E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131524	Futura	10/27/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.68E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131541	Futura	11/03/10	Gross Alpha/Beta	Gross Alpha	3.83E-15	6.96E-15	1.04E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131541	Futura	11/03/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.37E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131542	Futura	11/02/10	Gross Alpha/Beta	Gross Alpha	1.20E-14	9.88E-15	1.11E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131542	Futura	11/02/10	Gross Alpha/Beta	Gross Beta	2.56E-14	1.45E-14	1.99E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131543	Futura	11/01/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.24E-15	1.08E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131543	Futura	11/01/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.31E-14	1.93E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131544	Futura	11/04/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	9.06E-15	1.02E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131544	Futura	11/04/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.23E-14	1.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131563	Futura	11/10/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	6.16E-15	9.82E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131563	Futura	11/10/10	Gross Alpha/Beta	Gross Beta	3.25E-14	1.39E-14	1.76E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131564	Futura	11/09/10	Gross Alpha/Beta	Gross Alpha	1.35E-14	9.68E-15	1.02E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131564	Futura	11/09/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.38E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131565	Futura	11/11/10	Gross Alpha/Beta	Gross Alpha	1.41E-14	1.37E-14	1.67E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131565	Futura	11/11/10	Gross Alpha/Beta	Gross Beta	3.96E-14	2.19E-14	2.98E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131589	Futura	11/18/10	Gross Alpha/Beta	Gross Alpha	5.35E-15	7.84E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131589	Futura	11/18/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.37E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132650	Futura	11/23/10	Gross Alpha/Beta	Gross Alpha	9.20E-15	9.02E-15	1.19E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132650	Futura	11/23/10	Gross Alpha/Beta	Gross Beta	3.84E-14	1.53E-14	1.84E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132651	Futura	11/22/10	Gross Alpha/Beta	Gross Alpha	2.12E-16	5.87E-15	1.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132651	Futura	11/22/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.35E-14	1.82E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132672	Futura	12/01/10	Gross Alpha/Beta	Gross Alpha	1.76E-15	1.13E-14	1.85E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132672	Futura	12/01/10	Gross Alpha/Beta	Gross Beta	7.93E-15	1.93E-14	2.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132673	Futura	12/02/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	8.52E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132673	Futura	12/02/10	Gross Alpha/Beta	Gross Beta	3.98E-14	1.56E-14	1.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132687	Futura	12/06/10	Gross Alpha/Beta	Gross Alpha	8.60E-15	9.49E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132687	Futura	12/06/10	Gross Alpha/Beta	Gross Beta	3.96E-14	1.55E-14	1.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132688	Futura	12/07/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	9.95E-15	1.18E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132688	Futura	12/07/10	Gross Alpha/Beta	Gross Beta	6.84E-14	1.79E-14	1.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132689	Futura	12/08/10	Gross Alpha/Beta	Gross Alpha	9.58E-15	9.54E-15	1.17E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132689	Futura	12/08/10	Gross Alpha/Beta	Gross Beta	3.77E-14	1.50E-14	1.76E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132695	Futura	12/15/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	7.93E-15	8.01E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132695	Futura	12/15/10	Gross Alpha/Beta	Gross Beta	1.85E-14	1.64E-14	2.38E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132716	Futura	12/23/10	Gross Alpha/Beta	Gross Alpha	2.16E-15	6.50E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132716	Futura	12/23/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.38E-14	1.93E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132717	Futura	12/20/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	9.01E-15	1.10E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132717	Futura	12/20/10	Gross Alpha/Beta	Gross Beta	3.52E-14	1.49E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP132718	Futura	12/21/10	Gross Alpha/Beta	Gross Alpha	5.78E-15	7.50E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132718	Futura	12/21/10	Gross Alpha/Beta	Gross Beta	3.44E-14	1.49E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132719	Futura	12/22/10	Gross Alpha/Beta	Gross Alpha	7.27E-16	5.16E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132719	Futura	12/22/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.24E-14	1.68E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132723	Futura	12/29/10	Gross Alpha/Beta	Gross Alpha	8.04E-15	8.06E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132723	Futura	12/29/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.24E-14	1.77E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132724	Futura	12/28/10	Gross Alpha/Beta	Gross Alpha	4.76E-15	7.43E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132724	Futura	12/28/10	Gross Alpha/Beta	Gross Beta	9.45E-15	1.26E-14	1.91E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
HIS122883	HAP-001	01/04/10	Gross Alpha/Beta	Gross Alpha	9.60E-16	4.73E-16	3.81E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122883	HAP-001	01/04/10	Gross Alpha/Beta	Gross Beta	2.23E-14	2.37E-15	1.10E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122888	HAP-001	01/11/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	1.72E-15	2.78E-15	uCi/mL	UJ	T06	HISS Air (Particulate Air)-Environmental Monitoring
HIS122888	HAP-001	01/11/10	Gross Alpha/Beta	Gross Beta	6.19E-15	5.86E-15	8.03E-15	uCi/mL	U	T04, T05	HISS Air (Particulate Air)-Environmental Monitoring
HIS122893	HAP-001	01/20/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	6.84E-16	4.09E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122893	HAP-001	01/20/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.67E-15	1.20E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122898	HAP-001	01/26/10	Gross Alpha/Beta	Gross Alpha	1.10E-15	5.91E-16	5.18E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122898	HAP-001	01/26/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.92E-15	1.52E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122903	HAP-001	02/01/10	Gross Alpha/Beta	Gross Alpha	1.64E-15	6.89E-16	4.94E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122903	HAP-001	02/01/10	Gross Alpha/Beta	Gross Beta	2.31E-14	2.23E-15	1.45E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122908	HAP-001	02/08/10	Gross Alpha/Beta	Gross Alpha	1.52E-15	6.83E-16	5.19E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122908	HAP-001	02/08/10	Gross Alpha/Beta	Gross Beta	2.87E-14	2.52E-15	1.52E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122913	HAP-001	02/16/10	Gross Alpha/Beta	Gross Alpha	6.20E-16	3.95E-16	3.91E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122913	HAP-001	02/16/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.60E-15	1.15E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122918	HAP-001	02/23/10	Gross Alpha/Beta	Gross Alpha	1.31E-15	6.41E-16	5.20E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122918	HAP-001	02/23/10	Gross Alpha/Beta	Gross Beta	1.90E-14	2.13E-15	1.53E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122923	HAP-001	03/01/10	Gross Alpha/Beta	Gross Alpha	1.87E-15	7.26E-16	4.86E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122923	HAP-001	03/01/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.75E-15	1.43E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122928	HAP-001	03/08/10	Gross Alpha/Beta	Gross Alpha	8.64E-16	5.03E-16	4.66E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122928	HAP-001	03/08/10	Gross Alpha/Beta	Gross Beta	1.29E-14	1.72E-15	1.37E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122933	HAP-001	03/16/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.22E-16	3.89E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122933	HAP-001	03/16/10	Gross Alpha/Beta	Gross Beta	1.01E-14	1.40E-15	1.14E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122939	HAP-001	03/23/10	Gross Alpha/Beta	Gross Alpha	6.18E-16	4.38E-16	4.67E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122939	HAP-001	03/23/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.83E-15	1.37E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122944	HAP-001	03/29/10	Gross Alpha/Beta	Gross Alpha	1.72E-15	7.20E-16	4.69E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122944	HAP-001	03/29/10	Gross Alpha/Beta	Gross Beta	1.77E-14	2.09E-15	1.60E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122949	HAP-001	04/06/10	Gross Alpha/Beta	Gross Alpha	1.63E-15	6.09E-16	3.58E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122949	HAP-001	04/06/10	Gross Alpha/Beta	Gross Beta	1.74E-14	1.76E-15	1.22E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122954	HAP-001	04/13/10	Gross Alpha/Beta	Gross Alpha	1.30E-15	5.73E-16	3.88E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122954	HAP-001	04/13/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.80E-15	1.32E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122959	HAP-001	04/19/10	Gross Alpha/Beta	Gross Alpha	2.73E-15	9.14E-16	4.87E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122959	HAP-001	04/19/10	Gross Alpha/Beta	Gross Beta	1.99E-14	2.23E-15	1.66E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122964	HAP-001	04/26/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	8.04E-16	4.38E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122964	HAP-001	04/26/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.87E-15	1.44E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122969	HAP-001	05/03/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	7.27E-16	3.78E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122969	HAP-001	05/03/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.65E-15	1.25E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122974	HAP-001	05/10/10	Gross Alpha/Beta	Gross Alpha	1.25E-15	5.84E-16	4.32E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122974	HAP-001	05/10/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.75E-15	1.42E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122979	HAP-001	05/17/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	7.54E-16	4.27E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122979	HAP-001	05/17/10	Gross Alpha/Beta	Gross Beta	1.20E-14	1.72E-15	1.45E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122984	HAP-001	05/24/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	5.57E-16	3.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122984	HAP-001	05/24/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.54E-15	1.33E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122989	HAP-001	06/01/10	Gross Alpha/Beta	Gross Alpha	1.25E-15	5.37E-16	3.69E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122989	HAP-001	06/01/10	Gross Alpha/Beta	Gross Beta	1.69E-14	1.77E-15	1.26E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122994	HAP-001	06/07/10	Gross Alpha/Beta	Gross Alpha	1.66E-15	7.04E-16	4.71E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122994	HAP-001	06/07/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.95E-15	1.57E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122999	HAP-001	06/14/10	Gross Alpha/Beta	Gross Alpha	1.58E-15	6.30E-16	4.20E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122999	HAP-001	06/14/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.69E-15	1.36E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123004	HAP-001	06/21/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	6.04E-16	4.14E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123004	HAP-001	06/21/10	Gross Alpha/Beta	Gross Beta	1.05E-14	1.52E-15	1.33E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123009	HAP-001	06/28/10	Gross Alpha/Beta	Gross Alpha	5.05E-15	1.13E-15	4.60E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123009	HAP-001	06/28/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.84E-15	1.43E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123014	HAP-001	07/06/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	7.36E-16	5.29E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123014	HAP-001	07/06/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.59E-15	8.86E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123019	HAP-001	07/12/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	1.02E-15	7.26E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123019	HAP-001	07/12/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.83E-15	1.16E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123025	HAP-001	07/19/10	Gross Alpha/Beta	Gross Alpha	3.33E-15	1.00E-15	6.44E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123025	HAP-001	07/19/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.81E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123026	HAP-001	07/26/10	Gross Alpha/Beta	Gross Alpha	1.82E-15	6.78E-16	3.99E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123026	HAP-001	07/26/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.66E-15	1.39E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123031	HAP-001	08/02/10	Gross Alpha/Beta	Gross Alpha	2.89E-15	8.67E-16	4.38E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123031	HAP-001	08/02/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.92E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123036	HAP-001	08/09/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	1.23E-15	5.27E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123036	HAP-001	08/09/10	Gross Alpha/Beta	Gross Beta	2.59E-14	2.49E-15	1.69E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123041	HAP-001	08/16/10	Gross Alpha/Beta	Gross Alpha	2.65E-15	8.15E-16	4.14E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123041	HAP-001	08/16/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.91E-15	1.36E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123046	HAP-001	08/23/10	Gross Alpha/Beta	Gross Alpha	3.60E-15	9.98E-16	6.03E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123046	HAP-001	08/23/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.98E-15	9.59E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123051	HAP-001	08/30/10	Gross Alpha/Beta	Gross Alpha	3.57E-15	1.01E-15	5.77E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123051	HAP-001	08/30/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.89E-15	9.79E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123060	HAP-001	09/07/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	9.08E-16	6.85E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123060	HAP-001	09/07/10	Gross Alpha/Beta	Gross Beta	1.94E-14	2.00E-15	1.09E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123061	HAP-001	09/13/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	7.15E-16	7.32E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123061	HAP-001	09/13/10	Gross Alpha/Beta	Gross Beta	1.90E-14	2.04E-15	1.16E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123069	HAP-001	09/20/10	Gross Alpha/Beta	Gross Alpha	1.98E-15	7.80E-16	6.25E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123069	HAP-001	09/20/10	Gross Alpha/Beta	Gross Beta	2.47E-14	2.11E-15	9.93E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123072	HAP-001	09/27/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	1.04E-15	4.47E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123072	HAP-001	09/27/10	Gross Alpha/Beta	Gross Beta	2.13E-14	2.07E-15	1.40E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123077	HAP-001	10/04/10	Gross Alpha/Beta	Gross Alpha	2.98E-15	8.72E-16	4.30E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123077	HAP-001	10/04/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.77E-15	1.35E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123082	HAP-001	10/11/10	Gross Alpha/Beta	Gross Alpha	4.13E-15	1.13E-15	6.56E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123082	HAP-001	10/11/10	Gross Alpha/Beta	Gross Beta	2.64E-14	2.25E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123087	HAP-001	10/18/10	Gross Alpha/Beta	Gross Alpha	7.56E-15	1.38E-15	4.13E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123087	HAP-001	10/18/10	Gross Alpha/Beta	Gross Beta	2.80E-14	2.33E-15	1.37E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123092	HAP-001	10/25/10	Gross Alpha/Beta	Gross Alpha	3.98E-15	1.06E-15	5.64E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123092	HAP-001	10/25/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.95E-15	9.04E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123099	HAP-001	11/01/10	Gross Alpha/Beta	Gross Alpha	2.49E-15	8.56E-16	5.75E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123099	HAP-001	11/01/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.73E-15	9.62E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123101	HAP-001	11/08/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	9.65E-16	5.61E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123101	HAP-001	11/08/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.73E-15	1.00E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123107	HAP-001	11/15/10	Gross Alpha/Beta	Gross Alpha	4.12E-15	1.13E-15	7.19E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123107	HAP-001	11/15/10	Gross Alpha/Beta	Gross Beta	2.34E-14	2.10E-15	1.01E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123112	HAP-001	11/22/10	Gross Alpha/Beta	Gross Alpha	3.39E-15	1.00E-15	6.16E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123112	HAP-001	11/22/10	Gross Alpha/Beta	Gross Beta	2.43E-14	2.11E-15	9.72E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123117	HAP-001	11/29/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	9.57E-16	4.20E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123117	HAP-001	11/29/10	Gross Alpha/Beta	Gross Beta	2.74E-14	2.33E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123122	HAP-001	12/06/10	Gross Alpha/Beta	Gross Alpha	2.89E-15	8.51E-16	4.06E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123122	HAP-001	12/06/10	Gross Alpha/Beta	Gross Beta	2.49E-14	2.19E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123126	HAP-001	12/13/10	Gross Alpha/Beta	Gross Alpha	3.60E-15	1.05E-15	6.33E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123126	HAP-001	12/13/10	Gross Alpha/Beta	Gross Beta	3.20E-14	2.38E-15	9.79E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123131	HAP-001	12/20/10	Gross Alpha/Beta	Gross Alpha	1.96E-15	7.38E-16	4.88E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123131	HAP-001	12/20/10	Gross Alpha/Beta	Gross Beta	2.26E-14	2.15E-15	1.45E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123136	HAP-001	12/27/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	8.28E-16	6.09E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123136	HAP-001	12/27/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.84E-15	1.01E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122884	HAP-002	01/04/10	Gross Alpha/Beta	Gross Alpha	9.47E-16	5.32E-16	4.76E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122884	HAP-002	01/04/10	Gross Alpha/Beta	Gross Beta	2.77E-14	2.96E-15	1.38E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122889	HAP-002	01/11/10	Gross Alpha/Beta	Gross Alpha	1.90E-15	7.21E-16	4.62E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122889	HAP-002	01/11/10	Gross Alpha/Beta	Gross Beta	2.49E-14	2.73E-15	1.33E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122894	HAP-002	01/20/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	6.46E-16	3.20E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122894	HAP-002	01/20/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.44E-15	9.39E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122899	HAP-002	01/26/10	Gross Alpha/Beta	Gross Alpha	1.52E-15	7.22E-16	5.72E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122899	HAP-002	01/26/10	Gross Alpha/Beta	Gross Beta	1.60E-14	2.12E-15	1.68E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122904	HAP-002	02/01/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	7.97E-16	5.18E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122904	HAP-002	02/01/10	Gross Alpha/Beta	Gross Beta	2.39E-14	2.33E-15	1.52E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122909	HAP-002	02/08/10	Gross Alpha/Beta	Gross Alpha	1.00E-15	5.20E-16	4.44E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122909	HAP-002	02/08/10	Gross Alpha/Beta	Gross Beta	2.47E-14	2.16E-15	1.30E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122914	HAP-002	02/16/10	Gross Alpha/Beta	Gross Alpha	7.48E-16	4.35E-16	4.04E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122914	HAP-002	02/16/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.80E-15	1.19E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122919	HAP-002	02/23/10	Gross Alpha/Beta	Gross Alpha	1.92E-15	6.83E-16	4.25E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122919	HAP-002	02/23/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.83E-15	1.25E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122924	HAP-002	03/01/10	Gross Alpha/Beta	Gross Alpha	1.55E-15	6.99E-16	5.31E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122924	HAP-002	03/01/10	Gross Alpha/Beta	Gross Beta	2.07E-14	2.23E-15	1.56E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122929	HAP-002	03/08/10	Gross Alpha/Beta	Gross Alpha	1.65E-15	6.52E-16	4.44E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122929	HAP-002	03/08/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.85E-15	1.30E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122934	HAP-002	03/16/10	Gross Alpha/Beta	Gross Alpha	8.99E-16	4.68E-16	3.99E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122934	HAP-002	03/16/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.51E-15	1.17E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122940	HAP-002	03/23/10	Gross Alpha/Beta	Gross Alpha	1.24E-15	5.89E-16	4.67E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122940	HAP-002	03/23/10	Gross Alpha/Beta	Gross Beta	1.51E-14	1.82E-15	1.37E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122945	HAP-002	03/29/10	Gross Alpha/Beta	Gross Alpha	1.23E-15	6.20E-16	4.70E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS122945	HAP-002	03/29/10	Gross Alpha/Beta	Gross Beta	1.57E-14	2.00E-15	1.60E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122950	HAP-002	04/03/10	Gross Alpha/Beta	Gross Alpha	2.95E-15	9.87E-16	5.26E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122950	HAP-002	04/03/10	Gross Alpha/Beta	Gross Beta	1.95E-14	2.33E-15	1.79E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122955	HAP-002	04/13/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	1.54E-15	1.46E-15	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS122955	HAP-002	04/13/10	Gross Alpha/Beta	Gross Beta	1.12E-14	4.10E-15	4.97E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122960	HAP-002	04/19/10	Gross Alpha/Beta	Gross Alpha	2.47E-15	8.65E-16	4.80E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122960	HAP-002	04/19/10	Gross Alpha/Beta	Gross Beta	1.88E-14	2.17E-15	1.63E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122965	HAP-002	04/26/10	Gross Alpha/Beta	Gross Alpha	2.09E-15	7.35E-16	4.27E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122965	HAP-002	04/26/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.61E-15	1.41E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122970	HAP-002	05/03/10	Gross Alpha/Beta	Gross Alpha	1.49E-15	6.15E-16	4.12E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122970	HAP-002	05/03/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.74E-15	1.36E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122975	HAP-002	05/10/10	Gross Alpha/Beta	Gross Alpha	1.15E-15	5.50E-16	4.17E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122975	HAP-002	05/10/10	Gross Alpha/Beta	Gross Beta	1.43E-14	1.72E-15	1.37E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122980	HAP-002	05/17/10	Gross Alpha/Beta	Gross Alpha	1.30E-15	6.05E-16	4.43E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122980	HAP-002	05/17/10	Gross Alpha/Beta	Gross Beta	1.08E-14	1.70E-15	1.51E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122985	HAP-002	05/24/10	Gross Alpha/Beta	Gross Alpha	1.08E-15	5.31E-16	4.07E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122985	HAP-002	05/24/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.70E-15	1.39E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122990	HAP-002	06/01/10	Gross Alpha/Beta	Gross Alpha	1.61E-15	6.16E-16	3.81E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122990	HAP-002	06/01/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.82E-15	1.30E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122995	HAP-002	06/01/10	Gross Alpha/Beta	Gross Alpha	5.79E-15	1.06E-14	1.67E-14	uCi/mL	UJ	T06	HISS (General Area)-Perimeter Air
HIS122995	HAP-002	06/01/10	Gross Alpha/Beta	Gross Beta	6.63E-14	4.06E-14	5.58E-14	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123000	HAP-002	06/14/10	Gross Alpha/Beta	Gross Alpha	2.03E-15	7.18E-16	4.30E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123000	HAP-002	06/14/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.69E-15	1.39E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123005	HAP-002	06/21/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	5.17E-16	4.03E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123005	HAP-002	06/21/10	Gross Alpha/Beta	Gross Beta	7.47E-15	1.33E-15	1.30E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123012	HAP-002	06/28/10	Gross Alpha/Beta	Gross Alpha	3.88E-15	1.02E-15	4.81E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123012	HAP-002	06/28/10	Gross Alpha/Beta	Gross Beta	1.66E-14	1.92E-15	1.49E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123015	HAP-002	07/06/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	7.80E-16	5.36E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123015	HAP-002	07/06/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.53E-15	8.97E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123018	HAP-002	07/12/10	Gross Alpha/Beta	Gross Alpha	3.12E-15	1.06E-15	7.55E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123018	HAP-002	07/12/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.94E-15	1.21E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123021	HAP-002	07/19/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	9.12E-16	5.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123021	HAP-002	07/19/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.77E-15	9.48E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123027	HAP-002	07/26/10	Gross Alpha/Beta	Gross Alpha	3.04E-15	8.63E-16	3.95E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123027	HAP-002	07/26/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.68E-15	1.37E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123032	HAP-002	08/02/10	Gross Alpha/Beta	Gross Alpha	6.72E-16	2.82E-16	1.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123032	HAP-002	08/02/10	Gross Alpha/Beta	Gross Beta	4.33E-15	6.69E-16	6.09E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123037	HAP-002	08/09/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	1.08E-15	5.89E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123037	HAP-002	08/09/10	Gross Alpha/Beta	Gross Beta	2.47E-14	2.61E-15	1.88E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123042	HAP-002	08/16/10	Gross Alpha/Beta	Gross Alpha	2.81E-15	8.55E-16	4.30E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123042	HAP-002	08/16/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.98E-15	1.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123047	HAP-002	08/23/10	Gross Alpha/Beta	Gross Alpha	4.07E-15	1.07E-15	6.18E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123047	HAP-002	08/23/10	Gross Alpha/Beta	Gross Beta	2.52E-14	2.12E-15	9.83E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123052	HAP-002	08/30/10	Gross Alpha/Beta	Gross Alpha	2.44E-15	8.21E-16	5.45E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123052	HAP-002	08/30/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.82E-15	9.24E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123059	HAP-002	09/07/10	Gross Alpha/Beta	Gross Alpha	2.25E-15	7.82E-16	5.63E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123059	HAP-002	09/07/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.54E-15	8.98E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123062	HAP-002	09/13/10	Gross Alpha/Beta	Gross Alpha	1.81E-15	8.31E-16	7.41E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123062	HAP-002	09/13/10	Gross Alpha/Beta	Gross Beta	1.89E-14	2.05E-15	1.18E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123070	HAP-002	09/20/10	Gross Alpha/Beta	Gross Alpha	1.35E-15	6.51E-16	6.02E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123070	HAP-002	09/20/10	Gross Alpha/Beta	Gross Beta	2.54E-14	2.10E-15	9.57E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123073	HAP-002	09/27/10	Gross Alpha/Beta	Gross Alpha	3.34E-15	9.21E-16	4.30E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123073	HAP-002	09/27/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.99E-15	1.35E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123078	HAP-002	10/04/10	Gross Alpha/Beta	Gross Alpha	7.60E-17	2.29E-16	4.24E-16	uCi/mL	UJ	T06	HISS Air (Particulate Air)-Environmental Monitoring
HIS123078	HAP-002	10/04/10	Gross Alpha/Beta	Gross Beta	8.75E-16	8.89E-16	1.33E-15	uCi/mL	UJ	T06	HISS Air (Particulate Air)-Environmental Monitoring
HIS123083	HAP-002	10/11/10	Gross Alpha/Beta	Gross Alpha	4.94E-15	1.22E-15	6.56E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123083	HAP-002	10/11/10	Gross Alpha/Beta	Gross Beta	3.23E-14	2.47E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123088	HAP-002	10/18/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	1.39E-15	4.02E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123088	HAP-002	10/18/10	Gross Alpha/Beta	Gross Beta	3.05E-14	2.38E-15	1.34E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123093	HAP-002	10/25/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	9.52E-16	5.67E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123093	HAP-002	10/25/10	Gross Alpha/Beta	Gross Beta	2.52E-14	2.09E-15	9.09E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123098	HAP-002	11/01/10	Gross Alpha/Beta	Gross Alpha	2.65E-15	8.75E-16	5.68E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123098	HAP-002	11/01/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.67E-15	9.50E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123102	HAP-002	11/08/10	Gross Alpha/Beta	Gross Alpha	4.42E-15	1.12E-15	5.54E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123102	HAP-002	11/08/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.72E-15	9.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123108	HAP-002	11/15/10	Gross Alpha/Beta	Gross Alpha	3.78E-15	1.08E-15	7.19E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123108	HAP-002	11/15/10	Gross Alpha/Beta	Gross Beta	2.22E-14	2.05E-15	1.01E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123113	HAP-002	11/22/10	Gross Alpha/Beta	Gross Alpha	5.20E-15	1.18E-15	5.71E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123113	HAP-002	11/22/10	Gross Alpha/Beta	Gross Beta	3.00E-14	2.24E-15	9.00E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123118	HAP-002	11/29/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	1.11E-15	4.22E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123118	HAP-002	11/29/10	Gross Alpha/Beta	Gross Beta	2.66E-14	2.31E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123123	HAP-002	12/06/10	Gross Alpha/Beta	Gross Alpha	3.18E-15	8.88E-16	4.04E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123123	HAP-002	12/06/10	Gross Alpha/Beta	Gross Beta	2.52E-14	2.20E-15	1.34E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123127	HAP-002	12/12/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	1.19E-15	7.36E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123127	HAP-002	12/12/10	Gross Alpha/Beta	Gross Beta	3.40E-14	2.65E-15	1.14E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123132	HAP-002	12/20/10	Gross Alpha/Beta	Gross Alpha	1.95E-15	7.74E-16	5.37E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123132	HAP-002	12/20/10	Gross Alpha/Beta	Gross Beta	3.13E-14	2.62E-15	1.59E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123137	HAP-002	12/27/10	Gross Alpha/Beta	Gross Alpha	1.30E-15	6.93E-16	6.52E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123137	HAP-002	12/27/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.97E-15	1.08E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122885	HAP-003	01/04/10	Gross Alpha/Beta	Gross Alpha	1.16E-15	5.40E-16	4.16E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122885	HAP-003	01/04/10	Gross Alpha/Beta	Gross Beta	2.61E-14	2.71E-15	1.20E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122890	HAP-003	01/11/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	7.64E-16	4.55E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122890	HAP-003	01/11/10	Gross Alpha/Beta	Gross Beta	2.31E-14	2.59E-15	1.31E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122895	HAP-003	01/20/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	7.71E-16	4.15E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122895	HAP-003	01/20/10	Gross Alpha/Beta	Gross Beta	2.85E-14	2.21E-15	1.22E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122900	HAP-003	01/26/10	Gross Alpha/Beta	Gross Alpha	1.37E-15	6.34E-16	4.92E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122900	HAP-003	01/26/10	Gross Alpha/Beta	Gross Beta	1.65E-14	1.95E-15	1.45E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122905	HAP-003	02/01/10	Gross Alpha/Beta	Gross Alpha	1.97E-15	7.80E-16	5.31E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122905	HAP-003	02/01/10	Gross Alpha/Beta	Gross Beta	2.11E-14	2.25E-15	1.56E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122910	HAP-003	02/08/10	Gross Alpha/Beta	Gross Alpha	9.76E-16	5.08E-16	4.33E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122910	HAP-003	02/08/10	Gross Alpha/Beta	Gross Beta	2.55E-14	2.16E-15	1.27E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122915	HAP-003	02/16/10	Gross Alpha/Beta	Gross Alpha	5.55E-16	3.94E-16	4.20E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122915	HAP-003	02/16/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.80E-15	1.23E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122920	HAP-003	02/23/10	Gross Alpha/Beta	Gross Alpha	1.84E-15	7.43E-16	5.15E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122920	HAP-003	02/23/10	Gross Alpha/Beta	Gross Beta	1.88E-14	2.10E-15	1.51E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122925	HAP-003	03/01/10	Gross Alpha/Beta	Gross Alpha	2.15E-15	8.04E-16	5.22E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122925	HAP-003	03/01/10	Gross Alpha/Beta	Gross Beta	2.63E-14	2.43E-15	1.53E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122930	HAP-003	03/08/10	Gross Alpha/Beta	Gross Alpha	1.37E-15	6.03E-16	4.49E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122930	HAP-003	03/08/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.96E-15	1.32E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122935	HAP-003	03/16/10	Gross Alpha/Beta	Gross Alpha	6.51E-16	4.14E-16	4.10E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122935	HAP-003	03/16/10	Gross Alpha/Beta	Gross Beta	8.06E-15	1.34E-15	1.20E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122941	HAP-003	03/23/10	Gross Alpha/Beta	Gross Alpha	1.28E-15	5.78E-16	4.39E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122941	HAP-003	03/23/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.73E-15	1.29E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122946	HAP-003	03/29/10	Gross Alpha/Beta	Gross Alpha	1.72E-15	7.36E-16	4.88E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122946	HAP-003	03/29/10	Gross Alpha/Beta	Gross Beta	1.47E-14	2.00E-15	1.66E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122951	HAP-003	04/06/10	Gross Alpha/Beta	Gross Alpha	1.53E-15	5.83E-16	3.48E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122951	HAP-003	04/06/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.67E-15	1.19E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122956	HAP-003	04/13/10	Gross Alpha/Beta	Gross Alpha	2.02E-15	7.40E-16	4.28E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122956	HAP-003	04/13/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.98E-15	1.46E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122961	HAP-003	04/19/10	Gross Alpha/Beta	Gross Alpha	3.72E-15	1.05E-15	4.74E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122961	HAP-003	04/19/10	Gross Alpha/Beta	Gross Beta	1.93E-14	2.17E-15	1.61E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122966	HAP-003	04/26/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	8.83E-16	4.49E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122966	HAP-003	04/26/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.83E-15	1.48E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122971	HAP-003	04/29/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	1.20E-15	8.87E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122971	HAP-003	04/29/10	Gross Alpha/Beta	Gross Beta	1.46E-14	2.84E-15	2.92E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122976	HAP-003	05/10/10	Gross Alpha/Beta	Gross Alpha	1.82E-15	6.85E-16	4.22E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122976	HAP-003	05/10/10	Gross Alpha/Beta	Gross Beta	1.35E-14	1.70E-15	1.39E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122981	HAP-003	05/17/10	Gross Alpha/Beta	Gross Alpha	1.80E-15	7.11E-16	4.55E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122981	HAP-003	05/17/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.76E-15	1.55E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122986	HAP-003	05/24/10	Gross Alpha/Beta	Gross Alpha	8.17E-16	4.78E-16	4.23E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS122986	HAP-003	05/24/10	Gross Alpha/Beta	Gross Beta	1.05E-14	1.63E-15	1.44E-15	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122991	HAP-003	06/01/10	Gross Alpha/Beta	Gross Alpha	1.71E-15	7.74E-16	5.54E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122991	HAP-003	06/01/10	Gross Alpha/Beta	Gross Beta	2.13E-14	2.49E-15	1.89E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122996	HAP-003	06/07/10	Gross Alpha/Beta	Gross Alpha	1.20E-15	6.12E-16	4.76E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS122996	HAP-003	06/07/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.94E-15	1.59E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123001	HAP-003	06/14/10	Gross Alpha/Beta	Gross Alpha	8.67E-16	4.07E-16	3.11E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123001	HAP-003	06/14/10	Gross Alpha/Beta	Gross Beta	1.01E-14	1.24E-15	1.01E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123006	HAP-003	06/21/10	Gross Alpha/Beta	Gross Alpha	1.64E-15	6.66E-16	4.41E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123006	HAP-003	06/21/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.73E-15	1.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123010	HAP-003	06/28/10	Gross Alpha/Beta	Gross Alpha	3.38E-15	9.01E-16	4.33E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123010	HAP-003	06/28/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.70E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123016	HAP-003	07/06/10	Gross Alpha/Beta	Gross Alpha	4.17E-16	1.30E-15	2.04E-15	uCi/mL	UJ	T06	HISS (General Area)-Perimeter Air
HIS123016	HAP-003	07/06/10	Gross Alpha/Beta	Gross Beta	1.13E-14	3.42E-15	3.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123022	HAP-003	07/19/10	Gross Alpha/Beta	Gross Alpha	3.21E-15	9.56E-16	6.09E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123022	HAP-003	07/19/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.82E-15	9.76E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123028	HAP-003	07/26/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	7.59E-16	4.00E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123028	HAP-003	07/26/10	Gross Alpha/Beta	Gross Beta	8.89E-15	1.51E-15	1.39E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123033	HAP-003	08/02/10	Gross Alpha/Beta	Gross Alpha	3.68E-15	9.72E-16	4.37E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123033	HAP-003	08/02/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.92E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123038	HAP-003	08/09/10	Gross Alpha/Beta	Gross Alpha	5.35E-15	1.15E-15	4.28E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123038	HAP-003	08/09/10	Gross Alpha/Beta	Gross Beta	2.48E-14	2.17E-15	1.37E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123043	HAP-003	08/16/10	Gross Alpha/Beta	Gross Alpha	1.53E-15	6.34E-16	4.19E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123043	HAP-003	08/16/10	Gross Alpha/Beta	Gross Beta	5.56E-15	1.32E-15	1.38E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123048	HAP-003	08/23/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	9.58E-16	6.26E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123048	HAP-003	08/23/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.67E-15	9.96E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123053	HAP-003	08/30/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	9.99E-16	5.53E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123053	HAP-003	08/30/10	Gross Alpha/Beta	Gross Beta	2.11E-14	1.95E-15	9.38E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123058	HAP-003	09/07/10	Gross Alpha/Beta	Gross Alpha	2.27E-15	7.60E-16	5.30E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123058	HAP-003	09/07/10	Gross Alpha/Beta	Gross Beta	1.41E-14	1.51E-15	8.44E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123063	HAP-003	09/13/10	Gross Alpha/Beta	Gross Alpha	1.74E-15	7.97E-16	7.11E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123063	HAP-003	09/13/10	Gross Alpha/Beta	Gross Beta	1.97E-14	2.04E-15	1.13E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123066	HAP-003	09/20/10	Gross Alpha/Beta	Gross Alpha	1.52E-15	6.79E-16	5.96E-16	uCi/mL	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS123066	HAP-003	09/20/10	Gross Alpha/Beta	Gross Beta	2.40E-14	2.03E-15	9.47E-16	uCi/mL	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS123074	HAP-003	09/27/10	Gross Alpha/Beta	Gross Alpha	3.59E-15	9.53E-16	4.30E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123074	HAP-003	09/27/10	Gross Alpha/Beta	Gross Beta	1.89E-14	1.93E-15	1.35E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123079	HAP-003	10/04/10	Gross Alpha/Beta	Gross Alpha	2.92E-15	8.63E-16	4.30E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123079	HAP-003	10/04/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.70E-15	1.35E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123085	HAP-003	10/11/10	Gross Alpha/Beta	Gross Alpha	5.01E-15	1.23E-15	6.56E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123085	HAP-003	10/11/10	Gross Alpha/Beta	Gross Beta	2.95E-14	2.37E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123090	HAP-003	10/18/10	Gross Alpha/Beta	Gross Alpha	8.12E-15	1.44E-15	4.17E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123090	HAP-003	10/18/10	Gross Alpha/Beta	Gross Beta	3.16E-14	2.47E-15	1.39E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123094	HAP-003	10/25/10	Gross Alpha/Beta	Gross Alpha	3.11E-15	9.31E-16	5.49E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123094	HAP-003	10/25/10	Gross Alpha/Beta	Gross Beta	2.76E-14	2.14E-15	8.80E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123097	HAP-003	11/01/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	1.09E-15	6.13E-16	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123097	HAP-003	11/01/10	Gross Alpha/Beta	Gross Beta	1.62E-14	1.78E-15	1.03E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123103	HAP-003	11/08/10	Gross Alpha/Beta	Gross Alpha	1.94E-15	7.79E-16	5.61E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123103	HAP-003	11/08/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.70E-15	1.00E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123109	HAP-003	11/15/10	Gross Alpha/Beta	Gross Alpha	4.43E-15	1.14E-15	6.91E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123109	HAP-003	11/15/10	Gross Alpha/Beta	Gross Beta	2.50E-14	2.12E-15	9.73E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123114	HAP-003	11/22/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	1.18E-15	6.09E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123114	HAP-003	11/22/10	Gross Alpha/Beta	Gross Beta	3.09E-14	2.35E-15	9.60E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123119	HAP-003	11/29/10	Gross Alpha/Beta	Gross Alpha	3.26E-15	9.20E-16	4.22E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123119	HAP-003	11/29/10	Gross Alpha/Beta	Gross Beta	2.53E-14	2.26E-15	1.40E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123124	HAP-003	12/06/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	8.45E-16	3.99E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123124	HAP-003	12/06/10	Gross Alpha/Beta	Gross Beta	2.65E-14	2.23E-15	1.33E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123128	HAP-003	12/13/10	Gross Alpha/Beta	Gross Alpha	5.56E-15	1.33E-15	6.85E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123128	HAP-003	12/13/10	Gross Alpha/Beta	Gross Beta	3.39E-14	2.55E-15	1.06E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123133	HAP-003	12/20/10	Gross Alpha/Beta	Gross Alpha	1.43E-15	6.34E-16	4.82E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123133	HAP-003	12/20/10	Gross Alpha/Beta	Gross Beta	2.38E-14	2.19E-15	1.43E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123138	HAP-003	12/27/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	7.18E-16	5.60E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123138	HAP-003	12/27/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.70E-15	9.27E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122886	HAP-004	01/04/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	5.84E-16	4.70E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122886	HAP-004	01/04/10	Gross Alpha/Beta	Gross Beta	2.63E-14	2.84E-15	1.36E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122891	HAP-004	01/11/10	Gross Alpha/Beta	Gross Alpha	1.58E-15	6.46E-16	4.42E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122891	HAP-004	01/11/10	Gross Alpha/Beta	Gross Beta	2.18E-14	2.47E-15	1.28E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122896	HAP-004	01/20/10	Gross Alpha/Beta	Gross Alpha	3.64E-15	8.87E-16	3.91E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122896	HAP-004	01/20/10	Gross Alpha/Beta	Gross Beta	3.04E-14	2.20E-15	1.15E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122901	HAP-004	01/26/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	8.60E-16	5.67E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122901	HAP-004	01/26/10	Gross Alpha/Beta	Gross Beta	1.69E-14	2.14E-15	1.67E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122906	HAP-004	02/01/10	Gross Alpha/Beta	Gross Alpha	2.37E-15	9.94E-16	7.13E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122906	HAP-004	02/01/10	Gross Alpha/Beta	Gross Beta	2.00E-14	2.64E-15	2.09E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122911	HAP-004	02/08/10	Gross Alpha/Beta	Gross Alpha	3.12E-16	1.23E-15	2.51E-15	uCi/mL	UJ	T06	HISS Air (Particulate Air)-Environmental Monitoring
HIS122911	HAP-004	02/08/10	Gross Alpha/Beta	Gross Beta	3.08E-14	7.14E-15	7.38E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122916	HAP-004	02/16/10	Gross Alpha/Beta	Gross Alpha	5.55E-16	3.94E-16	4.20E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122916	HAP-004	02/16/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.65E-15	1.23E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122921	HAP-004	02/23/10	Gross Alpha/Beta	Gross Alpha	1.37E-15	7.96E-16	7.39E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122921	HAP-004	02/23/10	Gross Alpha/Beta	Gross Beta	1.56E-14	2.48E-15	2.17E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122926	HAP-004	03/01/10	Gross Alpha/Beta	Gross Alpha	5.70E-15	3.18E-15	2.87E-15	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122926	HAP-004	03/01/10	Gross Alpha/Beta	Gross Beta	4.11E-14	8.51E-15	8.42E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122931	HAP-004	03/08/10	Gross Alpha/Beta	Gross Alpha	2.19E-15	7.55E-16	4.57E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122931	HAP-004	03/08/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.89E-15	1.34E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122936	HAP-004	03/16/10	Gross Alpha/Beta	Gross Alpha	8.44E-16	4.55E-16	3.98E-16	uCi/mL	J	T04	HISS Air (Particulate Air)-Environmental Monitoring
HIS122936	HAP-004	03/16/10	Gross Alpha/Beta	Gross Beta	8.08E-15	1.32E-15	1.17E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122942	HAP-004	03/23/10	Gross Alpha/Beta	Gross Alpha	2.32E-15	8.03E-16	4.86E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122942	HAP-004	03/23/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.95E-15	1.43E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122947	HAP-004	03/29/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	6.79E-16	4.80E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122947	HAP-004	03/29/10	Gross Alpha/Beta	Gross Beta	1.58E-14	2.03E-15	1.63E-15	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS122952	HAP-004	04/06/10	Gross Alpha/Beta	Gross Alpha	1.49E-15	5.78E-16	3.50E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122952	HAP-004	04/06/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.77E-15	1.19E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122957	HAP-004	04/13/10	Gross Alpha/Beta	Gross Alpha	1.73E-15	6.57E-16	3.92E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122957	HAP-004	04/13/10	Gross Alpha/Beta	Gross Beta	1.65E-14	1.82E-15	1.34E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122962	HAP-004	04/19/10	Gross Alpha/Beta	Gross Alpha	2.30E-15	8.32E-16	4.74E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122962	HAP-004	04/19/10	Gross Alpha/Beta	Gross Beta	1.56E-14	2.00E-15	1.61E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122967	HAP-004	04/26/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	7.55E-16	4.32E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122967	HAP-004	04/26/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.79E-15	1.42E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122972	HAP-004	05/03/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	7.92E-16	4.12E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122972	HAP-004	05/03/10	Gross Alpha/Beta	Gross Beta	1.32E-14	1.66E-15	1.36E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122977	HAP-004	05/10/10	Gross Alpha/Beta	Gross Alpha	1.24E-15	5.66E-16	4.10E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122977	HAP-004	05/10/10	Gross Alpha/Beta	Gross Beta	1.31E-14	1.65E-15	1.35E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS122982	HAP-004	05/17/10	Gross Alpha/Beta	Gross Alpha	1.50E-15	6.33E-16	4.27E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122982	HAP-004	05/17/10	Gross Alpha/Beta	Gross Beta	9.89E-15	1.61E-15	1.45E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122987	HAP-004	05/24/10	Gross Alpha/Beta	Gross Alpha	1.34E-15	5.79E-16	3.98E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122987	HAP-004	05/24/10	Gross Alpha/Beta	Gross Beta	1.17E-14	1.63E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122992	HAP-004	06/01/10	Gross Alpha/Beta	Gross Alpha	1.24E-15	5.33E-16	3.67E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122992	HAP-004	06/01/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.84E-15	1.25E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122997	HAP-004	06/07/10	Gross Alpha/Beta	Gross Alpha	1.51E-15	6.90E-16	4.90E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS122997	HAP-004	06/07/10	Gross Alpha/Beta	Gross Beta	1.63E-14	2.03E-15	1.63E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123002	HAP-004	06/14/10	Gross Alpha/Beta	Gross Alpha	1.50E-15	6.24E-16	4.31E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123002	HAP-004	06/14/10	Gross Alpha/Beta	Gross Beta	1.43E-14	1.74E-15	1.39E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123007	HAP-004	06/21/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	5.73E-16	4.17E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123007	HAP-004	06/21/10	Gross Alpha/Beta	Gross Beta	1.05E-14	1.53E-15	1.34E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123011	HAP-004	06/28/10	Gross Alpha/Beta	Gross Alpha	3.64E-15	9.72E-16	4.67E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123011	HAP-004	06/28/10	Gross Alpha/Beta	Gross Beta	1.74E-14	1.93E-15	1.45E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123017	HAP-004	07/06/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	1.83E-15	2.04E-15	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123017	HAP-004	07/06/10	Gross Alpha/Beta	Gross Beta	1.22E-14	3.50E-15	3.42E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123023	HAP-004	07/19/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	1.05E-15	6.39E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123023	HAP-004	07/19/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.86E-15	1.02E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123029	HAP-004	07/26/10	Gross Alpha/Beta	Gross Alpha	2.85E-15	8.36E-16	3.94E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123029	HAP-004	07/26/10	Gross Alpha/Beta	Gross Beta	1.21E-14	1.65E-15	1.37E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123034	HAP-004	08/02/10	Gross Alpha/Beta	Gross Alpha	3.79E-15	9.68E-16	4.22E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123034	HAP-004	08/02/10	Gross Alpha/Beta	Gross Beta	1.69E-14	1.83E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123039	HAP-004	08/09/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	8.59E-16	4.29E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123039	HAP-004	08/09/10	Gross Alpha/Beta	Gross Beta	2.20E-14	2.06E-15	1.37E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123044	HAP-004	08/16/10	Gross Alpha/Beta	Gross Alpha	3.61E-15	9.42E-16	4.09E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123044	HAP-004	08/16/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.90E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123049	HAP-004	08/23/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	8.11E-16	5.68E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123049	HAP-004	08/23/10	Gross Alpha/Beta	Gross Beta	2.10E-14	1.86E-15	9.04E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123054	HAP-004	08/30/10	Gross Alpha/Beta	Gross Alpha	2.86E-15	9.13E-16	5.80E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123054	HAP-004	08/30/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.85E-15	9.84E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123057	HAP-004	09/07/10	Gross Alpha/Beta	Gross Alpha	1.76E-15	6.76E-16	5.23E-16	uCi/mL	=		HISS (General Area)-Perimeter Air

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
HIS123057	HAP-004	09/07/10	Gross Alpha/Beta	Gross Beta	1.18E-14	1.38E-15	8.33E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123064	HAP-004	09/13/10	Gross Alpha/Beta	Gross Alpha	1.50E-15	7.46E-16	7.03E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123064	HAP-004	09/13/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.96E-15	1.12E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123067	HAP-004	09/18/10	Gross Alpha/Beta	Gross Alpha	1.97E-15	9.25E-16	8.40E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123067	HAP-004	09/18/10	Gross Alpha/Beta	Gross Beta	2.06E-14	2.28E-15	1.34E-15	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123075	HAP-004	09/27/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	1.04E-15	4.63E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123075	HAP-004	09/27/10	Gross Alpha/Beta	Gross Beta	2.11E-14	2.11E-15	1.45E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123080	HAP-004	10/04/10	Gross Alpha/Beta	Gross Alpha	3.19E-15	9.13E-16	4.42E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123080	HAP-004	10/04/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.89E-15	1.38E-15	uCi/mL	J	F01	HISS Air (Particulate Air)-Environmental Monitoring
HIS123081	HAP-004	10/11/10	Gross Alpha/Beta	Gross Alpha	5.40E-15	1.23E-15	6.17E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123081	HAP-004	10/11/10	Gross Alpha/Beta	Gross Beta	3.25E-14	2.40E-15	9.70E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123086	HAP-004	10/18/10	Gross Alpha/Beta	Gross Alpha	9.06E-15	1.50E-15	4.07E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123086	HAP-004	10/18/10	Gross Alpha/Beta	Gross Beta	2.94E-14	2.36E-15	1.35E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123095	HAP-004	10/25/10	Gross Alpha/Beta	Gross Alpha	4.15E-15	1.08E-15	5.69E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123095	HAP-004	10/25/10	Gross Alpha/Beta	Gross Beta	2.69E-14	2.16E-15	9.11E-16	uCi/mL	=		HISS Air (Particulate Air)-Environmental Monitoring
HIS123096	HAP-004	11/01/10	Gross Alpha/Beta	Gross Alpha	2.17E-15	7.92E-16	5.59E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123096	HAP-004	11/01/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.63E-15	9.36E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123104	HAP-004	11/08/10	Gross Alpha/Beta	Gross Alpha	2.51E-15	8.54E-16	5.40E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123104	HAP-004	11/08/10	Gross Alpha/Beta	Gross Beta	1.69E-14	1.72E-15	9.67E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123110	HAP-004	11/15/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	9.40E-16	6.89E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123110	HAP-004	11/15/10	Gross Alpha/Beta	Gross Beta	2.17E-14	1.98E-15	9.71E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123115	HAP-004	11/22/10	Gross Alpha/Beta	Gross Alpha	3.66E-15	1.02E-15	5.94E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123115	HAP-004	11/22/10	Gross Alpha/Beta	Gross Beta	3.15E-14	2.34E-15	9.36E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123120	HAP-004	11/29/10	Gross Alpha/Beta	Gross Alpha	3.54E-15	9.70E-16	4.33E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123120	HAP-004	11/29/10	Gross Alpha/Beta	Gross Beta	2.83E-14	2.41E-15	1.44E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123125	HAP-004	12/06/10	Gross Alpha/Beta	Gross Alpha	3.26E-15	8.78E-16	3.85E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123125	HAP-004	12/06/10	Gross Alpha/Beta	Gross Beta	2.57E-14	2.16E-15	1.28E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123129	HAP-004	12/13/10	Gross Alpha/Beta	Gross Alpha	4.23E-15	1.10E-15	6.08E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123129	HAP-004	12/13/10	Gross Alpha/Beta	Gross Beta	2.82E-14	2.19E-15	9.41E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123134	HAP-004	12/20/10	Gross Alpha/Beta	Gross Alpha	2.04E-15	7.08E-16	4.37E-16	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123134	HAP-004	12/20/10	Gross Alpha/Beta	Gross Beta	2.51E-14	2.11E-15	1.30E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
HIS123139	HAP-004	12/27/10	Gross Alpha/Beta	Gross Alpha	1.21E-15	6.46E-16	6.07E-16	uCi/mL	J	T04	HISS (General Area)-Perimeter Air
HIS123139	HAP-004	12/27/10	Gross Alpha/Beta	Gross Beta	1.50E-14	1.69E-15	1.00E-15	uCi/mL	=		HISS (General Area)-Perimeter Air
SVP125741	Hazelwood Ave ROW	03/08/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	5.55E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125741	Hazelwood Ave ROW	03/08/10	Gross Alpha/Beta	Gross Beta	3.37E-14	2.03E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123288	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	1.11E-15	4.37E-15	8.92E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123288	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.83E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123289	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	5.81E-15	6.42E-15	8.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123289	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	9.04E-15	1.77E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123290	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	3.42E-15	5.42E-15	8.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123290	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	6.69E-15	1.74E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123291	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	2.03E-15	4.40E-15	7.89E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123291	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	2.57E-14	1.73E-14	2.28E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123292	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	3.06E-15	4.85E-15	7.84E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123292	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.60E-14	2.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123293	HISS	01/04/10	Gross Alpha/Beta	Gross Alpha	-7.00E-17	3.26E-15	7.92E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123293	HISS	01/04/10	Gross Alpha/Beta	Gross Beta	2.04E-14	1.69E-14	2.29E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123294	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	1.27E-15	5.02E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123294	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	1.58E-14	2.10E-14	2.96E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123295	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	2.64E-15	5.72E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123295	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	3.16E-14	2.23E-14	2.96E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123296	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	8.11E-15	7.94E-15	1.03E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123296	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	3.26E-14	2.25E-14	2.97E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123297	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	-1.22E-15	2.71E-15	8.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123297	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	2.81E-14	1.89E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123298	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.46E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123298	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	2.16E-14	1.79E-14	2.43E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123299	HISS	01/06/10	Gross Alpha/Beta	Gross Alpha	-1.23E-15	2.73E-15	8.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123299	HISS	01/06/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.87E-14	2.51E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123306	HISS	01/13/10	Gross Alpha/Beta	Gross Alpha	3.34E-15	5.28E-15	8.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123306	HISS	01/13/10	Gross Alpha/Beta	Gross Beta	5.22E-14	2.08E-14	2.51E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123307	HISS	01/13/10	Gross Alpha/Beta	Gross Alpha	7.74E-15	6.84E-15	8.39E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123307	HISS	01/13/10	Gross Alpha/Beta	Gross Beta	5.49E-14	2.07E-14	2.46E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123308	HISS	01/13/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.49E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123308	HISS	01/13/10	Gross Alpha/Beta	Gross Beta	5.48E-14	2.08E-14	2.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123309	HISS	01/12/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123309	HISS	01/12/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.97E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123310	HISS	01/12/10	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.71E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123310	HISS	01/12/10	Gross Alpha/Beta	Gross Beta	1.62E-14	1.79E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123311	HISS	01/12/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123311	HISS	01/12/10	Gross Alpha/Beta	Gross Beta	5.11E-14	2.06E-14	2.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123312	HISS	01/14/10	Gross Alpha/Beta	Gross Alpha	6.30E-15	6.15E-15	7.98E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123312	HISS	01/14/10	Gross Alpha/Beta	Gross Beta	6.55E-14	2.06E-14	2.34E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123313	HISS	01/14/10	Gross Alpha/Beta	Gross Alpha	4.21E-15	5.41E-15	8.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123313	HISS	01/14/10	Gross Alpha/Beta	Gross Beta	6.18E-14	2.04E-14	2.36E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123314	HISS	01/14/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	4.97E-15	8.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123314	HISS	01/14/10	Gross Alpha/Beta	Gross Beta	4.35E-14	1.91E-14	2.36E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123315	HISS	01/20/10	Gross Alpha/Beta	Gross Alpha	-1.23E-15	2.71E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123315	HISS	01/20/10	Gross Alpha/Beta	Gross Beta	2.71E-14	1.91E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123316	HISS	01/20/10	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.24E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123316	HISS	01/20/10	Gross Alpha/Beta	Gross Beta	3.62E-14	1.98E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123317	HISS	01/20/10	Gross Alpha/Beta	Gross Alpha	4.52E-15	5.81E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123317	HISS	01/20/10	Gross Alpha/Beta	Gross Beta	9.73E-15	1.76E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123318	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	-1.14E-15	2.52E-15	8.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123318	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.70E-14	2.36E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123319	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	-1.12E-15	2.48E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123319	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	6.82E-15	1.59E-14	2.32E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123320	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	-7.00E-17	3.25E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123320	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.74E-14	2.32E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123321	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	-8.10E-17	3.75E-15	9.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123321	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	2.46E-14	1.98E-14	2.68E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123322	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	4.16E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123322	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	2.87E-15	1.67E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123323	HISS	01/19/10	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.71E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123323	HISS	01/19/10	Gross Alpha/Beta	Gross Beta	2.13E-15	1.67E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123324	HISS	01/18/10	Gross Alpha/Beta	Gross Alpha	4.44E-15	5.71E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123324	HISS	01/18/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.76E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123325	HISS	01/18/10	Gross Alpha/Beta	Gross Alpha	-1.19E-15	2.64E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123325	HISS	01/18/10	Gross Alpha/Beta	Gross Beta	3.45E-14	1.92E-14	2.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123326	HISS	01/18/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123326	HISS	01/18/10	Gross Alpha/Beta	Gross Beta	3.18E-14	1.91E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123341	HISS	01/28/10	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.82E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123341	HISS	01/28/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.88E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123342	HISS	01/28/10	Gross Alpha/Beta	Gross Alpha	5.62E-15	6.20E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123342	HISS	01/28/10	Gross Alpha/Beta	Gross Beta	3.36E-14	1.94E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123343	HISS	01/28/10	Gross Alpha/Beta	Gross Alpha	3.35E-15	5.31E-15	8.59E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123343	HISS	01/28/10	Gross Alpha/Beta	Gross Beta	4.50E-14	2.03E-14	2.52E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123344	HISS	01/27/10	Gross Alpha/Beta	Gross Alpha	2.21E-15	4.79E-15	8.59E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123344	HISS	01/27/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.95E-14	2.52E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123345	HISS	01/27/10	Gross Alpha/Beta	Gross Alpha	2.23E-15	4.84E-15	8.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123345	HISS	01/27/10	Gross Alpha/Beta	Gross Beta	3.94E-14	2.01E-14	2.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123346	HISS	01/27/10	Gross Alpha/Beta	Gross Alpha	2.23E-15	4.84E-15	8.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123346	HISS	01/27/10	Gross Alpha/Beta	Gross Beta	3.18E-14	1.95E-14	2.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123347	HISS	01/26/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.88E-15	8.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123347	HISS	01/26/10	Gross Alpha/Beta	Gross Beta	2.67E-14	1.92E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123348	HISS	01/26/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	5.88E-15	8.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123348	HISS	01/26/10	Gross Alpha/Beta	Gross Beta	3.43E-14	1.98E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123349	HISS	01/26/10	Gross Alpha/Beta	Gross Alpha	1.67E-14	2.14E-14	3.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123349	HISS	01/26/10	Gross Alpha/Beta	Gross Beta	1.55E-13	7.45E-14	9.34E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123350	HISS	01/26/10	Gross Alpha/Beta	Gross Alpha	3.16E-15	5.00E-15	8.09E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123350	HISS	01/26/10	Gross Alpha/Beta	Gross Beta	3.60E-14	1.87E-14	2.38E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123351	HISS	01/26/10	Gross Alpha/Beta	Gross Alpha	6.42E-15	6.27E-15	8.13E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123351	HISS	01/26/10	Gross Alpha/Beta	Gross Beta	2.55E-14	1.80E-14	2.39E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123352	HISS	01/25/10	Gross Alpha/Beta	Gross Alpha	6.82E-15	6.66E-15	8.64E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123352	HISS	01/25/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.89E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123353	HISS	01/25/10	Gross Alpha/Beta	Gross Alpha	4.45E-15	5.72E-15	8.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123353	HISS	01/25/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.86E-14	2.50E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123354	HISS	01/25/10	Gross Alpha/Beta	Gross Alpha	3.36E-15	5.32E-15	8.61E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123354	HISS	01/25/10	Gross Alpha/Beta	Gross Beta	4.66E-14	2.05E-14	2.53E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123355	HISS	02/01/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	4.68E-15	9.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123355	HISS	02/01/10	Gross Alpha/Beta	Gross Beta	3.50E-14	2.15E-14	2.80E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123356	HISS	02/01/10	Gross Alpha/Beta	Gross Alpha	7.65E-15	7.47E-15	9.69E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123356	HISS	02/01/10	Gross Alpha/Beta	Gross Beta	2.45E-14	2.09E-14	2.85E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123357	HISS	02/01/10	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.82E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123357	HISS	02/01/10	Gross Alpha/Beta	Gross Beta	3.24E-14	1.95E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123358	HISS	02/01/10	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.82E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123358	HISS	02/01/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.89E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123359	HISS	02/01/10	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.82E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123359	HISS	02/01/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.83E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123360	HISS	02/02/10	Gross Alpha/Beta	Gross Alpha	6.34E-15	6.20E-15	8.03E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123360	HISS	02/02/10	Gross Alpha/Beta	Gross Beta	2.80E-14	1.80E-14	2.36E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123361	HISS	02/02/10	Gross Alpha/Beta	Gross Alpha	5.39E-15	5.95E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123361	HISS	02/02/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.81E-14	2.41E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123362	HISS	02/02/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	7.73E-15	8.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123362	HISS	02/02/10	Gross Alpha/Beta	Gross Beta	3.82E-14	1.92E-14	2.42E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123363	HISS	02/03/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	5.55E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123363	HISS	02/03/10	Gross Alpha/Beta	Gross Beta	4.08E-14	2.08E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123364	HISS	02/03/10	Gross Alpha/Beta	Gross Alpha	9.48E-15	7.71E-15	8.98E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123364	HISS	02/03/10	Gross Alpha/Beta	Gross Beta	5.25E-14	2.17E-14	2.64E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123365	HISS	02/03/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	7.73E-15	8.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123365	HISS	02/03/10	Gross Alpha/Beta	Gross Beta	5.77E-14	2.06E-14	2.42E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123366	HISS	02/03/10	Gross Alpha/Beta	Gross Alpha	-7.30E-17	3.38E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123366	HISS	02/03/10	Gross Alpha/Beta	Gross Beta	5.31E-14	2.02E-14	2.41E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123367	HISS	02/03/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	5.10E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123367	HISS	02/03/10	Gross Alpha/Beta	Gross Beta	6.13E-14	2.08E-14	2.42E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123368	HISS	02/04/10	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.87E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123368	HISS	02/04/10	Gross Alpha/Beta	Gross Beta	6.71E-14	2.22E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123369	HISS	02/04/10	Gross Alpha/Beta	Gross Alpha	4.57E-15	5.87E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123369	HISS	02/04/10	Gross Alpha/Beta	Gross Beta	5.64E-14	2.14E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123370	HISS	02/04/10	Gross Alpha/Beta	Gross Alpha	6.20E-15	6.83E-15	9.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123370	HISS	02/04/10	Gross Alpha/Beta	Gross Beta	5.11E-14	2.25E-14	2.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123371	HISS	02/04/10	Gross Alpha/Beta	Gross Alpha	8.24E-15	9.08E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123371	HISS	02/04/10	Gross Alpha/Beta	Gross Beta	6.68E-14	2.98E-14	3.68E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123372	HISS	02/04/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	5.39E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123372	HISS	02/04/10	Gross Alpha/Beta	Gross Beta	5.33E-14	2.12E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123389	HISS	02/10/10	Gross Alpha/Beta	Gross Alpha	4.58E-15	7.26E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123389	HISS	02/10/10	Gross Alpha/Beta	Gross Beta	-6.30E-15	2.22E-14	3.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123390	HISS	02/10/10	Gross Alpha/Beta	Gross Alpha	3.02E-15	6.55E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123390	HISS	02/10/10	Gross Alpha/Beta	Gross Beta	2.25E-14	2.47E-14	3.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123391	HISS	02/10/10	Gross Alpha/Beta	Gross Alpha	-1.26E-15	2.79E-15	8.89E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123391	HISS	02/10/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.89E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123392	HISS	02/10/10	Gross Alpha/Beta	Gross Alpha	-2.42E-15	1.47E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123392	HISS	02/10/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.84E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123393	HISS	02/10/10	Gross Alpha/Beta	Gross Alpha	-7.80E-17	3.62E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123393	HISS	02/10/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.99E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123394	HISS	02/11/10	Gross Alpha/Beta	Gross Alpha	-9.70E-17	4.49E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123394	HISS	02/11/10	Gross Alpha/Beta	Gross Beta	1.04E-14	2.21E-14	3.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123395	HISS	02/11/10	Gross Alpha/Beta	Gross Alpha	-9.70E-17	4.49E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123395	HISS	02/11/10	Gross Alpha/Beta	Gross Beta	2.94E-14	2.37E-14	3.20E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123396	HISS	02/11/10	Gross Alpha/Beta	Gross Alpha	2.26E-15	4.89E-15	8.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123396	HISS	02/11/10	Gross Alpha/Beta	Gross Beta	2.83E-14	1.94E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123397	HISS	02/11/10	Gross Alpha/Beta	Gross Alpha	1.32E-15	5.22E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123397	HISS	02/11/10	Gross Alpha/Beta	Gross Beta	1.85E-14	2.23E-14	3.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123398	HISS	02/11/10	Gross Alpha/Beta	Gross Alpha	-7.70E-17	3.59E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123398	HISS	02/11/10	Gross Alpha/Beta	Gross Beta	6.00E-15	1.75E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123399	HISS	02/15/10	Gross Alpha/Beta	Gross Alpha	4.36E-15	6.90E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123399	HISS	02/15/10	Gross Alpha/Beta	Gross Beta	3.70E-14	2.48E-14	3.28E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123400	HISS	02/15/10	Gross Alpha/Beta	Gross Alpha	5.86E-15	7.54E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123400	HISS	02/15/10	Gross Alpha/Beta	Gross Beta	1.65E-14	2.32E-14	3.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123401	HISS	02/15/10	Gross Alpha/Beta	Gross Alpha	-1.55E-15	3.43E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123401	HISS	02/15/10	Gross Alpha/Beta	Gross Beta	1.90E-14	2.29E-14	3.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123402	HISS	02/15/10	Gross Alpha/Beta	Gross Alpha	-9.30E-17	4.33E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123402	HISS	02/15/10	Gross Alpha/Beta	Gross Beta	7.98E-16	2.05E-14	3.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123403	HISS	02/15/10	Gross Alpha/Beta	Gross Alpha	-1.56E-15	3.45E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123403	HISS	02/15/10	Gross Alpha/Beta	Gross Beta	1.79E-15	2.15E-14	3.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123404	HISS	02/16/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	4.30E-15	8.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123404	HISS	02/16/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.80E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123405	HISS	02/16/10	Gross Alpha/Beta	Gross Alpha	-1.25E-15	2.76E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123405	HISS	02/16/10	Gross Alpha/Beta	Gross Beta	3.84E-14	2.03E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123406	HISS	02/16/10	Gross Alpha/Beta	Gross Alpha	-1.27E-15	2.80E-15	8.91E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123406	HISS	02/16/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.87E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123407	HISS	02/16/10	Gross Alpha/Beta	Gross Alpha	-1.24E-15	2.74E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123407	HISS	02/16/10	Gross Alpha/Beta	Gross Beta	1.21E-14	1.80E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123408	HISS	02/16/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	4.32E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123408	HISS	02/16/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.88E-14	2.59E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123409	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	-2.96E-15	6.53E-15	2.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123409	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	1.80E-14	4.20E-14	6.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123410	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	2.56E-15	5.55E-15	9.96E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123410	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	2.43E-14	2.14E-14	2.92E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123411	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	5.22E-15	6.71E-15	9.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123411	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	6.87E-15	2.00E-14	2.93E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123412	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	4.48E-15	5.76E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123412	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.80E-14	2.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123413	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	-1.21E-15	2.68E-15	8.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123413	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.89E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123414	HISS	02/17/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	4.19E-15	8.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123414	HISS	02/17/10	Gross Alpha/Beta	Gross Beta	2.08E-14	1.84E-14	2.51E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123415	HISS	02/18/10	Gross Alpha/Beta	Gross Alpha	1.21E-15	4.78E-15	9.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123415	HISS	02/18/10	Gross Alpha/Beta	Gross Beta	8.41E-15	1.97E-14	2.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123416	HISS	02/18/10	Gross Alpha/Beta	Gross Alpha	4.45E-15	5.72E-15	8.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123416	HISS	02/18/10	Gross Alpha/Beta	Gross Beta	2.87E-15	1.68E-14	2.50E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123417	HISS	02/18/10	Gross Alpha/Beta	Gross Alpha	1.21E-15	4.77E-15	9.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123417	HISS	02/18/10	Gross Alpha/Beta	Gross Beta	1.44E-14	2.01E-14	2.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125684	HISS	02/18/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	5.74E-15	8.53E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125684	HISS	02/18/10	Gross Alpha/Beta	Gross Beta	2.15E-14	1.84E-14	2.50E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125685	HISS	02/18/10	Gross Alpha/Beta	Gross Alpha	5.69E-15	7.32E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125685	HISS	02/18/10	Gross Alpha/Beta	Gross Beta	2.27E-14	2.31E-14	3.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125704	HISS	02/22/10	Gross Alpha/Beta	Gross Alpha	-3.02E-15	1.83E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125704	HISS	02/22/10	Gross Alpha/Beta	Gross Beta	3.06E-14	2.39E-14	3.23E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125705	HISS	02/22/10	Gross Alpha/Beta	Gross Alpha	7.23E-15	7.97E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125705	HISS	02/22/10	Gross Alpha/Beta	Gross Beta	6.92E-14	2.69E-14	3.23E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125706	HISS	02/22/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	6.14E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125706	HISS	02/22/10	Gross Alpha/Beta	Gross Beta	3.45E-14	2.43E-14	3.23E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125707	HISS	02/23/10	Gross Alpha/Beta	Gross Alpha	1.52E-14	9.64E-15	9.54E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125707	HISS	02/23/10	Gross Alpha/Beta	Gross Beta	6.83E-14	2.39E-14	2.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125708	HISS	02/23/10	Gross Alpha/Beta	Gross Alpha	2.39E-15	5.17E-15	9.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125708	HISS	02/23/10	Gross Alpha/Beta	Gross Beta	2.91E-14	2.05E-14	2.72E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125709	HISS	02/23/10	Gross Alpha/Beta	Gross Alpha	7.70E-15	6.81E-15	8.34E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125709	HISS	02/23/10	Gross Alpha/Beta	Gross Beta	5.32E-14	2.04E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125710	HISS	02/23/10	Gross Alpha/Beta	Gross Alpha	8.81E-15	7.16E-15	8.34E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125710	HISS	02/23/10	Gross Alpha/Beta	Gross Beta	7.73E-14	2.21E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125711	HISS	02/23/10	Gross Alpha/Beta	Gross Alpha	2.15E-15	4.65E-15	8.34E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125711	HISS	02/23/10	Gross Alpha/Beta	Gross Beta	5.39E-14	2.05E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125712	HISS	02/24/10	Gross Alpha/Beta	Gross Alpha	-2.36E-15	1.43E-15	8.59E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125712	HISS	02/24/10	Gross Alpha/Beta	Gross Beta	4.65E-14	2.05E-14	2.52E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125713	HISS	02/24/10	Gross Alpha/Beta	Gross Alpha	2.21E-15	4.79E-15	8.59E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125713	HISS	02/24/10	Gross Alpha/Beta	Gross Beta	2.55E-14	1.88E-14	2.52E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125714	HISS	02/24/10	Gross Alpha/Beta	Gross Alpha	3.25E-15	5.15E-15	8.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125714	HISS	02/24/10	Gross Alpha/Beta	Gross Beta	3.85E-14	1.93E-14	2.45E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125715	HISS	02/24/10	Gross Alpha/Beta	Gross Alpha	9.99E-15	8.83E-15	1.08E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125715	HISS	02/24/10	Gross Alpha/Beta	Gross Beta	3.78E-14	2.42E-14	3.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125716	HISS	02/24/10	Gross Alpha/Beta	Gross Alpha	4.36E-15	5.60E-15	8.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125716	HISS	02/24/10	Gross Alpha/Beta	Gross Beta	4.00E-14	1.94E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125717	HISS	02/25/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.81E-15	9.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125717	HISS	02/25/10	Gross Alpha/Beta	Gross Beta	2.62E-14	2.05E-14	2.76E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125718	HISS	02/25/10	Gross Alpha/Beta	Gross Alpha	8.75E-15	7.74E-15	9.48E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125718	HISS	02/25/10	Gross Alpha/Beta	Gross Beta	4.22E-14	2.19E-14	2.78E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125742	HISS	03/08/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.62E-15	8.48E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125742	HISS	03/08/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.77E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125743	HISS	03/08/10	Gross Alpha/Beta	Gross Alpha	2.21E-15	4.79E-15	8.59E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125743	HISS	03/08/10	Gross Alpha/Beta	Gross Beta	3.15E-14	1.93E-14	2.52E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125744	HISS	03/08/10	Gross Alpha/Beta	Gross Alpha	9.99E-15	7.55E-15	8.40E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125744	HISS	03/08/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.76E-14	2.47E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125745	HISS	03/08/10	Gross Alpha/Beta	Gross Alpha	-8.90E-17	4.12E-15	1.00E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125745	HISS	03/08/10	Gross Alpha/Beta	Gross Beta	2.62E-14	2.17E-14	2.94E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125746	HISS	03/08/10	Gross Alpha/Beta	Gross Alpha	-1.45E-15	3.21E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125746	HISS	03/08/10	Gross Alpha/Beta	Gross Beta	4.19E-14	2.33E-14	3.00E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125747	HISS	03/10/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125747	HISS	03/10/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.85E-14	2.49E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125748	HISS	03/11/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.49E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125748	HISS	03/11/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.93E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125749	HISS	03/11/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.49E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125749	HISS	03/11/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.80E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125750	HISS	03/11/10	Gross Alpha/Beta	Gross Alpha	-1.20E-15	2.66E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125750	HISS	03/11/10	Gross Alpha/Beta	Gross Beta	5.84E-15	1.70E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125769	HISS	03/15/10	Gross Alpha/Beta	Gross Alpha	7.25E-15	9.55E-15	1.36E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125769	HISS	03/15/10	Gross Alpha/Beta	Gross Beta	2.89E-15	3.03E-14	4.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125770	HISS	03/15/10	Gross Alpha/Beta	Gross Alpha	3.18E-15	7.62E-15	1.36E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125770	HISS	03/15/10	Gross Alpha/Beta	Gross Beta	1.22E-14	3.11E-14	4.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125771	HISS	03/16/10	Gross Alpha/Beta	Gross Alpha	-4.86E-16	2.77E-15	7.53E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125771	HISS	03/16/10	Gross Alpha/Beta	Gross Beta	1.60E-15	1.67E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125772	HISS	03/16/10	Gross Alpha/Beta	Gross Alpha	2.84E-15	4.71E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125772	HISS	03/16/10	Gross Alpha/Beta	Gross Beta	-2.06E-15	1.62E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125773	HISS	03/16/10	Gross Alpha/Beta	Gross Alpha	6.46E-16	3.62E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125773	HISS	03/16/10	Gross Alpha/Beta	Gross Beta	-1.37E-15	1.67E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125774	HISS	03/17/10	Gross Alpha/Beta	Gross Alpha	-6.60E-16	3.76E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125774	HISS	03/17/10	Gross Alpha/Beta	Gross Beta	2.42E-14	2.46E-14	3.48E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125775	HISS	03/17/10	Gross Alpha/Beta	Gross Alpha	8.63E-16	4.84E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125775	HISS	03/17/10	Gross Alpha/Beta	Gross Beta	3.02E-14	2.51E-14	3.48E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125776	HISS	03/17/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	4.80E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125776	HISS	03/17/10	Gross Alpha/Beta	Gross Beta	3.20E-14	1.93E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125777	HISS	03/18/10	Gross Alpha/Beta	Gross Alpha	6.13E-16	3.44E-15	7.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125777	HISS	03/18/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.74E-14	2.47E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125778	HISS	03/18/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	7.52E-15	1.35E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125778	HISS	03/18/10	Gross Alpha/Beta	Gross Beta	5.56E-14	3.42E-14	4.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125779	HISS	03/18/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	1.11E-14	1.35E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125779	HISS	03/18/10	Gross Alpha/Beta	Gross Beta	4.53E-14	3.36E-14	4.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125789	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	-1.63E-15	1.64E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125789	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.78E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125790	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	-4.94E-16	2.81E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125790	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	1.51E-14	1.81E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125791	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	5.16E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125791	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	2.61E-14	1.84E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125792	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	9.49E-15	7.19E-15	7.44E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125792	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.77E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125793	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	2.92E-15	4.84E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125793	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	9.11E-15	1.76E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125794	HISS	03/23/10	Gross Alpha/Beta	Gross Alpha	1.79E-15	4.28E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125794	HISS	03/23/10	Gross Alpha/Beta	Gross Beta	2.56E-14	1.90E-14	2.60E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125804	HISS	03/31/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	5.61E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125804	HISS	03/31/10	Gross Alpha/Beta	Gross Beta	4.34E-14	1.97E-14	2.51E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125805	HISS	03/31/10	Gross Alpha/Beta	Gross Alpha	7.21E-15	6.41E-15	7.37E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125805	HISS	03/31/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.85E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125806	HISS	03/31/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	5.16E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125806	HISS	03/31/10	Gross Alpha/Beta	Gross Beta	3.62E-14	1.92E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125807	HISS	03/30/10	Gross Alpha/Beta	Gross Alpha	5.57E-15	7.34E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125807	HISS	03/30/10	Gross Alpha/Beta	Gross Beta	2.17E-14	2.50E-14	3.57E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125808	HISS	03/30/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.24E-15	1.06E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125808	HISS	03/30/10	Gross Alpha/Beta	Gross Beta	3.97E-14	2.67E-14	3.62E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125809	HISS	03/30/10	Gross Alpha/Beta	Gross Alpha	8.24E-15	6.72E-15	7.30E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125809	HISS	03/30/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.76E-14	2.49E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125810	HISS	03/29/10	Gross Alpha/Beta	Gross Alpha	5.35E-15	5.99E-15	7.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125810	HISS	03/29/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.89E-14	2.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125811	HISS	03/29/10	Gross Alpha/Beta	Gross Alpha	3.78E-15	4.98E-15	7.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125811	HISS	03/29/10	Gross Alpha/Beta	Gross Beta	8.13E-16	1.57E-14	2.42E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125812	HISS	03/29/10	Gross Alpha/Beta	Gross Alpha	-4.72E-16	2.68E-15	7.30E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125812	HISS	03/29/10	Gross Alpha/Beta	Gross Beta	-2.74E-15	1.58E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125813	HISS	04/01/10	Gross Alpha/Beta	Gross Alpha	6.40E-16	3.58E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125813	HISS	04/01/10	Gross Alpha/Beta	Gross Beta	-6.18E-16	1.66E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125872	HISS	04/19/10	Gross Alpha/Beta	Gross Alpha	2.80E-15	5.07E-15	8.43E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125872	HISS	04/19/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.92E-14	2.78E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125873	HISS	04/20/10	Gross Alpha/Beta	Gross Alpha	2.67E-15	4.84E-15	8.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125873	HISS	04/20/10	Gross Alpha/Beta	Gross Beta	2.46E-14	1.84E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125874	HISS	04/20/10	Gross Alpha/Beta	Gross Alpha	5.03E-15	5.91E-15	8.15E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125874	HISS	04/20/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.82E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125875	HISS	04/20/10	Gross Alpha/Beta	Gross Alpha	7.35E-15	6.76E-15	8.15E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125875	HISS	04/20/10	Gross Alpha/Beta	Gross Beta	2.65E-14	1.88E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125876	HISS	04/21/10	Gross Alpha/Beta	Gross Alpha	3.76E-16	3.55E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125876	HISS	04/21/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.76E-14	2.61E-14	uCi/mL	U		North County Air (General Area Air)-Environmental Monitoring
SVP125877	HISS	04/21/10	Gross Alpha/Beta	Gross Alpha	1.85E-14	9.69E-15	7.83E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125877	HISS	04/21/10	Gross Alpha/Beta	Gross Beta	3.37E-14	2.08E-14	2.66E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125878	HISS	04/22/10	Gross Alpha/Beta	Gross Alpha	9.41E-15	7.31E-15	7.93E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125878	HISS	04/22/10	Gross Alpha/Beta	Gross Beta	4.21E-14	1.95E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125879	HISS	04/22/10	Gross Alpha/Beta	Gross Alpha	4.89E-15	5.74E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125879	HISS	04/22/10	Gross Alpha/Beta	Gross Beta	3.76E-14	1.92E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127347	HISS	04/28/10	Gross Alpha/Beta	Gross Alpha	1.46E-15	4.09E-15	7.71E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127347	HISS	04/28/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.71E-14	2.54E-14	uCi/mL	U		North County Air (General Area Air)-Environmental Monitoring
SVP127348	HISS	04/28/10	Gross Alpha/Beta	Gross Alpha	4.73E-15	5.56E-15	7.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127348	HISS	04/28/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.74E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127349	HISS	04/28/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	7.77E-15	7.73E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127349	HISS	04/28/10	Gross Alpha/Beta	Gross Beta	2.94E-14	1.82E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127350	HISS	04/29/10	Gross Alpha/Beta	Gross Alpha	6.08E-15	6.23E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127350	HISS	04/29/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.74E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127351	HISS	04/29/10	Gross Alpha/Beta	Gross Alpha	2.16E-15	6.04E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127351	HISS	04/29/10	Gross Alpha/Beta	Gross Beta	1.99E-14	2.48E-14	3.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127352	HISS	04/29/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	6.09E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127352	HISS	04/29/10	Gross Alpha/Beta	Gross Beta	3.62E-14	2.64E-14	3.78E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127364	HISS	05/03/10	Gross Alpha/Beta	Gross Alpha	1.62E-15	4.25E-15	8.01E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127364	HISS	05/03/10	Gross Alpha/Beta	Gross Beta	1.78E-14	2.00E-14	2.73E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127365	HISS	05/03/10	Gross Alpha/Beta	Gross Alpha	3.91E-15	5.34E-15	7.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127365	HISS	05/03/10	Gross Alpha/Beta	Gross Beta	2.45E-14	2.05E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127366	HISS	05/04/10	Gross Alpha/Beta	Gross Alpha	1.69E-15	4.44E-15	8.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127366	HISS	05/04/10	Gross Alpha/Beta	Gross Beta	1.15E-14	2.04E-14	2.85E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127367	HISS	05/04/10	Gross Alpha/Beta	Gross Alpha	6.65E-15	6.70E-15	8.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127367	HISS	05/04/10	Gross Alpha/Beta	Gross Beta	1.82E-14	2.13E-14	2.91E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127368	HISS	05/04/10	Gross Alpha/Beta	Gross Alpha	5.43E-15	6.24E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127368	HISS	05/04/10	Gross Alpha/Beta	Gross Beta	1.25E-14	2.09E-14	2.91E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127369	HISS	05/05/10	Gross Alpha/Beta	Gross Alpha	6.50E-16	5.03E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127369	HISS	05/05/10	Gross Alpha/Beta	Gross Beta	1.76E-14	2.76E-14	3.84E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127370	HISS	05/05/10	Gross Alpha/Beta	Gross Alpha	2.28E-15	5.99E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127370	HISS	05/05/10	Gross Alpha/Beta	Gross Beta	4.75E-14	2.99E-14	3.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127371	HISS	05/05/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	5.55E-15	8.29E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127371	HISS	05/05/10	Gross Alpha/Beta	Gross Beta	2.71E-14	2.14E-14	2.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127372	HISS	05/06/10	Gross Alpha/Beta	Gross Alpha	6.97E-15	1.22E-14	2.01E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127372	HISS	05/06/10	Gross Alpha/Beta	Gross Beta	1.42E-14	4.80E-14	6.85E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127373	HISS	05/06/10	Gross Alpha/Beta	Gross Alpha	1.11E-15	8.57E-15	1.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127373	HISS	05/06/10	Gross Alpha/Beta	Gross Beta	-2.85E-15	4.45E-14	6.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127374	HISS	05/06/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.73E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127374	HISS	05/06/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.93E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127375	HISS	05/06/10	Gross Alpha/Beta	Gross Alpha	1.58E-15	4.16E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127375	HISS	05/06/10	Gross Alpha/Beta	Gross Beta	1.52E-14	1.94E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127376	HISS	05/06/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	4.20E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127376	HISS	05/06/10	Gross Alpha/Beta	Gross Beta	1.82E-15	1.85E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127383	HISS	05/11/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	5.55E-15	8.29E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127383	HISS	05/11/10	Gross Alpha/Beta	Gross Beta	2.16E-14	2.10E-14	2.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127384	HISS	05/11/10	Gross Alpha/Beta	Gross Alpha	4.76E-16	3.68E-15	8.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127384	HISS	05/11/10	Gross Alpha/Beta	Gross Beta	7.38E-15	1.98E-14	2.81E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127385	HISS	05/11/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	5.24E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127385	HISS	05/11/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.92E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127386	HISS	05/11/10	Gross Alpha/Beta	Gross Alpha	9.40E-15	7.78E-15	8.81E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127386	HISS	05/11/10	Gross Alpha/Beta	Gross Beta	2.21E-14	2.22E-14	3.00E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127387	HISS	05/11/10	Gross Alpha/Beta	Gross Alpha	4.94E-15	5.68E-15	7.79E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127387	HISS	05/11/10	Gross Alpha/Beta	Gross Beta	1.07E-14	1.90E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127388	HISS	05/12/10	Gross Alpha/Beta	Gross Alpha	-1.04E-15	4.08E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127388	HISS	05/12/10	Gross Alpha/Beta	Gross Beta	2.77E-15	2.82E-14	4.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127389	HISS	05/12/10	Gross Alpha/Beta	Gross Alpha	6.99E-16	5.40E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127389	HISS	05/12/10	Gross Alpha/Beta	Gross Beta	5.09E-15	2.86E-14	4.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127390	HISS	05/12/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	7.26E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127390	HISS	05/12/10	Gross Alpha/Beta	Gross Beta	-1.78E-15	2.78E-14	4.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127391	HISS	05/12/10	Gross Alpha/Beta	Gross Alpha	2.50E-15	6.56E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127391	HISS	05/12/10	Gross Alpha/Beta	Gross Beta	1.81E-14	3.02E-14	4.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127392	HISS	05/12/10	Gross Alpha/Beta	Gross Alpha	7.68E-15	8.83E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127392	HISS	05/12/10	Gross Alpha/Beta	Gross Beta	4.97E-16	2.82E-14	4.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127393	HISS	05/13/10	Gross Alpha/Beta	Gross Alpha	-1.88E-15	7.37E-15	2.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127393	HISS	05/13/10	Gross Alpha/Beta	Gross Beta	2.35E-14	5.23E-14	7.38E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127394	HISS	05/13/10	Gross Alpha/Beta	Gross Alpha	-5.00E-15	3.91E-15	2.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127394	HISS	05/13/10	Gross Alpha/Beta	Gross Beta	7.05E-15	5.10E-14	7.38E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127453	HISS	09/30/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	7.44E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127453	HISS	09/30/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.29E-14	1.87E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127454	HISS	09/28/10	Gross Alpha/Beta	Gross Alpha	7.46E-15	8.64E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127454	HISS	09/28/10	Gross Alpha/Beta	Gross Beta	2.76E-14	1.38E-14	1.81E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127455	HISS	09/30/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	9.97E-15	1.19E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127455	HISS	09/30/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.36E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127456	HISS	09/30/10	Gross Alpha/Beta	Gross Alpha	7.66E-15	8.87E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127456	HISS	09/30/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.38E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127457	HISS	09/30/10	Gross Alpha/Beta	Gross Alpha	2.80E-15	7.36E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127457	HISS	09/30/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.23E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127458	HISS	09/29/10	Gross Alpha/Beta	Gross Alpha	4.18E-15	8.09E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127458	HISS	09/29/10	Gross Alpha/Beta	Gross Beta	4.85E-14	1.66E-14	1.93E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127459	HISS	09/29/10	Gross Alpha/Beta	Gross Alpha	4.14E-16	6.77E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127459	HISS	09/29/10	Gross Alpha/Beta	Gross Beta	2.60E-14	1.42E-14	1.91E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127460	HISS	09/29/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	9.67E-15	1.22E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127460	HISS	09/29/10	Gross Alpha/Beta	Gross Beta	3.67E-14	1.53E-14	1.89E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127461	HISS	09/29/10	Gross Alpha/Beta	Gross Alpha	8.34E-15	9.66E-15	1.31E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127461	HISS	09/29/10	Gross Alpha/Beta	Gross Beta	3.17E-14	1.55E-14	2.03E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127462	HISS	09/29/10	Gross Alpha/Beta	Gross Alpha	4.39E-15	8.51E-15	1.31E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127462	HISS	09/29/10	Gross Alpha/Beta	Gross Beta	4.60E-14	1.70E-14	2.03E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127463	HISS	09/28/10	Gross Alpha/Beta	Gross Alpha	2.77E-15	7.29E-15	1.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127463	HISS	09/28/10	Gross Alpha/Beta	Gross Beta	3.31E-14	1.45E-14	1.83E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127464	HISS	09/28/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	7.72E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127464	HISS	09/28/10	Gross Alpha/Beta	Gross Beta	1.89E-14	1.30E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127465	HISS	09/28/10	Gross Alpha/Beta	Gross Alpha	4.01E-15	7.77E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127465	HISS	09/28/10	Gross Alpha/Beta	Gross Beta	4.43E-14	1.58E-14	1.85E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127466	HISS	09/27/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	6.85E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127466	HISS	09/27/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.22E-14	1.72E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127467	HISS	09/27/10	Gross Alpha/Beta	Gross Alpha	1.56E-15	4.08E-15	7.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127467	HISS	09/27/10	Gross Alpha/Beta	Gross Beta	3.79E-15	1.85E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127468	HISS	09/27/10	Gross Alpha/Beta	Gross Alpha	2.64E-15	4.56E-15	7.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127468	HISS	09/27/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.92E-14	2.52E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127469	HISS	09/27/10	Gross Alpha/Beta	Gross Alpha	3.86E-15	5.22E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127469	HISS	09/27/10	Gross Alpha/Beta	Gross Beta	7.46E-15	1.88E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127470	HISS	09/27/10	Gross Alpha/Beta	Gross Alpha	4.98E-15	5.68E-15	7.97E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127470	HISS	09/27/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.97E-14	2.58E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127471	HISS	10/04/10	Gross Alpha/Beta	Gross Alpha	6.29E-15	1.73E-14	3.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127471	HISS	10/04/10	Gross Alpha/Beta	Gross Beta	1.88E-14	5.86E-14	8.93E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127472	HISS	10/04/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	1.54E-14	3.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127472	HISS	10/04/10	Gross Alpha/Beta	Gross Beta	4.72E-14	6.10E-14	8.93E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127473	HISS	10/04/10	Gross Alpha/Beta	Gross Alpha	-1.13E-15	9.55E-15	2.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127473	HISS	10/04/10	Gross Alpha/Beta	Gross Beta	1.35E-14	4.22E-14	6.44E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127474	HISS	10/04/10	Gross Alpha/Beta	Gross Alpha	7.85E-15	1.46E-14	2.38E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127474	HISS	10/04/10	Gross Alpha/Beta	Gross Beta	4.42E-14	4.75E-14	6.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127475	HISS	10/04/10	Gross Alpha/Beta	Gross Alpha	-1.15E-15	9.68E-15	2.27E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127475	HISS	10/04/10	Gross Alpha/Beta	Gross Beta	3.45E-14	4.46E-14	6.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127476	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	-4.63E-16	3.89E-15	9.12E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127476	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	-2.08E-15	1.65E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127477	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	1.87E-15	5.14E-15	9.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127477	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.93E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127478	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	1.57E-14	9.48E-15	9.10E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127478	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.84E-14	2.62E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127479	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.16E-15	9.35E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127479	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	4.89E-15	1.76E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127480	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	6.93E-16	4.52E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127480	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	3.06E-14	1.93E-14	2.62E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127481	HISS	10/05/10	Gross Alpha/Beta	Gross Alpha	3.01E-15	5.60E-15	9.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127481	HISS	10/05/10	Gross Alpha/Beta	Gross Beta	9.34E-15	1.76E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127482	HISS	10/06/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	5.58E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127482	HISS	10/06/10	Gross Alpha/Beta	Gross Beta	-2.07E-15	1.65E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127483	HISS	10/06/10	Gross Alpha/Beta	Gross Alpha	2.99E-15	5.56E-15	9.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127483	HISS	10/06/10	Gross Alpha/Beta	Gross Beta	3.35E-14	1.95E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127484	HISS	10/06/10	Gross Alpha/Beta	Gross Alpha	9.98E-15	7.99E-15	9.16E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127484	HISS	10/06/10	Gross Alpha/Beta	Gross Beta	1.09E-14	1.78E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127485	HISS	10/06/10	Gross Alpha/Beta	Gross Alpha	1.00E-14	9.45E-15	1.20E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127485	HISS	10/06/10	Gross Alpha/Beta	Gross Beta	2.44E-14	1.37E-14	1.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127486	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	6.48E-15	8.56E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127486	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	2.85E-14	1.42E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127487	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	2.82E-15	7.43E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127487	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	7.55E-15	1.17E-14	1.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127488	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	7.41E-15	8.57E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127488	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	4.01E-14	1.50E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127489	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	1.66E-15	7.23E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127489	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	-1.74E-15	1.07E-14	1.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127490	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	6.68E-15	8.83E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127490	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	3.73E-14	1.55E-14	1.93E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127491	HISS	10/07/10	Gross Alpha/Beta	Gross Alpha	-1.22E-15	9.27E-15	1.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127491	HISS	10/07/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.81E-14	2.81E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127492	HISS	10/09/10	Gross Alpha/Beta	Gross Alpha	5.58E-16	9.12E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127492	HISS	10/09/10	Gross Alpha/Beta	Gross Beta	5.20E-14	2.10E-14	2.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127493	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	5.25E-15	6.39E-15	9.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127493	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	4.75E-14	2.04E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127494	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	1.83E-15	5.02E-15	9.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127494	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	4.97E-14	2.06E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127495	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	4.11E-15	5.97E-15	9.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127495	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	3.77E-14	1.97E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127496	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	9.62E-15	7.70E-15	8.82E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127496	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	4.73E-14	2.00E-14	2.54E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127497	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	8.87E-15	7.69E-15	9.21E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127497	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	4.86E-14	2.09E-14	2.65E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127498	HISS	10/11/10	Gross Alpha/Beta	Gross Alpha	5.33E-15	6.49E-15	9.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127498	HISS	10/11/10	Gross Alpha/Beta	Gross Beta	3.98E-14	2.01E-14	2.63E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127499	HISS	10/12/10	Gross Alpha/Beta	Gross Alpha	7.07E-15	7.50E-15	9.95E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127499	HISS	10/12/10	Gross Alpha/Beta	Gross Beta	1.93E-14	1.99E-14	2.87E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127500	HISS	10/12/10	Gross Alpha/Beta	Gross Alpha	1.02E-14	8.16E-15	9.35E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127500	HISS	10/12/10	Gross Alpha/Beta	Gross Beta	6.80E-14	2.25E-14	2.69E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127501	HISS	10/12/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	9.08E-15	9.99E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127501	HISS	10/12/10	Gross Alpha/Beta	Gross Beta	5.19E-14	2.26E-14	2.88E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127502	HISS	10/12/10	Gross Alpha/Beta	Gross Alpha	-3.00E-15	2.29E-15	9.87E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127502	HISS	10/12/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.97E-14	2.84E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127503	HISS	10/14/10	Gross Alpha/Beta	Gross Alpha	3.00E-15	5.57E-15	9.09E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127503	HISS	10/14/10	Gross Alpha/Beta	Gross Beta	3.50E-14	1.96E-14	2.62E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127504	HISS	10/14/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	8.32E-15	9.16E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127504	HISS	10/14/10	Gross Alpha/Beta	Gross Beta	2.62E-14	1.90E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127505	HISS	10/14/10	Gross Alpha/Beta	Gross Alpha	5.41E-15	6.59E-15	9.28E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127505	HISS	10/14/10	Gross Alpha/Beta	Gross Beta	2.65E-14	1.93E-14	2.67E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127506	HISS	10/14/10	Gross Alpha/Beta	Gross Alpha	-4.73E-16	3.99E-15	9.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127506	HISS	10/14/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.82E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127507	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	1.01E-14	1.23E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127507	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	5.04E-14	1.67E-14	1.91E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127508	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	4.15E-15	8.04E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127508	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.38E-14	1.92E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127509	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	4.04E-16	6.60E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127509	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	3.15E-14	1.45E-14	1.87E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127510	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	9.06E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127510	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.40E-14	1.90E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127511	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	6.77E-15	8.95E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127511	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.33E-14	1.96E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127512	HISS	10/13/10	Gross Alpha/Beta	Gross Alpha	2.67E-15	7.01E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127512	HISS	10/13/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.26E-14	1.76E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127742	HISS	05/17/10	Gross Alpha/Beta	Gross Alpha	-6.65E-16	2.98E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127742	HISS	05/17/10	Gross Alpha/Beta	Gross Beta	3.50E-15	1.64E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127743	HISS	05/17/10	Gross Alpha/Beta	Gross Alpha	3.73E-15	5.29E-15	7.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127743	HISS	05/17/10	Gross Alpha/Beta	Gross Beta	-1.59E-15	1.58E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127744	HISS	05/18/10	Gross Alpha/Beta	Gross Alpha	5.93E-15	6.14E-15	7.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127744	HISS	05/18/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.79E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127745	HISS	05/18/10	Gross Alpha/Beta	Gross Alpha	-6.59E-16	2.96E-15	7.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127745	HISS	05/18/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.74E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127746	HISS	05/19/10	Gross Alpha/Beta	Gross Alpha	2.66E-15	4.86E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127746	HISS	05/19/10	Gross Alpha/Beta	Gross Beta	2.04E-15	1.63E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127747	HISS	05/19/10	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.34E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127747	HISS	05/19/10	Gross Alpha/Beta	Gross Beta	3.50E-15	1.64E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127748	HISS	05/17/10	Gross Alpha/Beta	Gross Alpha	4.37E-16	3.66E-15	7.58E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127748	HISS	05/17/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.79E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127749	HISS	05/17/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.77E-15	7.55E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127749	HISS	05/17/10	Gross Alpha/Beta	Gross Beta	-1.57E-15	1.57E-14	2.52E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127762	HISS	05/24/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.77E-15	7.55E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127762	HISS	05/24/10	Gross Alpha/Beta	Gross Beta	1.63E-14	1.72E-14	2.52E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127763	HISS	05/24/10	Gross Alpha/Beta	Gross Alpha	4.47E-16	3.74E-15	7.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127763	HISS	05/24/10	Gross Alpha/Beta	Gross Beta	1.31E-14	1.74E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127764	HISS	05/26/10	Gross Alpha/Beta	Gross Alpha	2.59E-15	4.73E-15	7.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127764	HISS	05/26/10	Gross Alpha/Beta	Gross Beta	4.10E-14	1.90E-14	2.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127765	HISS	05/26/10	Gross Alpha/Beta	Gross Alpha	5.83E-15	6.03E-15	7.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127765	HISS	05/26/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.83E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127766	HISS	05/26/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	5.44E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127766	HISS	05/26/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.77E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127767	HISS	05/26/10	Gross Alpha/Beta	Gross Alpha	-6.77E-16	3.04E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127767	HISS	05/26/10	Gross Alpha/Beta	Gross Beta	3.40E-14	1.92E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127768	HISS	05/27/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	5.60E-15	8.05E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127768	HISS	05/27/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.83E-14	2.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127769	HISS	05/27/10	Gross Alpha/Beta	Gross Alpha	4.51E-16	3.78E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127769	HISS	05/27/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.77E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127770	HISS	05/27/10	Gross Alpha/Beta	Gross Alpha	3.73E-15	5.29E-15	7.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127770	HISS	05/27/10	Gross Alpha/Beta	Gross Beta	1.43E-14	1.72E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127771	HISS	05/26/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	1.25E-14	1.55E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127771	HISS	05/26/10	Gross Alpha/Beta	Gross Beta	8.51E-15	3.32E-14	5.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127772	HISS	06/01/10	Gross Alpha/Beta	Gross Alpha	4.74E-15	5.74E-15	8.23E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127772	HISS	06/01/10	Gross Alpha/Beta	Gross Beta	9.34E-15	1.74E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127773	HISS	06/01/10	Gross Alpha/Beta	Gross Alpha	2.46E-15	4.75E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127773	HISS	06/01/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.84E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127774	HISS	06/01/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	7.76E-15	8.32E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127774	HISS	06/01/10	Gross Alpha/Beta	Gross Beta	2.31E-14	1.87E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127775	HISS	06/01/10	Gross Alpha/Beta	Gross Alpha	2.60E-15	5.02E-15	8.68E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127775	HISS	06/01/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.92E-14	2.81E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127776	HISS	06/01/10	Gross Alpha/Beta	Gross Alpha	3.75E-15	5.49E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127776	HISS	06/01/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.87E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127777	HISS	06/02/10	Gross Alpha/Beta	Gross Alpha	1.32E-15	4.15E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127777	HISS	06/02/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.79E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127778	HISS	06/02/10	Gross Alpha/Beta	Gross Alpha	-9.23E-16	2.60E-15	8.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127778	HISS	06/02/10	Gross Alpha/Beta	Gross Beta	2.15E-14	1.80E-14	2.59E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127779	HISS	06/02/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	4.72E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127779	HISS	06/02/10	Gross Alpha/Beta	Gross Beta	5.57E-15	1.70E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127780	HISS	06/03/10	Gross Alpha/Beta	Gross Alpha	1.75E-16	3.24E-15	7.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127780	HISS	06/03/10	Gross Alpha/Beta	Gross Beta	1.97E-14	1.70E-14	2.46E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127781	HISS	06/03/10	Gross Alpha/Beta	Gross Alpha	3.57E-15	5.24E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127781	HISS	06/03/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.86E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127782	HISS	06/03/10	Gross Alpha/Beta	Gross Alpha	4.86E-15	5.89E-15	8.43E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127782	HISS	06/03/10	Gross Alpha/Beta	Gross Beta	2.64E-14	1.92E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127783	HISS	06/03/10	Gross Alpha/Beta	Gross Alpha	1.32E-15	4.17E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127783	HISS	06/03/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.84E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127784	HISS	06/03/10	Gross Alpha/Beta	Gross Alpha	4.76E-15	5.77E-15	8.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127784	HISS	06/03/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.81E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127798	HISS	06/07/10	Gross Alpha/Beta	Gross Alpha	1.89E-14	1.39E-14	1.40E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127798	HISS	06/07/10	Gross Alpha/Beta	Gross Beta	4.12E-14	3.53E-14	4.99E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127799	HISS	06/07/10	Gross Alpha/Beta	Gross Alpha	1.48E-14	1.27E-14	1.42E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127799	HISS	06/07/10	Gross Alpha/Beta	Gross Beta	5.18E-14	3.66E-14	5.06E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127800	HISS	06/07/10	Gross Alpha/Beta	Gross Alpha	4.43E-15	6.27E-15	6.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127800	HISS	06/07/10	Gross Alpha/Beta	Gross Beta	1.98E-13	3.41E-14	3.94E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127801	HISS	06/07/10	Gross Alpha/Beta	Gross Alpha	4.83E-15	4.83E-15	3.27E-15	uCi/mL	J	T02	North County Air (General Area Air)-Environmental Monitoring
SVP127801	HISS	06/07/10	Gross Alpha/Beta	Gross Beta	1.05E-13	1.83E-14	2.15E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127802	HISS	06/07/10	Gross Alpha/Beta	Gross Alpha	1.21E-15	2.41E-15	3.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127802	HISS	06/07/10	Gross Alpha/Beta	Gross Beta	6.98E-14	1.49E-14	2.15E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127803	HISS	06/08/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	7.16E-15	3.42E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127803	HISS	06/08/10	Gross Alpha/Beta	Gross Beta	7.48E-14	1.58E-14	2.25E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127804	HISS	06/08/10	Gross Alpha/Beta	Gross Alpha	8.83E-15	6.68E-15	3.42E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127804	HISS	06/08/10	Gross Alpha/Beta	Gross Beta	9.13E-14	1.74E-14	2.25E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127805	HISS	06/08/10	Gross Alpha/Beta	Gross Alpha	6.19E-15	5.54E-15	3.35E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127805	HISS	06/08/10	Gross Alpha/Beta	Gross Beta	7.98E-14	1.62E-14	2.20E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127806	HISS	06/08/10	Gross Alpha/Beta	Gross Alpha	6.21E-15	5.55E-15	3.36E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127806	HISS	06/08/10	Gross Alpha/Beta	Gross Beta	1.07E-13	1.87E-14	2.21E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127807	HISS	06/08/10	Gross Alpha/Beta	Gross Alpha	2.49E-15	3.52E-15	3.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127807	HISS	06/08/10	Gross Alpha/Beta	Gross Beta	1.02E-13	1.83E-14	2.21E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127808	HISS	06/09/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	3.11E-15	2.97E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127808	HISS	06/09/10	Gross Alpha/Beta	Gross Beta	6.93E-14	1.42E-14	1.95E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127809	HISS	06/09/10	Gross Alpha/Beta	Gross Alpha	2.27E-15	3.22E-15	3.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127809	HISS	06/09/10	Gross Alpha/Beta	Gross Beta	1.05E-13	1.78E-14	2.02E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127810	HISS	06/09/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	3.83E-15	2.99E-15	uCi/mL	J	T02	North County Air (General Area Air)-Environmental Monitoring
SVP127810	HISS	06/09/10	Gross Alpha/Beta	Gross Beta	7.40E-14	1.47E-14	1.96E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127811	HISS	06/09/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	3.11E-15	2.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127811	HISS	06/09/10	Gross Alpha/Beta	Gross Beta	9.26E-14	1.64E-14	1.96E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127812	HISS	06/09/10	Gross Alpha/Beta	Gross Alpha	4.63E-15	5.62E-15	8.05E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127812	HISS	06/09/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.76E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127813	HISS	06/10/10	Gross Alpha/Beta	Gross Alpha	6.88E-15	6.46E-15	8.08E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127813	HISS	06/10/10	Gross Alpha/Beta	Gross Beta	4.81E-14	2.02E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127814	HISS	06/10/10	Gross Alpha/Beta	Gross Alpha	4.70E-15	5.70E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127814	HISS	06/10/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.79E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127815	HISS	06/10/10	Gross Alpha/Beta	Gross Alpha	1.90E-16	3.51E-15	8.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127815	HISS	06/10/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.82E-14	2.66E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127816	HISS	06/10/10	Gross Alpha/Beta	Gross Alpha	4.59E-15	5.57E-15	7.97E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127816	HISS	06/10/10	Gross Alpha/Beta	Gross Beta	2.57E-14	1.83E-14	2.58E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127817	HISS	06/10/10	Gross Alpha/Beta	Gross Alpha	1.83E-16	3.39E-15	7.96E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127817	HISS	06/10/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.71E-14	2.57E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127827	HISS	06/14/10	Gross Alpha/Beta	Gross Alpha	7.90E-15	6.77E-15	8.31E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127827	HISS	06/14/10	Gross Alpha/Beta	Gross Beta	1.26E-14	2.08E-14	3.48E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127828	HISS	06/14/10	Gross Alpha/Beta	Gross Alpha	1.12E-15	3.87E-15	8.23E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127828	HISS	06/14/10	Gross Alpha/Beta	Gross Beta	6.62E-15	2.02E-14	3.44E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127829	HISS	06/14/10	Gross Alpha/Beta	Gross Alpha	1.25E-15	4.32E-15	9.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127829	HISS	06/14/10	Gross Alpha/Beta	Gross Beta	1.15E-14	2.28E-14	3.84E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127830	HISS	06/15/10	Gross Alpha/Beta	Gross Alpha	3.77E-15	5.62E-15	9.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127830	HISS	06/15/10	Gross Alpha/Beta	Gross Beta	1.57E-14	2.33E-14	3.87E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127831	HISS	06/15/10	Gross Alpha/Beta	Gross Alpha	5.24E-15	6.42E-15	9.65E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127831	HISS	06/15/10	Gross Alpha/Beta	Gross Beta	6.89E-15	2.36E-14	4.04E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127832	HISS	06/15/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	6.03E-15	9.06E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127832	HISS	06/15/10	Gross Alpha/Beta	Gross Beta	1.21E-14	2.26E-14	3.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127833	HISS	06/15/10	Gross Alpha/Beta	Gross Alpha	5.13E-15	6.29E-15	9.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127833	HISS	06/15/10	Gross Alpha/Beta	Gross Beta	6.75E-15	2.31E-14	3.95E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127834	HISS	06/15/10	Gross Alpha/Beta	Gross Alpha	0	3.63E-15	9.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127834	HISS	06/15/10	Gross Alpha/Beta	Gross Beta	8.44E-15	2.33E-14	3.95E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127835	HISS	06/16/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	4.39E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127835	HISS	06/16/10	Gross Alpha/Beta	Gross Beta	2.45E-14	2.11E-14	3.38E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127836	HISS	06/16/10	Gross Alpha/Beta	Gross Alpha	1.10E-15	3.80E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127836	HISS	06/16/10	Gross Alpha/Beta	Gross Beta	2.38E-14	2.11E-14	3.38E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127837	HISS	06/16/10	Gross Alpha/Beta	Gross Alpha	3.37E-15	5.02E-15	8.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127837	HISS	06/16/10	Gross Alpha/Beta	Gross Beta	2.58E-14	2.16E-14	3.46E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127838	HISS	06/16/10	Gross Alpha/Beta	Gross Alpha	0	3.11E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127838	HISS	06/16/10	Gross Alpha/Beta	Gross Beta	1.52E-14	2.05E-14	3.38E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127839	HISS	06/16/10	Gross Alpha/Beta	Gross Alpha	3.29E-15	4.91E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127839	HISS	06/16/10	Gross Alpha/Beta	Gross Beta	2.53E-14	2.12E-14	3.38E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127840	HISS	06/21/10	Gross Alpha/Beta	Gross Alpha	1.17E-15	8.42E-15	1.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127840	HISS	06/21/10	Gross Alpha/Beta	Gross Beta	6.69E-15	1.58E-14	2.70E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127841	HISS	06/21/10	Gross Alpha/Beta	Gross Alpha	1.18E-15	8.50E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127841	HISS	06/21/10	Gross Alpha/Beta	Gross Beta	2.25E-15	1.55E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127842	HISS	06/21/10	Gross Alpha/Beta	Gross Alpha	-5.89E-15	6.24E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127842	HISS	06/21/10	Gross Alpha/Beta	Gross Beta	-9.75E-15	1.43E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127843	HISS	06/21/10	Gross Alpha/Beta	Gross Alpha	7.07E-15	1.00E-14	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127843	HISS	06/21/10	Gross Alpha/Beta	Gross Beta	0	1.53E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127844	HISS	06/21/10	Gross Alpha/Beta	Gross Alpha	4.71E-15	9.43E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127844	HISS	06/21/10	Gross Alpha/Beta	Gross Beta	2.48E-14	1.76E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127845	HISS	06/22/10	Gross Alpha/Beta	Gross Alpha	0	8.24E-15	1.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127845	HISS	06/22/10	Gross Alpha/Beta	Gross Beta	9.09E-15	1.63E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127846	HISS	06/22/10	Gross Alpha/Beta	Gross Alpha	-1.19E-15	7.89E-15	1.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127846	HISS	06/22/10	Gross Alpha/Beta	Gross Beta	8.33E-15	1.62E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127847	HISS	06/22/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	8.82E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127847	HISS	06/22/10	Gross Alpha/Beta	Gross Beta	4.50E-15	1.57E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127848	HISS	06/22/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	8.82E-15	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127848	HISS	06/22/10	Gross Alpha/Beta	Gross Beta	8.25E-15	1.61E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127849	HISS	06/22/10	Gross Alpha/Beta	Gross Alpha	0	8.24E-15	1.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127849	HISS	06/22/10	Gross Alpha/Beta	Gross Beta	1.06E-14	1.65E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127850	HISS	06/23/10	Gross Alpha/Beta	Gross Alpha	8.25E-15	1.03E-14	1.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127850	HISS	06/23/10	Gross Alpha/Beta	Gross Beta	2.55E-14	1.76E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127851	HISS	06/23/10	Gross Alpha/Beta	Gross Alpha	2.38E-15	8.92E-15	1.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127851	HISS	06/23/10	Gross Alpha/Beta	Gross Beta	3.49E-14	1.86E-14	2.75E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127852	HISS	06/23/10	Gross Alpha/Beta	Gross Alpha	0	8.21E-15	1.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127852	HISS	06/23/10	Gross Alpha/Beta	Gross Beta	5.43E-14	2.00E-14	2.74E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127853	HISS	06/24/10	Gross Alpha/Beta	Gross Alpha	-3.07E-15	2.04E-14	4.34E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127853	HISS	06/24/10	Gross Alpha/Beta	Gross Beta	5.87E-15	4.05E-14	7.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127854	HISS	06/24/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	7.99E-15	7.77E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127854	HISS	06/24/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.99E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127855	HISS	06/24/10	Gross Alpha/Beta	Gross Alpha	5.72E-15	5.98E-15	7.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127855	HISS	06/24/10	Gross Alpha/Beta	Gross Beta	3.05E-14	2.12E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127856	HISS	06/24/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	4.82E-15	8.13E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127856	HISS	06/24/10	Gross Alpha/Beta	Gross Beta	2.95E-14	2.19E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127868	HISS	06/30/10	Gross Alpha/Beta	Gross Alpha	-8.05E-16	2.85E-15	7.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127868	HISS	06/30/10	Gross Alpha/Beta	Gross Beta	1.83E-14	1.97E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127869	HISS	06/30/10	Gross Alpha/Beta	Gross Alpha	4.71E-15	5.71E-15	7.84E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127869	HISS	06/30/10	Gross Alpha/Beta	Gross Beta	8.99E-15	1.91E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127870	HISS	06/30/10	Gross Alpha/Beta	Gross Alpha	3.59E-15	5.24E-15	7.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127870	HISS	06/30/10	Gross Alpha/Beta	Gross Beta	1.91E-14	1.98E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127871	HISS	06/30/10	Gross Alpha/Beta	Gross Alpha	3.56E-15	5.19E-15	7.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127871	HISS	06/30/10	Gross Alpha/Beta	Gross Beta	3.11E-14	2.05E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127872	HISS	06/30/10	Gross Alpha/Beta	Gross Alpha	3.59E-15	5.24E-15	7.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127872	HISS	06/30/10	Gross Alpha/Beta	Gross Beta	1.69E-14	1.96E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127873	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	-1.72E-15	6.09E-15	1.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127873	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	9.86E-15	3.99E-14	5.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127874	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	1.10E-15	1.36E-14	2.94E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127874	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	9.24E-15	6.97E-14	9.76E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127875	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	1.44E-15	4.35E-15	8.06E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127875	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	1.15E-14	1.98E-14	2.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127876	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	5.84E-15	6.15E-15	7.88E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127876	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	2.48E-15	1.87E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127877	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	4.29E-15	7.95E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127877	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	9.12E-15	1.94E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127878	HISS	06/29/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	5.36E-15	7.99E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127878	HISS	06/29/10	Gross Alpha/Beta	Gross Beta	-1.15E-14	1.78E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127879	HISS	06/28/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	5.29E-15	7.88E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127879	HISS	06/28/10	Gross Alpha/Beta	Gross Beta	2.80E-14	2.06E-14	2.62E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127880	HISS	06/28/10	Gross Alpha/Beta	Gross Alpha	2.55E-15	4.86E-15	7.99E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127880	HISS	06/28/10	Gross Alpha/Beta	Gross Beta	2.39E-14	2.05E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127881	HISS	06/28/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	6.26E-15	8.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127881	HISS	06/28/10	Gross Alpha/Beta	Gross Beta	2.40E-14	2.06E-14	2.67E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127882	HISS	06/28/10	Gross Alpha/Beta	Gross Alpha	6.70E-16	8.24E-15	1.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127882	HISS	06/28/10	Gross Alpha/Beta	Gross Beta	4.03E-14	4.50E-14	5.93E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127883	HISS	06/28/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	9.75E-15	1.81E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127883	HISS	06/28/10	Gross Alpha/Beta	Gross Beta	3.07E-14	4.47E-14	6.00E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127884	HISS	07/01/10	Gross Alpha/Beta	Gross Alpha	8.17E-15	7.69E-15	9.27E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127884	HISS	07/01/10	Gross Alpha/Beta	Gross Beta	3.43E-16	2.18E-14	3.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127885	HISS	07/01/10	Gross Alpha/Beta	Gross Alpha	3.53E-16	4.34E-15	9.42E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127885	HISS	07/01/10	Gross Alpha/Beta	Gross Beta	1.69E-14	2.34E-14	3.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127886	HISS	07/01/10	Gross Alpha/Beta	Gross Alpha	3.04E-16	3.73E-15	8.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127886	HISS	07/01/10	Gross Alpha/Beta	Gross Beta	2.80E-14	2.11E-14	2.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127887	HISS	07/01/10	Gross Alpha/Beta	Gross Alpha	4.86E-15	5.89E-15	8.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127887	HISS	07/01/10	Gross Alpha/Beta	Gross Beta	1.60E-14	2.02E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127888	HISS	07/01/10	Gross Alpha/Beta	Gross Alpha	9.42E-15	7.45E-15	8.10E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127888	HISS	07/01/10	Gross Alpha/Beta	Gross Beta	1.38E-14	2.01E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129049	HISS	07/07/10	Gross Alpha/Beta	Gross Alpha	6.06E-15	1.00E-14	1.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129049	HISS	07/07/10	Gross Alpha/Beta	Gross Beta	9.99E-15	1.66E-14	2.50E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129050	HISS	07/07/10	Gross Alpha/Beta	Gross Alpha	2.00E-15	6.30E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129050	HISS	07/07/10	Gross Alpha/Beta	Gross Beta	1.08E-14	1.23E-14	1.78E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129051	HISS	07/07/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	8.22E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129051	HISS	07/07/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.27E-14	1.79E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129052	HISS	07/07/10	Gross Alpha/Beta	Gross Alpha	4.36E-15	7.19E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129052	HISS	07/07/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.28E-14	1.80E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129053	HISS	07/07/10	Gross Alpha/Beta	Gross Alpha	1.27E-15	8.83E-15	1.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129053	HISS	07/07/10	Gross Alpha/Beta	Gross Beta	1.07E-14	1.78E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129054	HISS	07/06/10	Gross Alpha/Beta	Gross Alpha	-8.98E-16	1.58E-14	3.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129054	HISS	07/06/10	Gross Alpha/Beta	Gross Beta	3.79E-14	3.65E-14	5.19E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129055	HISS	07/06/10	Gross Alpha/Beta	Gross Alpha	3.17E-15	1.00E-14	1.76E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129055	HISS	07/06/10	Gross Alpha/Beta	Gross Beta	2.17E-14	2.00E-14	2.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129056	HISS	07/06/10	Gross Alpha/Beta	Gross Alpha	2.39E-15	1.66E-14	3.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129056	HISS	07/06/10	Gross Alpha/Beta	Gross Beta	-6.93E-16	3.07E-14	5.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129057	HISS	07/12/10	Gross Alpha/Beta	Gross Alpha	2.07E-15	6.54E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129057	HISS	07/12/10	Gross Alpha/Beta	Gross Beta	4.39E-14	1.62E-14	1.84E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129058	HISS	07/12/10	Gross Alpha/Beta	Gross Alpha	-3.18E-16	5.59E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129058	HISS	07/12/10	Gross Alpha/Beta	Gross Beta	2.33E-14	1.41E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129059	HISS	07/12/10	Gross Alpha/Beta	Gross Alpha	-2.71E-15	4.46E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129059	HISS	07/12/10	Gross Alpha/Beta	Gross Beta	1.35E-14	1.30E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129060	HISS	07/13/10	Gross Alpha/Beta	Gross Alpha	3.19E-15	6.79E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129060	HISS	07/13/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.30E-14	1.80E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129061	HISS	07/13/10	Gross Alpha/Beta	Gross Alpha	-3.15E-16	5.54E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129061	HISS	07/13/10	Gross Alpha/Beta	Gross Beta	1.18E-14	1.27E-14	1.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129062	HISS	07/13/10	Gross Alpha/Beta	Gross Alpha	2.02E-15	6.37E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129062	HISS	07/13/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.37E-14	1.80E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129063	HISS	07/13/10	Gross Alpha/Beta	Gross Alpha	6.66E-15	7.87E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129063	HISS	07/13/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.30E-14	1.79E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129064	HISS	07/13/10	Gross Alpha/Beta	Gross Alpha	8.66E-16	6.01E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129064	HISS	07/13/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.36E-14	1.82E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129065	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	-3.65E-16	6.41E-15	1.32E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129065	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.49E-14	2.11E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129066	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	-1.68E-15	5.62E-15	1.28E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129066	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.40E-14	2.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129067	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	2.32E-15	7.33E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129067	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.62E-14	2.07E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129068	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	4.51E-15	7.44E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129068	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.42E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129069	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	8.89E-16	6.17E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129069	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	2.52E-14	1.45E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129070	HISS	07/14/10	Gross Alpha/Beta	Gross Alpha	2.11E-15	6.64E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129070	HISS	07/14/10	Gross Alpha/Beta	Gross Beta	8.25E-15	1.25E-14	1.87E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129071	HISS	07/15/10	Gross Alpha/Beta	Gross Alpha	8.82E-16	6.12E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129071	HISS	07/15/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.45E-14	1.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129072	HISS	07/15/10	Gross Alpha/Beta	Gross Alpha	6.88E-15	8.14E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129072	HISS	07/15/10	Gross Alpha/Beta	Gross Beta	3.57E-14	1.54E-14	1.85E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129073	HISS	07/15/10	Gross Alpha/Beta	Gross Alpha	1.66E-14	1.07E-14	1.16E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129073	HISS	07/15/10	Gross Alpha/Beta	Gross Beta	2.89E-14	1.48E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129091	HISS	07/26/10	Gross Alpha/Beta	Gross Alpha	6.40E-16	6.10E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129091	HISS	07/26/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.37E-14	1.86E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129092	HISS	07/28/10	Gross Alpha/Beta	Gross Alpha	6.56E-16	6.26E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129092	HISS	07/28/10	Gross Alpha/Beta	Gross Beta	2.43E-14	1.49E-14	1.91E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129093	HISS	07/28/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	6.69E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129093	HISS	07/28/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.54E-14	1.90E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129094	HISS	07/28/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	6.70E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129094	HISS	07/28/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.43E-14	1.90E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129095	HISS	07/29/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	6.70E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129095	HISS	07/29/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.39E-14	1.90E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129096	HISS	07/29/10	Gross Alpha/Beta	Gross Alpha	8.88E-15	8.65E-15	1.15E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129096	HISS	07/29/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.37E-14	1.83E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129097	HISS	07/29/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	8.06E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129097	HISS	07/29/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.30E-14	1.85E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129101	HISS	08/02/10	Gross Alpha/Beta	Gross Alpha	9.49E-15	9.25E-15	1.23E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129101	HISS	08/02/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.61E-14	1.96E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129102	HISS	08/02/10	Gross Alpha/Beta	Gross Alpha	5.44E-15	7.77E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129102	HISS	08/02/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.55E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129103	HISS	08/02/10	Gross Alpha/Beta	Gross Alpha	-5.81E-16	5.82E-15	1.22E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129103	HISS	08/02/10	Gross Alpha/Beta	Gross Beta	3.49E-14	1.61E-14	1.93E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129104	HISS	08/02/10	Gross Alpha/Beta	Gross Alpha	6.43E-15	9.17E-15	1.39E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129104	HISS	08/02/10	Gross Alpha/Beta	Gross Beta	3.43E-14	1.78E-14	2.20E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129105	HISS	08/02/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	8.23E-15	1.38E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129105	HISS	08/02/10	Gross Alpha/Beta	Gross Beta	3.60E-14	1.79E-14	2.19E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129106	HISS	08/03/10	Gross Alpha/Beta	Gross Alpha	7.12E-15	1.02E-14	1.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129106	HISS	08/03/10	Gross Alpha/Beta	Gross Beta	3.60E-14	1.95E-14	2.44E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129107	HISS	08/03/10	Gross Alpha/Beta	Gross Alpha	8.38E-16	7.99E-15	1.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129107	HISS	08/03/10	Gross Alpha/Beta	Gross Beta	3.10E-14	1.90E-14	2.44E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129108	HISS	08/03/10	Gross Alpha/Beta	Gross Alpha	7.16E-15	1.02E-14	1.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129108	HISS	08/03/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.91E-14	2.45E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129109	HISS	08/03/10	Gross Alpha/Beta	Gross Alpha	6.30E-15	1.10E-14	1.74E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129109	HISS	08/03/10	Gross Alpha/Beta	Gross Beta	4.32E-14	2.23E-14	2.77E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129110	HISS	08/03/10	Gross Alpha/Beta	Gross Alpha	-8.14E-16	8.15E-15	1.70E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129110	HISS	08/03/10	Gross Alpha/Beta	Gross Beta	3.56E-14	2.12E-14	2.71E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129111	HISS	08/04/10	Gross Alpha/Beta	Gross Alpha	8.76E-15	8.53E-15	1.14E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129111	HISS	08/04/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.47E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129112	HISS	08/04/10	Gross Alpha/Beta	Gross Alpha	2.81E-14	1.17E-14	7.69E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129112	HISS	08/04/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.90E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129112	HISS	08/04/10	Gross Alpha/Beta	Gross Alpha	3.42E-14	1.38E-14	1.13E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129112	HISS	08/04/10	Gross Alpha/Beta	Gross Beta	3.46E-14	1.52E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129113	HISS	08/04/10	Gross Alpha/Beta	Gross Alpha	5.29E-15	7.55E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129113	HISS	08/04/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.34E-14	1.81E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129114	HISS	08/05/10	Gross Alpha/Beta	Gross Alpha	1.84E-15	6.56E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129114	HISS	08/05/10	Gross Alpha/Beta	Gross Beta	5.05E-14	1.71E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129115	HISS	08/05/10	Gross Alpha/Beta	Gross Alpha	1.12E-14	7.95E-15	8.44E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129115	HISS	08/05/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.94E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129116	HISS	08/05/10	Gross Alpha/Beta	Gross Alpha	4.62E-15	5.90E-15	8.71E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129116	HISS	08/05/10	Gross Alpha/Beta	Gross Beta	3.68E-14	2.04E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129117	HISS	08/05/10	Gross Alpha/Beta	Gross Alpha	6.55E-15	7.18E-15	9.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129117	HISS	08/05/10	Gross Alpha/Beta	Gross Beta	2.61E-14	2.19E-14	3.00E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129118	HISS	08/05/10	Gross Alpha/Beta	Gross Alpha	5.20E-15	6.64E-15	9.80E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129118	HISS	08/05/10	Gross Alpha/Beta	Gross Beta	3.71E-14	2.26E-14	2.98E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129119	HISS	08/06/10	Gross Alpha/Beta	Gross Alpha	1.47E-14	8.91E-15	8.48E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129119	HISS	08/06/10	Gross Alpha/Beta	Gross Beta	2.99E-14	1.94E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129120	HISS	08/06/10	Gross Alpha/Beta	Gross Alpha	1.06E-14	7.98E-15	8.83E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129120	HISS	08/06/10	Gross Alpha/Beta	Gross Beta	2.57E-14	1.98E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129160	HISS	08/14/10	Gross Alpha/Beta	Gross Alpha	7.44E-15	6.83E-15	8.09E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129160	HISS	08/14/10	Gross Alpha/Beta	Gross Beta	6.99E-15	1.85E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129161	HISS	08/14/10	Gross Alpha/Beta	Gross Alpha	7.10E-15	6.52E-15	7.72E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129161	HISS	08/14/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.91E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129162	HISS	08/14/10	Gross Alpha/Beta	Gross Alpha	7.31E-15	6.71E-15	7.95E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129162	HISS	08/14/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.89E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129163	HISS	08/12/10	Gross Alpha/Beta	Gross Alpha	4.18E-15	5.84E-15	8.58E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129163	HISS	08/12/10	Gross Alpha/Beta	Gross Beta	4.15E-14	2.23E-14	2.83E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129164	HISS	08/12/10	Gross Alpha/Beta	Gross Alpha	8.09E-15	7.42E-15	8.80E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129164	HISS	08/12/10	Gross Alpha/Beta	Gross Beta	2.43E-14	2.15E-14	2.90E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129165	HISS	08/12/10	Gross Alpha/Beta	Gross Alpha	8.04E-15	7.38E-15	8.74E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129165	HISS	08/12/10	Gross Alpha/Beta	Gross Beta	4.98E-14	2.33E-14	2.88E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129166	HISS	08/12/10	Gross Alpha/Beta	Gross Alpha	9.39E-15	7.88E-15	8.83E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129166	HISS	08/12/10	Gross Alpha/Beta	Gross Beta	2.60E-14	2.17E-14	2.91E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129167	HISS	08/13/10	Gross Alpha/Beta	Gross Alpha	5.80E-15	6.80E-15	9.20E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129167	HISS	08/13/10	Gross Alpha/Beta	Gross Beta	4.54E-14	2.40E-14	3.03E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129168	HISS	08/13/10	Gross Alpha/Beta	Gross Alpha	6.90E-15	7.07E-15	8.91E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129168	HISS	08/13/10	Gross Alpha/Beta	Gross Beta	2.79E-14	2.20E-14	2.93E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129169	HISS	08/13/10	Gross Alpha/Beta	Gross Alpha	8.33E-15	7.65E-15	9.06E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129169	HISS	08/13/10	Gross Alpha/Beta	Gross Beta	2.67E-14	2.23E-14	2.99E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132652	HISS	11/19/10	Gross Alpha/Beta	Gross Alpha	1.68E-14	9.78E-15	8.45E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132652	HISS	11/19/10	Gross Alpha/Beta	Gross Beta	3.57E-14	2.19E-14	2.81E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132653	HISS	12/02/10	Gross Alpha/Beta	Gross Alpha	5.12E-15	5.78E-15	7.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP132653	HISS	12/02/10	Gross Alpha/Beta	Gross Beta	4.53E-14	2.10E-14	2.57E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132654	HISS	12/01/10	Gross Alpha/Beta	Gross Alpha	9.79E-15	7.45E-15	7.83E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132654	HISS	12/01/10	Gross Alpha/Beta	Gross Beta	4.14E-14	2.09E-14	2.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132655	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	6.49E-15	6.45E-15	8.03E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132655	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	2.93E-14	2.05E-14	2.67E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132656	HISS	11/29/10	Gross Alpha/Beta	Gross Alpha	5.40E-15	6.09E-15	8.16E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132656	HISS	11/29/10	Gross Alpha/Beta	Gross Beta	3.29E-14	2.10E-14	2.71E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132657	HISS	11/29/10	Gross Alpha/Beta	Gross Alpha	5.86E-15	6.61E-15	8.85E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132657	HISS	11/29/10	Gross Alpha/Beta	Gross Beta	3.74E-14	2.29E-14	2.94E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132658	HISS	11/29/10	Gross Alpha/Beta	Gross Alpha	7.62E-16	4.77E-15	1.04E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132658	HISS	11/29/10	Gross Alpha/Beta	Gross Beta	2.89E-14	2.58E-14	3.45E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132659	HISS	11/29/10	Gross Alpha/Beta	Gross Alpha	8.43E-15	8.37E-15	1.04E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132659	HISS	11/29/10	Gross Alpha/Beta	Gross Beta	4.00E-14	2.67E-14	3.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132660	HISS	11/29/10	Gross Alpha/Beta	Gross Alpha	7.58E-15	8.56E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132660	HISS	11/29/10	Gross Alpha/Beta	Gross Beta	4.18E-14	2.92E-14	3.81E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132661	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	1.80E-15	4.45E-15	8.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132661	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.98E-14	2.71E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132662	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	8.49E-15	6.97E-15	7.70E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132662	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	7.37E-15	1.80E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132663	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	4.78E-15	7.70E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132663	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	3.62E-14	2.02E-14	2.56E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132664	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	6.37E-16	3.99E-15	8.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132664	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	-1.69E-15	1.94E-14	2.88E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132665	HISS	11/30/10	Gross Alpha/Beta	Gross Alpha	4.57E-15	6.10E-15	8.89E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132665	HISS	11/30/10	Gross Alpha/Beta	Gross Beta	2.56E-14	2.21E-14	2.96E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132666	HISS	12/01/10	Gross Alpha/Beta	Gross Alpha	-1.35E-15	6.17E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132666	HISS	12/01/10	Gross Alpha/Beta	Gross Beta	2.70E-14	1.45E-14	1.79E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132667	HISS	12/01/10	Gross Alpha/Beta	Gross Alpha	7.48E-15	9.27E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132667	HISS	12/01/10	Gross Alpha/Beta	Gross Beta	2.11E-14	1.43E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132668	HISS	12/01/10	Gross Alpha/Beta	Gross Alpha	1.16E-15	7.43E-15	1.22E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132668	HISS	12/01/10	Gross Alpha/Beta	Gross Beta	3.45E-14	1.59E-14	1.89E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132669	HISS	12/02/10	Gross Alpha/Beta	Gross Alpha	1.13E-15	7.28E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132669	HISS	12/02/10	Gross Alpha/Beta	Gross Beta	2.85E-14	1.50E-14	1.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132670	HISS	12/02/10	Gross Alpha/Beta	Gross Alpha	1.09E-15	7.01E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132670	HISS	12/02/10	Gross Alpha/Beta	Gross Beta	3.55E-14	1.52E-14	1.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132671	HISS	12/02/10	Gross Alpha/Beta	Gross Alpha	-1.40E-15	6.41E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132671	HISS	12/02/10	Gross Alpha/Beta	Gross Beta	4.48E-14	1.67E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125722	HISS Loadout	03/04/10	Gross Alpha/Beta	Gross Alpha	4.82E-15	7.63E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125722	HISS Loadout	03/04/10	Gross Alpha/Beta	Gross Beta	4.74E-14	2.79E-14	3.63E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125723	HISS Loadout	03/04/10	Gross Alpha/Beta	Gross Alpha	4.85E-15	7.67E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125723	HISS Loadout	03/04/10	Gross Alpha/Beta	Gross Beta	3.68E-14	2.72E-14	3.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125724	HISS Loadout	03/03/10	Gross Alpha/Beta	Gross Alpha	9.64E-16	3.80E-15	7.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125724	HISS Loadout	03/03/10	Gross Alpha/Beta	Gross Beta	1.62E-14	1.65E-14	2.28E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125725	HISS Loadout	03/03/10	Gross Alpha/Beta	Gross Alpha	1.01E-15	3.97E-15	8.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125725	HISS Loadout	03/03/10	Gross Alpha/Beta	Gross Beta	2.69E-14	1.80E-14	2.38E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125726	HISS Loadout	03/02/10	Gross Alpha/Beta	Gross Alpha	4.40E-15	5.65E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125726	HISS Loadout	03/02/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.77E-14	2.47E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125727	HISS Loadout	03/02/10	Gross Alpha/Beta	Gross Alpha	5.52E-15	6.08E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125727	HISS Loadout	03/02/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.77E-14	2.47E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125728	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Alpha	1.02E-15	4.01E-15	8.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125728	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Beta	4.91E-15	1.63E-14	2.40E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125729	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Alpha	-7.30E-17	3.37E-15	8.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125729	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Beta	2.92E-14	1.83E-14	2.40E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125730	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	4.83E-15	9.85E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125730	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Beta	7.47E-16	1.92E-14	2.89E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125731	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Alpha	2.53E-15	5.48E-15	9.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125731	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Beta	1.19E-14	2.01E-14	2.89E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125732	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Alpha	-8.70E-17	4.04E-15	9.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125732	HISS Loadout	03/01/10	Gross Alpha/Beta	Gross Beta	1.70E-14	2.05E-14	2.88E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125814	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Alpha	4.30E-15	5.66E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125814	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Beta	-3.04E-15	1.75E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125815	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Alpha	9.87E-16	5.53E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125815	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Beta	1.16E-14	2.68E-14	3.98E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125816	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	6.48E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125816	HISS Loadout	04/08/10	Gross Alpha/Beta	Gross Beta	1.04E-14	2.64E-14	3.95E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125817	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Alpha	2.74E-15	4.55E-15	7.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125817	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Beta	3.67E-14	1.88E-14	2.44E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125818	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Alpha	9.67E-15	7.32E-15	7.57E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125818	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Beta	3.28E-14	1.94E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125819	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Alpha	6.34E-16	3.55E-15	7.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125819	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.76E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125820	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	5.16E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125820	HISS Loadout	04/07/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.77E-14	2.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125821	HISS Loadout	04/06/10	Gross Alpha/Beta	Gross Alpha	6.96E-15	7.78E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125821	HISS Loadout	04/06/10	Gross Alpha/Beta	Gross Beta	3.72E-14	2.56E-14	3.48E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125822	HISS Loadout	04/06/10	Gross Alpha/Beta	Gross Alpha	7.14E-15	7.98E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125822	HISS Loadout	04/06/10	Gross Alpha/Beta	Gross Beta	1.35E-14	2.43E-14	3.57E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125823	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Alpha	6.28E-15	6.19E-15	7.57E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125823	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Beta	1.50E-14	1.80E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125824	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Alpha	6.11E-15	6.02E-15	7.37E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125824	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Beta	1.24E-14	1.73E-14	2.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125825	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Alpha	5.06E-15	5.66E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125825	HISS Loadout	04/05/10	Gross Alpha/Beta	Gross Beta	2.49E-14	1.85E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125848	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	7.36E-15	9.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125848	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Beta	3.99E-14	2.46E-14	3.29E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125849	HISS Loadout	04/13/10	Gross Alpha/Beta	Gross Alpha	3.96E-15	5.22E-15	7.45E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125849	HISS Loadout	04/13/10	Gross Alpha/Beta	Gross Beta	2.79E-14	1.87E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125850	HISS Loadout	04/13/10	Gross Alpha/Beta	Gross Alpha	3.76E-15	6.23E-15	9.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125850	HISS Loadout	04/13/10	Gross Alpha/Beta	Gross Beta	2.42E-14	2.37E-14	3.35E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125851	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Alpha	2.02E-14	1.22E-14	1.08E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125851	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Beta	4.34E-14	2.73E-14	3.66E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125852	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Alpha	5.45E-15	6.09E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125852	HISS Loadout	04/12/10	Gross Alpha/Beta	Gross Beta	3.86E-14	2.08E-14	2.73E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125853	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Alpha	6.55E-16	3.67E-15	7.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125853	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.91E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125854	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Alpha	1.47E-14	1.11E-14	1.15E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125854	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Beta	5.55E-14	2.99E-14	3.92E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125855	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Alpha	7.63E-15	8.53E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125855	HISS Loadout	04/14/10	Gross Alpha/Beta	Gross Beta	2.65E-14	2.69E-14	3.82E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125856	HISS Loadout	04/15/10	Gross Alpha/Beta	Gross Alpha	1.77E-15	4.24E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125856	HISS Loadout	04/15/10	Gross Alpha/Beta	Gross Beta	2.83E-14	1.90E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125857	HISS Loadout	04/15/10	Gross Alpha/Beta	Gross Alpha	2.90E-15	4.80E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125857	HISS Loadout	04/15/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.87E-14	2.58E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127400	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	6.20E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127400	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.39E-14	1.91E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127401	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	7.74E-15	8.28E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127401	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.38E-14	1.91E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127402	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	8.87E-15	2.09E-14	3.52E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127402	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	8.32E-14	4.64E-14	5.99E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127403	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	6.66E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127403	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	4.29E-14	1.64E-14	1.91E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127404	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	2.43E-14	2.60E-14	3.52E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127404	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	4.39E-14	4.20E-14	5.99E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127405	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	8.76E-15	8.44E-15	1.10E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127405	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	2.74E-14	1.46E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127406	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	3.68E-16	5.67E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127406	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	4.13E-14	1.62E-14	1.91E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127407	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Alpha	-3.40E-15	3.86E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127407	HISS Loadout	09/08/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.40E-14	1.96E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127408	HISS Loadout	09/11/10	Gross Alpha/Beta	Gross Alpha	9.69E-15	8.54E-15	1.07E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127408	HISS Loadout	09/11/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.39E-14	1.82E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127409	HISS Loadout	09/09/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	1.18E-14	1.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127409	HISS Loadout	09/09/10	Gross Alpha/Beta	Gross Beta	1.27E-14	1.75E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127410	HISS Loadout	09/12/10	Gross Alpha/Beta	Gross Alpha	6.25E-15	7.58E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127410	HISS Loadout	09/12/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.38E-14	1.83E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127413	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	9.83E-15	1.08E-14	1.27E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127413	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	1.89E-14	1.55E-14	2.04E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127414	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	8.51E-15	1.04E-14	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127414	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.67E-14	2.04E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127415	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	7.00E-16	7.89E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127415	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	7.71E-15	1.36E-14	1.94E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127416	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	6.88E-15	9.63E-15	1.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127416	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	4.47E-14	1.74E-14	1.94E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127417	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	4.42E-15	9.01E-15	1.21E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127417	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	3.46E-14	1.65E-14	1.95E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127418	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	1.06E-14	1.18E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127418	HISS Loadout	09/13/10	Gross Alpha/Beta	Gross Beta	4.00E-14	1.67E-14	1.91E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127419	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Alpha	6.60E-16	7.44E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127419	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Beta	4.29E-14	1.64E-14	1.83E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127420	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Alpha	-5.00E-16	7.00E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127420	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.36E-14	1.82E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127421	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Alpha	8.93E-15	9.79E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127421	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Beta	2.77E-14	1.52E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127422	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Alpha	7.83E-15	9.59E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127422	HISS Loadout	09/14/10	Gross Alpha/Beta	Gross Beta	4.23E-14	1.67E-14	1.87E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127423	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Alpha	3.11E-15	8.46E-15	1.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127423	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.47E-14	1.91E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127424	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Alpha	6.71E-15	9.40E-15	1.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127424	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Beta	6.05E-14	1.84E-14	1.89E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127425	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Alpha	-1.69E-15	6.74E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127425	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Beta	2.99E-14	1.53E-14	1.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127426	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	9.22E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127426	HISS Loadout	09/15/10	Gross Alpha/Beta	Gross Beta	4.13E-14	1.65E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127427	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	3.60E-16	5.54E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127427	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.38E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127428	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	-8.39E-16	5.00E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127428	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	1.44E-14	1.31E-14	1.86E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127429	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	3.55E-16	5.47E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127429	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	7.43E-15	1.22E-14	1.84E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127430	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	6.26E-15	7.60E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127430	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.30E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127431	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	8.37E-15	8.06E-15	1.05E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127431	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	4.15E-14	1.55E-14	1.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127432	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	2.75E-15	6.47E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127432	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	2.27E-14	1.40E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127433	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Alpha	-2.10E-15	4.52E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127433	HISS Loadout	09/16/10	Gross Alpha/Beta	Gross Beta	4.62E-15	1.23E-14	1.92E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127434	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Alpha	1.20E-14	8.35E-15	8.33E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127434	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Beta	6.88E-14	2.16E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127435	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Alpha	1.55E-14	9.24E-15	8.28E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127435	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Beta	6.15E-14	2.10E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127436	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	8.37E-15	8.35E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127436	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Beta	6.67E-14	2.15E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127437	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Alpha	8.57E-15	7.34E-15	8.38E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127437	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Beta	7.85E-14	2.24E-14	2.62E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127438	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Alpha	9.78E-15	7.74E-15	8.41E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127438	HISS Loadout	09/20/10	Gross Alpha/Beta	Gross Beta	5.16E-14	2.05E-14	2.63E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127439	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.24E-15	8.22E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127439	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Beta	5.80E-14	2.06E-14	2.57E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127440	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Alpha	9.88E-15	7.82E-15	8.50E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127440	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Beta	5.92E-14	2.12E-14	2.66E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127441	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Alpha	2.30E-14	1.11E-14	8.50E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127441	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Beta	5.37E-14	2.08E-14	2.66E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127442	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.21E-15	8.19E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127442	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Beta	5.25E-14	2.01E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127443	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Alpha	9.63E-15	7.62E-15	8.28E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127443	HISS Loadout	09/21/10	Gross Alpha/Beta	Gross Beta	4.78E-14	1.99E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127444	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Alpha	6.50E-15	7.88E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127444	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Beta	3.94E-14	2.42E-14	3.39E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127445	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	6.52E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127445	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Beta	3.10E-14	2.32E-14	3.35E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127446	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Alpha	7.09E-15	6.67E-15	8.04E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127446	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Beta	2.18E-14	1.73E-14	2.52E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127447	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Alpha	4.83E-15	5.86E-15	8.05E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127447	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.84E-14	2.52E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127448	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Alpha	3.69E-15	5.38E-15	8.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127448	HISS Loadout	09/22/10	Gross Alpha/Beta	Gross Beta	6.63E-14	2.08E-14	2.51E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127449	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Alpha	7.28E-15	6.84E-15	8.25E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127449	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Beta	9.03E-14	2.29E-14	2.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127450	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Alpha	3.94E-15	5.76E-15	8.58E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127450	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Beta	6.22E-14	2.16E-14	2.69E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127451	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	7.91E-15	8.22E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127451	HISS Loadout	09/23/10	Gross Alpha/Beta	Gross Beta	6.03E-14	2.07E-14	2.57E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127452	HISS Loadout	09/25/10	Gross Alpha/Beta	Gross Alpha	4.84E-15	5.87E-15	8.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127452	HISS Loadout	09/25/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.74E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127513	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	9.04E-15	7.39E-15	8.29E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127513	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	5.62E-14	2.12E-14	2.71E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127514	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	8.23E-15	8.37E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127514	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	5.68E-14	2.14E-14	2.73E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127515	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.20E-15	8.34E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127515	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	6.59E-14	2.20E-14	2.72E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127516	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	8.17E-15	7.29E-15	8.66E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127516	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	7.25E-14	2.32E-14	2.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127517	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	1.97E-14	1.03E-14	8.20E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127517	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	6.79E-14	2.19E-14	2.68E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127518	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Alpha	1.44E-14	9.20E-15	8.62E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127518	HISS Loadout	10/18/10	Gross Alpha/Beta	Gross Beta	8.35E-14	2.39E-14	2.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127519	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	5.53E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127519	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Beta	2.03E-14	1.83E-14	2.68E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127520	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Alpha	5.57E-16	3.62E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127520	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Beta	3.55E-14	1.94E-14	2.67E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127521	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Alpha	8.84E-15	7.23E-15	8.11E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127521	HISS Loadout	10/19/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.93E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127522	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Alpha	6.94E-15	6.86E-15	8.69E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127522	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Beta	3.21E-14	2.02E-14	2.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127523	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Alpha	1.88E-14	1.01E-14	8.32E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127523	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Beta	4.32E-14	2.03E-14	2.72E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127524	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Alpha	4.79E-15	6.37E-15	9.46E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127524	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Beta	2.17E-14	2.09E-14	3.09E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127525	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Alpha	5.53E-15	6.21E-15	8.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127525	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Beta	3.68E-14	2.01E-14	2.76E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127526	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	8.42E-15	9.44E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127526	HISS Loadout	10/20/10	Gross Alpha/Beta	Gross Beta	3.66E-14	2.21E-14	3.08E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127527	HISS Loadout	10/21/10	Gross Alpha/Beta	Gross Alpha	5.26E-15	5.99E-15	8.41E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127527	HISS Loadout	10/21/10	Gross Alpha/Beta	Gross Beta	1.67E-15	1.93E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127531	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Alpha	5.88E-15	6.35E-15	8.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127531	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.64E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127532	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Alpha	2.55E-15	5.18E-15	8.71E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127532	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Beta	4.18E-14	1.91E-14	2.65E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127533	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Alpha	7.25E-15	6.97E-15	8.60E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127533	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Beta	5.33E-14	1.98E-14	2.62E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127534	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Alpha	6.16E-15	6.65E-15	8.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127534	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Beta	3.03E-14	1.82E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127535	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Alpha	-1.03E-15	3.06E-15	8.61E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127535	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.69E-14	2.62E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127536	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	5.63E-15	8.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127536	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Beta	-2.70E-15	1.49E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127537	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Alpha	3.69E-15	5.61E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127537	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.65E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127538	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Alpha	2.59E-15	5.26E-15	8.84E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127538	HISS Loadout	10/26/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.73E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127539	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Alpha	2.51E-15	5.09E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127539	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.66E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127540	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	5.21E-15	8.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127540	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Beta	3.81E-14	1.89E-14	2.66E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129081	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Alpha	7.37E-15	8.96E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129081	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.30E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129082	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Alpha	-9.53E-16	6.39E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129082	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Beta	1.94E-14	1.37E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129083	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Alpha	2.62E-15	7.60E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129083	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Beta	1.56E-14	1.32E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129084	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Alpha	4.34E-15	9.07E-15	1.25E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129084	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.57E-14	2.09E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129085	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Alpha	1.62E-15	8.17E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129085	HISS Loadout	07/21/10	Gross Alpha/Beta	Gross Beta	6.47E-15	1.36E-14	2.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129086	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Alpha	3.42E-15	9.90E-15	1.43E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129086	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Beta	1.44E-14	1.65E-14	2.40E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129087	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	1.15E-14	1.37E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129087	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Beta	3.63E-14	1.83E-14	2.28E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129088	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Alpha	1.52E-14	1.27E-14	1.37E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129088	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Beta	3.84E-14	1.86E-14	2.30E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129089	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Alpha	5.87E-15	9.76E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129089	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.56E-14	2.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129090	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Alpha	-1.12E-15	7.53E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129090	HISS Loadout	07/19/10	Gross Alpha/Beta	Gross Beta	2.28E-14	1.61E-14	2.17E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129121	HISS Loadout	08/07/10	Gross Alpha/Beta	Gross Alpha	7.86E-15	6.92E-15	8.44E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129121	HISS Loadout	08/07/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.89E-14	2.57E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129122	HISS Loadout	08/07/10	Gross Alpha/Beta	Gross Alpha	1.24E-14	8.27E-15	8.44E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129122	HISS Loadout	08/07/10	Gross Alpha/Beta	Gross Beta	4.38E-14	2.04E-14	2.57E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129123	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.32E-15	7.83E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129123	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Beta	5.20E-14	2.14E-14	2.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129124	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Alpha	6.73E-15	6.55E-15	8.44E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129124	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Beta	4.09E-14	2.02E-14	2.57E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129125	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Alpha	9.86E-15	7.43E-15	8.22E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129125	HISS Loadout	08/08/10	Gross Alpha/Beta	Gross Beta	3.55E-14	1.93E-14	2.50E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129140	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Alpha	1.37E-14	9.76E-15	1.14E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129140	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Beta	4.70E-14	1.59E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129141	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Alpha	7.80E-15	8.19E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129141	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Beta	4.24E-14	1.54E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129142	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Alpha	1.61E-14	1.03E-14	1.14E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129142	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.48E-14	1.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129143	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Alpha	1.55E-14	1.05E-14	1.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129143	HISS Loadout	08/09/10	Gross Alpha/Beta	Gross Beta	4.51E-14	1.62E-14	1.88E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129144	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	5.52E-15	7.57E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129144	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.48E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129145	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	5.45E-15	7.47E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129145	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.34E-14	1.79E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129146	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	6.65E-15	7.87E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129146	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	4.48E-14	1.57E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129147	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	6.76E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129147	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.37E-14	1.81E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129148	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	5.50E-15	7.54E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129148	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	3.59E-14	1.48E-14	1.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129149	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Alpha	-1.55E-15	4.80E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129149	HISS Loadout	08/10/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.34E-14	1.79E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129150	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	4.28E-15	7.10E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129150	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	2.82E-14	1.39E-14	1.79E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129151	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	6.94E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129151	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	2.92E-14	1.44E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129152	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	7.84E-15	9.28E-15	1.34E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129152	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	2.72E-14	1.58E-14	2.13E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129153	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	9.17E-15	8.71E-15	1.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129153	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.31E-14	1.84E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129154	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	8.50E-15	7.13E-15	8.00E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129154	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	3.11E-14	2.02E-14	2.63E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129155	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Alpha	4.96E-15	5.81E-15	7.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129155	HISS Loadout	08/11/10	Gross Alpha/Beta	Gross Beta	2.47E-14	1.94E-14	2.59E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129156	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Alpha	1.75E-14	9.56E-15	7.91E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129156	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Beta	4.80E-14	2.13E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129157	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Alpha	9.64E-15	7.48E-15	7.98E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129157	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Beta	5.15E-14	2.17E-14	2.63E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129158	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Alpha	6.31E-15	6.45E-15	8.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129158	HISS Loadout	08/15/10	Gross Alpha/Beta	Gross Beta	3.86E-14	2.11E-14	2.68E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129159	HISS Loadout	08/14/10	Gross Alpha/Beta	Gross Alpha	7.70E-15	7.07E-15	8.38E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129159	HISS Loadout	08/14/10	Gross Alpha/Beta	Gross Beta	1.36E-14	1.97E-14	2.76E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129176	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Alpha	2.40E-15	4.85E-15	8.35E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129176	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Beta	1.13E-14	1.74E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129177	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Alpha	5.75E-15	6.18E-15	8.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129177	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.78E-14	2.56E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129178	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Alpha	3.49E-15	5.29E-15	8.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129178	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.82E-14	2.56E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129179	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Alpha	8.03E-15	6.98E-15	8.27E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129179	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Beta	3.65E-14	1.93E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129180	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Alpha	9.11E-15	7.30E-15	8.23E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129180	HISS Loadout	08/16/10	Gross Alpha/Beta	Gross Beta	3.41E-14	1.91E-14	2.56E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129181	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Alpha	6.69E-15	6.40E-15	8.02E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129181	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Beta	2.46E-14	1.79E-14	2.49E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129182	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	4.17E-15	8.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129182	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Beta	2.79E-14	1.84E-14	2.53E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129183	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	5.16E-15	8.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129183	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.71E-14	2.50E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129184	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.09E-15	8.37E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129184	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Beta	3.39E-14	1.93E-14	2.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129185	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Alpha	1.26E-14	8.37E-15	8.32E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129185	HISS Loadout	08/17/10	Gross Alpha/Beta	Gross Beta	2.85E-14	1.88E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129186	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	7.96E-15	8.23E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129186	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Beta	4.59E-14	2.00E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129187	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Alpha	5.79E-15	6.23E-15	8.30E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129187	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Beta	4.11E-14	1.97E-14	2.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129188	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Alpha	5.85E-15	6.30E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129188	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Beta	4.76E-14	2.04E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129189	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	7.69E-15	8.29E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129189	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Beta	4.48E-14	2.00E-14	2.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129190	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Alpha	5.53E-15	7.18E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129190	HISS Loadout	08/18/10	Gross Alpha/Beta	Gross Beta	5.03E-14	1.73E-14	1.79E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129191	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Alpha	-2.91E-15	3.52E-15	1.09E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129191	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.45E-14	1.85E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129192	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Alpha	9.99E-15	9.09E-15	1.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129192	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Beta	4.28E-15	1.39E-14	1.96E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129193	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Alpha	4.54E-15	7.09E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129193	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.49E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129194	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	8.98E-15	1.10E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129194	HISS Loadout	08/21/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.42E-14	1.86E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129195	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Alpha	4.23E-15	6.61E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129195	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Beta	3.87E-14	1.60E-14	1.75E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129196	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Alpha	1.37E-14	9.41E-15	1.04E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129196	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Beta	3.60E-14	1.58E-14	1.76E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129197	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Alpha	6.57E-15	7.39E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129197	HISS Loadout	08/20/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.40E-14	1.75E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129198	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Alpha	1.38E-14	8.69E-15	8.33E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129198	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Beta	5.32E-14	2.07E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129199	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Alpha	1.40E-14	1.51E-14	2.01E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129199	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Beta	5.97E-14	4.47E-14	6.24E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129200	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Alpha	1.37E-14	1.47E-14	1.96E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129200	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Beta	4.61E-14	4.27E-14	6.11E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129201	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.19E-15	8.46E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129201	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Beta	7.08E-14	2.22E-14	2.63E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129202	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	8.20E-15	8.48E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129202	HISS Loadout	08/19/10	Gross Alpha/Beta	Gross Beta	4.73E-14	2.06E-14	2.63E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129207	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Alpha	-4.40E-16	5.89E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129207	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Beta	2.56E-14	1.46E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129208	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Alpha	1.40E-14	1.02E-14	1.17E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129208	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.35E-14	1.86E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129209	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	7.36E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129209	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Beta	4.64E-14	1.69E-14	1.89E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129210	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Alpha	4.34E-15	7.56E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129210	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Beta	1.25E-14	1.30E-14	1.85E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129211	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Alpha	1.89E-15	6.55E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129211	HISS Loadout	08/23/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.39E-14	1.79E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129212	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Alpha	1.95E-15	6.75E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129212	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.44E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129213	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Alpha	1.92E-15	6.66E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129213	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Beta	4.90E-14	1.66E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129214	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Alpha	1.25E-14	9.73E-15	1.14E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129214	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Beta	4.16E-14	1.59E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129215	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Alpha	6.31E-15	9.05E-15	1.32E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129215	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Beta	3.07E-14	1.67E-14	2.11E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129216	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Alpha	3.57E-15	8.13E-15	1.31E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129216	HISS Loadout	08/24/10	Gross Alpha/Beta	Gross Beta	2.71E-14	1.62E-14	2.09E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129217	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	6.95E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129217	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.45E-14	1.90E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129218	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Alpha	9.00E-15	8.83E-15	1.14E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129218	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Beta	4.01E-14	1.58E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129219	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.38E-15	1.17E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129219	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Beta	2.42E-14	1.45E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129220	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Alpha	9.10E-15	8.92E-15	1.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129220	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.41E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129221	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Alpha	7.33E-15	7.41E-15	9.19E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129221	HISS Loadout	08/25/10	Gross Alpha/Beta	Gross Beta	3.07E-14	1.98E-14	2.67E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129222	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	6.19E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129222	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Beta	3.44E-14	2.28E-14	3.07E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129223	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Alpha	2.91E-15	6.13E-15	9.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129223	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Beta	1.96E-14	1.98E-14	2.80E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129224	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Alpha	5.23E-16	5.17E-15	9.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129224	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Beta	4.99E-14	2.23E-14	2.83E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129225	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Alpha	6.56E-15	7.47E-15	9.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129225	HISS Loadout	08/26/10	Gross Alpha/Beta	Gross Beta	2.38E-14	2.04E-14	2.83E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129229	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Alpha	4.92E-16	4.86E-15	9.15E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129229	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Beta	7.41E-15	1.79E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129230	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Alpha	5.25E-15	6.93E-15	9.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129230	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Beta	-5.20E-17	1.80E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129231	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Alpha	1.70E-15	5.59E-15	9.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129231	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.90E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129232	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	6.52E-15	8.97E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129232	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Beta	3.14E-14	1.95E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129233	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Alpha	2.77E-15	5.85E-15	9.19E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129233	HISS Loadout	08/30/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.89E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129234	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Alpha	5.29E-15	6.99E-15	9.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129234	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Beta	2.03E-14	1.99E-14	2.80E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129235	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Alpha	-3.06E-15	3.00E-15	9.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129235	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Beta	9.34E-15	1.89E-14	2.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129236	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Alpha	5.16E-16	5.10E-15	9.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129236	HISS Loadout	08/31/10	Gross Alpha/Beta	Gross Beta	3.08E-15	1.84E-14	2.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129237	HISS Loadout	09/01/10	Gross Alpha/Beta	Gross Alpha	5.23E-16	5.17E-15	9.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129237	HISS Loadout	09/01/10	Gross Alpha/Beta	Gross Beta	-4.02E-15	1.81E-14	2.83E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129238	HISS Loadout	09/02/10	Gross Alpha/Beta	Gross Alpha	8.39E-15	7.68E-15	9.10E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129238	HISS Loadout	09/02/10	Gross Alpha/Beta	Gross Beta	5.89E-15	1.77E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129239	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Alpha	1.63E-15	5.38E-15	9.19E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129239	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Beta	5.19E-15	1.78E-14	2.67E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129240	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Alpha	2.75E-15	5.79E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129240	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Beta	1.43E-15	1.73E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129241	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Alpha	1.62E-15	5.33E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129241	HISS Loadout	09/03/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.84E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129242	HISS Loadout	09/04/10	Gross Alpha/Beta	Gross Alpha	4.85E-16	4.79E-15	9.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129242	HISS Loadout	09/04/10	Gross Alpha/Beta	Gross Beta	5.83E-15	1.76E-14	2.62E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129243	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	8.97E-15	8.64E-15	1.12E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129243	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.45E-14	1.91E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129244	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	5.17E-15	7.36E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129244	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	1.22E-14	1.29E-14	1.87E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129245	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	7.56E-15	8.09E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129245	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.34E-14	1.87E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129246	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Alpha	8.72E-15	1.84E-14	2.89E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129246	HISS Loadout	09/07/10	Gross Alpha/Beta	Gross Beta	-2.84E-14	5.22E-14	8.40E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131521	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	6.09E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131521	HISS Loadout	10/27/10	Gross Alpha/Beta	Gross Beta	3.65E-14	1.84E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131525	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	5.50E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131525	HISS Loadout	10/25/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.65E-14	2.55E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131526	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Alpha	1.38E-15	4.62E-15	8.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131526	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Beta	-2.45E-15	1.90E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131527	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Alpha	1.36E-15	4.55E-15	8.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131527	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Beta	7.58E-15	1.95E-14	2.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131528	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Alpha	4.98E-15	6.19E-15	8.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131528	HISS Loadout	10/28/10	Gross Alpha/Beta	Gross Beta	1.07E-14	1.98E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131529	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Alpha	6.36E-15	6.84E-15	9.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131529	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Beta	1.74E-14	2.09E-14	2.76E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131530	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Alpha	-2.26E-15	1.87E-15	8.79E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131530	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Beta	1.93E-14	2.05E-14	2.70E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131531	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Alpha	3.85E-15	5.81E-15	8.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131531	HISS Loadout	11/01/10	Gross Alpha/Beta	Gross Beta	7.76E-15	1.99E-14	2.74E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131532	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	8.82E-15	9.84E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131532	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Beta	3.20E-14	2.38E-14	3.02E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131533	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	7.00E-15	9.91E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131533	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Beta	2.69E-14	2.35E-14	3.04E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP131534	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Alpha	1.52E-15	5.09E-15	9.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131534	HISS Loadout	11/02/10	Gross Alpha/Beta	Gross Beta	3.32E-15	2.14E-14	2.99E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131535	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Alpha	6.39E-15	6.86E-15	9.05E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131535	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Beta	3.58E-14	2.23E-14	2.78E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131536	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Alpha	7.36E-15	7.04E-15	8.73E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131536	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Beta	2.37E-14	2.07E-14	2.68E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131537	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Alpha	8.72E-15	7.58E-15	8.90E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131537	HISS Loadout	11/03/10	Gross Alpha/Beta	Gross Beta	5.94E-14	2.36E-14	2.73E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131538	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Alpha	2.19E-14	1.07E-14	8.32E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131538	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Beta	2.04E-14	1.96E-14	2.55E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131539	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	6.24E-15	8.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131539	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Beta	1.86E-14	2.06E-14	2.71E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131540	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Alpha	1.38E-15	6.14E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131540	HISS Loadout	11/04/10	Gross Alpha/Beta	Gross Beta	1.16E-14	1.23E-14	1.89E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131545	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Alpha	7.27E-15	8.87E-15	1.33E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131545	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Beta	3.13E-14	1.57E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131546	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Alpha	8.38E-15	9.06E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131546	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Beta	2.69E-14	1.50E-14	1.83E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131547	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Alpha	7.04E-15	8.59E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131547	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Beta	2.14E-14	1.43E-14	1.81E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131548	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Alpha	3.27E-15	7.31E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131548	HISS Loadout	11/08/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.43E-14	1.78E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131549	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	9.90E-15	1.33E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131549	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Beta	3.04E-14	1.56E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131550	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Alpha	-3.68E-16	6.05E-15	1.28E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131550	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Beta	2.56E-14	1.46E-14	1.80E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131551	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	7.12E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131551	HISS Loadout	11/09/10	Gross Alpha/Beta	Gross Beta	2.92E-14	1.52E-14	1.83E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131552	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Alpha	-3.64E-16	5.98E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131552	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Beta	2.79E-15	1.20E-14	1.78E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131553	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Alpha	3.63E-15	8.11E-15	1.40E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131553	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Beta	-3.36E-15	1.25E-14	1.97E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131554	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Alpha	8.32E-15	8.99E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131554	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Beta	3.79E-14	1.60E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131555	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Alpha	7.15E-15	8.72E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131555	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.46E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131556	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Alpha	-4.06E-15	4.33E-15	1.28E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131556	HISS Loadout	11/10/10	Gross Alpha/Beta	Gross Beta	-1.23E-16	1.18E-14	1.80E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131557	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	7.57E-15	1.30E-14	2.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131557	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	3.78E-14	2.39E-14	3.00E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131558	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	-2.70E-15	9.38E-15	2.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131558	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	3.59E-14	2.40E-14	3.04E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131559	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	2.68E-15	6.74E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP131559	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	4.16E-14	1.58E-14	1.92E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131560	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	8.82E-15	8.59E-15	1.04E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131560	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	1.36E-14	1.24E-14	1.87E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131561	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	5.16E-15	7.53E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131561	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	2.14E-14	1.35E-14	1.89E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131562	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Alpha	7.50E-15	8.14E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131562	HISS Loadout	11/11/10	Gross Alpha/Beta	Gross Beta	3.19E-14	1.44E-14	1.85E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131566	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	6.56E-15	7.84E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131566	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	3.81E-14	1.63E-14	1.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131567	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.04E-15	1.14E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131567	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	5.51E-14	1.79E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131568	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	1.65E-15	6.25E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131568	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	3.69E-14	1.65E-14	1.83E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131569	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	1.59E-14	1.07E-14	1.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131569	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	4.77E-14	1.78E-14	1.87E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131570	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	-2.11E-15	4.33E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131570	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	1.07E-14	1.36E-14	1.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131571	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Alpha	5.36E-15	7.50E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131571	HISS Loadout	11/15/10	Gross Alpha/Beta	Gross Beta	4.29E-14	1.68E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131572	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Alpha	6.79E-15	8.12E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131572	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Beta	4.03E-14	1.70E-14	1.85E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131573	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	9.77E-15	1.19E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131573	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Beta	6.29E-14	1.91E-14	1.88E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131574	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Alpha	7.96E-15	8.40E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131574	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Beta	5.64E-14	1.82E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131575	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	9.02E-15	1.14E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131575	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Beta	4.38E-14	1.69E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131576	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Alpha	5.26E-15	7.36E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131576	HISS Loadout	11/16/10	Gross Alpha/Beta	Gross Beta	4.43E-14	1.67E-14	1.76E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131577	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	1.58E-14	1.27E-14	1.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131577	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	4.43E-14	2.16E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131578	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	3.88E-15	8.96E-15	1.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131578	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	3.38E-14	2.05E-14	2.43E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131579	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	5.32E-15	7.44E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131579	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	2.40E-14	1.50E-14	1.78E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131580	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	2.06E-16	5.71E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131580	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	2.07E-14	1.30E-14	1.77E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131581	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	6.38E-15	7.94E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131581	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	4.44E-14	1.55E-14	1.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131582	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	9.16E-15	1.12E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131582	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	4.93E-14	1.57E-14	1.73E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131583	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Alpha	9.02E-15	8.84E-15	1.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131583	HISS Loadout	11/17/10	Gross Alpha/Beta	Gross Beta	4.60E-14	1.58E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP131584	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Alpha	9.12E-15	8.95E-15	1.18E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131584	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Beta	5.80E-14	1.71E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131585	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Alpha	8.90E-15	8.73E-15	1.15E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131585	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.33E-14	1.78E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131586	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Alpha	2.73E-15	6.82E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131586	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Beta	3.39E-14	1.46E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131587	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Alpha	-2.22E-15	4.43E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131587	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Beta	3.34E-14	1.42E-14	1.74E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131588	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	7.28E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131588	HISS Loadout	11/18/10	Gross Alpha/Beta	Gross Beta	3.85E-14	1.51E-14	1.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131590	HISS Loadout	11/20/10	Gross Alpha/Beta	Gross Alpha	7.57E-15	1.11E-14	1.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131590	HISS Loadout	11/20/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.84E-14	2.60E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131591	HISS Loadout	11/21/10	Gross Alpha/Beta	Gross Alpha	1.72E-15	7.40E-15	1.36E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131591	HISS Loadout	11/21/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.47E-14	2.11E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131592	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Alpha	5.30E-15	7.78E-15	1.18E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131592	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Beta	3.20E-14	1.46E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131593	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Alpha	2.03E-16	5.63E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131593	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Beta	2.99E-14	1.39E-14	1.75E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131594	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Alpha	5.13E-15	7.53E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131594	HISS Loadout	11/23/10	Gross Alpha/Beta	Gross Beta	2.88E-14	1.39E-14	1.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131595	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	7.41E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131595	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.31E-14	1.84E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131596	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Alpha	1.45E-15	6.28E-15	1.15E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131596	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.30E-14	1.79E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131597	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Alpha	6.63E-15	8.25E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131597	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Beta	3.07E-14	1.45E-14	1.84E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131598	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.91E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP131598	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Beta	2.86E-14	1.35E-14	1.71E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP131599	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Alpha	9.73E-15	8.71E-15	1.10E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131599	HISS Loadout	11/22/10	Gross Alpha/Beta	Gross Beta	2.21E-14	1.28E-14	1.71E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132674	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	9.16E-15	7.56E-15	9.00E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132674	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	5.06E-14	2.07E-14	2.67E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132675	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	8.23E-15	7.41E-15	9.28E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132675	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	4.67E-14	2.10E-14	2.75E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132676	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	8.24E-15	8.98E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132676	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	5.21E-14	2.08E-14	2.66E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132677	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	9.88E-16	4.52E-15	9.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132677	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	1.54E-14	1.88E-14	2.81E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132678	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	8.43E-15	9.19E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132678	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	4.39E-14	2.06E-14	2.72E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132679	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Alpha	9.33E-15	7.70E-15	9.17E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132679	HISS Loadout	12/06/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.97E-14	2.72E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132680	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Alpha	9.10E-15	7.51E-15	8.95E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP132680	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Beta	5.49E-14	2.09E-14	2.65E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132681	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Alpha	9.30E-15	7.67E-15	9.14E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132681	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Beta	6.23E-14	2.18E-14	2.71E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132682	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Alpha	4.38E-15	5.81E-15	8.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132682	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Beta	4.59E-14	2.01E-14	2.62E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132683	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Alpha	7.17E-15	7.14E-15	9.47E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132683	HISS Loadout	12/07/10	Gross Alpha/Beta	Gross Beta	6.70E-14	2.28E-14	2.81E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132684	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Alpha	5.52E-15	6.23E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132684	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Beta	6.24E-14	2.12E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132685	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	5.10E-15	9.38E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132685	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Beta	5.52E-14	2.18E-14	2.78E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132686	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Alpha	9.26E-15	7.64E-15	9.10E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132686	HISS Loadout	12/08/10	Gross Alpha/Beta	Gross Beta	3.18E-14	1.95E-14	2.70E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132690	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Alpha	1.31E-14	1.20E-14	1.42E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132690	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Beta	4.85E-14	1.85E-14	2.14E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132691	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Alpha	4.21E-15	9.51E-15	1.42E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132691	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Beta	7.53E-14	2.09E-14	2.14E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132692	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Alpha	6.26E-15	9.06E-15	1.24E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132692	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Beta	3.92E-14	1.58E-14	1.87E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132693	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Alpha	1.04E-15	7.15E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132693	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Beta	5.49E-14	1.68E-14	1.80E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132694	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Alpha	7.51E-15	9.37E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132694	HISS Loadout	12/09/10	Gross Alpha/Beta	Gross Beta	7.76E-14	1.91E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132696	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Alpha	4.37E-15	5.79E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132696	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Beta	9.79E-15	1.71E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132697	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Alpha	3.27E-15	5.40E-15	8.95E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132697	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Beta	2.44E-14	1.86E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132698	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Alpha	-1.39E-15	2.69E-15	8.88E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132698	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.74E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132699	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Alpha	-2.37E-16	3.64E-15	9.10E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132699	HISS Loadout	12/15/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.81E-14	2.70E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132700	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Alpha	3.72E-15	7.50E-15	1.25E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132700	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.45E-14	2.07E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132701	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	9.81E-15	1.25E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132701	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Beta	3.90E-14	1.68E-14	2.07E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132702	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	7.39E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132702	HISS Loadout	12/23/10	Gross Alpha/Beta	Gross Beta	3.01E-14	1.57E-14	2.04E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132703	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Alpha	8.36E-15	8.38E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132703	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Beta	5.60E-14	1.70E-14	1.84E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132704	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Alpha	8.36E-15	8.38E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132704	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Beta	4.31E-14	1.58E-14	1.84E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132705	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Alpha	6.99E-15	7.87E-15	1.10E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132705	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Beta	5.22E-14	1.65E-14	1.82E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP132706	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Alpha	1.10E-14	9.18E-15	1.12E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132706	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Beta	4.20E-14	1.58E-14	1.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132707	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Alpha	7.05E-15	7.93E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132707	HISS Loadout	12/20/10	Gross Alpha/Beta	Gross Beta	7.81E-14	1.88E-14	1.83E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132708	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	9.09E-15	1.07E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132708	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Beta	4.66E-14	1.57E-14	1.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132709	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Alpha	6.83E-15	7.68E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132709	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Beta	4.51E-14	1.56E-14	1.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132710	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.76E-15	1.07E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132710	HISS Loadout	12/21/10	Gross Alpha/Beta	Gross Beta	5.89E-14	1.68E-14	1.77E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132711	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Alpha	3.19E-15	9.61E-15	1.73E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132711	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Beta	5.98E-14	2.39E-14	2.86E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132712	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	9.20E-15	1.17E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132712	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Beta	4.37E-14	1.65E-14	1.94E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132713	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Alpha	9.95E-15	9.05E-15	1.15E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132713	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.53E-14	1.91E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132714	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Alpha	7.55E-15	8.50E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132714	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.57E-14	1.96E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP132715	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Alpha	3.21E-15	9.67E-15	1.74E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132715	HISS Loadout	12/22/10	Gross Alpha/Beta	Gross Beta	4.37E-14	2.23E-14	2.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132720	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Alpha	-4.73E-16	5.19E-15	1.14E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132720	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.31E-14	1.89E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP132721	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Alpha	4.63E-15	7.24E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132721	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Beta	2.30E-14	1.39E-14	1.87E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP132722	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Alpha	2.08E-15	6.27E-15	1.13E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP132722	HISS Loadout	12/30/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.30E-14	1.87E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125733	Stone Container	03/04/10	Gross Alpha/Beta	Gross Alpha	-7.30E-17	3.40E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125733	Stone Container	03/04/10	Gross Alpha/Beta	Gross Beta	3.31E-14	1.88E-14	2.42E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125734	Stone Container	03/04/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	5.10E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125734	Stone Container	03/04/10	Gross Alpha/Beta	Gross Beta	3.09E-14	1.86E-14	2.42E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125735	Stone Container	03/03/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	4.16E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125735	Stone Container	03/03/10	Gross Alpha/Beta	Gross Beta	3.18E-14	1.91E-14	2.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125736	Stone Container	03/03/10	Gross Alpha/Beta	Gross Alpha	-7.50E-17	3.49E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125736	Stone Container	03/03/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.81E-14	2.49E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125737	Stone Container	03/02/10	Gross Alpha/Beta	Gross Alpha	-1.23E-15	2.71E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125737	Stone Container	03/02/10	Gross Alpha/Beta	Gross Beta	1.58E-14	1.81E-14	2.54E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125738	Stone Container	03/02/10	Gross Alpha/Beta	Gross Alpha	3.28E-15	5.19E-15	8.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125738	Stone Container	03/02/10	Gross Alpha/Beta	Gross Beta	3.67E-14	1.93E-14	2.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125739	Stone Container	03/01/10	Gross Alpha/Beta	Gross Alpha	4.21E-15	6.66E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125739	Stone Container	03/01/10	Gross Alpha/Beta	Gross Beta	1.78E-14	2.25E-14	3.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125740	Stone Container	03/01/10	Gross Alpha/Beta	Gross Alpha	-8.00E-17	3.70E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125740	Stone Container	03/01/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.96E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125826	Stone Container	04/08/10	Gross Alpha/Beta	Gross Alpha	6.23E-15	6.13E-15	7.50E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125826	Stone Container	04/08/10	Gross Alpha/Beta	Gross Beta	1.12E-14	1.75E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125827	Stone Container	04/08/10	Gross Alpha/Beta	Gross Alpha	6.40E-16	3.58E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125827	Stone Container	04/08/10	Gross Alpha/Beta	Gross Beta	4.58E-15	1.71E-14	2.58E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125828	Stone Container	04/08/10	Gross Alpha/Beta	Gross Alpha	2.95E-15	4.89E-15	7.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125828	Stone Container	04/08/10	Gross Alpha/Beta	Gross Beta	3.11E-14	1.96E-14	2.63E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125829	Stone Container	04/07/10	Gross Alpha/Beta	Gross Alpha	1.74E-15	4.16E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125829	Stone Container	04/07/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.76E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125830	Stone Container	04/07/10	Gross Alpha/Beta	Gross Alpha	3.08E-15	7.38E-15	1.32E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125830	Stone Container	04/07/10	Gross Alpha/Beta	Gross Beta	5.58E-14	3.37E-14	4.49E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125831	Stone Container	04/07/10	Gross Alpha/Beta	Gross Alpha	1.69E-15	4.05E-15	7.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125831	Stone Container	04/07/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.75E-14	2.47E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125832	Stone Container	04/06/10	Gross Alpha/Beta	Gross Alpha	6.28E-16	3.52E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125832	Stone Container	04/06/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.82E-14	2.53E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125833	Stone Container	04/06/10	Gross Alpha/Beta	Gross Alpha	6.46E-15	6.37E-15	7.79E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125833	Stone Container	04/06/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.92E-14	2.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125834	Stone Container	04/05/10	Gross Alpha/Beta	Gross Alpha	5.15E-15	5.75E-15	7.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125834	Stone Container	04/05/10	Gross Alpha/Beta	Gross Beta	3.94E-14	1.99E-14	2.57E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125835	Stone Container	04/05/10	Gross Alpha/Beta	Gross Alpha	6.34E-16	3.55E-15	7.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125835	Stone Container	04/05/10	Gross Alpha/Beta	Gross Beta	4.35E-14	2.00E-14	2.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129320	SVP129320	03/22/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	9.45E-15	1.16E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129320	SVP129320	03/22/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.26E-14	1.86E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129321	SVP129321	03/22/10	Gross Alpha/Beta	Gross Alpha	5.81E-15	8.11E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129321	SVP129321	03/22/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.41E-14	1.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129322	SVP129322	03/23/10	Gross Alpha/Beta	Gross Alpha	6.94E-15	5.71E-15	6.77E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129322	SVP129322	03/23/10	Gross Alpha/Beta	Gross Beta	1.12E-14	7.76E-15	1.09E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129323	SVP129323	03/23/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.75E-15	6.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129323	SVP129323	03/23/10	Gross Alpha/Beta	Gross Beta	1.30E-14	7.97E-15	1.09E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129324	SVP129324	03/24/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	6.95E-15	6.88E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129324	SVP129324	03/24/10	Gross Alpha/Beta	Gross Beta	1.23E-14	7.99E-15	1.11E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129325	SVP129325	03/24/10	Gross Alpha/Beta	Gross Alpha	7.72E-15	5.94E-15	6.84E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129325	SVP129325	03/24/10	Gross Alpha/Beta	Gross Beta	1.90E-14	8.69E-15	1.10E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129326	SVP129326	03/29/10	Gross Alpha/Beta	Gross Alpha	1.28E-15	4.07E-15	6.79E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129326	SVP129326	03/29/10	Gross Alpha/Beta	Gross Beta	1.03E-14	7.67E-15	1.09E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129327	SVP129327	03/29/10	Gross Alpha/Beta	Gross Alpha	9.09E-15	6.23E-15	6.79E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129327	SVP129327	03/29/10	Gross Alpha/Beta	Gross Beta	1.76E-14	8.48E-15	1.09E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129328	SVP129328	03/30/10	Gross Alpha/Beta	Gross Alpha	3.10E-15	5.22E-15	7.80E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129328	SVP129328	03/30/10	Gross Alpha/Beta	Gross Beta	2.02E-14	9.75E-15	1.26E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129329	SVP129329	03/30/10	Gross Alpha/Beta	Gross Alpha	2.24E-15	4.87E-15	7.66E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129329	SVP129329	03/30/10	Gross Alpha/Beta	Gross Beta	1.98E-14	9.57E-15	1.23E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129330	SVP129330	03/22/10	Gross Alpha/Beta	Gross Alpha	2.98E-15	6.47E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129330	SVP129330	03/22/10	Gross Alpha/Beta	Gross Beta	1.28E-14	1.12E-14	1.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129331	SVP129331	03/22/10	Gross Alpha/Beta	Gross Alpha	4.05E-15	6.81E-15	1.02E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129331	SVP129331	03/22/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.17E-14	1.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129332	SVP129332	03/23/10	Gross Alpha/Beta	Gross Alpha	2.37E-15	3.99E-15	5.96E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129332	SVP129332	03/23/10	Gross Alpha/Beta	Gross Beta	1.70E-14	7.62E-15	9.60E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129333	SVP129333	03/23/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	4.36E-15	5.96E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129333	SVP129333	03/23/10	Gross Alpha/Beta	Gross Beta	1.74E-14	7.66E-15	9.60E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129334	SVP129334	03/24/10	Gross Alpha/Beta	Gross Alpha	4.90E-15	4.74E-15	6.01E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129334	SVP129334	03/24/10	Gross Alpha/Beta	Gross Beta	1.79E-14	7.76E-15	9.67E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129335	SVP129335	03/14/10	Gross Alpha/Beta	Gross Alpha	1.08E-15	4.80E-15	8.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129335	SVP129335	03/14/10	Gross Alpha/Beta	Gross Beta	6.44E-15	9.82E-15	1.57E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129336	SVP129336	03/29/10	Gross Alpha/Beta	Gross Alpha	8.19E-15	5.31E-15	5.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129336	SVP129336	03/29/10	Gross Alpha/Beta	Gross Beta	7.68E-15	6.69E-15	9.98E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129337	SVP129337	03/29/10	Gross Alpha/Beta	Gross Alpha	1.31E-15	3.30E-15	5.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129337	SVP129337	03/29/10	Gross Alpha/Beta	Gross Beta	-2.27E-15	5.38E-15	9.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129338	SVP129338	03/30/10	Gross Alpha/Beta	Gross Alpha	2.94E-15	4.30E-15	6.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129338	SVP129338	03/30/10	Gross Alpha/Beta	Gross Beta	1.34E-14	8.21E-15	1.15E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129339	SVP129339	04/01/10	Gross Alpha/Beta	Gross Alpha	4.96E-15	4.41E-15	5.14E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129339	SVP129339	04/01/10	Gross Alpha/Beta	Gross Beta	2.27E-14	8.16E-15	9.76E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129340	SVP129340	04/01/10	Gross Alpha/Beta	Gross Alpha	7.02E-15	5.38E-15	5.84E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129340	SVP129340	04/01/10	Gross Alpha/Beta	Gross Beta	2.14E-14	8.83E-15	1.11E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129341	SVP129341	04/01/10	Gross Alpha/Beta	Gross Alpha	9.80E-15	6.06E-15	5.84E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129341	SVP129341	04/01/10	Gross Alpha/Beta	Gross Beta	2.53E-14	9.22E-15	1.11E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129342	SVP129342	04/05/10	Gross Alpha/Beta	Gross Alpha	8.46E-15	1.17E-14	1.78E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129342	SVP129342	04/05/10	Gross Alpha/Beta	Gross Beta	6.57E-14	4.25E-14	5.86E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129343	SVP129343	04/05/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	7.02E-15	1.19E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129343	SVP129343	04/05/10	Gross Alpha/Beta	Gross Beta	3.93E-14	2.80E-14	3.90E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129344	SVP129344	04/06/10	Gross Alpha/Beta	Gross Alpha	6.29E-15	4.53E-15	4.74E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129344	SVP129344	04/06/10	Gross Alpha/Beta	Gross Beta	3.56E-14	1.26E-14	1.55E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129345	SVP129345	04/06/10	Gross Alpha/Beta	Gross Alpha	1.34E-14	6.40E-15	4.86E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129345	SVP129345	04/06/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.14E-14	1.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129346	SVP129346	04/07/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	4.18E-15	4.81E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129346	SVP129346	04/07/10	Gross Alpha/Beta	Gross Beta	2.63E-14	1.21E-14	1.58E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129347	SVP129347	04/07/10	Gross Alpha/Beta	Gross Alpha	2.94E-15	3.41E-15	4.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129347	SVP129347	04/07/10	Gross Alpha/Beta	Gross Beta	3.58E-14	1.27E-14	1.56E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129348	SVP129348	04/08/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	4.10E-15	4.72E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129348	SVP129348	04/08/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.14E-14	1.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129349	SVP129349	04/08/10	Gross Alpha/Beta	Gross Alpha	5.58E-15	4.30E-15	4.70E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129349	SVP129349	04/08/10	Gross Alpha/Beta	Gross Beta	1.38E-14	1.09E-14	1.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129350	SVP129350	04/12/10	Gross Alpha/Beta	Gross Alpha	4.51E-15	4.10E-15	5.00E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129350	SVP129350	04/12/10	Gross Alpha/Beta	Gross Beta	2.26E-14	1.22E-14	1.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129351	SVP129351	04/12/10	Gross Alpha/Beta	Gross Alpha	8.11E-15	5.22E-15	5.02E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129351	SVP129351	04/12/10	Gross Alpha/Beta	Gross Beta	1.85E-14	1.20E-14	1.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129352	SVP129352	04/13/10	Gross Alpha/Beta	Gross Alpha	7.08E-15	4.56E-15	4.39E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129352	SVP129352	04/13/10	Gross Alpha/Beta	Gross Beta	1.94E-14	1.07E-14	1.44E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129353	SVP129353	04/13/10	Gross Alpha/Beta	Gross Alpha	7.72E-15	4.73E-15	4.39E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129353	SVP129353	04/13/10	Gross Alpha/Beta	Gross Beta	2.28E-14	1.10E-14	1.44E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129354	SVP129354	04/14/10	Gross Alpha/Beta	Gross Alpha	7.16E-15	4.86E-15	4.86E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129354	SVP129354	04/14/10	Gross Alpha/Beta	Gross Beta	2.66E-14	1.23E-14	1.60E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129355	SVP129355	04/14/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	4.41E-15	4.60E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129355	SVP129355	04/14/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.12E-14	1.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129356	SVP129356	04/19/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	4.05E-15	4.66E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129356	SVP129356	04/19/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.12E-14	1.53E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129357	SVP129357	04/19/10	Gross Alpha/Beta	Gross Alpha	9.13E-16	2.49E-15	4.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129357	SVP129357	04/19/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.15E-14	1.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129358	SVP129358	04/05/10	Gross Alpha/Beta	Gross Alpha	6.46E-15	7.48E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129358	SVP129358	04/05/10	Gross Alpha/Beta	Gross Beta	3.27E-14	2.45E-14	3.44E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129359	SVP129359	04/05/10	Gross Alpha/Beta	Gross Alpha	9.68E-15	1.12E-14	1.57E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129359	SVP129359	04/05/10	Gross Alpha/Beta	Gross Beta	5.04E-14	3.68E-14	5.15E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129360	SVP129360	04/06/10	Gross Alpha/Beta	Gross Alpha	9.96E-15	5.22E-15	4.28E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129360	SVP129360	04/06/10	Gross Alpha/Beta	Gross Beta	4.18E-14	1.21E-14	1.41E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129361	SVP129361	04/06/10	Gross Alpha/Beta	Gross Alpha	7.91E-15	4.64E-15	4.17E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129361	SVP129361	04/06/10	Gross Alpha/Beta	Gross Beta	3.68E-14	1.15E-14	1.37E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129362	SVP129362	04/07/10	Gross Alpha/Beta	Gross Alpha	3.78E-15	3.44E-15	4.20E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129362	SVP129362	04/07/10	Gross Alpha/Beta	Gross Beta	1.47E-14	9.94E-15	1.38E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129363	SVP129363	04/07/10	Gross Alpha/Beta	Gross Alpha	6.22E-15	4.22E-15	4.23E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129363	SVP129363	04/07/10	Gross Alpha/Beta	Gross Beta	1.72E-14	1.02E-14	1.39E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129364	SVP129364	04/08/10	Gross Alpha/Beta	Gross Alpha	6.12E-15	4.15E-15	4.16E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129364	SVP129364	04/08/10	Gross Alpha/Beta	Gross Beta	1.61E-14	9.97E-15	1.37E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129365	SVP129365	04/08/10	Gross Alpha/Beta	Gross Alpha	1.96E-15	2.71E-15	4.14E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129365	SVP129365	04/08/10	Gross Alpha/Beta	Gross Beta	1.02E-14	9.45E-15	1.36E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129366	SVP129366	04/12/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	3.59E-15	4.38E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129366	SVP129366	04/12/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.09E-14	1.44E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129367	SVP129367	04/13/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	5.31E-15	3.86E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129367	SVP129367	04/13/10	Gross Alpha/Beta	Gross Beta	2.32E-14	9.87E-15	1.27E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129368	SVP129368	04/13/10	Gross Alpha/Beta	Gross Alpha	7.34E-16	2.00E-15	3.87E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129368	SVP129368	04/13/10	Gross Alpha/Beta	Gross Beta	1.57E-15	8.15E-15	1.27E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129369	SVP129369	04/14/10	Gross Alpha/Beta	Gross Alpha	-8.70E-17	2.97E-16	9.16E-16	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129369	SVP129369	04/14/10	Gross Alpha/Beta	Gross Beta	8.86E-16	1.98E-15	3.01E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129370	SVP129370	04/14/10	Gross Alpha/Beta	Gross Alpha	1.40E-15	9.01E-16	8.67E-16	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129370	SVP129370	04/14/10	Gross Alpha/Beta	Gross Beta	4.57E-15	2.17E-15	2.85E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129371	SVP129371	04/19/10	Gross Alpha/Beta	Gross Alpha	4.29E-15	3.57E-15	4.11E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129371	SVP129371	04/19/10	Gross Alpha/Beta	Gross Beta	1.44E-14	9.72E-15	1.35E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129372	SVP129372	04/19/10	Gross Alpha/Beta	Gross Alpha	4.38E-16	6.05E-16	9.22E-16	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129372	SVP129372	04/19/10	Gross Alpha/Beta	Gross Beta	3.05E-15	2.17E-15	3.03E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129373	SVP129373	03/31/10	Gross Alpha/Beta	Gross Alpha	2.02E-15	3.58E-15	6.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129373	SVP129373	03/31/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.35E-14	1.99E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129374	SVP129374	03/31/10	Gross Alpha/Beta	Gross Alpha	3.28E-15	4.53E-15	6.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129374	SVP129374	03/31/10	Gross Alpha/Beta	Gross Beta	4.22E-14	1.77E-14	2.27E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129375	SVP129375	03/31/10	Gross Alpha/Beta	Gross Alpha	9.46E-15	6.09E-15	5.86E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129375	SVP129375	03/31/10	Gross Alpha/Beta	Gross Beta	1.78E-14	1.37E-14	1.93E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129380	SVP129380	04/20/10	Gross Alpha/Beta	Gross Alpha	2.23E-15	5.00E-15	8.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129380	SVP129380	04/20/10	Gross Alpha/Beta	Gross Beta	1.35E-14	1.04E-14	1.40E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129381	SVP129381	04/20/10	Gross Alpha/Beta	Gross Alpha	-3.03E-15	2.66E-15	8.62E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129381	SVP129381	04/20/10	Gross Alpha/Beta	Gross Beta	1.88E-14	1.11E-14	1.42E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129382	SVP129382	04/22/10	Gross Alpha/Beta	Gross Alpha	9.34E-15	6.36E-15	7.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129382	SVP129382	04/22/10	Gross Alpha/Beta	Gross Beta	1.54E-14	9.32E-15	1.20E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129383	SVP129383	04/22/10	Gross Alpha/Beta	Gross Alpha	8.60E-15	6.18E-15	7.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129383	SVP129383	04/22/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.03E-14	1.20E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129384	SVP129384	04/26/10	Gross Alpha/Beta	Gross Alpha	3.59E-15	5.03E-15	7.66E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129384	SVP129384	04/26/10	Gross Alpha/Beta	Gross Beta	1.07E-14	9.27E-15	1.26E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129385	SVP129385	04/26/10	Gross Alpha/Beta	Gross Alpha	5.26E-15	5.61E-15	7.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129385	SVP129385	04/26/10	Gross Alpha/Beta	Gross Beta	1.76E-14	1.02E-14	1.29E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129386	SVP129386	04/27/10	Gross Alpha/Beta	Gross Alpha	-1.57E-15	4.53E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129386	SVP129386	04/27/10	Gross Alpha/Beta	Gross Beta	-3.17E-15	1.08E-14	1.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129387	SVP129387	04/27/10	Gross Alpha/Beta	Gross Alpha	2.82E-15	6.31E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129387	SVP129387	04/27/10	Gross Alpha/Beta	Gross Beta	9.41E-15	1.23E-14	1.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129388	SVP129388	04/28/10	Gross Alpha/Beta	Gross Alpha	-2.82E-15	8.11E-15	1.91E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129388	SVP129388	04/28/10	Gross Alpha/Beta	Gross Beta	3.18E-14	2.37E-14	3.16E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129389	SVP129389	04/28/10	Gross Alpha/Beta	Gross Alpha	7.09E-15	1.21E-14	1.94E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129389	SVP129389	04/28/10	Gross Alpha/Beta	Gross Beta	2.21E-14	2.29E-14	3.20E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129390	SVP129390	04/29/10	Gross Alpha/Beta	Gross Alpha	1.08E-14	6.68E-15	7.23E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129390	SVP129390	04/29/10	Gross Alpha/Beta	Gross Beta	1.34E-14	9.10E-15	1.19E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129391	SVP129391	04/29/10	Gross Alpha/Beta	Gross Alpha	8.52E-15	6.12E-15	7.18E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129391	SVP129391	04/29/10	Gross Alpha/Beta	Gross Beta	2.32E-14	1.00E-14	1.19E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129392	SVP129392	04/20/10	Gross Alpha/Beta	Gross Alpha	3.09E-16	1.06E-15	1.92E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129392	SVP129392	04/20/10	Gross Alpha/Beta	Gross Beta	3.70E-15	2.43E-15	3.17E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129393	SVP129393	04/20/10	Gross Alpha/Beta	Gross Alpha	4.20E-16	9.41E-16	1.60E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129393	SVP129393	04/20/10	Gross Alpha/Beta	Gross Beta	2.66E-15	1.98E-15	2.63E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129394	SVP129394	04/22/10	Gross Alpha/Beta	Gross Alpha	2.60E-15	1.38E-15	1.37E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129394	SVP129394	04/22/10	Gross Alpha/Beta	Gross Beta	6.82E-15	2.12E-15	2.25E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129395	SVP129395	04/22/10	Gross Alpha/Beta	Gross Alpha	5.85E-15	5.25E-15	6.18E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129395	SVP129395	04/22/10	Gross Alpha/Beta	Gross Beta	1.63E-14	8.83E-15	1.04E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129396	SVP129396	04/26/10	Gross Alpha/Beta	Gross Alpha	1.03E-14	6.50E-15	6.54E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129396	SVP129396	04/26/10	Gross Alpha/Beta	Gross Beta	1.72E-14	9.33E-15	1.10E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129397	SVP129397	04/26/10	Gross Alpha/Beta	Gross Alpha	6.30E-15	5.65E-15	6.66E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129397	SVP129397	04/26/10	Gross Alpha/Beta	Gross Beta	1.89E-14	9.64E-15	1.12E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129398	SVP129398	04/27/10	Gross Alpha/Beta	Gross Alpha	1.86E-15	5.80E-15	9.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129398	SVP129398	04/27/10	Gross Alpha/Beta	Gross Beta	6.75E-16	1.06E-14	1.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129399	SVP129399	04/27/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	6.12E-15	9.11E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129399	SVP129399	04/27/10	Gross Alpha/Beta	Gross Beta	4.36E-15	1.10E-14	1.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129400	SVP129400	04/28/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	1.16E-14	1.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129400	SVP129400	04/28/10	Gross Alpha/Beta	Gross Beta	3.80E-14	2.31E-14	2.77E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129401	SVP129401	04/28/10	Gross Alpha/Beta	Gross Alpha	-1.84E-15	8.51E-15	1.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129401	SVP129401	04/28/10	Gross Alpha/Beta	Gross Beta	3.42E-14	2.25E-14	2.74E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129402	SVP129402	04/29/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	4.53E-15	6.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129402	SVP129402	04/29/10	Gross Alpha/Beta	Gross Beta	1.83E-14	9.00E-15	1.03E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129403	SVP129403	04/29/10	Gross Alpha/Beta	Gross Alpha	6.04E-16	3.68E-15	6.12E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129403	SVP129403	04/29/10	Gross Alpha/Beta	Gross Beta	9.53E-15	8.09E-15	1.03E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129404	SVP129404	05/03/10	Gross Alpha/Beta	Gross Alpha	4.90E-15	5.30E-15	6.68E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129404	SVP129404	05/03/10	Gross Alpha/Beta	Gross Beta	1.27E-14	9.06E-15	1.12E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129405	SVP129405	05/03/10	Gross Alpha/Beta	Gross Alpha	3.41E-15	4.80E-15	6.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129405	SVP129405	05/03/10	Gross Alpha/Beta	Gross Beta	1.06E-14	8.68E-15	1.10E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129406	SVP129406	05/04/10	Gross Alpha/Beta	Gross Alpha	3.68E-15	5.19E-15	7.06E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129406	SVP129406	05/04/10	Gross Alpha/Beta	Gross Beta	2.00E-14	1.02E-14	1.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129407	SVP129407	05/04/10	Gross Alpha/Beta	Gross Alpha	4.40E-15	5.36E-15	7.01E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129407	SVP129407	05/04/10	Gross Alpha/Beta	Gross Beta	9.49E-15	9.12E-15	1.17E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129408	SVP129408	05/10/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	4.34E-15	6.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129408	SVP129408	05/10/10	Gross Alpha/Beta	Gross Beta	1.14E-14	8.68E-15	1.08E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129409	SVP129409	05/10/10	Gross Alpha/Beta	Gross Alpha	2.69E-15	4.55E-15	6.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129409	SVP129409	05/10/10	Gross Alpha/Beta	Gross Beta	1.27E-14	8.81E-15	1.08E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129410	SVP129410	05/11/10	Gross Alpha/Beta	Gross Alpha	6.22E-16	5.49E-15	1.07E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129410	SVP129410	05/11/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.32E-14	1.77E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129411	SVP129411	05/11/10	Gross Alpha/Beta	Gross Alpha	4.98E-15	6.98E-15	1.06E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129411	SVP129411	05/11/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.31E-14	1.75E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129412	SVP129412	05/03/10	Gross Alpha/Beta	Gross Alpha	3.46E-15	4.18E-15	6.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129412	SVP129412	05/03/10	Gross Alpha/Beta	Gross Beta	1.60E-14	8.12E-15	1.00E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129413	SVP129413	05/03/10	Gross Alpha/Beta	Gross Alpha	3.39E-15	4.09E-15	5.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129413	SVP129413	05/03/10	Gross Alpha/Beta	Gross Beta	1.76E-14	8.13E-15	9.80E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129414	SVP129414	05/04/10	Gross Alpha/Beta	Gross Alpha	3.66E-15	4.42E-15	6.41E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129414	SVP129414	05/04/10	Gross Alpha/Beta	Gross Beta	1.23E-14	8.12E-15	1.06E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129415	SVP129415	05/04/10	Gross Alpha/Beta	Gross Alpha	1.68E-15	3.75E-15	6.36E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129415	SVP129415	05/04/10	Gross Alpha/Beta	Gross Beta	1.22E-14	8.05E-15	1.05E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129416	SVP129416	05/10/10	Gross Alpha/Beta	Gross Alpha	5.18E-15	4.57E-15	5.89E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129416	SVP129416	05/10/10	Gross Alpha/Beta	Gross Beta	6.72E-15	6.97E-15	9.73E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129417	SVP129417	05/10/10	Gross Alpha/Beta	Gross Alpha	5.73E-15	4.68E-15	5.84E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129417	SVP129417	05/10/10	Gross Alpha/Beta	Gross Beta	8.18E-15	7.07E-15	9.64E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129418	SVP129418	05/11/10	Gross Alpha/Beta	Gross Alpha	5.37E-15	6.47E-15	9.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129418	SVP129418	05/11/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.23E-14	1.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129419	SVP129419	05/11/10	Gross Alpha/Beta	Gross Alpha	4.39E-15	6.15E-15	9.36E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129419	SVP129419	05/11/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.23E-14	1.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129420	SVP129420	06/02/10	Gross Alpha/Beta	Gross Alpha	-4.18E-16	4.42E-15	9.40E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129420	SVP129420	06/02/10	Gross Alpha/Beta	Gross Beta	3.36E-15	1.03E-14	1.55E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129421	SVP129421	06/02/10	Gross Alpha/Beta	Gross Alpha	-1.36E-15	3.92E-15	9.26E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129421	SVP129421	06/02/10	Gross Alpha/Beta	Gross Beta	6.33E-15	1.05E-14	1.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP129422	SVP129422	06/02/10	Gross Alpha/Beta	Gross Alpha	2.98E-15	5.08E-15	8.13E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129422	SVP129422	06/02/10	Gross Alpha/Beta	Gross Beta	4.50E-15	9.07E-15	1.34E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129423	SVP129423	06/02/10	Gross Alpha/Beta	Gross Alpha	-1.22E-15	3.50E-15	8.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129423	SVP129423	06/02/10	Gross Alpha/Beta	Gross Beta	1.11E-14	9.96E-15	1.37E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123301	VP-02L Stone Container	01/04/10	Gross Alpha/Beta	Gross Alpha	2.32E-15	5.04E-15	9.03E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123301	VP-02L Stone Container	01/04/10	Gross Alpha/Beta	Gross Beta	2.01E-14	1.90E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123302	VP-02L Stone Container	01/06/10	Gross Alpha/Beta	Gross Alpha	-8.40E-17	3.91E-15	9.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123302	VP-02L Stone Container	01/06/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.94E-14	2.74E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123303	VP-02L Stone Container	01/14/10	Gross Alpha/Beta	Gross Alpha	-8.00E-17	3.70E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123303	VP-02L Stone Container	01/14/10	Gross Alpha/Beta	Gross Beta	4.23E-14	2.09E-14	2.64E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123330	VP-02L Stone Container	01/20/10	Gross Alpha/Beta	Gross Alpha	6.95E-15	6.79E-15	8.81E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123330	VP-02L Stone Container	01/20/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.96E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123331	VP-02L Stone Container	01/19/10	Gross Alpha/Beta	Gross Alpha	1.14E-15	4.49E-15	9.16E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123331	VP-02L Stone Container	01/19/10	Gross Alpha/Beta	Gross Beta	2.63E-14	2.00E-14	2.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123332	VP-02L Stone Container	01/18/10	Gross Alpha/Beta	Gross Alpha	1.12E-15	4.40E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123332	VP-02L Stone Container	01/18/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.87E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123333	VP-02L Stone Container	01/28/10	Gross Alpha/Beta	Gross Alpha	7.23E-15	7.06E-15	9.16E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123333	VP-02L Stone Container	01/28/10	Gross Alpha/Beta	Gross Beta	2.95E-14	2.03E-14	2.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123334	VP-02L Stone Container	01/27/10	Gross Alpha/Beta	Gross Alpha	2.27E-15	4.91E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123334	VP-02L Stone Container	01/27/10	Gross Alpha/Beta	Gross Beta	2.61E-14	1.93E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123335	VP-02L Stone Container	01/26/10	Gross Alpha/Beta	Gross Alpha	8.05E-15	7.12E-15	8.72E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123335	VP-02L Stone Container	01/26/10	Gross Alpha/Beta	Gross Beta	3.20E-14	1.96E-14	2.56E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123336	VP-02L Stone Container	01/25/10	Gross Alpha/Beta	Gross Alpha	1.12E-15	4.40E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123336	VP-02L Stone Container	01/25/10	Gross Alpha/Beta	Gross Beta	4.94E-14	2.14E-14	2.64E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123373	VP-02L Stone Container	02/01/10	Gross Alpha/Beta	Gross Alpha	6.95E-15	8.93E-15	1.33E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123373	VP-02L Stone Container	02/01/10	Gross Alpha/Beta	Gross Beta	3.47E-14	2.87E-14	3.90E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123374	VP-02L Stone Container	02/02/10	Gross Alpha/Beta	Gross Alpha	7.78E-15	7.59E-15	9.85E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123374	VP-02L Stone Container	02/02/10	Gross Alpha/Beta	Gross Beta	3.52E-14	2.21E-14	2.89E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123375	VP-02L Stone Container	02/03/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	8.40E-15	9.35E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123375	VP-02L Stone Container	02/03/10	Gross Alpha/Beta	Gross Beta	5.88E-14	2.29E-14	2.74E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123376	VP-02L Stone Container	02/03/10	Gross Alpha/Beta	Gross Alpha	9.77E-15	7.94E-15	9.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123376	VP-02L Stone Container	02/03/10	Gross Alpha/Beta	Gross Beta	5.41E-14	2.23E-14	2.72E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123377	VP-02L Stone Container	02/04/10	Gross Alpha/Beta	Gross Alpha	1.43E-14	9.12E-15	9.02E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP123377	VP-02L Stone Container	02/04/10	Gross Alpha/Beta	Gross Beta	8.12E-14	2.38E-14	2.65E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123378	VP-02L Stone Container	02/04/10	Gross Alpha/Beta	Gross Alpha	7.16E-15	6.99E-15	9.07E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP123378	VP-02L Stone Container	02/04/10	Gross Alpha/Beta	Gross Beta	6.02E-14	2.24E-14	2.66E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP123383	VP-02L Stone Container	02/10/10	Gross Alpha/Beta	Gross Alpha	6.15E-15	7.90E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123383	VP-02L Stone Container	02/10/10	Gross Alpha/Beta	Gross Beta	-2.19E-15	2.26E-14	3.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123384	VP-02L Stone Container	02/10/10	Gross Alpha/Beta	Gross Alpha	-1.67E-15	3.69E-15	1.17E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123384	VP-02L Stone Container	02/10/10	Gross Alpha/Beta	Gross Beta	2.45E-14	2.49E-14	3.45E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123385	VP-02L Stone Container	02/11/10	Gross Alpha/Beta	Gross Alpha	-8.00E-17	3.70E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123385	VP-02L Stone Container	02/11/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.87E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP123386	VP-02L Stone Container	02/11/10	Gross Alpha/Beta	Gross Alpha	-2.47E-15	1.49E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP123386	VP-02L Stone Container	02/11/10	Gross Alpha/Beta	Gross Beta	3.13E-14	2.01E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125690	VP-02L Stone Container	02/15/10	Gross Alpha/Beta	Gross Alpha	-1.13E-16	5.24E-15	1.27E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125690	VP-02L Stone Container	02/15/10	Gross Alpha/Beta	Gross Beta	3.66E-14	2.78E-14	3.74E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125691	VP-02L Stone Container	02/15/10	Gross Alpha/Beta	Gross Alpha	-1.78E-15	3.94E-15	1.26E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125691	VP-02L Stone Container	02/15/10	Gross Alpha/Beta	Gross Beta	1.52E-14	2.57E-14	3.68E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125692	VP-02L Stone Container	02/16/10	Gross Alpha/Beta	Gross Alpha	-2.55E-15	1.54E-15	9.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125692	VP-02L Stone Container	02/16/10	Gross Alpha/Beta	Gross Beta	2.50E-14	2.01E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125693	VP-02L Stone Container	02/16/10	Gross Alpha/Beta	Gross Alpha	4.99E-15	6.42E-15	9.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125693	VP-02L Stone Container	02/16/10	Gross Alpha/Beta	Gross Beta	2.49E-14	2.07E-14	2.80E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125694	VP-02L Stone Container	02/17/10	Gross Alpha/Beta	Gross Alpha	4.55E-15	5.85E-15	8.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125694	VP-02L Stone Container	02/17/10	Gross Alpha/Beta	Gross Beta	1.97E-14	1.86E-14	2.55E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125695	VP-02L Stone Container	02/17/10	Gross Alpha/Beta	Gross Alpha	9.21E-15	7.49E-15	8.72E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125695	VP-02L Stone Container	02/17/10	Gross Alpha/Beta	Gross Beta	3.81E-14	2.01E-14	2.56E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125696	VP-02L Stone Container	02/18/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	5.55E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125696	VP-02L Stone Container	02/18/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.94E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125697	VP-02L Stone Container	02/18/10	Gross Alpha/Beta	Gross Alpha	2.27E-15	4.91E-15	8.81E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125697	VP-02L Stone Container	02/18/10	Gross Alpha/Beta	Gross Beta	3.00E-14	1.96E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125698	VP-02L Stone Container	02/23/10	Gross Alpha/Beta	Gross Alpha	3.25E-15	5.15E-15	8.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125698	VP-02L Stone Container	02/23/10	Gross Alpha/Beta	Gross Beta	4.58E-14	1.99E-14	2.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125699	VP-02L Stone Container	02/23/10	Gross Alpha/Beta	Gross Alpha	5.57E-15	6.14E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125699	VP-02L Stone Container	02/23/10	Gross Alpha/Beta	Gross Beta	5.85E-14	2.11E-14	2.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125700	VP-02L Stone Container	02/24/10	Gross Alpha/Beta	Gross Alpha	3.61E-15	5.72E-15	9.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125700	VP-02L Stone Container	02/24/10	Gross Alpha/Beta	Gross Beta	2.42E-14	2.00E-14	2.72E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125701	VP-02L Stone Container	02/24/10	Gross Alpha/Beta	Gross Alpha	5.05E-15	6.49E-15	9.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125701	VP-02L Stone Container	02/24/10	Gross Alpha/Beta	Gross Beta	2.69E-14	2.10E-14	2.83E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125702	VP-02L Stone Container	02/25/10	Gross Alpha/Beta	Gross Alpha	2.22E-15	4.82E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125702	VP-02L Stone Container	02/25/10	Gross Alpha/Beta	Gross Beta	3.32E-14	1.95E-14	2.54E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125703	VP-02L Stone Container	02/25/10	Gross Alpha/Beta	Gross Alpha	-7.70E-17	3.59E-15	8.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125703	VP-02L Stone Container	02/25/10	Gross Alpha/Beta	Gross Beta	2.51E-14	1.91E-14	2.56E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125751	VP-02L Stone Container	03/08/10	Gross Alpha/Beta	Gross Alpha	-7.60E-17	3.52E-15	8.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125751	VP-02L Stone Container	03/08/10	Gross Alpha/Beta	Gross Beta	2.61E-14	1.88E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125752	VP-02L Stone Container	03/08/10	Gross Alpha/Beta	Gross Alpha	9.04E-15	7.35E-15	8.56E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125752	VP-02L Stone Container	03/08/10	Gross Alpha/Beta	Gross Beta	2.91E-14	1.91E-14	2.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125753	VP-02L Stone Container	03/10/10	Gross Alpha/Beta	Gross Alpha	-7.70E-17	3.57E-15	8.67E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125753	VP-02L Stone Container	03/10/10	Gross Alpha/Beta	Gross Beta	3.10E-14	1.94E-14	2.55E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125754	VP-02L Stone Container	03/10/10	Gross Alpha/Beta	Gross Alpha	1.07E-15	4.24E-15	8.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125754	VP-02L Stone Container	03/10/10	Gross Alpha/Beta	Gross Beta	2.33E-14	1.88E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125755	VP-02L Stone Container	03/11/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	4.73E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125755	VP-02L Stone Container	03/11/10	Gross Alpha/Beta	Gross Beta	1.62E-14	1.79E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125756	VP-02L Stone Container	03/11/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	5.24E-15	8.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125756	VP-02L Stone Container	03/11/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.77E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125757	VP-02L Stone Container	03/15/10	Gross Alpha/Beta	Gross Alpha	7.34E-15	6.53E-15	7.50E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125757	VP-02L Stone Container	03/15/10	Gross Alpha/Beta	Gross Beta	2.07E-14	1.83E-14	2.56E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125758	VP-02L Stone Container	03/15/10	Gross Alpha/Beta	Gross Alpha	6.17E-15	6.08E-15	7.44E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125758	VP-02L Stone Container	03/15/10	Gross Alpha/Beta	Gross Beta	6.68E-15	1.70E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125759	VP-02L Stone Container	03/16/10	Gross Alpha/Beta	Gross Alpha	-4.98E-16	2.84E-15	7.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125759	VP-02L Stone Container	03/16/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.84E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125760	VP-02L Stone Container	03/16/10	Gross Alpha/Beta	Gross Alpha	2.97E-15	4.92E-15	7.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125760	VP-02L Stone Container	03/16/10	Gross Alpha/Beta	Gross Beta	1.08E-14	1.80E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125761	VP-02L Stone Container	03/17/10	Gross Alpha/Beta	Gross Alpha	7.14E-15	7.04E-15	8.61E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125761	VP-02L Stone Container	03/17/10	Gross Alpha/Beta	Gross Beta	2.97E-14	2.14E-14	2.93E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125762	VP-02L Stone Container	03/17/10	Gross Alpha/Beta	Gross Alpha	7.41E-15	6.59E-15	7.57E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125762	VP-02L Stone Container	03/17/10	Gross Alpha/Beta	Gross Beta	2.98E-14	1.92E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125763	VP-02L Stone Container	03/18/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	5.46E-15	7.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125763	VP-02L Stone Container	03/18/10	Gross Alpha/Beta	Gross Beta	4.16E-14	1.92E-14	2.44E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125764	VP-02L Stone Container	03/18/10	Gross Alpha/Beta	Gross Alpha	1.71E-15	4.08E-15	7.30E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125764	VP-02L Stone Container	03/18/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.73E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125780	VP-02L Stone Container	03/24/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.26E-15	7.50E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125780	VP-02L Stone Container	03/24/10	Gross Alpha/Beta	Gross Beta	2.59E-14	1.87E-14	2.56E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125781	VP-02L Stone Container	03/24/10	Gross Alpha/Beta	Gross Alpha	-4.89E-16	2.78E-15	7.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125781	VP-02L Stone Container	03/24/10	Gross Alpha/Beta	Gross Beta	2.91E-14	1.91E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125782	VP-02L Stone Container	03/23/10	Gross Alpha/Beta	Gross Alpha	6.34E-15	6.25E-15	7.64E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125782	VP-02L Stone Container	03/23/10	Gross Alpha/Beta	Gross Beta	3.16E-14	1.95E-14	2.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125783	VP-02L Stone Container	03/23/10	Gross Alpha/Beta	Gross Alpha	4.00E-15	5.28E-15	7.53E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125783	VP-02L Stone Container	03/23/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.77E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125784	VP-02L Stone Container	03/22/10	Gross Alpha/Beta	Gross Alpha	3.90E-15	5.13E-15	7.33E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125784	VP-02L Stone Container	03/22/10	Gross Alpha/Beta	Gross Beta	1.95E-14	1.78E-14	2.50E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125785	VP-02L Stone Container	03/22/10	Gross Alpha/Beta	Gross Alpha	1.68E-15	4.01E-15	7.18E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125785	VP-02L Stone Container	03/22/10	Gross Alpha/Beta	Gross Beta	1.77E-14	1.73E-14	2.44E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125796	VP-02L Stone Container	03/31/10	Gross Alpha/Beta	Gross Alpha	3.01E-15	4.98E-15	7.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125796	VP-02L Stone Container	03/31/10	Gross Alpha/Beta	Gross Beta	4.02E-14	2.06E-14	2.68E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125797	VP-02L Stone Container	03/31/10	Gross Alpha/Beta	Gross Alpha	3.98E-15	5.25E-15	7.49E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125797	VP-02L Stone Container	03/31/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.77E-14	2.55E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125798	VP-02L Stone Container	03/30/10	Gross Alpha/Beta	Gross Alpha	6.28E-15	6.19E-15	7.57E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125798	VP-02L Stone Container	03/30/10	Gross Alpha/Beta	Gross Beta	2.61E-14	1.89E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125799	VP-02L Stone Container	03/30/10	Gross Alpha/Beta	Gross Alpha	2.95E-15	4.89E-15	7.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125799	VP-02L Stone Container	03/30/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.84E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125800	VP-02L Stone Container	03/29/10	Gross Alpha/Beta	Gross Alpha	-4.94E-16	2.81E-15	7.64E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125800	VP-02L Stone Container	03/29/10	Gross Alpha/Beta	Gross Beta	1.81E-14	1.84E-14	2.60E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125801	VP-02L Stone Container	03/29/10	Gross Alpha/Beta	Gross Alpha	3.07E-15	5.08E-15	8.02E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125801	VP-02L Stone Container	03/29/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.92E-14	2.73E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125802	VP-02L Stone Container	04/01/10	Gross Alpha/Beta	Gross Alpha	3.04E-15	5.03E-15	7.94E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125802	VP-02L Stone Container	04/01/10	Gross Alpha/Beta	Gross Beta	4.14E-14	2.09E-14	2.70E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125803	VP-02L Stone Container	04/01/10	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.12E-15	7.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125803	VP-02L Stone Container	04/01/10	Gross Alpha/Beta	Gross Beta	1.82E-14	1.78E-14	2.51E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125836	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Alpha	7.52E-15	6.69E-15	7.69E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125836	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Beta	2.27E-14	1.89E-14	2.62E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125837	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Alpha	4.00E-15	5.28E-15	7.53E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125837	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.81E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125838	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Alpha	7.62E-15	6.78E-15	7.79E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125838	VP-02L Stone Container	04/13/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.99E-14	2.65E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125839	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	5.21E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125839	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Beta	1.18E-14	1.74E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125840	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Alpha	5.35E-15	5.99E-15	7.86E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125840	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Beta	4.41E-14	2.09E-14	2.68E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP125841	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Alpha	1.14E-14	8.12E-15	8.02E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125841	VP-02L Stone Container	04/12/10	Gross Alpha/Beta	Gross Beta	3.78E-14	2.08E-14	2.73E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125842	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Alpha	1.80E-15	4.32E-15	7.72E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125842	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.90E-14	2.63E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125843	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Alpha	1.33E-14	8.48E-15	7.73E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125843	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Beta	3.57E-14	2.00E-14	2.63E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125844	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Alpha	5.27E-15	5.90E-15	7.75E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125844	VP-02L Stone Container	04/14/10	Gross Alpha/Beta	Gross Beta	2.59E-14	1.92E-14	2.64E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125845	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Alpha	8.54E-15	6.97E-15	7.57E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125845	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Beta	2.91E-14	1.91E-14	2.58E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125846	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Alpha	9.49E-15	7.19E-15	7.44E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125846	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Beta	3.29E-14	1.91E-14	2.53E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125847	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Alpha	2.84E-15	4.71E-15	7.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125847	VP-02L Stone Container	04/15/10	Gross Alpha/Beta	Gross Beta	5.95E-15	1.69E-14	2.53E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125861	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Alpha	4.89E-15	5.74E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125861	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.80E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125862	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Alpha	6.02E-15	6.17E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125862	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.78E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125863	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Alpha	7.15E-15	6.57E-15	7.93E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125863	VP-02L Stone Container	04/19/10	Gross Alpha/Beta	Gross Beta	5.71E-15	1.66E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125864	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Alpha	4.94E-15	5.80E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125864	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Beta	2.67E-14	1.85E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125865	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Alpha	4.94E-15	5.80E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125865	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Beta	2.90E-14	1.87E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125866	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.33E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125866	VP-02L Stone Container	04/20/10	Gross Alpha/Beta	Gross Beta	3.35E-14	1.90E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125867	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Alpha	7.12E-15	6.55E-15	7.90E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125867	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Beta	2.05E-14	1.78E-14	2.60E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125868	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Alpha	3.76E-15	5.28E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125868	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Beta	3.47E-14	1.90E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125869	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Alpha	9.41E-15	7.31E-15	7.93E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125869	VP-02L Stone Container	04/21/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.83E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP125870	VP-02L Stone Container	04/22/10	Gross Alpha/Beta	Gross Alpha	5.96E-15	6.11E-15	7.85E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP125870	VP-02L Stone Container	04/22/10	Gross Alpha/Beta	Gross Beta	5.42E-14	2.03E-14	2.59E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP125871	VP-02L Stone Container	04/22/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.29E-15	7.93E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP125871	VP-02L Stone Container	04/22/10	Gross Alpha/Beta	Gross Beta	4.95E-14	2.01E-14	2.61E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP127343	VP-02L Stone Container	04/28/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.91E-15	8.15E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127343	VP-02L Stone Container	04/28/10	Gross Alpha/Beta	Gross Beta	3.56E-14	1.95E-14	2.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127344	VP-02L Stone Container	04/28/10	Gross Alpha/Beta	Gross Alpha	1.56E-15	4.37E-15	8.23E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127344	VP-02L Stone Container	04/28/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.87E-14	2.71E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127345	VP-02L Stone Container	04/29/10	Gross Alpha/Beta	Gross Alpha	3.76E-16	3.55E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127345	VP-02L Stone Container	04/29/10	Gross Alpha/Beta	Gross Beta	3.76E-14	1.92E-14	2.61E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127346	VP-02L Stone Container	04/29/10	Gross Alpha/Beta	Gross Alpha	3.80E-15	5.33E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127346	VP-02L Stone Container	04/29/10	Gross Alpha/Beta	Gross Beta	2.97E-14	1.87E-14	2.64E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127353	VP-02L Stone Container	05/03/10	Gross Alpha/Beta	Gross Alpha	4.44E-16	3.43E-15	7.70E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127353	VP-02L Stone Container	05/03/10	Gross Alpha/Beta	Gross Beta	2.22E-14	1.97E-14	2.62E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127354	VP-02L Stone Container	05/03/10	Gross Alpha/Beta	Gross Alpha	-6.77E-16	2.66E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127354	VP-02L Stone Container	05/03/10	Gross Alpha/Beta	Gross Beta	6.26E-15	1.87E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127355	VP-02L Stone Container	05/04/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.44E-15	8.13E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127355	VP-02L Stone Container	05/04/10	Gross Alpha/Beta	Gross Beta	1.19E-14	1.99E-14	2.77E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127356	VP-02L Stone Container	05/04/10	Gross Alpha/Beta	Gross Alpha	-6.99E-16	2.75E-15	8.08E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127356	VP-02L Stone Container	05/04/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.99E-14	2.75E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127357	VP-02L Stone Container	05/05/10	Gross Alpha/Beta	Gross Alpha	1.60E-15	4.20E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127357	VP-02L Stone Container	05/05/10	Gross Alpha/Beta	Gross Beta	2.80E-14	2.06E-14	2.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127358	VP-02L Stone Container	05/06/10	Gross Alpha/Beta	Gross Alpha	1.66E-15	4.36E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127358	VP-02L Stone Container	05/06/10	Gross Alpha/Beta	Gross Beta	2.60E-14	2.11E-14	2.79E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127359	VP-02L Stone Container	05/06/10	Gross Alpha/Beta	Gross Alpha	4.73E-16	3.66E-15	8.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127359	VP-02L Stone Container	05/06/10	Gross Alpha/Beta	Gross Beta	1.82E-14	2.05E-14	2.79E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127379	VP-02L Stone Container	05/11/10	Gross Alpha/Beta	Gross Alpha	4.60E-16	3.56E-15	7.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127379	VP-02L Stone Container	05/11/10	Gross Alpha/Beta	Gross Beta	-1.94E-15	1.84E-14	2.72E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127380	VP-02L Stone Container	05/11/10	Gross Alpha/Beta	Gross Alpha	5.01E-15	5.76E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127380	VP-02L Stone Container	05/11/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.97E-14	2.69E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127381	VP-02L Stone Container	05/12/10	Gross Alpha/Beta	Gross Alpha	4.50E-15	7.86E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127381	VP-02L Stone Container	05/12/10	Gross Alpha/Beta	Gross Beta	1.78E-14	3.17E-14	4.43E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127382	VP-02L Stone Container	05/12/10	Gross Alpha/Beta	Gross Alpha	-1.06E-15	4.15E-15	1.22E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127382	VP-02L Stone Container	05/12/10	Gross Alpha/Beta	Gross Beta	-1.80E-14	2.69E-14	4.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127395	VP-02L Stone Container	05/18/10	Gross Alpha/Beta	Gross Alpha	4.28E-16	3.59E-15	7.42E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127395	VP-02L Stone Container	05/18/10	Gross Alpha/Beta	Gross Beta	6.19E-15	1.61E-14	2.47E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127396	VP-02L Stone Container	05/17/10	Gross Alpha/Beta	Gross Alpha	-6.47E-16	2.90E-15	7.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127396	VP-02L Stone Container	05/17/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.70E-14	2.49E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127397	VP-02L Stone Container	05/19/10	Gross Alpha/Beta	Gross Alpha	4.43E-16	3.72E-15	7.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127397	VP-02L Stone Container	05/19/10	Gross Alpha/Beta	Gross Beta	4.23E-15	1.65E-14	2.56E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127398	VP-02L Stone Container	05/19/10	Gross Alpha/Beta	Gross Alpha	5.01E-15	5.95E-15	7.90E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127398	VP-02L Stone Container	05/19/10	Gross Alpha/Beta	Gross Beta	7.34E-15	1.72E-14	2.63E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127528	VP-02L Stone Container	10/19/10	Gross Alpha/Beta	Gross Alpha	2.86E-15	4.94E-15	8.42E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127528	VP-02L Stone Container	10/19/10	Gross Alpha/Beta	Gross Beta	1.17E-14	2.01E-14	2.73E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127529	VP-02L Stone Container	10/20/10	Gross Alpha/Beta	Gross Alpha	7.74E-15	6.96E-15	8.49E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127529	VP-02L Stone Container	10/20/10	Gross Alpha/Beta	Gross Beta	3.75E-14	2.21E-14	2.75E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127754	VP-02L Stone Container	05/24/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.95E-15	7.83E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127754	VP-02L Stone Container	05/24/10	Gross Alpha/Beta	Gross Beta	1.10E-14	1.74E-14	2.61E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127755	VP-02L Stone Container	05/24/10	Gross Alpha/Beta	Gross Alpha	2.69E-15	4.92E-15	7.79E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127755	VP-02L Stone Container	05/24/10	Gross Alpha/Beta	Gross Beta	1.90E-14	1.80E-14	2.60E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127756	VP-02L Stone Container	05/26/10	Gross Alpha/Beta	Gross Alpha	7.22E-15	6.70E-15	7.83E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127756	VP-02L Stone Container	05/26/10	Gross Alpha/Beta	Gross Beta	1.91E-14	1.81E-14	2.61E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127757	VP-02L Stone Container	05/26/10	Gross Alpha/Beta	Gross Alpha	1.61E-15	4.49E-15	7.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127757	VP-02L Stone Container	05/26/10	Gross Alpha/Beta	Gross Beta	1.65E-14	1.81E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127758	VP-02L Stone Container	05/25/10	Gross Alpha/Beta	Gross Alpha	9.39E-15	7.36E-15	7.76E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127758	VP-02L Stone Container	05/25/10	Gross Alpha/Beta	Gross Beta	1.46E-14	1.75E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127759	VP-02L Stone Container	05/25/10	Gross Alpha/Beta	Gross Alpha	4.92E-15	5.84E-15	7.76E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127759	VP-02L Stone Container	05/25/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.91E-14	2.59E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127760	VP-02L Stone Container	05/27/10	Gross Alpha/Beta	Gross Alpha	5.31E-15	6.30E-15	8.37E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127760	VP-02L Stone Container	05/27/10	Gross Alpha/Beta	Gross Beta	2.21E-14	1.94E-14	2.79E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127761	VP-02L Stone Container	05/27/10	Gross Alpha/Beta	Gross Alpha	1.72E-15	4.81E-15	8.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127761	VP-02L Stone Container	05/27/10	Gross Alpha/Beta	Gross Beta	4.03E-14	2.12E-14	2.85E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127788	VP-02L Stone Container	06/01/10	Gross Alpha/Beta	Gross Alpha	1.92E-16	3.56E-15	8.35E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127788	VP-02L Stone Container	06/01/10	Gross Alpha/Beta	Gross Beta	5.69E-15	1.74E-14	2.70E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127789	VP-02L Stone Container	06/01/10	Gross Alpha/Beta	Gross Alpha	3.07E-15	5.93E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127789	VP-02L Stone Container	06/01/10	Gross Alpha/Beta	Gross Beta	2.10E-14	2.25E-14	3.31E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127790	VP-02L Stone Container	06/07/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	5.30E-15	8.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127790	VP-02L Stone Container	06/07/10	Gross Alpha/Beta	Gross Beta	3.50E-14	1.96E-14	2.67E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127791	VP-02L Stone Container	06/07/10	Gross Alpha/Beta	Gross Alpha	1.90E-16	3.51E-15	8.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127791	VP-02L Stone Container	06/07/10	Gross Alpha/Beta	Gross Beta	5.62E-15	1.71E-14	2.66E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127792	VP-02L Stone Container	06/08/10	Gross Alpha/Beta	Gross Alpha	6.19E-15	7.51E-15	1.08E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127792	VP-02L Stone Container	06/08/10	Gross Alpha/Beta	Gross Beta	1.12E-14	2.27E-14	3.48E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127793	VP-02L Stone Container	06/08/10	Gross Alpha/Beta	Gross Alpha	2.42E-16	4.47E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127793	VP-02L Stone Container	06/08/10	Gross Alpha/Beta	Gross Beta	3.96E-14	2.45E-14	3.39E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127794	VP-02L Stone Container	06/09/10	Gross Alpha/Beta	Gross Alpha	3.45E-15	5.05E-15	7.87E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127794	VP-02L Stone Container	06/09/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.74E-14	2.54E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127795	VP-02L Stone Container	06/09/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	5.40E-15	7.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127795	VP-02L Stone Container	06/09/10	Gross Alpha/Beta	Gross Beta	2.28E-14	1.75E-14	2.50E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127796	VP-02L Stone Container	06/10/10	Gross Alpha/Beta	Gross Alpha	1.33E-15	4.19E-15	8.24E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127796	VP-02L Stone Container	06/10/10	Gross Alpha/Beta	Gross Beta	3.63E-14	1.96E-14	2.66E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP127797	VP-02L Stone Container	06/10/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	4.72E-15	8.17E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127797	VP-02L Stone Container	06/10/10	Gross Alpha/Beta	Gross Beta	4.82E-15	1.69E-14	2.64E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127821	VP-02L Stone Container	06/14/10	Gross Alpha/Beta	Gross Alpha	2.48E-15	4.75E-15	7.92E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127821	VP-02L Stone Container	06/14/10	Gross Alpha/Beta	Gross Beta	1.68E-14	1.70E-14	2.55E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127822	VP-02L Stone Container	06/14/10	Gross Alpha/Beta	Gross Alpha	2.59E-16	3.57E-15	7.92E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127822	VP-02L Stone Container	06/14/10	Gross Alpha/Beta	Gross Beta	1.61E-14	1.69E-14	2.55E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127823	VP-02L Stone Container	06/15/10	Gross Alpha/Beta	Gross Alpha	3.65E-15	5.34E-15	8.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127823	VP-02L Stone Container	06/15/10	Gross Alpha/Beta	Gross Beta	1.26E-14	1.69E-14	2.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-2. HISS Air Perimeter Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Reason Code	Sampling Event Name
SVP127824	VP-02L Stone Container	06/15/10	Gross Alpha/Beta	Gross Alpha	1.93E-15	5.93E-15	1.12E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127824	VP-02L Stone Container	06/15/10	Gross Alpha/Beta	Gross Beta	2.06E-14	2.37E-14	3.59E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127825	VP-02L Stone Container	06/16/10	Gross Alpha/Beta	Gross Alpha	2.47E-16	3.41E-15	7.58E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127825	VP-02L Stone Container	06/16/10	Gross Alpha/Beta	Gross Beta	2.30E-17	1.48E-14	2.44E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127826	VP-02L Stone Container	06/16/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	4.97E-15	7.52E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127826	VP-02L Stone Container	06/16/10	Gross Alpha/Beta	Gross Beta	6.24E-15	1.53E-14	2.41E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127857	VP-02L Stone Container	06/21/10	Gross Alpha/Beta	Gross Alpha	2.66E-16	3.60E-15	8.15E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127857	VP-02L Stone Container	06/21/10	Gross Alpha/Beta	Gross Beta	1.16E-14	2.07E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127858	VP-02L Stone Container	06/21/10	Gross Alpha/Beta	Gross Alpha	2.54E-15	4.83E-15	8.15E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127858	VP-02L Stone Container	06/21/10	Gross Alpha/Beta	Gross Beta	1.31E-14	2.08E-14	2.65E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127859	VP-02L Stone Container	06/22/10	Gross Alpha/Beta	Gross Alpha	6.07E-15	7.31E-15	1.03E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127859	VP-02L Stone Container	06/22/10	Gross Alpha/Beta	Gross Beta	3.16E-14	2.72E-14	3.34E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP127860	VP-02L Stone Container	06/22/10	Gross Alpha/Beta	Gross Alpha	3.39E-16	4.58E-15	1.04E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP127860	VP-02L Stone Container	06/22/10	Gross Alpha/Beta	Gross Beta	3.29E-14	2.76E-14	3.38E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP131522	VP-02L Stone Container	10/25/10	Gross Alpha/Beta	Gross Alpha	1.36E-14	9.06E-15	8.90E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP131522	VP-02L Stone Container	10/25/10	Gross Alpha/Beta	Gross Beta	2.62E-14	1.82E-14	2.71E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA110694	McDonnell Blvd	09/04/10	Gross Alpha/Beta	Gross Alpha	5.58E-15	7.38E-15	1.02E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA110694	McDonnell Blvd	09/04/10	Gross Alpha/Beta	Gross Beta	2.15E-14	2.10E-14	2.95E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130952	McDonnell Blvd	09/08/10	Gross Alpha/Beta	Gross Alpha	9.43E-16	9.32E-15	1.76E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130952	McDonnell Blvd	09/08/10	Gross Alpha/Beta	Gross Beta	-1.73E-14	3.17E-14	5.10E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130953	McDonnell Blvd	09/11/10	Gross Alpha/Beta	Gross Alpha	-1.99E-15	4.08E-15	1.02E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130953	McDonnell Blvd	09/11/10	Gross Alpha/Beta	Gross Beta	2.45E-15	1.96E-14	2.98E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130954	McDonnell Blvd	09/12/10	Gross Alpha/Beta	Gross Alpha	-6.77E-16	4.52E-15	9.64E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130954	McDonnell Blvd	09/12/10	Gross Alpha/Beta	Gross Beta	1.25E-14	1.93E-14	2.80E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130955	McDonnell Blvd	09/18/10	Gross Alpha/Beta	Gross Alpha	5.85E-15	8.31E-15	1.24E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130955	McDonnell Blvd	09/18/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.46E-14	2.11E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130956	McDonnell Blvd	09/25/10	Gross Alpha/Beta	Gross Alpha	4.57E-16	3.68E-15	8.70E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130956	McDonnell Blvd	09/25/10	Gross Alpha/Beta	Gross Beta	-3.86E-15	1.95E-14	2.82E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130957	McDonnell Blvd	09/27/10	Gross Alpha/Beta	Gross Alpha	1.70E-15	4.45E-15	8.70E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130957	McDonnell Blvd	09/27/10	Gross Alpha/Beta	Gross Beta	1.45E-14	2.09E-14	2.82E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130958	McDonnell Blvd	09/28/10	Gross Alpha/Beta	Gross Alpha	1.70E-15	4.45E-15	8.70E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130958	McDonnell Blvd	09/28/10	Gross Alpha/Beta	Gross Beta	1.93E-14	2.13E-14	2.82E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130959	McDonnell Blvd	09/29/10	Gross Alpha/Beta	Gross Alpha	2.23E-14	1.84E-14	2.11E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130959	McDonnell Blvd	09/29/10	Gross Alpha/Beta	Gross Beta	-5.50E-15	4.77E-14	6.84E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130960	McDonnell Blvd	10/09/10	Gross Alpha/Beta	Gross Alpha	1.62E-14	1.53E-14	1.93E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130960	McDonnell Blvd	10/09/10	Gross Alpha/Beta	Gross Beta	4.56E-14	2.28E-14	3.00E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130961	McDonnell Blvd	11/20/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	1.02E-14	1.35E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130961	McDonnell Blvd	11/20/10	Gross Alpha/Beta	Gross Beta	6.10E-14	1.90E-14	2.08E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130962	McDonnell Blvd	11/21/10	Gross Alpha/Beta	Gross Alpha	1.17E-14	1.15E-14	1.51E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130962	McDonnell Blvd	11/21/10	Gross Alpha/Beta	Gross Beta	4.41E-14	1.90E-14	2.34E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128486	SLA128486	03/17/10	Gross Alpha/Beta	Gross Alpha	2.55E-14	1.23E-14	1.25E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128486	SLA128486	03/17/10	Gross Alpha/Beta	Gross Beta	1.99E-14	1.62E-14	2.55E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128487	SLA128487	03/17/10	Gross Alpha/Beta	Gross Alpha	6.36E-15	5.95E-15	8.56E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128487	SLA128487	03/17/10	Gross Alpha/Beta	Gross Beta	1.67E-14	1.14E-14	1.75E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128488	SLA128488	03/24/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	5.13E-15	9.21E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128488	SLA128488	03/24/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.23E-14	1.88E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128489	SLA128489	03/24/10	Gross Alpha/Beta	Gross Alpha	8.60E-16	4.55E-15	9.26E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128489	SLA128489	03/24/10	Gross Alpha/Beta	Gross Beta	1.31E-14	1.19E-14	1.89E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128490	SLA128490	03/25/10	Gross Alpha/Beta	Gross Alpha	9.79E-15	9.16E-15	1.32E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128490	SLA128490	03/25/10	Gross Alpha/Beta	Gross Beta	8.57E-15	1.60E-14	2.70E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128491	SLA128491	03/25/10	Gross Alpha/Beta	Gross Alpha	4.11E-14	1.62E-14	1.43E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128491	SLA128491	03/25/10	Gross Alpha/Beta	Gross Beta	5.23E-14	2.11E-14	2.92E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128492	SLA128492	03/29/10	Gross Alpha/Beta	Gross Alpha	5.07E-15	4.75E-15	6.82E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128492	SLA128492	03/29/10	Gross Alpha/Beta	Gross Beta	1.21E-14	8.99E-15	1.40E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128493	SLA128493	03/29/10	Gross Alpha/Beta	Gross Alpha	5.14E-15	4.81E-15	6.92E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128493	SLA128493	03/29/10	Gross Alpha/Beta	Gross Beta	3.68E-15	8.31E-15	1.42E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128494	SLA128494	03/30/10	Gross Alpha/Beta	Gross Alpha	4.69E-15	4.83E-15	7.21E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128494	SLA128494	03/30/10	Gross Alpha/Beta	Gross Beta	2.39E-14	1.04E-14	1.48E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128495	SLA128495	03/30/10	Gross Alpha/Beta	Gross Alpha	8.02E-15	5.68E-15	7.20E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128495	SLA128495	03/30/10	Gross Alpha/Beta	Gross Beta	1.62E-14	9.78E-15	1.47E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128496	SLA128496	04/01/10	Gross Alpha/Beta	Gross Alpha	3.30E-15	4.65E-15	6.33E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128496	SLA128496	04/01/10	Gross Alpha/Beta	Gross Beta	2.44E-14	9.73E-15	1.06E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128497	SLA128497	04/01/10	Gross Alpha/Beta	Gross Alpha	3.69E-15	4.49E-15	5.87E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128497	SLA128497	04/01/10	Gross Alpha/Beta	Gross Beta	2.14E-14	8.93E-15	9.84E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128498	SLA128498	04/05/10	Gross Alpha/Beta	Gross Alpha	2.26E-14	1.43E-14	1.43E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128498	SLA128498	04/05/10	Gross Alpha/Beta	Gross Beta	5.51E-14	2.20E-14	2.40E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128499	SLA128499	04/05/10	Gross Alpha/Beta	Gross Alpha	3.69E-14	1.68E-14	1.40E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128499	SLA128499	04/05/10	Gross Alpha/Beta	Gross Beta	6.60E-14	2.26E-14	2.34E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128500	SLA128500	04/06/10	Gross Alpha/Beta	Gross Alpha	1.14E-15	3.55E-15	5.57E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128500	SLA128500	04/06/10	Gross Alpha/Beta	Gross Beta	1.13E-14	7.62E-15	9.33E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128501	SLA128501	04/06/10	Gross Alpha/Beta	Gross Alpha	1.71E-14	7.09E-15	5.57E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128501	SLA128501	04/06/10	Gross Alpha/Beta	Gross Beta	2.59E-14	8.95E-15	9.33E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128502	SLA128502	04/07/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	4.50E-15	5.67E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128502	SLA128502	04/07/10	Gross Alpha/Beta	Gross Beta	2.37E-14	8.89E-15	9.50E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128503	SLA128503	04/07/10	Gross Alpha/Beta	Gross Alpha	7.99E-15	5.54E-15	5.84E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128503	SLA128503	04/07/10	Gross Alpha/Beta	Gross Beta	2.09E-14	8.84E-15	9.78E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128504	SLA128504	04/08/10	Gross Alpha/Beta	Gross Alpha	9.66E-15	5.83E-15	5.73E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128504	SLA128504	04/08/10	Gross Alpha/Beta	Gross Beta	1.55E-14	8.21E-15	9.59E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128505	SLA128505	04/08/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	3.96E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128505	SLA128505	04/08/10	Gross Alpha/Beta	Gross Beta	1.41E-14	7.95E-15	9.41E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128506	SLA128506	04/12/10	Gross Alpha/Beta	Gross Alpha	6.44E-15	5.01E-15	5.57E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128506	SLA128506	04/12/10	Gross Alpha/Beta	Gross Beta	2.52E-14	8.89E-15	9.33E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128507	SLA128507	04/12/10	Gross Alpha/Beta	Gross Alpha	4.55E-15	4.45E-15	5.42E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128507	SLA128507	04/12/10	Gross Alpha/Beta	Gross Beta	3.36E-14	9.39E-15	9.08E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128508	SLA128508	04/13/10	Gross Alpha/Beta	Gross Alpha	6.84E-15	5.01E-15	5.42E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128508	SLA128508	04/13/10	Gross Alpha/Beta	Gross Beta	2.34E-14	8.55E-15	9.08E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128509	SLA128509	04/13/10	Gross Alpha/Beta	Gross Alpha	9.89E-15	5.73E-15	5.52E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128509	SLA128509	04/13/10	Gross Alpha/Beta	Gross Beta	2.01E-14	8.39E-15	9.24E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128510	SLA128510	04/14/10	Gross Alpha/Beta	Gross Alpha	7.91E-15	5.79E-15	6.26E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128510	SLA128510	04/14/10	Gross Alpha/Beta	Gross Beta	1.48E-14	8.78E-15	1.05E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128511	SLA128511	04/14/10	Gross Alpha/Beta	Gross Alpha	4.33E-15	4.68E-15	5.90E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128511	SLA128511	04/14/10	Gross Alpha/Beta	Gross Beta	2.82E-14	9.54E-15	9.88E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128512	SLA128512	04/19/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	4.32E-15	5.65E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128512	SLA128512	04/19/10	Gross Alpha/Beta	Gross Beta	1.49E-14	8.07E-15	9.47E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128513	SLA128513	04/19/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	4.24E-15	5.34E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128513	SLA128513	04/19/10	Gross Alpha/Beta	Gross Beta	5.79E-15	6.80E-15	8.95E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128514	SLA128514	04/20/10	Gross Alpha/Beta	Gross Alpha	4.00E-15	5.64E-15	7.67E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128514	SLA128514	04/20/10	Gross Alpha/Beta	Gross Beta	1.71E-14	1.07E-14	1.29E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128515	SLA128515	04/20/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	3.79E-15	5.95E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128515	SLA128515	04/20/10	Gross Alpha/Beta	Gross Beta	1.73E-14	8.65E-15	9.97E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128516	SLA128516	04/22/10	Gross Alpha/Beta	Gross Alpha	3.45E-15	4.86E-15	6.61E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128516	SLA128516	04/22/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.07E-14	1.11E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128517	SLA128517	04/22/10	Gross Alpha/Beta	Gross Alpha	7.10E-15	5.91E-15	6.76E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128517	SLA128517	04/22/10	Gross Alpha/Beta	Gross Beta	3.37E-14	1.11E-14	1.13E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128518	SLA128518	04/26/10	Gross Alpha/Beta	Gross Alpha	5.22E-15	4.68E-15	5.52E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128518	SLA128518	04/26/10	Gross Alpha/Beta	Gross Beta	1.68E-14	8.08E-15	9.24E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128519	SLA128519	04/26/10	Gross Alpha/Beta	Gross Alpha	4.12E-15	4.46E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128519	SLA128519	04/26/10	Gross Alpha/Beta	Gross Beta	2.35E-14	8.81E-15	9.41E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128520	SLA128520	04/28/10	Gross Alpha/Beta	Gross Alpha	4.59E-15	4.49E-15	5.47E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128520	SLA128520	04/28/10	Gross Alpha/Beta	Gross Beta	2.32E-14	8.60E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128521	SLA128521	04/28/10	Gross Alpha/Beta	Gross Alpha	1.21E-14	6.14E-15	5.47E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128521	SLA128521	04/28/10	Gross Alpha/Beta	Gross Beta	2.07E-14	8.37E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128522	SLA128522	04/29/10	Gross Alpha/Beta	Gross Alpha	6.65E-15	5.54E-15	6.33E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128522	SLA128522	04/29/10	Gross Alpha/Beta	Gross Beta	1.41E-14	8.79E-15	1.06E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128523	SLA128523	04/29/10	Gross Alpha/Beta	Gross Alpha	6.11E-15	5.49E-15	6.47E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128523	SLA128523	04/29/10	Gross Alpha/Beta	Gross Beta	1.40E-14	8.94E-15	1.08E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128524	SLA128524	05/03/10	Gross Alpha/Beta	Gross Alpha	7.32E-15	4.30E-15	3.86E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128524	SLA128524	05/03/10	Gross Alpha/Beta	Gross Beta	1.82E-14	9.50E-15	1.27E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128525	SLA128525	05/03/10	Gross Alpha/Beta	Gross Alpha	3.96E-15	3.29E-15	3.79E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128525	SLA128525	05/03/10	Gross Alpha/Beta	Gross Beta	1.64E-14	9.22E-15	1.24E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128526	SLA128526	05/04/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	3.38E-15	3.89E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128526	SLA128526	05/04/10	Gross Alpha/Beta	Gross Beta	1.80E-14	9.55E-15	1.28E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128527	SLA128527	05/04/10	Gross Alpha/Beta	Gross Alpha	5.27E-15	3.80E-15	3.96E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128527	SLA128527	05/04/10	Gross Alpha/Beta	Gross Beta	1.72E-14	9.65E-15	1.30E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128528	SLA128528	05/05/10	Gross Alpha/Beta	Gross Alpha	3.45E-15	3.14E-15	3.82E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128528	SLA128528	05/05/10	Gross Alpha/Beta	Gross Beta	3.38E-14	1.05E-14	1.26E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128529	SLA128529	05/05/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	3.38E-15	3.89E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128529	SLA128529	05/05/10	Gross Alpha/Beta	Gross Beta	2.93E-14	1.04E-14	1.28E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128530	SLA128530	05/06/10	Gross Alpha/Beta	Gross Alpha	1.90E-15	2.62E-15	4.00E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128530	SLA128530	05/06/10	Gross Alpha/Beta	Gross Beta	8.36E-15	9.02E-15	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128531	SLA128531	05/06/10	Gross Alpha/Beta	Gross Alpha	3.10E-15	3.14E-15	4.08E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128531	SLA128531	05/06/10	Gross Alpha/Beta	Gross Beta	2.80E-15	8.70E-15	1.34E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128532	SLA128532	05/10/10	Gross Alpha/Beta	Gross Alpha	5.94E-15	4.03E-15	4.04E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128532	SLA128532	05/10/10	Gross Alpha/Beta	Gross Beta	1.49E-14	9.62E-15	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128533	SLA128533	05/10/10	Gross Alpha/Beta	Gross Alpha	4.79E-15	3.69E-15	4.04E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128533	SLA128533	05/10/10	Gross Alpha/Beta	Gross Beta	1.34E-14	9.50E-15	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128534	SLA128534	05/11/10	Gross Alpha/Beta	Gross Alpha	1.99E-15	2.75E-15	4.20E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128534	SLA128534	05/11/10	Gross Alpha/Beta	Gross Beta	7.20E-15	9.33E-15	1.38E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128535	SLA128535	05/11/10	Gross Alpha/Beta	Gross Alpha	3.86E-15	3.51E-15	4.28E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128535	SLA128535	05/11/10	Gross Alpha/Beta	Gross Beta	1.26E-14	9.94E-15	1.41E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128536	SLA128536	05/12/10	Gross Alpha/Beta	Gross Alpha	4.22E-15	4.28E-15	5.56E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128536	SLA128536	05/12/10	Gross Alpha/Beta	Gross Beta	1.37E-14	1.27E-14	1.83E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128537	SLA128537	05/12/10	Gross Alpha/Beta	Gross Alpha	3.34E-15	3.87E-15	5.42E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128537	SLA128537	05/12/10	Gross Alpha/Beta	Gross Beta	1.29E-14	1.23E-14	1.78E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128538	SLA128538	05/17/10	Gross Alpha/Beta	Gross Alpha	5.45E-16	3.31E-15	5.52E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128538	SLA128538	05/17/10	Gross Alpha/Beta	Gross Beta	5.61E-15	6.98E-15	9.24E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128539	SLA128539	05/17/10	Gross Alpha/Beta	Gross Alpha	5.45E-16	3.31E-15	5.52E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128539	SLA128539	05/17/10	Gross Alpha/Beta	Gross Beta	4.50E-15	6.86E-15	9.24E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128540	SLA128540	05/19/10	Gross Alpha/Beta	Gross Alpha	1.64E-15	3.54E-15	5.27E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128540	SLA128540	05/19/10	Gross Alpha/Beta	Gross Beta	1.64E-14	7.76E-15	8.84E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128541	SLA128541	05/19/10	Gross Alpha/Beta	Gross Alpha	3.87E-15	4.19E-15	5.27E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128541	SLA128541	05/19/10	Gross Alpha/Beta	Gross Beta	8.56E-15	7.01E-15	8.84E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128542	SLA128542	05/24/10	Gross Alpha/Beta	Gross Alpha	6.21E-15	4.83E-15	5.37E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128542	SLA128542	05/24/10	Gross Alpha/Beta	Gross Beta	1.09E-14	7.35E-15	8.99E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128543	SLA128543	05/24/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	4.03E-15	5.27E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128543	SLA128543	05/24/10	Gross Alpha/Beta	Gross Beta	1.85E-14	7.95E-15	8.84E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128544	SLA128544	05/25/10	Gross Alpha/Beta	Gross Alpha	4.90E-15	4.40E-15	5.18E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128544	SLA128544	05/25/10	Gross Alpha/Beta	Gross Beta	1.68E-14	7.69E-15	8.68E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128545	SLA128545	05/25/10	Gross Alpha/Beta	Gross Alpha	5.59E-15	4.65E-15	5.32E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128545	SLA128545	05/25/10	Gross Alpha/Beta	Gross Beta	1.76E-14	7.93E-15	8.91E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128546	SLA128546	05/26/10	Gross Alpha/Beta	Gross Alpha	-3.90E-17	3.07E-15	5.47E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128546	SLA128546	05/26/10	Gross Alpha/Beta	Gross Beta	1.51E-14	7.87E-15	9.16E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128547	SLA128547	05/26/10	Gross Alpha/Beta	Gross Alpha	1.67E-15	3.60E-15	5.37E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128547	SLA128547	05/26/10	Gross Alpha/Beta	Gross Beta	2.14E-14	8.32E-15	8.99E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128548	SLA128548	05/27/10	Gross Alpha/Beta	Gross Alpha	1.96E-15	4.25E-15	6.33E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128548	SLA128548	05/27/10	Gross Alpha/Beta	Gross Beta	2.82E-14	1.01E-14	1.06E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128549	SLA128549	05/27/10	Gross Alpha/Beta	Gross Alpha	4.37E-15	4.73E-15	5.95E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128549	SLA128549	05/27/10	Gross Alpha/Beta	Gross Beta	2.65E-14	9.47E-15	9.97E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128550	SLA128550	06/01/10	Gross Alpha/Beta	Gross Alpha	3.94E-16	4.26E-16	5.37E-16	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128550	SLA128550	06/01/10	Gross Alpha/Beta	Gross Beta	2.68E-15	8.78E-16	8.99E-16	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128551	SLA128551	06/01/10	Gross Alpha/Beta	Gross Alpha	5.30E-17	3.23E-16	5.37E-16	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128551	SLA128551	06/01/10	Gross Alpha/Beta	Gross Beta	2.39E-15	8.54E-16	8.99E-16	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128552	SLA128552	06/02/10	Gross Alpha/Beta	Gross Alpha	5.75E-15	4.78E-15	5.47E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128552	SLA128552	06/02/10	Gross Alpha/Beta	Gross Beta	6.30E-15	6.99E-15	9.16E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128553	SLA128553	06/02/10	Gross Alpha/Beta	Gross Alpha	5.50E-16	3.35E-15	5.57E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128553	SLA128553	06/02/10	Gross Alpha/Beta	Gross Beta	7.92E-15	7.28E-15	9.33E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128554	SLA128554	06/08/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	3.72E-15	5.84E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128554	SLA128554	06/08/10	Gross Alpha/Beta	Gross Beta	2.05E-14	8.80E-15	9.78E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128555	SLA128555	06/08/10	Gross Alpha/Beta	Gross Alpha	3.05E-15	4.29E-15	5.84E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128555	SLA128555	06/08/10	Gross Alpha/Beta	Gross Beta	1.62E-14	8.41E-15	9.78E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128556	SLA128556	06/09/10	Gross Alpha/Beta	Gross Alpha	1.12E-15	3.48E-15	5.47E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128556	SLA128556	06/09/10	Gross Alpha/Beta	Gross Beta	1.18E-14	7.55E-15	9.16E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128557	SLA128557	06/09/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	4.47E-15	5.84E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128557	SLA128557	06/09/10	Gross Alpha/Beta	Gross Beta	1.77E-14	8.55E-15	9.78E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128558	SLA128558	06/10/10	Gross Alpha/Beta	Gross Alpha	2.85E-15	4.02E-15	5.47E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128558	SLA128558	06/10/10	Gross Alpha/Beta	Gross Beta	1.99E-14	8.31E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128559	SLA128559	06/10/10	Gross Alpha/Beta	Gross Alpha	6.50E-15	5.06E-15	5.62E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128559	SLA128559	06/10/10	Gross Alpha/Beta	Gross Beta	2.05E-14	8.54E-15	9.41E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128560	SLA128560	06/14/10	Gross Alpha/Beta	Gross Alpha	1.18E-13	1.73E-14	5.57E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128560	SLA128560	06/14/10	Gross Alpha/Beta	Gross Beta	6.98E-14	1.21E-14	9.33E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128561	SLA128561	06/14/10	Gross Alpha/Beta	Gross Alpha	3.79E-15	6.41E-15	9.11E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128561	SLA128561	06/14/10	Gross Alpha/Beta	Gross Beta	1.42E-14	1.20E-14	1.53E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128562	SLA128562	06/15/10	Gross Alpha/Beta	Gross Alpha	1.74E-15	3.77E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128562	SLA128562	06/15/10	Gross Alpha/Beta	Gross Beta	9.50E-15	7.50E-15	9.41E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128563	SLA128563	06/15/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	3.96E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128563	SLA128563	06/15/10	Gross Alpha/Beta	Gross Beta	5.72E-15	7.11E-15	9.41E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128564	SLA128564	06/16/10	Gross Alpha/Beta	Gross Alpha	1.94E-15	4.20E-15	6.26E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128564	SLA128564	06/16/10	Gross Alpha/Beta	Gross Beta	-2.91E-15	6.87E-15	1.05E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128565	SLA128565	06/16/10	Gross Alpha/Beta	Gross Alpha	-2.81E-16	2.98E-15	6.33E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128565	SLA128565	06/16/10	Gross Alpha/Beta	Gross Beta	1.42E-14	8.22E-15	1.04E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128566	SLA128566	06/17/10	Gross Alpha/Beta	Gross Alpha	2.08E-15	3.55E-15	5.69E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128566	SLA128566	06/17/10	Gross Alpha/Beta	Gross Beta	1.58E-14	7.69E-15	9.39E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128567	SLA128567	06/17/10	Gross Alpha/Beta	Gross Alpha	3.83E-15	4.09E-15	5.69E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128567	SLA128567	06/17/10	Gross Alpha/Beta	Gross Beta	1.50E-14	7.61E-15	9.39E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128568	SLA128568	06/22/10	Gross Alpha/Beta	Gross Alpha	3.22E-15	3.88E-15	5.64E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128568	SLA128568	06/22/10	Gross Alpha/Beta	Gross Beta	1.12E-14	7.18E-15	9.31E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128569	SLA128569	06/22/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	4.29E-15	5.74E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128569	SLA128569	06/22/10	Gross Alpha/Beta	Gross Beta	1.18E-14	7.35E-15	9.48E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128570	SLA128570	06/23/10	Gross Alpha/Beta	Gross Alpha	6.46E-15	4.64E-15	5.44E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128570	SLA128570	06/23/10	Gross Alpha/Beta	Gross Beta	2.22E-14	8.01E-15	8.98E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128571	SLA128571	06/23/10	Gross Alpha/Beta	Gross Alpha	6.40E-15	4.60E-15	5.39E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128571	SLA128571	06/23/10	Gross Alpha/Beta	Gross Beta	3.40E-14	8.94E-15	8.90E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128572	SLA128572	06/24/10	Gross Alpha/Beta	Gross Alpha	4.91E-15	4.33E-15	5.59E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128572	SLA128572	06/24/10	Gross Alpha/Beta	Gross Beta	1.91E-14	7.89E-15	9.22E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128573	SLA128573	06/24/10	Gross Alpha/Beta	Gross Alpha	3.25E-16	2.87E-15	5.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128573	SLA128573	06/24/10	Gross Alpha/Beta	Gross Beta	1.55E-14	7.55E-15	9.22E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128574	SLA128574	06/28/10	Gross Alpha/Beta	Gross Alpha	4.50E-15	4.33E-15	5.80E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128574	SLA128574	06/28/10	Gross Alpha/Beta	Gross Beta	2.59E-14	8.73E-15	9.57E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128575	SLA128575	06/28/10	Gross Alpha/Beta	Gross Alpha	2.10E-15	3.59E-15	5.74E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128575	SLA128575	06/28/10	Gross Alpha/Beta	Gross Beta	1.41E-14	7.57E-15	9.48E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128576	SLA128576	06/29/10	Gross Alpha/Beta	Gross Alpha	-2.56E-15	1.30E-15	5.64E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128576	SLA128576	06/29/10	Gross Alpha/Beta	Gross Beta	-1.67E-15	5.70E-15	9.31E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128577	SLA128577	06/29/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	3.30E-15	5.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128577	SLA128577	06/29/10	Gross Alpha/Beta	Gross Beta	2.00E-15	6.10E-15	9.22E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128578	SLA128578	06/30/10	Gross Alpha/Beta	Gross Alpha	1.65E-15	3.69E-15	6.27E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128578	SLA128578	06/30/10	Gross Alpha/Beta	Gross Beta	1.21E-14	7.93E-15	1.03E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128579	SLA128579	06/30/10	Gross Alpha/Beta	Gross Alpha	-2.70E-16	2.86E-15	6.08E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128579	SLA128579	06/30/10	Gross Alpha/Beta	Gross Beta	1.33E-14	7.86E-15	1.00E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128580	SLA128580	07/01/10	Gross Alpha/Beta	Gross Alpha	1.68E-16	2.06E-15	4.47E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128580	SLA128580	07/01/10	Gross Alpha/Beta	Gross Beta	2.64E-15	1.07E-14	1.48E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128581	SLA128581	07/01/10	Gross Alpha/Beta	Gross Alpha	7.42E-16	2.25E-15	4.17E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128581	SLA128581	07/01/10	Gross Alpha/Beta	Gross Beta	9.01E-15	1.05E-14	1.38E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128582	SLA128582	07/06/10	Gross Alpha/Beta	Gross Alpha	-4.38E-16	1.55E-15	4.25E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128582	SLA128582	07/06/10	Gross Alpha/Beta	Gross Beta	1.04E-14	1.08E-14	1.41E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128583	SLA128583	07/06/10	Gross Alpha/Beta	Gross Alpha	1.86E-15	2.72E-15	4.05E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128583	SLA128583	07/06/10	Gross Alpha/Beta	Gross Beta	1.10E-14	1.03E-14	1.34E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128584	SLA128584	07/07/10	Gross Alpha/Beta	Gross Alpha	6.77E-16	2.05E-15	3.80E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128584	SLA128584	07/07/10	Gross Alpha/Beta	Gross Beta	-2.11E-16	8.90E-15	1.26E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128585	SLA128585	07/07/10	Gross Alpha/Beta	Gross Alpha	6.77E-16	2.05E-15	3.80E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128585	SLA128585	07/07/10	Gross Alpha/Beta	Gross Beta	1.17E-14	9.80E-15	1.26E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128586	SLA128586	07/08/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	2.40E-15	3.94E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128586	SLA128586	07/08/10	Gross Alpha/Beta	Gross Beta	7.79E-15	9.84E-15	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128587	SLA128587	07/08/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	3.24E-15	3.90E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128587	SLA128587	07/08/10	Gross Alpha/Beta	Gross Beta	8.45E-15	9.80E-15	1.30E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128588	SLA128588	07/12/10	Gross Alpha/Beta	Gross Alpha	4.84E-15	3.83E-15	4.17E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128588	SLA128588	07/12/10	Gross Alpha/Beta	Gross Beta	7.86E-15	1.04E-14	1.38E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128589	SLA128589	07/12/10	Gross Alpha/Beta	Gross Alpha	2.97E-15	3.13E-15	4.01E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128589	SLA128589	07/12/10	Gross Alpha/Beta	Gross Beta	1.87E-14	1.08E-14	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128590	SLA128590	07/13/10	Gross Alpha/Beta	Gross Alpha	1.91E-15	2.80E-15	4.17E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128590	SLA128590	07/13/10	Gross Alpha/Beta	Gross Beta	1.33E-14	1.08E-14	1.38E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128591	SLA128591	07/13/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	2.74E-15	4.09E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128591	SLA128591	07/13/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.09E-14	1.36E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128592	SLA128592	07/14/10	Gross Alpha/Beta	Gross Alpha	1.84E-15	2.69E-15	4.01E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128592	SLA128592	07/14/10	Gross Alpha/Beta	Gross Beta	1.39E-14	1.05E-14	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128593	SLA128593	07/14/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	2.97E-15	4.09E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128593	SLA128593	07/14/10	Gross Alpha/Beta	Gross Beta	9.98E-15	1.03E-14	1.36E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128594	SLA128594	07/15/10	Gross Alpha/Beta	Gross Alpha	5.43E-15	4.30E-15	4.67E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128594	SLA128594	07/15/10	Gross Alpha/Beta	Gross Beta	1.79E-14	1.23E-14	1.55E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128595	SLA128595	07/15/10	Gross Alpha/Beta	Gross Alpha	3.13E-15	4.39E-15	6.68E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128595	SLA128595	07/15/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.02E-14	1.10E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128596	SLA128596	07/19/10	Gross Alpha/Beta	Gross Alpha	-8.85E-16	2.55E-15	6.02E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128596	SLA128596	07/19/10	Gross Alpha/Beta	Gross Beta	4.51E-15	6.85E-15	9.94E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128597	SLA128597	07/19/10	Gross Alpha/Beta	Gross Alpha	-1.50E-15	2.23E-15	6.02E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128597	SLA128597	07/19/10	Gross Alpha/Beta	Gross Beta	1.59E-14	8.06E-15	9.94E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128598	SLA128598	07/21/10	Gross Alpha/Beta	Gross Alpha	6.75E-15	4.86E-15	5.69E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128598	SLA128598	07/21/10	Gross Alpha/Beta	Gross Beta	1.73E-14	7.83E-15	9.39E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128599	SLA128599	07/21/10	Gross Alpha/Beta	Gross Alpha	1.47E-15	3.30E-15	5.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128599	SLA128599	07/21/10	Gross Alpha/Beta	Gross Beta	5.28E-15	6.48E-15	9.22E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128600	SLA128600	07/26/10	Gross Alpha/Beta	Gross Alpha	6.32E-15	8.86E-15	1.35E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128600	SLA128600	07/26/10	Gross Alpha/Beta	Gross Beta	1.89E-14	1.63E-14	2.23E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128601	SLA128601	07/26/10	Gross Alpha/Beta	Gross Alpha	-5.74E-16	6.08E-15	1.29E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128601	SLA128601	07/26/10	Gross Alpha/Beta	Gross Beta	1.64E-14	1.55E-14	2.13E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128602	SLA128602	07/27/10	Gross Alpha/Beta	Gross Alpha	3.31E-15	3.99E-15	5.80E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128602	SLA128602	07/27/10	Gross Alpha/Beta	Gross Beta	1.91E-14	8.12E-15	9.57E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA128603	SLA128603	07/27/10	Gross Alpha/Beta	Gross Alpha	2.12E-15	3.62E-15	5.80E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128603	SLA128603	07/27/10	Gross Alpha/Beta	Gross Beta	1.61E-14	7.83E-15	9.57E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128604	SLA128604	07/28/10	Gross Alpha/Beta	Gross Alpha	9.90E-16	3.43E-15	5.88E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128604	SLA128604	07/28/10	Gross Alpha/Beta	Gross Beta	1.75E-14	7.82E-15	9.36E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128605	SLA128605	07/28/10	Gross Alpha/Beta	Gross Alpha	9.99E-16	3.46E-15	5.93E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128605	SLA128605	07/28/10	Gross Alpha/Beta	Gross Beta	2.04E-14	8.16E-15	9.45E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128606	SLA128606	07/29/10	Gross Alpha/Beta	Gross Alpha	2.13E-15	3.72E-15	5.69E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128606	SLA128606	07/29/10	Gross Alpha/Beta	Gross Beta	1.70E-14	7.57E-15	9.07E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128607	SLA128607	07/29/10	Gross Alpha/Beta	Gross Alpha	9.66E-16	3.35E-15	5.73E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128607	SLA128607	07/29/10	Gross Alpha/Beta	Gross Beta	1.60E-14	7.51E-15	9.14E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128608	SLA128608	08/02/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	4.33E-15	6.05E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128608	SLA128608	08/02/10	Gross Alpha/Beta	Gross Beta	2.88E-14	9.05E-15	9.64E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128609	SLA128609	08/02/10	Gross Alpha/Beta	Gross Alpha	6.73E-15	4.60E-15	4.92E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128609	SLA128609	08/02/10	Gross Alpha/Beta	Gross Beta	2.81E-14	1.20E-14	1.38E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128610	SLA128610	08/03/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	4.35E-15	5.46E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128610	SLA128610	08/03/10	Gross Alpha/Beta	Gross Beta	3.12E-14	1.33E-14	1.53E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128611	SLA128611	08/03/10	Gross Alpha/Beta	Gross Alpha	8.13E-15	5.27E-15	5.46E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128611	SLA128611	08/03/10	Gross Alpha/Beta	Gross Beta	3.56E-14	1.35E-14	1.53E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128612	SLA128612	08/04/10	Gross Alpha/Beta	Gross Alpha	7.74E-16	2.67E-15	5.03E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128612	SLA128612	08/04/10	Gross Alpha/Beta	Gross Beta	2.92E-14	1.22E-14	1.41E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128613	SLA128613	08/04/10	Gross Alpha/Beta	Gross Alpha	3.86E-15	3.85E-15	5.07E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128613	SLA128613	08/04/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.15E-14	1.42E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128614	SLA128614	08/05/10	Gross Alpha/Beta	Gross Alpha	4.34E-15	3.93E-15	4.92E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA128614	SLA128614	08/05/10	Gross Alpha/Beta	Gross Beta	2.58E-14	1.18E-14	1.38E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128615	SLA128615	08/05/10	Gross Alpha/Beta	Gross Alpha	6.73E-15	4.60E-15	4.92E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128615	SLA128615	08/05/10	Gross Alpha/Beta	Gross Beta	2.85E-14	1.20E-14	1.38E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128616	SLA128616	08/09/10	Gross Alpha/Beta	Gross Alpha	5.38E-15	4.15E-15	4.78E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128616	SLA128616	08/09/10	Gross Alpha/Beta	Gross Beta	3.08E-14	1.18E-14	1.34E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128617	SLA128617	08/09/10	Gross Alpha/Beta	Gross Alpha	7.77E-15	4.80E-15	4.83E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128617	SLA128617	08/09/10	Gross Alpha/Beta	Gross Beta	3.88E-14	1.24E-14	1.36E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128618	SLA128618	08/10/10	Gross Alpha/Beta	Gross Alpha	6.80E-15	4.64E-15	4.97E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128618	SLA128618	08/10/10	Gross Alpha/Beta	Gross Beta	2.33E-14	1.17E-14	1.40E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128619	SLA128619	08/10/10	Gross Alpha/Beta	Gross Alpha	6.08E-15	4.91E-15	5.78E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA128619	SLA128619	08/10/10	Gross Alpha/Beta	Gross Beta	2.88E-14	8.59E-15	9.50E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128620	SLA128620	08/11/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	3.78E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128620	SLA128620	08/11/10	Gross Alpha/Beta	Gross Beta	2.12E-14	7.70E-15	9.23E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128621	SLA128621	08/11/10	Gross Alpha/Beta	Gross Alpha	4.12E-15	4.30E-15	5.62E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128621	SLA128621	08/11/10	Gross Alpha/Beta	Gross Beta	2.01E-14	7.59E-15	9.23E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128622	SLA128622	08/16/10	Gross Alpha/Beta	Gross Alpha	2.91E-15	3.92E-15	5.57E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128622	SLA128622	08/16/10	Gross Alpha/Beta	Gross Beta	1.76E-14	7.29E-15	9.15E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA128623	SLA128623	08/16/10	Gross Alpha/Beta	Gross Alpha	5.45E-16	3.10E-15	5.52E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA128623	SLA128623	08/16/10	Gross Alpha/Beta	Gross Beta	2.12E-14	7.60E-15	9.06E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130550	SLA130550	08/17/10	Gross Alpha/Beta	Gross Alpha	4.24E-15	4.43E-15	5.78E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA130550	SLA130550	08/17/10	Gross Alpha/Beta	Gross Beta	2.18E-14	7.92E-15	9.50E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130551	SLA130551	08/17/10	Gross Alpha/Beta	Gross Alpha	4.28E-15	4.47E-15	5.84E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130551	SLA130551	08/17/10	Gross Alpha/Beta	Gross Beta	1.97E-14	7.76E-15	9.59E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130552	SLA130552	08/18/10	Gross Alpha/Beta	Gross Alpha	5.96E-15	4.82E-15	5.67E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130552	SLA130552	08/18/10	Gross Alpha/Beta	Gross Beta	3.75E-14	9.22E-15	9.32E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130553	SLA130553	08/18/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	4.55E-15	5.73E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130553	SLA130553	08/18/10	Gross Alpha/Beta	Gross Beta	4.17E-14	9.63E-15	9.41E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130554	SLA130554	08/19/10	Gross Alpha/Beta	Gross Alpha	6.02E-15	4.86E-15	5.73E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130554	SLA130554	08/19/10	Gross Alpha/Beta	Gross Beta	3.67E-14	9.21E-15	9.41E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130555	SLA130555	08/19/10	Gross Alpha/Beta	Gross Alpha	6.64E-15	5.02E-15	5.74E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130555	SLA130555	08/19/10	Gross Alpha/Beta	Gross Beta	2.94E-14	8.59E-15	9.42E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130556	SLA130556	08/23/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	4.34E-15	5.90E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130556	SLA130556	08/23/10	Gross Alpha/Beta	Gross Beta	2.54E-14	8.39E-15	9.68E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130557	SLA130557	08/23/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	3.96E-15	5.90E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130557	SLA130557	08/23/10	Gross Alpha/Beta	Gross Beta	2.62E-14	8.46E-15	9.68E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130558	SLA130558	08/24/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	4.61E-15	6.26E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130558	SLA130558	08/24/10	Gross Alpha/Beta	Gross Beta	2.57E-14	8.79E-15	1.03E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130559	SLA130559	08/24/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.21E-15	6.26E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130559	SLA130559	08/24/10	Gross Alpha/Beta	Gross Beta	3.21E-14	9.38E-15	1.03E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130560	SLA130560	08/25/10	Gross Alpha/Beta	Gross Alpha	1.91E-15	3.05E-15	4.82E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130560	SLA130560	08/25/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.10E-14	1.35E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130561	SLA130561	08/25/10	Gross Alpha/Beta	Gross Alpha	1.88E-15	3.00E-15	4.73E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130561	SLA130561	08/25/10	Gross Alpha/Beta	Gross Beta	1.65E-14	1.08E-14	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130562	SLA130562	08/26/10	Gross Alpha/Beta	Gross Alpha	4.61E-15	4.17E-15	5.23E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA130562	SLA130562	08/26/10	Gross Alpha/Beta	Gross Beta	2.03E-14	1.21E-14	1.47E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130563	SLA130563	08/26/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	3.50E-15	5.54E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130563	SLA130563	08/26/10	Gross Alpha/Beta	Gross Beta	1.93E-14	1.26E-14	1.56E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130564	SLA130564	08/30/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	3.15E-15	4.65E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130564	SLA130564	08/30/10	Gross Alpha/Beta	Gross Beta	1.40E-14	1.04E-14	1.31E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130565	SLA130565	08/30/10	Gross Alpha/Beta	Gross Alpha	4.67E-15	3.88E-15	4.65E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130565	SLA130565	08/30/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.07E-14	1.31E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130566	SLA130566	08/31/10	Gross Alpha/Beta	Gross Alpha	2.97E-15	3.35E-15	4.65E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130566	SLA130566	08/31/10	Gross Alpha/Beta	Gross Beta	2.36E-14	1.11E-14	1.31E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130567	SLA130567	08/31/10	Gross Alpha/Beta	Gross Alpha	1.50E-16	2.20E-15	4.65E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130567	SLA130567	08/31/10	Gross Alpha/Beta	Gross Beta	1.84E-14	1.07E-14	1.31E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA130568	SLA130568	09/20/10	Gross Alpha/Beta	Gross Alpha	1.94E-15	3.40E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130568	SLA130568	09/20/10	Gross Alpha/Beta	Gross Beta	1.46E-14	7.28E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131801	SLA130568	09/20/10	Gross Alpha/Beta	Gross Alpha	4.67E-15	4.42E-15	5.57E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131801	SLA130568	09/20/10	Gross Alpha/Beta	Gross Beta	3.98E-14	9.30E-15	9.15E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA130569	SLA130569	09/20/10	Gross Alpha/Beta	Gross Alpha	7.66E-16	2.97E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA130569	SLA130569	09/20/10	Gross Alpha/Beta	Gross Beta	1.76E-14	7.58E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131802	SLA130569	09/20/10	Gross Alpha/Beta	Gross Alpha	4.09E-15	4.26E-15	5.57E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131802	SLA130569	09/20/10	Gross Alpha/Beta	Gross Beta	4.43E-14	9.66E-15	9.15E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA131039	SLA131039	09/08/10	Gross Alpha/Beta	Gross Alpha	1.41E-15	3.32E-15	5.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131039	SLA131039	09/08/10	Gross Alpha/Beta	Gross Beta	2.57E-14	8.58E-15	9.51E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131040	SLA131040	09/08/10	Gross Alpha/Beta	Gross Alpha	1.84E-16	2.83E-15	5.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131040	SLA131040	09/08/10	Gross Alpha/Beta	Gross Beta	1.75E-14	7.80E-15	9.51E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131041	SLA131041	09/09/10	Gross Alpha/Beta	Gross Alpha	4.89E-15	4.31E-15	5.39E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131041	SLA131041	09/09/10	Gross Alpha/Beta	Gross Beta	2.70E-14	8.46E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131042	SLA131042	09/09/10	Gross Alpha/Beta	Gross Alpha	1.36E-15	3.19E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131042	SLA131042	09/09/10	Gross Alpha/Beta	Gross Beta	2.88E-14	8.63E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131043	SLA131043	09/13/10	Gross Alpha/Beta	Gross Alpha	5.48E-15	4.47E-15	5.39E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131043	SLA131043	09/13/10	Gross Alpha/Beta	Gross Beta	2.77E-14	8.53E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131044	SLA131044	09/13/10	Gross Alpha/Beta	Gross Alpha	1.94E-15	3.40E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131044	SLA131044	09/13/10	Gross Alpha/Beta	Gross Beta	3.48E-14	9.14E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131045	SLA131045	09/14/10	Gross Alpha/Beta	Gross Alpha	1.94E-15	3.40E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131045	SLA131045	09/14/10	Gross Alpha/Beta	Gross Beta	3.48E-14	9.14E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131046	SLA131046	09/14/10	Gross Alpha/Beta	Gross Alpha	2.53E-15	3.60E-15	5.39E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131046	SLA131046	09/14/10	Gross Alpha/Beta	Gross Beta	3.45E-14	9.11E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131047	SLA131047	09/15/10	Gross Alpha/Beta	Gross Alpha	5.48E-15	4.47E-15	5.39E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131047	SLA131047	09/15/10	Gross Alpha/Beta	Gross Beta	4.35E-14	9.82E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131048	SLA131048	09/15/10	Gross Alpha/Beta	Gross Alpha	7.84E-15	5.05E-15	5.39E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131048	SLA131048	09/15/10	Gross Alpha/Beta	Gross Beta	3.18E-14	8.89E-15	9.16E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131049	SLA131049	09/16/10	Gross Alpha/Beta	Gross Alpha	1.44E-15	3.38E-15	5.70E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131049	SLA131049	09/16/10	Gross Alpha/Beta	Gross Beta	1.54E-14	7.71E-15	9.70E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131050	SLA131050	09/16/10	Gross Alpha/Beta	Gross Alpha	1.87E-16	2.88E-15	5.70E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131050	SLA131050	09/16/10	Gross Alpha/Beta	Gross Beta	1.58E-14	7.75E-15	9.70E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131051	SLA131051	09/22/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	3.96E-15	5.90E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131051	SLA131051	09/22/10	Gross Alpha/Beta	Gross Beta	7.15E-15	6.42E-15	9.68E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131052	SLA131052	09/22/10	Gross Alpha/Beta	Gross Alpha	-4.20E-17	3.07E-15	5.90E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131052	SLA131052	09/22/10	Gross Alpha/Beta	Gross Beta	1.15E-14	6.94E-15	9.68E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131388	SLA131388	09/28/10	Gross Alpha/Beta	Gross Alpha	3.16E-15	3.16E-15	4.11E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131388	SLA131388	09/28/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.12E-14	1.33E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131389	SLA131389	09/28/10	Gross Alpha/Beta	Gross Alpha	7.87E-15	4.60E-15	4.11E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131389	SLA131389	09/28/10	Gross Alpha/Beta	Gross Beta	2.08E-14	1.09E-14	1.33E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131390	SLA131390	09/30/10	Gross Alpha/Beta	Gross Alpha	3.16E-15	3.16E-15	4.11E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131390	SLA131390	09/30/10	Gross Alpha/Beta	Gross Beta	1.14E-14	1.02E-14	1.33E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131391	SLA131391	09/30/10	Gross Alpha/Beta	Gross Alpha	-9.62E-16	5.06E-16	4.11E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131391	SLA131391	09/30/10	Gross Alpha/Beta	Gross Beta	2.35E-14	1.11E-14	1.33E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131392	SLA131392	10/04/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	3.76E-15	4.11E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131392	SLA131392	10/04/10	Gross Alpha/Beta	Gross Beta	1.10E-14	1.02E-14	1.33E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131393	SLA131393	10/04/10	Gross Alpha/Beta	Gross Alpha	1.98E-15	2.68E-15	4.11E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131393	SLA131393	10/04/10	Gross Alpha/Beta	Gross Beta	5.72E-15	9.80E-15	1.33E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131394	SLA131394	10/11/10	Gross Alpha/Beta	Gross Alpha	6.71E-15	4.72E-15	4.82E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131394	SLA131394	10/11/10	Gross Alpha/Beta	Gross Beta	4.60E-14	1.23E-14	1.47E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131395	SLA131395	10/11/10	Gross Alpha/Beta	Gross Alpha	6.71E-15	4.72E-15	4.82E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA131395	SLA131395	10/11/10	Gross Alpha/Beta	Gross Beta	4.77E-14	1.24E-14	1.47E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131789	SLA131789	10/13/10	Gross Alpha/Beta	Gross Alpha	3.48E-15	3.35E-15	4.13E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131789	SLA131789	10/13/10	Gross Alpha/Beta	Gross Beta	2.78E-14	9.69E-15	1.26E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131790	SLA131790	10/13/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	4.36E-15	4.13E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131790	SLA131790	10/13/10	Gross Alpha/Beta	Gross Beta	1.87E-14	8.98E-15	1.26E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131791	SLA131791	10/12/10	Gross Alpha/Beta	Gross Alpha	7.01E-15	4.44E-15	4.21E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131791	SLA131791	10/12/10	Gross Alpha/Beta	Gross Beta	5.42E-14	1.17E-14	1.28E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131792	SLA131792	10/12/10	Gross Alpha/Beta	Gross Alpha	1.16E-14	5.52E-15	4.21E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131792	SLA131792	10/12/10	Gross Alpha/Beta	Gross Beta	5.90E-14	1.20E-14	1.28E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131793	SLA131793	10/14/10	Gross Alpha/Beta	Gross Alpha	4.20E-15	3.67E-15	4.28E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131793	SLA131793	10/14/10	Gross Alpha/Beta	Gross Beta	1.98E-14	9.34E-15	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131794	SLA131794	10/14/10	Gross Alpha/Beta	Gross Alpha	1.85E-15	2.81E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131794	SLA131794	10/14/10	Gross Alpha/Beta	Gross Beta	1.71E-14	9.13E-15	1.30E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131795	SLA131795	10/18/10	Gross Alpha/Beta	Gross Alpha	1.07E-14	5.37E-15	4.28E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131795	SLA131795	10/18/10	Gross Alpha/Beta	Gross Beta	5.00E-14	1.15E-14	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131796	SLA131796	10/18/10	Gross Alpha/Beta	Gross Alpha	9.50E-15	5.10E-15	4.28E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131796	SLA131796	10/18/10	Gross Alpha/Beta	Gross Beta	5.75E-14	1.20E-14	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131797	SLA131797	10/19/10	Gross Alpha/Beta	Gross Alpha	3.02E-15	3.26E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131797	SLA131797	10/19/10	Gross Alpha/Beta	Gross Beta	2.73E-14	9.94E-15	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131798	SLA131798	10/19/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	2.55E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131798	SLA131798	10/19/10	Gross Alpha/Beta	Gross Beta	2.51E-14	9.76E-15	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131799	SLA131799	10/20/10	Gross Alpha/Beta	Gross Alpha	4.20E-15	3.67E-15	4.28E-15	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA131799	SLA131799	10/20/10	Gross Alpha/Beta	Gross Beta	3.30E-14	1.04E-14	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131800	SLA131800	10/20/10	Gross Alpha/Beta	Gross Alpha	5.97E-15	4.20E-15	4.28E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131800	SLA131800	10/20/10	Gross Alpha/Beta	Gross Beta	4.24E-14	1.10E-14	1.30E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131803	SLA131803	10/21/10	Gross Alpha/Beta	Gross Alpha	7.51E-16	2.51E-15	4.82E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131803	SLA131803	10/21/10	Gross Alpha/Beta	Gross Beta	1.48E-14	1.16E-14	1.48E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131804	SLA131804	10/21/10	Gross Alpha/Beta	Gross Alpha	1.41E-15	2.84E-15	4.82E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131804	SLA131804	10/21/10	Gross Alpha/Beta	Gross Beta	8.01E-15	1.11E-14	1.48E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131805	SLA131805	10/26/10	Gross Alpha/Beta	Gross Alpha	7.80E-17	1.90E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131805	SLA131805	10/26/10	Gross Alpha/Beta	Gross Beta	8.25E-15	9.91E-15	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131806	SLA131806	10/26/10	Gross Alpha/Beta	Gross Alpha	2.43E-15	3.03E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131806	SLA131806	10/26/10	Gross Alpha/Beta	Gross Beta	9.00E-15	9.97E-15	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131807	SLA131807	10/27/10	Gross Alpha/Beta	Gross Alpha	7.80E-17	1.90E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131807	SLA131807	10/27/10	Gross Alpha/Beta	Gross Beta	9.76E-15	1.00E-14	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131808	SLA131808	10/27/10	Gross Alpha/Beta	Gross Alpha	2.43E-15	3.03E-15	4.28E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131808	SLA131808	10/27/10	Gross Alpha/Beta	Gross Beta	8.62E-15	9.94E-15	1.31E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131809	SLA131809	10/30/10	Gross Alpha/Beta	Gross Alpha	1.05E-15	2.11E-15	3.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131809	SLA131809	10/30/10	Gross Alpha/Beta	Gross Beta	2.14E-14	9.34E-15	1.10E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131810	SLA131810	10/30/10	Gross Alpha/Beta	Gross Alpha	2.04E-15	2.53E-15	3.59E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131810	SLA131810	10/30/10	Gross Alpha/Beta	Gross Beta	2.14E-14	9.34E-15	1.10E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA131811	SLA131811	10/31/10	Gross Alpha/Beta	Gross Alpha	2.32E-15	3.50E-15	5.38E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131811	SLA131811	10/31/10	Gross Alpha/Beta	Gross Beta	1.75E-14	1.30E-14	1.65E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA131812	SLA131812	10/31/10	Gross Alpha/Beta	Gross Alpha	1.58E-15	3.17E-15	5.38E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131812	SLA131812	10/31/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.35E-14	1.65E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA131813	SLA131813	11/02/10	Gross Alpha/Beta	Gross Alpha	3.40E-15	3.65E-15	4.82E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA131813	SLA131813	11/02/10	Gross Alpha/Beta	Gross Beta	3.30E-14	1.28E-14	1.48E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132422	SLA132422	11/02/10	Gross Alpha/Beta	Gross Alpha	4.29E-15	4.53E-15	6.23E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132422	SLA132422	11/02/10	Gross Alpha/Beta	Gross Beta	2.80E-14	9.60E-15	9.82E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132423	SLA132423	11/03/10	Gross Alpha/Beta	Gross Alpha	8.79E-15	5.62E-15	6.04E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132423	SLA132423	11/03/10	Gross Alpha/Beta	Gross Beta	2.28E-14	8.93E-15	9.52E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132424	SLA132424	11/03/10	Gross Alpha/Beta	Gross Alpha	2.84E-15	3.98E-15	6.04E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132424	SLA132424	11/03/10	Gross Alpha/Beta	Gross Beta	2.51E-14	9.14E-15	9.52E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132425	SLA132425	11/04/10	Gross Alpha/Beta	Gross Alpha	8.34E-16	3.16E-15	5.86E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132425	SLA132425	11/04/10	Gross Alpha/Beta	Gross Beta	1.48E-14	7.99E-15	9.24E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132426	SLA132426	11/04/10	Gross Alpha/Beta	Gross Alpha	2.76E-15	3.86E-15	5.86E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132426	SLA132426	11/04/10	Gross Alpha/Beta	Gross Beta	1.29E-14	7.80E-15	9.24E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132427	SLA132427	11/08/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	4.54E-15	5.54E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132427	SLA132427	11/08/10	Gross Alpha/Beta	Gross Beta	2.49E-14	8.53E-15	8.73E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132428	SLA132428	11/08/10	Gross Alpha/Beta	Gross Alpha	3.82E-15	4.03E-15	5.54E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132428	SLA132428	11/08/10	Gross Alpha/Beta	Gross Beta	2.74E-14	8.75E-15	8.73E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132429	SLA132429	11/09/10	Gross Alpha/Beta	Gross Alpha	5.63E-15	4.54E-15	5.54E-15	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132429	SLA132429	11/09/10	Gross Alpha/Beta	Gross Beta	1.76E-14	7.89E-15	8.73E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132430	SLA132430	11/09/10	Gross Alpha/Beta	Gross Alpha	1.39E-15	3.22E-15	5.54E-15	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132430	SLA132430	11/09/10	Gross Alpha/Beta	Gross Beta	1.54E-14	7.68E-15	8.73E-15	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132431	SLA132431	11/17/10	Gross Alpha/Beta	Gross Alpha	4.79E-14	4.75E-14	5.74E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA132431	SLA132431	11/17/10	Gross Alpha/Beta	Gross Beta	3.37E-13	9.02E-14	8.88E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132432	SLA132432	11/17/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	3.71E-14	5.74E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132432	SLA132432	11/17/10	Gross Alpha/Beta	Gross Beta	3.52E-13	9.13E-14	8.88E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132433	SLA132433	11/18/10	Gross Alpha/Beta	Gross Alpha	7.60E-14	5.32E-14	5.59E-14	uCi/mL	J	T04	SLAPS (General Area)-Perimeter Air
SLA132433	SLA132433	11/18/10	Gross Alpha/Beta	Gross Beta	3.07E-13	8.60E-14	8.64E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132434	SLA132434	11/18/10	Gross Alpha/Beta	Gross Alpha	4.07E-14	4.47E-14	5.59E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132434	SLA132434	11/18/10	Gross Alpha/Beta	Gross Beta	2.43E-13	8.06E-14	8.64E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132435	SLA132435	11/22/10	Gross Alpha/Beta	Gross Alpha	5.12E-14	5.08E-14	6.14E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA132435	SLA132435	11/22/10	Gross Alpha/Beta	Gross Beta	2.71E-13	8.89E-14	9.50E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132436	SLA132436	11/22/10	Gross Alpha/Beta	Gross Alpha	3.11E-14	4.47E-14	6.02E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132436	SLA132436	11/22/10	Gross Alpha/Beta	Gross Beta	2.74E-13	8.78E-14	9.31E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132437	SLA132437	11/23/10	Gross Alpha/Beta	Gross Alpha	2.59E-14	4.48E-14	6.30E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132437	SLA132437	11/23/10	Gross Alpha/Beta	Gross Beta	3.22E-13	9.50E-14	9.75E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132438	SLA132438	11/23/10	Gross Alpha/Beta	Gross Alpha	6.07E-15	3.90E-14	6.39E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132438	SLA132438	11/23/10	Gross Alpha/Beta	Gross Beta	3.47E-13	9.81E-14	9.89E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132439	SLA132439	11/30/10	Gross Alpha/Beta	Gross Alpha	2.25E-14	3.89E-14	5.47E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132439	SLA132439	11/30/10	Gross Alpha/Beta	Gross Beta	3.49E-13	8.81E-14	8.46E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132440	SLA132440	11/30/10	Gross Alpha/Beta	Gross Alpha	2.94E-14	4.21E-14	5.68E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132440	SLA132440	11/30/10	Gross Alpha/Beta	Gross Beta	3.59E-13	9.12E-14	8.79E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132441	SLA132441	12/01/10	Gross Alpha/Beta	Gross Alpha	-5.89E-16	3.20E-14	5.59E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA132441	SLA132441	12/01/10	Gross Alpha/Beta	Gross Beta	2.61E-13	8.21E-14	8.64E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132442	SLA132442	12/01/10	Gross Alpha/Beta	Gross Alpha	5.33E-14	4.85E-14	5.68E-14	uCi/mL	U	T04, T05	SLAPS (General Area)-Perimeter Air
SLA132442	SLA132442	12/01/10	Gross Alpha/Beta	Gross Beta	2.33E-13	8.06E-14	8.79E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132443	SLA132443	12/02/10	Gross Alpha/Beta	Gross Alpha	1.91E-14	4.24E-14	6.24E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132443	SLA132443	12/02/10	Gross Alpha/Beta	Gross Beta	3.31E-13	9.51E-14	9.65E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132444	SLA132444	12/02/10	Gross Alpha/Beta	Gross Alpha	3.29E-14	4.72E-14	6.37E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132444	SLA132444	12/02/10	Gross Alpha/Beta	Gross Beta	2.45E-13	8.89E-14	9.85E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132445	SLA132445	12/06/10	Gross Alpha/Beta	Gross Alpha	4.41E-14	4.84E-14	6.06E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132445	SLA132445	12/06/10	Gross Alpha/Beta	Gross Beta	3.13E-13	9.16E-14	9.37E-14	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SLA132446	SLA132446	12/06/10	Gross Alpha/Beta	Gross Alpha	3.35E-14	3.74E-14	4.97E-14	uCi/mL	UJ	T06	SLAPS (General Area)-Perimeter Air
SLA132446	SLA132446	12/06/10	Gross Alpha/Beta	Gross Beta	3.43E-13	1.16E-13	1.34E-13	uCi/mL	=		SLAPS (General Area)-Perimeter Air
SVP130850	SVP 130850	08/10/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	5.98E-15	6.05E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP130850	SVP 130850	08/10/10	Gross Alpha/Beta	Gross Beta	4.46E-14	1.07E-14	1.03E-14	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130851	SVP 130851	08/11/10	Gross Alpha/Beta	Gross Alpha	5.05E-15	4.45E-15	5.56E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130851	SVP 130851	08/11/10	Gross Alpha/Beta	Gross Beta	3.68E-14	9.50E-15	9.46E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130852	SVP 130852	08/11/10	Gross Alpha/Beta	Gross Alpha	3.84E-15	4.10E-15	5.56E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130852	SVP 130852	08/11/10	Gross Alpha/Beta	Gross Beta	3.60E-14	9.44E-15	9.46E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130853	SVP 130853	08/16/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	3.68E-15	4.99E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130853	SVP 130853	08/16/10	Gross Alpha/Beta	Gross Beta	1.14E-14	6.52E-15	8.48E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP130854	SVP 130854	08/16/10	Gross Alpha/Beta	Gross Alpha	8.00E-16	3.10E-15	5.62E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130854	SVP 130854	08/16/10	Gross Alpha/Beta	Gross Beta	2.54E-14	8.59E-15	9.57E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130855	SVP 130855	08/17/10	Gross Alpha/Beta	Gross Alpha	3.64E-15	3.89E-15	5.28E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130855	SVP 130855	08/17/10	Gross Alpha/Beta	Gross Beta	2.27E-14	7.96E-15	8.98E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130856	SVP 130856	08/17/10	Gross Alpha/Beta	Gross Alpha	2.46E-15	3.49E-15	5.22E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130856	SVP 130856	08/17/10	Gross Alpha/Beta	Gross Beta	7.96E-15	6.39E-15	8.88E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130857	SVP 130857	08/18/10	Gross Alpha/Beta	Gross Alpha	3.56E-15	3.81E-15	5.17E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130857	SVP 130857	08/18/10	Gross Alpha/Beta	Gross Beta	3.06E-14	8.53E-15	8.79E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130858	SVP 130858	08/18/10	Gross Alpha/Beta	Gross Alpha	9.22E-15	5.23E-15	5.17E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP130858	SVP 130858	08/18/10	Gross Alpha/Beta	Gross Beta	3.74E-14	9.09E-15	8.79E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130859	SVP 130859	08/23/10	Gross Alpha/Beta	Gross Alpha	4.46E-15	6.34E-15	9.48E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130859	SVP 130859	08/23/10	Gross Alpha/Beta	Gross Beta	1.31E-14	1.14E-14	1.61E-14	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130860	SVP 130860	08/23/10	Gross Alpha/Beta	Gross Alpha	2.05E-15	3.60E-15	5.69E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130860	SVP 130860	08/23/10	Gross Alpha/Beta	Gross Beta	1.86E-14	8.01E-15	9.67E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130861	SVP 130861	08/24/10	Gross Alpha/Beta	Gross Alpha	6.14E-15	4.67E-15	5.45E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP130861	SVP 130861	08/24/10	Gross Alpha/Beta	Gross Beta	2.01E-14	7.89E-15	9.26E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130862	SVP 130862	08/24/10	Gross Alpha/Beta	Gross Alpha	4.32E-15	4.16E-15	5.41E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130862	SVP 130862	08/24/10	Gross Alpha/Beta	Gross Beta	1.50E-14	7.35E-15	9.20E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130863	SVP 130863	08/26/10	Gross Alpha/Beta	Gross Alpha	1.87E-16	2.88E-15	5.69E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130863	SVP 130863	08/26/10	Gross Alpha/Beta	Gross Beta	2.57E-14	8.69E-15	9.67E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130864	SVP 130864	08/26/10	Gross Alpha/Beta	Gross Alpha	4.53E-15	4.37E-15	5.68E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130864	SVP 130864	08/26/10	Gross Alpha/Beta	Gross Beta	2.05E-14	8.18E-15	9.65E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130865	SVP 130865	08/30/10	Gross Alpha/Beta	Gross Alpha	5.46E-15	4.45E-15	5.37E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP130865	SVP 130865	08/30/10	Gross Alpha/Beta	Gross Beta	1.38E-14	7.17E-15	9.12E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP130866	SVP 130866	08/30/10	Gross Alpha/Beta	Gross Alpha	7.54E-16	2.92E-15	5.30E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130866	SVP 130866	08/30/10	Gross Alpha/Beta	Gross Beta	7.70E-15	6.44E-15	9.01E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP130867	SVP 130867	08/31/10	Gross Alpha/Beta	Gross Alpha	1.32E-15	3.11E-15	5.24E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130867	SVP 130867	08/31/10	Gross Alpha/Beta	Gross Beta	1.90E-14	7.56E-15	8.92E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP130868	SVP 130868	08/31/10	Gross Alpha/Beta	Gross Alpha	7.46E-16	2.89E-15	5.24E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130868	SVP 130868	08/31/10	Gross Alpha/Beta	Gross Beta	2.22E-14	7.87E-15	8.92E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP128637	SVP128637	03/09/10	Gross Alpha/Beta	Gross Alpha	2.90E-14	1.06E-14	7.73E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP128637	SVP128637	03/09/10	Gross Alpha/Beta	Gross Beta	4.38E-14	1.27E-14	1.22E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP128638	SVP128638	03/09/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	7.60E-15	7.88E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128638	SVP128638	03/09/10	Gross Alpha/Beta	Gross Beta	1.15E-14	8.84E-15	1.27E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128639	SVP128639	03/10/10	Gross Alpha/Beta	Gross Alpha	9.69E-15	8.60E-15	1.05E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128639	SVP128639	03/10/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.18E-14	1.69E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128640	SVP128640	03/10/10	Gross Alpha/Beta	Gross Alpha	7.49E-15	8.01E-15	1.05E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP128640	SVP128640	03/10/10	Gross Alpha/Beta	Gross Beta	2.23E-14	1.26E-14	1.69E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128641	SVP128641	03/11/10	Gross Alpha/Beta	Gross Alpha	1.31E-14	8.58E-15	9.11E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128641	SVP128641	03/11/10	Gross Alpha/Beta	Gross Beta	1.20E-14	1.01E-14	1.47E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128642	SVP128642	03/11/10	Gross Alpha/Beta	Gross Alpha	1.22E-14	8.36E-15	9.11E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128642	SVP128642	03/11/10	Gross Alpha/Beta	Gross Beta	1.57E-14	1.05E-14	1.47E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128643	SVP128643	03/15/10	Gross Alpha/Beta	Gross Alpha	7.66E-15	7.41E-15	9.39E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128643	SVP128643	03/15/10	Gross Alpha/Beta	Gross Beta	1.55E-14	1.08E-14	1.51E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128644	SVP128644	03/15/10	Gross Alpha/Beta	Gross Alpha	2.75E-15	5.97E-15	9.39E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP128644	SVP128644	03/15/10	Gross Alpha/Beta	Gross Beta	6.77E-15	9.68E-15	1.51E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP128645	SVP128645	03/16/10	Gross Alpha/Beta	Gross Alpha	5.97E-15	5.77E-15	7.31E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP128645	SVP128645	03/16/10	Gross Alpha/Beta	Gross Beta	1.45E-14	8.66E-15	1.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128646	SVP128646	03/16/10	Gross Alpha/Beta	Gross Alpha	7.50E-15	6.17E-15	7.31E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP128646	SVP128646	03/16/10	Gross Alpha/Beta	Gross Beta	1.36E-14	8.55E-15	1.18E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129306	SVP129306	03/17/10	Gross Alpha/Beta	Gross Alpha	1.25E-14	8.18E-15	8.69E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129306	SVP129306	03/17/10	Gross Alpha/Beta	Gross Beta	2.71E-14	1.13E-14	1.40E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129307	SVP129307	03/17/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	5.57E-15	8.77E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129307	SVP129307	03/17/10	Gross Alpha/Beta	Gross Beta	2.15E-14	1.08E-14	1.41E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129308	SVP129308	03/09/10	Gross Alpha/Beta	Gross Alpha	5.64E-15	5.46E-15	6.91E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129308	SVP129308	03/09/10	Gross Alpha/Beta	Gross Beta	2.06E-14	8.93E-15	1.11E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129309	SVP129309	03/09/10	Gross Alpha/Beta	Gross Alpha	4.13E-14	2.99E-14	3.35E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129309	SVP129309	03/09/10	Gross Alpha/Beta	Gross Beta	1.02E-13	4.34E-14	5.38E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129310	SVP129310	03/10/10	Gross Alpha/Beta	Gross Alpha	1.05E-14	8.04E-15	9.25E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129310	SVP129310	03/10/10	Gross Alpha/Beta	Gross Beta	2.76E-14	1.19E-14	1.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129311	SVP129311	03/10/10	Gross Alpha/Beta	Gross Alpha	6.58E-15	7.04E-15	9.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129311	SVP129311	03/10/10	Gross Alpha/Beta	Gross Beta	2.33E-14	1.15E-14	1.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129312	SVP129312	03/11/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	5.09E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129312	SVP129312	03/11/10	Gross Alpha/Beta	Gross Beta	1.38E-14	9.23E-15	1.29E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129313	SVP129313	03/11/10	Gross Alpha/Beta	Gross Alpha	1.51E-15	4.80E-15	8.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129313	SVP129313	03/11/10	Gross Alpha/Beta	Gross Beta	1.54E-14	9.42E-15	1.29E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129314	SVP129314	03/15/10	Gross Alpha/Beta	Gross Alpha	6.90E-16	4.64E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP129314	SVP129314	03/15/10	Gross Alpha/Beta	Gross Beta	2.08E-14	1.02E-14	1.33E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129315	SVP129315	03/15/10	Gross Alpha/Beta	Gross Alpha	4.14E-15	5.78E-15	8.25E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129315	SVP129315	03/15/10	Gross Alpha/Beta	Gross Beta	1.58E-14	9.70E-15	1.33E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129316	SVP129316	03/16/10	Gross Alpha/Beta	Gross Alpha	2.56E-15	4.31E-15	6.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129316	SVP129316	03/16/10	Gross Alpha/Beta	Gross Beta	1.79E-14	8.18E-15	1.04E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129317	SVP129317	03/16/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	4.51E-15	6.44E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129317	SVP129317	03/16/10	Gross Alpha/Beta	Gross Beta	7.65E-15	7.02E-15	1.04E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129318	SVP129318	03/17/10	Gross Alpha/Beta	Gross Alpha	1.11E-14	7.21E-15	7.65E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129318	SVP129318	03/17/10	Gross Alpha/Beta	Gross Beta	2.64E-14	1.03E-14	1.23E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129319	SVP129319	03/17/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	5.80E-15	8.28E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129319	SVP129319	03/17/10	Gross Alpha/Beta	Gross Beta	3.90E-14	1.21E-14	1.33E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129424	SVP129424	05/17/10	Gross Alpha/Beta	Gross Alpha	-1.98E-15	2.94E-15	7.93E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129424	SVP129424	05/17/10	Gross Alpha/Beta	Gross Beta	4.38E-15	8.84E-15	1.31E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129425	SVP129425	05/17/10	Gross Alpha/Beta	Gross Alpha	-2.77E-15	2.43E-15	7.88E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129425	SVP129425	05/17/10	Gross Alpha/Beta	Gross Beta	4.87E-15	8.84E-15	1.30E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129426	SVP129426	05/24/10	Gross Alpha/Beta	Gross Alpha	3.39E-15	4.09E-15	5.94E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129426	SVP129426	05/24/10	Gross Alpha/Beta	Gross Beta	1.18E-14	7.55E-15	9.80E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129427	SVP129427	05/24/10	Gross Alpha/Beta	Gross Alpha	3.39E-15	4.09E-15	5.94E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129427	SVP129427	05/24/10	Gross Alpha/Beta	Gross Beta	1.41E-14	7.79E-15	9.80E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129428	SVP129428	06/01/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	5.87E-15	8.53E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129428	SVP129428	06/01/10	Gross Alpha/Beta	Gross Beta	1.70E-14	1.09E-14	1.41E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129429	SVP129429	06/01/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	6.06E-15	8.80E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129429	SVP129429	06/01/10	Gross Alpha/Beta	Gross Beta	2.79E-14	1.22E-14	1.45E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129430	SVP129430	06/15/10	Gross Alpha/Beta	Gross Alpha	-1.06E-15	1.57E-15	4.23E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129430	SVP129430	06/15/10	Gross Alpha/Beta	Gross Beta	8.98E-15	5.45E-15	6.99E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129431	SVP129431	06/15/10	Gross Alpha/Beta	Gross Alpha	5.26E-16	4.64E-15	9.04E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129431	SVP129431	06/15/10	Gross Alpha/Beta	Gross Beta	2.45E-14	1.22E-14	1.49E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129432	SVP129432	05/17/10	Gross Alpha/Beta	Gross Alpha	2.38E-15	5.34E-15	9.06E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129432	SVP129432	05/17/10	Gross Alpha/Beta	Gross Beta	3.82E-15	9.96E-15	1.50E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129433	SVP129433	05/17/10	Gross Alpha/Beta	Gross Alpha	2.36E-15	5.29E-15	8.96E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129433	SVP129433	05/17/10	Gross Alpha/Beta	Gross Beta	4.37E-15	9.93E-15	1.48E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129434	SVP129434	05/24/10	Gross Alpha/Beta	Gross Alpha	1.08E-15	3.73E-15	6.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129434	SVP129434	05/24/10	Gross Alpha/Beta	Gross Beta	4.61E-15	7.62E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129435	SVP129435	05/24/10	Gross Alpha/Beta	Gross Alpha	2.47E-15	4.21E-15	6.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129435	SVP129435	05/24/10	Gross Alpha/Beta	Gross Beta	5.49E-15	7.72E-15	1.11E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129436	SVP129436	06/01/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	6.05E-15	9.69E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129436	SVP129436	06/01/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.28E-14	1.60E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129437	SVP129437	06/01/10	Gross Alpha/Beta	Gross Alpha	1.19E-14	8.54E-15	1.00E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129437	SVP129437	06/01/10	Gross Alpha/Beta	Gross Beta	1.34E-14	1.20E-14	1.65E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129438	SVP129438	06/15/10	Gross Alpha/Beta	Gross Alpha	4.40E-16	3.88E-15	7.56E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129438	SVP129438	06/15/10	Gross Alpha/Beta	Gross Beta	1.80E-14	9.93E-15	1.25E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129439	SVP129439	06/15/10	Gross Alpha/Beta	Gross Alpha	1.97E-15	4.41E-15	7.47E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129439	SVP129439	06/15/10	Gross Alpha/Beta	Gross Beta	5.11E-15	8.45E-15	1.23E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP129440	SVP129440	06/08/10	Gross Alpha/Beta	Gross Alpha	2.33E-15	2.81E-15	4.07E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129440	SVP129440	06/08/10	Gross Alpha/Beta	Gross Beta	1.29E-14	5.66E-15	6.73E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129441	SVP129441	06/08/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	3.13E-15	4.04E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129441	SVP129441	06/08/10	Gross Alpha/Beta	Gross Beta	1.49E-14	5.81E-15	6.67E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129442	SVP129441	06/09/10	Gross Alpha/Beta	Gross Alpha	2.69E-16	2.38E-15	4.63E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129442	SVP129441	06/09/10	Gross Alpha/Beta	Gross Beta	1.62E-14	6.57E-15	7.64E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129443	SVP129443	06/09/10	Gross Alpha/Beta	Gross Alpha	4.04E-15	3.56E-15	4.60E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129443	SVP129443	06/09/10	Gross Alpha/Beta	Gross Beta	1.67E-14	6.57E-15	7.58E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129444	SVP129444	06/10/10	Gross Alpha/Beta	Gross Alpha	4.17E-15	4.16E-15	5.47E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129444	SVP129444	06/10/10	Gross Alpha/Beta	Gross Beta	1.84E-14	7.65E-15	8.91E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129445	SVP129445	06/10/10	Gross Alpha/Beta	Gross Alpha	8.67E-15	5.43E-15	5.72E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129445	SVP129445	06/10/10	Gross Alpha/Beta	Gross Beta	2.40E-14	8.45E-15	9.31E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129446	SVP129446	06/10/10	Gross Alpha/Beta	Gross Alpha	4.08E-15	4.53E-15	6.22E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129446	SVP129446	06/10/10	Gross Alpha/Beta	Gross Beta	1.67E-14	8.27E-15	1.01E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129447	SVP129447	06/10/10	Gross Alpha/Beta	Gross Alpha	7.69E-16	3.56E-15	6.51E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129447	SVP129447	06/10/10	Gross Alpha/Beta	Gross Beta	1.88E-14	8.79E-15	1.06E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129448	SVP129448	06/14/10	Gross Alpha/Beta	Gross Alpha	4.33E-15	5.50E-15	7.91E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129448	SVP129448	06/14/10	Gross Alpha/Beta	Gross Beta	1.26E-14	9.59E-15	1.29E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129449	SVP129449	06/14/10	Gross Alpha/Beta	Gross Alpha	4.33E-15	5.50E-15	7.91E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129449	SVP129449	06/14/10	Gross Alpha/Beta	Gross Beta	8.24E-15	9.09E-15	1.29E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129450	SVP129450	06/14/10	Gross Alpha/Beta	Gross Alpha	2.99E-15	5.62E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129450	SVP129450	06/14/10	Gross Alpha/Beta	Gross Beta	1.43E-14	1.09E-14	1.46E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129451	SVP129451	06/14/10	Gross Alpha/Beta	Gross Alpha	3.95E-15	5.94E-15	8.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129451	SVP129451	06/14/10	Gross Alpha/Beta	Gross Beta	1.06E-14	1.05E-14	1.46E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129452	SVP129452	05/13/10	Gross Alpha/Beta	Gross Alpha	6.89E-15	5.77E-15	7.05E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129452	SVP129452	05/13/10	Gross Alpha/Beta	Gross Beta	8.79E-15	8.27E-15	1.15E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129453	SVP129453	05/13/10	Gross Alpha/Beta	Gross Alpha	5.44E-15	5.42E-15	7.14E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129453	SVP129453	05/13/10	Gross Alpha/Beta	Gross Beta	7.92E-15	8.25E-15	1.16E-14	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129454	SVP129454	05/13/10	Gross Alpha/Beta	Gross Alpha	2.07E-15	3.88E-15	6.21E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129454	SVP129454	05/13/10	Gross Alpha/Beta	Gross Beta	1.20E-14	7.76E-15	1.01E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129455	SVP129455	05/13/10	Gross Alpha/Beta	Gross Alpha	3.03E-15	4.55E-15	6.87E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129455	SVP129455	05/13/10	Gross Alpha/Beta	Gross Beta	1.09E-14	8.32E-15	1.12E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129456	SVP129456	05/19/10	Gross Alpha/Beta	Gross Alpha	8.85E-15	6.12E-15	6.81E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129456	SVP129456	05/19/10	Gross Alpha/Beta	Gross Beta	8.96E-15	8.04E-15	1.11E-14	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129457	SVP129457	05/19/10	Gross Alpha/Beta	Gross Alpha	2.29E-15	4.31E-15	6.89E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129457	SVP129457	05/19/10	Gross Alpha/Beta	Gross Beta	1.19E-14	8.45E-15	1.12E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129458	SVP129458	05/19/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	4.36E-15	5.99E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129458	SVP129458	05/19/10	Gross Alpha/Beta	Gross Beta	2.47E-14	8.81E-15	9.75E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129459	SVP129459	05/19/10	Gross Alpha/Beta	Gross Alpha	2.67E-15	4.01E-15	6.06E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129459	SVP129459	05/19/10	Gross Alpha/Beta	Gross Beta	1.88E-14	8.31E-15	9.86E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129460	SVP129460	06/22/10	Gross Alpha/Beta	Gross Alpha	3.58E-15	4.55E-15	6.54E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129460	SVP129460	06/22/10	Gross Alpha/Beta	Gross Beta	1.89E-14	8.83E-15	1.06E-14	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129461	SVP129461	06/22/10	Gross Alpha/Beta	Gross Alpha	2.85E-15	4.29E-15	6.48E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP129461	SVP129461	06/22/10	Gross Alpha/Beta	Gross Beta	1.56E-14	8.43E-15	1.06E-14	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129462	SVP129462	06/23/10	Gross Alpha/Beta	Gross Alpha	5.47E-15	4.58E-15	5.60E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129462	SVP129462	06/23/10	Gross Alpha/Beta	Gross Beta	2.08E-14	8.02E-15	9.11E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129463	SVP129463	06/23/10	Gross Alpha/Beta	Gross Alpha	4.81E-15	4.36E-15	5.53E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129463	SVP129463	06/23/10	Gross Alpha/Beta	Gross Beta	2.88E-14	8.67E-15	8.99E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129464	SVP129464	06/28/10	Gross Alpha/Beta	Gross Alpha	1.35E-15	3.52E-15	6.00E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129464	SVP129464	06/28/10	Gross Alpha/Beta	Gross Beta	2.14E-14	8.51E-15	9.76E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129465	SVP129465	06/28/10	Gross Alpha/Beta	Gross Alpha	2.65E-15	3.98E-15	6.01E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129465	SVP129465	06/28/10	Gross Alpha/Beta	Gross Beta	1.86E-14	8.24E-15	9.78E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129466	SVP129466	06/29/10	Gross Alpha/Beta	Gross Alpha	1.22E-15	3.17E-15	5.39E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129466	SVP129466	06/29/10	Gross Alpha/Beta	Gross Beta	1.11E-14	6.81E-15	8.76E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129467	SVP129467	06/29/10	Gross Alpha/Beta	Gross Alpha	-5.21E-16	2.45E-15	5.39E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129467	SVP129467	06/29/10	Gross Alpha/Beta	Gross Beta	1.00E-14	6.69E-15	8.76E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129468	SVP129468	06/30/10	Gross Alpha/Beta	Gross Alpha	2.64E-15	3.96E-15	5.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129468	SVP129468	06/30/10	Gross Alpha/Beta	Gross Beta	7.05E-15	6.97E-15	9.74E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129469	SVP129469	06/30/10	Gross Alpha/Beta	Gross Alpha	3.92E-15	4.36E-15	5.98E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129469	SVP129469	06/30/10	Gross Alpha/Beta	Gross Beta	1.48E-14	7.83E-15	9.74E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129470	SVP129470	06/22/10	Gross Alpha/Beta	Gross Alpha	6.75E-16	3.12E-15	5.71E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129470	SVP129470	06/22/10	Gross Alpha/Beta	Gross Beta	1.53E-14	7.59E-15	9.29E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129471	SVP129471	06/22/10	Gross Alpha/Beta	Gross Alpha	1.92E-15	3.60E-15	5.75E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129471	SVP129471	06/22/10	Gross Alpha/Beta	Gross Beta	1.74E-14	7.85E-15	9.36E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129472	SVP129472	06/23/10	Gross Alpha/Beta	Gross Alpha	5.32E-15	4.15E-15	4.91E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129472	SVP129472	06/23/10	Gross Alpha/Beta	Gross Beta	3.67E-14	8.61E-15	7.98E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129473	SVP129473	06/23/10	Gross Alpha/Beta	Gross Alpha	6.42E-15	4.44E-15	4.94E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129473	SVP129473	06/23/10	Gross Alpha/Beta	Gross Beta	2.61E-14	7.78E-15	8.03E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129474	SVP129474	06/28/10	Gross Alpha/Beta	Gross Alpha	5.74E-15	4.47E-15	5.29E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129474	SVP129474	06/28/10	Gross Alpha/Beta	Gross Beta	3.99E-14	9.31E-15	8.61E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129475	SVP129475	06/28/10	Gross Alpha/Beta	Gross Alpha	4.03E-15	4.01E-15	5.28E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129475	SVP129475	06/28/10	Gross Alpha/Beta	Gross Beta	2.75E-14	8.28E-15	8.59E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129476	SVP129476	06/29/10	Gross Alpha/Beta	Gross Alpha	3.62E-15	3.60E-15	4.74E-15	uCi/mL	U	T04, T05	North County Air (General Area Air)-Environmental Monitoring
SVP129476	SVP129476	06/29/10	Gross Alpha/Beta	Gross Beta	7.86E-15	5.78E-15	7.71E-15	uCi/mL	J	T04	North County Air (General Area Air)-Environmental Monitoring
SVP129477	SVP129477	06/29/10	Gross Alpha/Beta	Gross Alpha	5.10E-17	2.38E-15	4.74E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129477	SVP129477	06/29/10	Gross Alpha/Beta	Gross Beta	1.40E-14	6.44E-15	7.71E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129478	SVP129478	06/30/10	Gross Alpha/Beta	Gross Alpha	6.22E-16	2.88E-15	5.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129478	SVP129478	06/30/10	Gross Alpha/Beta	Gross Beta	4.77E-15	5.96E-15	8.57E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129479	SVP129479	06/30/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	3.30E-15	5.27E-15	uCi/mL	UJ	T06	North County Air (General Area Air)-Environmental Monitoring
SVP129479	SVP129479	06/30/10	Gross Alpha/Beta	Gross Beta	1.77E-14	7.37E-15	8.57E-15	uCi/mL	=		North County Air (General Area Air)-Environmental Monitoring
SVP129973	SVP129973	07/01/10	Gross Alpha/Beta	Gross Alpha	2.41E-15	3.76E-15	5.86E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129973	SVP129973	07/01/10	Gross Alpha/Beta	Gross Beta	1.27E-14	8.18E-15	9.94E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129974	SVP129974	07/01/10	Gross Alpha/Beta	Gross Alpha	5.06E-15	4.60E-15	5.86E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129974	SVP129974	07/01/10	Gross Alpha/Beta	Gross Beta	1.52E-14	8.44E-15	9.94E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129975	SVP129975	07/01/10	Gross Alpha/Beta	Gross Alpha	2.70E-15	3.51E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129975	SVP129975	07/01/10	Gross Alpha/Beta	Gross Beta	1.34E-14	7.43E-15	8.75E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP129976	SVP129976	07/06/10	Gross Alpha/Beta	Gross Alpha	1.08E-15	3.26E-15	5.86E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129976	SVP129976	07/06/10	Gross Alpha/Beta	Gross Beta	6.39E-15	7.50E-15	9.94E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129977	SVP129977	07/06/10	Gross Alpha/Beta	Gross Alpha	1.04E-14	5.94E-15	5.86E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129977	SVP129977	07/06/10	Gross Alpha/Beta	Gross Beta	1.74E-14	8.65E-15	9.94E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129978	SVP129978	07/07/10	Gross Alpha/Beta	Gross Alpha	3.07E-15	3.99E-15	5.86E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129978	SVP129978	07/07/10	Gross Alpha/Beta	Gross Beta	1.15E-14	8.05E-15	9.94E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129979	SVP129979	07/07/10	Gross Alpha/Beta	Gross Alpha	5.72E-15	4.79E-15	5.86E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129979	SVP129979	07/07/10	Gross Alpha/Beta	Gross Beta	2.03E-14	8.94E-15	9.94E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129980	SVP129980	07/08/10	Gross Alpha/Beta	Gross Alpha	5.06E-15	4.60E-15	5.86E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129980	SVP129980	07/08/10	Gross Alpha/Beta	Gross Beta	1.02E-14	7.92E-15	9.94E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129981	SVP129981	07/08/10	Gross Alpha/Beta	Gross Alpha	5.06E-15	4.60E-15	5.86E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129981	SVP129981	07/08/10	Gross Alpha/Beta	Gross Beta	8.50E-15	7.74E-15	9.94E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129982	SVP129982	07/12/10	Gross Alpha/Beta	Gross Alpha	3.73E-15	4.20E-15	5.86E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129982	SVP129982	07/12/10	Gross Alpha/Beta	Gross Beta	2.54E-14	9.40E-15	9.94E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129983	SVP129983	07/12/10	Gross Alpha/Beta	Gross Alpha	5.06E-15	4.60E-15	5.86E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129983	SVP129983	07/12/10	Gross Alpha/Beta	Gross Beta	2.20E-14	9.09E-15	9.94E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129984	SVP129984	07/13/10	Gross Alpha/Beta	Gross Alpha	4.60E-15	4.19E-15	5.33E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129984	SVP129984	07/13/10	Gross Alpha/Beta	Gross Beta	1.65E-14	7.94E-15	9.04E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129985	SVP129985	07/13/10	Gross Alpha/Beta	Gross Alpha	7.01E-15	4.83E-15	5.33E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129985	SVP129985	07/13/10	Gross Alpha/Beta	Gross Beta	1.58E-14	7.86E-15	9.04E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129986	SVP129986	07/14/10	Gross Alpha/Beta	Gross Alpha	4.08E-15	4.60E-15	6.41E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129986	SVP129986	07/14/10	Gross Alpha/Beta	Gross Beta	1.94E-14	9.50E-15	1.09E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129987	SVP129987	07/14/10	Gross Alpha/Beta	Gross Alpha	5.48E-15	4.99E-15	6.35E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129987	SVP129987	07/14/10	Gross Alpha/Beta	Gross Beta	1.01E-14	8.48E-15	1.08E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129988	SVP129988	07/15/10	Gross Alpha/Beta	Gross Alpha	9.92E-15	5.50E-15	4.81E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129988	SVP129988	07/15/10	Gross Alpha/Beta	Gross Beta	2.03E-14	1.12E-14	1.49E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129989	SVP129989	07/15/10	Gross Alpha/Beta	Gross Alpha	2.69E-15	3.35E-15	4.81E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129989	SVP129989	07/15/10	Gross Alpha/Beta	Gross Beta	2.25E-14	1.13E-14	1.49E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129990	SVP129990	07/19/10	Gross Alpha/Beta	Gross Alpha	7.47E-16	2.55E-15	4.97E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129990	SVP129990	07/19/10	Gross Alpha/Beta	Gross Beta	4.95E-15	1.02E-14	1.54E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129991	SVP129991	07/19/10	Gross Alpha/Beta	Gross Alpha	1.44E-15	2.92E-15	5.02E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129991	SVP129991	07/19/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.11E-14	1.56E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129992	SVP129992	07/26/10	Gross Alpha/Beta	Gross Alpha	6.38E-15	5.11E-15	5.76E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129992	SVP129992	07/26/10	Gross Alpha/Beta	Gross Beta	1.92E-14	1.30E-14	1.79E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129993	SVP129993	07/26/10	Gross Alpha/Beta	Gross Alpha	3.33E-15	4.15E-15	5.95E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129993	SVP129993	07/26/10	Gross Alpha/Beta	Gross Beta	1.98E-14	1.34E-14	1.85E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129994	SVP129994	07/27/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	6.03E-15	4.65E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129994	SVP129994	07/27/10	Gross Alpha/Beta	Gross Beta	2.68E-14	1.13E-14	1.44E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129995	SVP129995	07/27/10	Gross Alpha/Beta	Gross Alpha	7.05E-15	4.67E-15	4.65E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129995	SVP129995	07/27/10	Gross Alpha/Beta	Gross Beta	2.93E-14	1.15E-14	1.44E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129996	SVP129996	07/28/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	3.54E-15	4.44E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP129996	SVP129996	07/28/10	Gross Alpha/Beta	Gross Beta	1.60E-14	1.01E-14	1.38E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP129997	SVP129997	07/28/10	Gross Alpha/Beta	Gross Alpha	4.80E-15	3.85E-15	4.34E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP129997	SVP129997	07/28/10	Gross Alpha/Beta	Gross Beta	2.38E-14	1.05E-14	1.35E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP129998	SVP129998	07/29/10	Gross Alpha/Beta	Gross Alpha	3.24E-15	3.48E-15	4.65E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129998	SVP129998	07/29/10	Gross Alpha/Beta	Gross Beta	9.22E-15	9.95E-15	1.44E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129999	SVP129999	07/29/10	Gross Alpha/Beta	Gross Alpha	3.24E-15	3.48E-15	4.65E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP129999	SVP129999	07/29/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.04E-14	1.44E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130000	SVP130000	07/01/10	Gross Alpha/Beta	Gross Alpha	9.53E-16	2.87E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130000	SVP130000	07/01/10	Gross Alpha/Beta	Gross Beta	9.71E-15	7.05E-15	8.75E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130001	SVP130001	07/06/10	Gross Alpha/Beta	Gross Alpha	-2.14E-16	2.35E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130001	SVP130001	07/06/10	Gross Alpha/Beta	Gross Beta	1.12E-14	7.20E-15	8.75E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130002	SVP130002	07/06/10	Gross Alpha/Beta	Gross Alpha	2.70E-15	3.51E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130002	SVP130002	07/06/10	Gross Alpha/Beta	Gross Beta	1.34E-14	7.43E-15	8.75E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130003	SVP130003	07/07/10	Gross Alpha/Beta	Gross Alpha	3.87E-15	3.88E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130003	SVP130003	07/07/10	Gross Alpha/Beta	Gross Beta	7.48E-15	6.81E-15	8.75E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130004	SVP130004	07/07/10	Gross Alpha/Beta	Gross Alpha	-7.97E-16	2.04E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130004	SVP130004	07/07/10	Gross Alpha/Beta	Gross Beta	7.11E-15	6.77E-15	8.75E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130005	SVP130005	07/08/10	Gross Alpha/Beta	Gross Alpha	2.70E-15	3.51E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130005	SVP130005	07/08/10	Gross Alpha/Beta	Gross Beta	3.02E-15	6.30E-15	8.75E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130006	SVP130006	07/08/10	Gross Alpha/Beta	Gross Alpha	2.12E-15	3.31E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130006	SVP130006	07/08/10	Gross Alpha/Beta	Gross Beta	1.12E-14	7.20E-15	8.75E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130007	SVP130007	07/12/10	Gross Alpha/Beta	Gross Alpha	5.62E-15	4.38E-15	5.16E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130007	SVP130007	07/12/10	Gross Alpha/Beta	Gross Beta	3.13E-14	9.04E-15	8.75E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130008	SVP130008	07/12/10	Gross Alpha/Beta	Gross Alpha	3.29E-15	3.70E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130008	SVP130008	07/12/10	Gross Alpha/Beta	Gross Beta	1.64E-14	7.72E-15	8.75E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130009	SVP130009	07/13/10	Gross Alpha/Beta	Gross Alpha	2.99E-15	3.36E-15	4.69E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130009	SVP130009	07/13/10	Gross Alpha/Beta	Gross Beta	2.06E-14	7.55E-15	7.95E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130010	SVP130010	07/13/10	Gross Alpha/Beta	Gross Alpha	5.11E-15	3.98E-15	4.69E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130010	SVP130010	07/13/10	Gross Alpha/Beta	Gross Beta	1.69E-14	7.21E-15	7.95E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130011	SVP130011	07/14/10	Gross Alpha/Beta	Gross Alpha	1.13E-14	6.00E-15	5.64E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130011	SVP130011	07/14/10	Gross Alpha/Beta	Gross Beta	1.96E-14	8.60E-15	9.57E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130012	SVP130012	07/14/10	Gross Alpha/Beta	Gross Alpha	4.88E-15	5.50E-15	7.67E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130012	SVP130012	07/14/10	Gross Alpha/Beta	Gross Beta	2.16E-14	1.12E-14	1.30E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130013	SVP130013	07/15/10	Gross Alpha/Beta	Gross Alpha	2.80E-15	3.63E-15	5.34E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130013	SVP130013	07/15/10	Gross Alpha/Beta	Gross Beta	2.35E-14	8.60E-15	9.05E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130014	SVP130014	07/15/10	Gross Alpha/Beta	Gross Alpha	5.57E-15	4.66E-15	5.71E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130014	SVP130014	07/15/10	Gross Alpha/Beta	Gross Beta	2.18E-14	8.89E-15	9.68E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130015	SVP130015	07/19/10	Gross Alpha/Beta	Gross Alpha	4.18E-15	4.19E-15	5.58E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130015	SVP130015	07/19/10	Gross Alpha/Beta	Gross Beta	1.77E-14	8.35E-15	9.46E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130016	SVP130016	07/19/10	Gross Alpha/Beta	Gross Alpha	2.34E-15	3.66E-15	5.71E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130016	SVP130016	07/19/10	Gross Alpha/Beta	Gross Beta	1.44E-14	8.18E-15	9.68E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130017	SVP130017	07/26/10	Gross Alpha/Beta	Gross Alpha	3.35E-15	4.35E-15	6.40E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130017	SVP130017	07/26/10	Gross Alpha/Beta	Gross Beta	1.30E-14	8.84E-15	1.09E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130018	SVP130018	07/26/10	Gross Alpha/Beta	Gross Alpha	2.71E-15	4.24E-15	6.60E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130018	SVP130018	07/26/10	Gross Alpha/Beta	Gross Beta	1.39E-14	9.17E-15	1.12E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP130019	SVP130019	07/27/10	Gross Alpha/Beta	Gross Alpha	7.37E-15	4.82E-15	5.16E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130019	SVP130019	07/27/10	Gross Alpha/Beta	Gross Beta	2.31E-14	8.34E-15	8.75E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130020	SVP130020	07/28/10	Gross Alpha/Beta	Gross Alpha	4.70E-15	3.94E-15	4.82E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130020	SVP130020	07/28/10	Gross Alpha/Beta	Gross Beta	1.70E-14	7.38E-15	8.17E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130021	SVP130021	07/28/10	Gross Alpha/Beta	Gross Alpha	4.26E-15	3.87E-15	4.93E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130021	SVP130021	07/28/10	Gross Alpha/Beta	Gross Beta	1.85E-14	7.65E-15	8.37E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130022	SVP130022	07/29/10	Gross Alpha/Beta	Gross Alpha	9.53E-16	2.87E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130022	SVP130022	07/29/10	Gross Alpha/Beta	Gross Beta	4.14E-15	6.43E-15	8.75E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130023	SVP130023	07/29/10	Gross Alpha/Beta	Gross Alpha	3.87E-15	3.88E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130023	SVP130023	07/29/10	Gross Alpha/Beta	Gross Beta	2.09E-14	8.14E-15	8.75E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130024	SVP130024	07/27/10	Gross Alpha/Beta	Gross Alpha	3.29E-15	3.70E-15	5.16E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130024	SVP130024	07/27/10	Gross Alpha/Beta	Gross Beta	2.68E-14	8.67E-15	8.75E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130510	SVP130510	08/02/10	Gross Alpha/Beta	Gross Alpha	3.46E-15	4.96E-15	7.24E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130510	SVP130510	08/02/10	Gross Alpha/Beta	Gross Beta	1.97E-14	9.44E-15	1.15E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130511	SVP130511	08/02/10	Gross Alpha/Beta	Gross Alpha	1.18E-14	7.12E-15	7.34E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130511	SVP130511	08/02/10	Gross Alpha/Beta	Gross Beta	4.22E-14	1.16E-14	1.17E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130512	SVP130512	08/03/10	Gross Alpha/Beta	Gross Alpha	6.43E-15	5.78E-15	7.22E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130512	SVP130512	08/03/10	Gross Alpha/Beta	Gross Beta	2.20E-14	9.66E-15	1.15E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130513	SVP130513	08/03/10	Gross Alpha/Beta	Gross Alpha	8.55E-15	8.39E-15	1.09E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130513	SVP130513	08/03/10	Gross Alpha/Beta	Gross Beta	3.53E-14	1.47E-14	1.73E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130514	SVP130514	08/04/10	Gross Alpha/Beta	Gross Alpha	6.39E-15	5.31E-15	6.43E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130514	SVP130514	08/04/10	Gross Alpha/Beta	Gross Beta	1.16E-14	7.76E-15	1.02E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130515	SVP130515	08/04/10	Gross Alpha/Beta	Gross Alpha	7.05E-15	5.47E-15	6.43E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130515	SVP130515	08/04/10	Gross Alpha/Beta	Gross Beta	1.24E-14	7.85E-15	1.02E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130516	SVP130516	08/05/10	Gross Alpha/Beta	Gross Alpha	6.29E-15	5.64E-15	7.06E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130516	SVP130516	08/05/10	Gross Alpha/Beta	Gross Beta	4.28E-14	1.13E-14	1.13E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130517	SVP130517	08/05/10	Gross Alpha/Beta	Gross Alpha	7.78E-15	6.04E-15	7.09E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130517	SVP130517	08/05/10	Gross Alpha/Beta	Gross Beta	3.42E-14	1.07E-14	1.13E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130518	SVP130518	08/09/10	Gross Alpha/Beta	Gross Alpha	9.24E-15	6.38E-15	7.09E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130518	SVP130518	08/09/10	Gross Alpha/Beta	Gross Beta	4.26E-14	1.14E-14	1.13E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130519	SVP130519	08/09/10	Gross Alpha/Beta	Gross Alpha	7.78E-15	6.04E-15	7.09E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130519	SVP130519	08/09/10	Gross Alpha/Beta	Gross Beta	3.05E-14	1.03E-14	1.13E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130520	SVP130520	08/10/10	Gross Alpha/Beta	Gross Alpha	1.28E-14	8.82E-15	9.79E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130520	SVP130520	08/10/10	Gross Alpha/Beta	Gross Beta	4.66E-14	1.46E-14	1.56E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130521	SVP130521	08/10/10	Gross Alpha/Beta	Gross Alpha	5.69E-15	7.00E-15	9.79E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130521	SVP130521	08/10/10	Gross Alpha/Beta	Gross Beta	2.54E-14	1.26E-14	1.56E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130522	SVP130522	08/11/10	Gross Alpha/Beta	Gross Alpha	3.90E-15	4.80E-15	6.71E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130522	SVP130522	08/11/10	Gross Alpha/Beta	Gross Beta	1.52E-14	8.43E-15	1.07E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130523	SVP130523	08/11/10	Gross Alpha/Beta	Gross Alpha	1.15E-14	6.64E-15	6.71E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130523	SVP130523	08/11/10	Gross Alpha/Beta	Gross Beta	2.13E-14	9.05E-15	1.07E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130524	SVP130524	08/16/10	Gross Alpha/Beta	Gross Alpha	1.01E-15	3.51E-15	6.01E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130524	SVP130524	08/16/10	Gross Alpha/Beta	Gross Beta	1.20E-14	7.39E-15	9.58E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130525	SVP130525	08/16/10	Gross Alpha/Beta	Gross Alpha	5.79E-16	3.30E-15	5.86E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP130525	SVP130525	08/16/10	Gross Alpha/Beta	Gross Beta	9.87E-15	6.72E-15	9.63E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130526	SVP130526	08/17/10	Gross Alpha/Beta	Gross Alpha	3.93E-15	4.61E-15	6.26E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130526	SVP130526	08/17/10	Gross Alpha/Beta	Gross Beta	1.86E-14	8.07E-15	1.03E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130527	SVP130527	08/17/10	Gross Alpha/Beta	Gross Alpha	2.61E-15	4.21E-15	6.26E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130527	SVP130527	08/17/10	Gross Alpha/Beta	Gross Beta	2.15E-14	8.37E-15	1.03E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130528	SVP130528	08/18/10	Gross Alpha/Beta	Gross Alpha	-4.30E-17	3.17E-15	6.07E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130528	SVP130528	08/18/10	Gross Alpha/Beta	Gross Beta	2.78E-14	8.79E-15	9.98E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130529	SVP130529	08/18/10	Gross Alpha/Beta	Gross Alpha	1.09E-14	6.18E-15	6.07E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130529	SVP130529	08/18/10	Gross Alpha/Beta	Gross Beta	2.74E-14	8.76E-15	9.98E-15	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130530	SVP130530	08/23/10	Gross Alpha/Beta	Gross Alpha	2.32E-15	3.65E-15	5.84E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130530	SVP130530	08/23/10	Gross Alpha/Beta	Gross Beta	1.47E-14	1.28E-14	1.81E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130531	SVP130531	08/23/10	Gross Alpha/Beta	Gross Alpha	6.75E-15	4.78E-15	5.06E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130531	SVP130531	08/23/10	Gross Alpha/Beta	Gross Beta	1.85E-14	1.15E-14	1.57E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130532	SVP130532	08/24/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	3.30E-15	4.85E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130532	SVP130532	08/24/10	Gross Alpha/Beta	Gross Beta	2.37E-14	1.15E-14	1.50E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130533	SVP130533	08/24/10	Gross Alpha/Beta	Gross Alpha	2.57E-15	3.30E-15	4.85E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130533	SVP130533	08/24/10	Gross Alpha/Beta	Gross Beta	2.24E-14	1.14E-14	1.50E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130534	SVP130534	08/30/10	Gross Alpha/Beta	Gross Alpha	1.13E-14	5.71E-15	4.72E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130534	SVP130534	08/30/10	Gross Alpha/Beta	Gross Beta	6.45E-14	1.39E-14	1.46E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130535	SVP130535	08/30/10	Gross Alpha/Beta	Gross Alpha	8.18E-15	4.96E-15	4.72E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130535	SVP130535	08/30/10	Gross Alpha/Beta	Gross Beta	2.89E-14	1.16E-14	1.46E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130536	SVP130536	08/31/10	Gross Alpha/Beta	Gross Alpha	1.23E-14	2.64E-14	4.67E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130536	SVP130536	08/31/10	Gross Alpha/Beta	Gross Beta	1.71E-13	1.06E-13	1.44E-13	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130537	SVP130537	08/31/10	Gross Alpha/Beta	Gross Alpha	1.85E-14	2.92E-14	4.67E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130537	SVP130537	08/31/10	Gross Alpha/Beta	Gross Beta	7.64E-14	9.86E-14	1.44E-13	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130538	SVP130538	08/26/10	Gross Alpha/Beta	Gross Alpha	2.01E-15	3.17E-15	5.07E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130538	SVP130538	08/26/10	Gross Alpha/Beta	Gross Beta	9.19E-15	1.08E-14	1.57E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130539	SVP130539	08/26/10	Gross Alpha/Beta	Gross Alpha	4.73E-15	4.17E-15	5.07E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130539	SVP130539	08/26/10	Gross Alpha/Beta	Gross Beta	1.45E-14	1.12E-14	1.57E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130540	SVP130540	08/02/10	Gross Alpha/Beta	Gross Alpha	5.02E-15	4.07E-15	4.71E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130540	SVP130540	08/02/10	Gross Alpha/Beta	Gross Beta	3.67E-14	1.21E-14	1.46E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130541	SVP130541	08/02/10	Gross Alpha/Beta	Gross Alpha	6.90E-15	4.62E-15	4.71E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130541	SVP130541	08/02/10	Gross Alpha/Beta	Gross Beta	3.25E-14	1.18E-14	1.46E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130542	SVP130542	08/03/10	Gross Alpha/Beta	Gross Alpha	3.12E-15	3.43E-15	4.70E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130542	SVP130542	08/03/10	Gross Alpha/Beta	Gross Beta	1.80E-14	1.07E-14	1.45E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130543	SVP130543	08/03/10	Gross Alpha/Beta	Gross Alpha	6.63E-15	5.85E-15	7.11E-15	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130543	SVP130543	08/03/10	Gross Alpha/Beta	Gross Beta	2.16E-14	1.58E-14	2.20E-14	uCi/mL	U	T04, T05	VP 12 General Area - Perimeter Air Monitoring
SVP130544	SVP130544	08/04/10	Gross Alpha/Beta	Gross Alpha	4.47E-15	3.63E-15	4.20E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130544	SVP130544	08/04/10	Gross Alpha/Beta	Gross Beta	1.76E-14	9.72E-15	1.30E-14	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130545	SVP130545	08/04/10	Gross Alpha/Beta	Gross Alpha	1.10E-15	2.37E-15	4.20E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130545	SVP130545	08/04/10	Gross Alpha/Beta	Gross Beta	7.97E-15	8.96E-15	1.30E-14	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130546	SVP130546	08/05/10	Gross Alpha/Beta	Gross Alpha	4.89E-15	3.97E-15	4.59E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130546	SVP130546	08/05/10	Gross Alpha/Beta	Gross Beta	3.98E-14	1.21E-14	1.42E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP130547	SVP130547	08/05/10	Gross Alpha/Beta	Gross Alpha	6.73E-15	4.50E-15	4.59E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130547	SVP130547	08/05/10	Gross Alpha/Beta	Gross Beta	3.57E-14	1.18E-14	1.42E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130548	SVP130548	08/09/10	Gross Alpha/Beta	Gross Alpha	2.86E-15	3.15E-15	4.31E-15	uCi/mL	UJ	T06	VP 12 General Area - Perimeter Air Monitoring
SVP130548	SVP130548	08/09/10	Gross Alpha/Beta	Gross Beta	2.41E-14	1.04E-14	1.33E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130549	SVP130549	08/09/10	Gross Alpha/Beta	Gross Alpha	9.79E-15	5.09E-15	4.31E-15	uCi/mL	J	T04	VP 12 General Area - Perimeter Air Monitoring
SVP130549	SVP130549	08/09/10	Gross Alpha/Beta	Gross Beta	4.76E-14	1.20E-14	1.33E-14	uCi/mL	=		VP 12 General Area - Perimeter Air Monitoring
SVP130849	SVP130849	08/10/10	Gross Alpha/Beta	Gross Alpha	3.51E-15	4.26E-15	6.05E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP130849	SVP130849	08/10/10	Gross Alpha/Beta	Gross Beta	1.85E-14	8.39E-15	1.03E-14	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131053	SVP131053	09/07/10	Gross Alpha/Beta	Gross Alpha	3.55E-15	3.46E-15	4.45E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP131053	SVP131053	09/07/10	Gross Alpha/Beta	Gross Beta	1.59E-14	1.01E-14	1.38E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131054	SVP131054	09/07/10	Gross Alpha/Beta	Gross Alpha	2.39E-15	3.07E-15	4.51E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131054	SVP131054	09/07/10	Gross Alpha/Beta	Gross Beta	1.73E-14	1.03E-14	1.40E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131055	SVP131055	09/07/10	Gross Alpha/Beta	Gross Alpha	3.13E-15	3.05E-15	3.92E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP131055	SVP131055	09/07/10	Gross Alpha/Beta	Gross Beta	2.16E-14	9.45E-15	1.21E-14	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131056	SVP131056	09/07/10	Gross Alpha/Beta	Gross Alpha	3.70E-15	3.27E-15	3.97E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP131056	SVP131056	09/07/10	Gross Alpha/Beta	Gross Beta	2.43E-14	9.76E-15	1.23E-14	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131057	SVP131057	09/08/10	Gross Alpha/Beta	Gross Alpha	4.77E-15	3.60E-15	3.97E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131057	SVP131057	09/08/10	Gross Alpha/Beta	Gross Beta	1.73E-14	9.25E-15	1.23E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131058	SVP131058	09/08/10	Gross Alpha/Beta	Gross Alpha	2.11E-15	2.70E-15	3.97E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131058	SVP131058	09/08/10	Gross Alpha/Beta	Gross Beta	2.68E-14	9.94E-15	1.23E-14	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131059	SVP131059	09/08/10	Gross Alpha/Beta	Gross Alpha	2.39E-15	3.07E-15	4.51E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131059	SVP131059	09/08/10	Gross Alpha/Beta	Gross Beta	1.49E-14	1.01E-14	1.40E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131060	SVP131060	09/08/10	Gross Alpha/Beta	Gross Alpha	4.20E-15	3.71E-15	4.51E-15	uCi/mL	U	T04, T05	SVP (General Area)-Perimeter Air
SVP131060	SVP131060	09/08/10	Gross Alpha/Beta	Gross Beta	1.53E-14	1.02E-14	1.40E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131061	SVP131061	09/09/10	Gross Alpha/Beta	Gross Alpha	7.44E-15	1.17E-14	1.87E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131061	SVP131061	09/09/10	Gross Alpha/Beta	Gross Beta	8.01E-14	4.35E-14	5.80E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131062	SVP131062	09/09/10	Gross Alpha/Beta	Gross Alpha	2.38E-15	9.15E-15	1.84E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131062	SVP131062	09/09/10	Gross Alpha/Beta	Gross Beta	6.41E-14	4.16E-14	5.70E-14	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131063	SVP131063	09/09/10	Gross Alpha/Beta	Gross Alpha	2.83E-15	1.09E-14	2.19E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131063	SVP131063	09/09/10	Gross Alpha/Beta	Gross Beta	2.23E-14	4.51E-14	6.78E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131064	SVP131064	09/09/10	Gross Alpha/Beta	Gross Alpha	8.29E-15	1.31E-14	2.09E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131064	SVP131064	09/09/10	Gross Alpha/Beta	Gross Beta	1.95E-14	4.29E-14	6.47E-14	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131065	SVP131065	09/13/10	Gross Alpha/Beta	Gross Alpha	-3.60E-17	2.66E-15	5.11E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131065	SVP131065	09/13/10	Gross Alpha/Beta	Gross Beta	3.10E-15	5.17E-15	8.39E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131066	SVP131066	09/13/10	Gross Alpha/Beta	Gross Alpha	5.75E-15	4.35E-15	4.97E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131066	SVP131066	09/13/10	Gross Alpha/Beta	Gross Beta	3.75E-14	8.47E-15	8.17E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131067	SVP131067	09/13/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	3.49E-15	5.80E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131067	SVP131067	09/13/10	Gross Alpha/Beta	Gross Beta	2.86E-14	8.58E-15	9.53E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131068	SVP131068	09/13/10	Gross Alpha/Beta	Gross Alpha	7.14E-15	5.09E-15	5.65E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131068	SVP131068	09/13/10	Gross Alpha/Beta	Gross Beta	2.78E-14	8.36E-15	9.28E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131069	SVP131069	09/14/10	Gross Alpha/Beta	Gross Alpha	8.25E-15	5.08E-15	5.22E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131069	SVP131069	09/14/10	Gross Alpha/Beta	Gross Beta	5.98E-14	1.04E-14	8.58E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131070	SVP131070	09/14/10	Gross Alpha/Beta	Gross Alpha	2.17E-15	3.51E-15	5.22E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP131070	SVP131070	09/14/10	Gross Alpha/Beta	Gross Beta	3.62E-14	8.63E-15	8.58E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131071	SVP131071	09/14/10	Gross Alpha/Beta	Gross Alpha	1.84E-15	3.78E-15	5.93E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131071	SVP131071	09/14/10	Gross Alpha/Beta	Gross Beta	3.52E-14	9.30E-15	9.74E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131072	SVP131072	09/14/10	Gross Alpha/Beta	Gross Alpha	4.35E-15	4.54E-15	5.93E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131072	SVP131072	09/14/10	Gross Alpha/Beta	Gross Beta	3.08E-14	8.92E-15	9.74E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131073	SVP131073	09/15/10	Gross Alpha/Beta	Gross Alpha	8.28E-15	5.10E-15	5.24E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131073	SVP131073	09/15/10	Gross Alpha/Beta	Gross Beta	6.43E-14	1.07E-14	8.61E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131074	SVP131074	09/15/10	Gross Alpha/Beta	Gross Alpha	5.51E-15	4.45E-15	5.24E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131074	SVP131074	09/15/10	Gross Alpha/Beta	Gross Beta	5.44E-14	1.00E-14	8.61E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131075	SVP131075	09/15/10	Gross Alpha/Beta	Gross Alpha	3.74E-15	4.38E-15	5.95E-15	uCi/mL	UJ	T06	SVP (General Area)-Perimeter Air
SVP131075	SVP131075	09/15/10	Gross Alpha/Beta	Gross Beta	3.89E-14	9.65E-15	9.78E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131076	SVP131076	09/15/10	Gross Alpha/Beta	Gross Alpha	7.52E-15	5.36E-15	5.95E-15	uCi/mL	J	T04	SVP (General Area)-Perimeter Air
SVP131076	SVP131076	09/15/10	Gross Alpha/Beta	Gross Beta	4.13E-14	9.85E-15	9.78E-15	uCi/mL	=		SVP (General Area)-Perimeter Air
SVP131077	SVP131077	10/05/10	Gross Alpha/Beta	Gross Alpha	-8.10E-17	6.00E-15	1.15E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131077	SVP131077	10/05/10	Gross Alpha/Beta	Gross Beta	3.80E-14	1.52E-14	1.89E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131078	SVP131078	10/05/10	Gross Alpha/Beta	Gross Alpha	6.06E-15	8.18E-15	1.16E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131078	SVP131078	10/05/10	Gross Alpha/Beta	Gross Beta	2.50E-14	1.39E-14	1.91E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131079	SVP131079	10/05/10	Gross Alpha/Beta	Gross Alpha	4.09E-15	8.41E-15	1.32E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131079	SVP131079	10/05/10	Gross Alpha/Beta	Gross Beta	2.13E-14	1.50E-14	2.17E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131080	SVP131080	10/05/10	Gross Alpha/Beta	Gross Alpha	1.37E-14	1.11E-14	1.31E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131080	SVP131080	10/05/10	Gross Alpha/Beta	Gross Beta	2.11E-14	1.49E-14	2.15E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131396	SVP131396	09/29/10	Gross Alpha/Beta	Gross Alpha	1.19E-15	3.50E-15	5.81E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131396	SVP131396	09/29/10	Gross Alpha/Beta	Gross Beta	2.43E-14	8.19E-15	9.55E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131397	SVP131397	09/29/10	Gross Alpha/Beta	Gross Alpha	1.20E-14	1.62E-14	2.30E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131397	SVP131397	09/29/10	Gross Alpha/Beta	Gross Beta	6.82E-14	2.96E-14	3.78E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131398	SVP131398	09/29/10	Gross Alpha/Beta	Gross Alpha	4.15E-15	4.86E-15	6.61E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131398	SVP131398	09/29/10	Gross Alpha/Beta	Gross Beta	3.25E-14	9.77E-15	1.09E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131399	SVP131399	09/29/10	Gross Alpha/Beta	Gross Alpha	2.58E-15	1.47E-14	2.62E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131399	SVP131399	09/29/10	Gross Alpha/Beta	Gross Beta	4.93E-14	3.06E-14	4.29E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131400	SVP131400	09/30/10	Gross Alpha/Beta	Gross Alpha	5.18E-16	2.95E-15	5.24E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131400	SVP131400	09/30/10	Gross Alpha/Beta	Gross Beta	2.05E-14	7.25E-15	8.61E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131401	SVP131401	09/30/10	Gross Alpha/Beta	Gross Alpha	2.16E-15	3.49E-15	5.19E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131401	SVP131401	09/30/10	Gross Alpha/Beta	Gross Beta	4.55E-15	5.43E-15	8.52E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131402	SVP131402	09/30/10	Gross Alpha/Beta	Gross Alpha	2.48E-15	4.00E-15	5.95E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131402	SVP131402	09/30/10	Gross Alpha/Beta	Gross Beta	1.48E-14	7.37E-15	9.78E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131403	SVP131403	09/30/10	Gross Alpha/Beta	Gross Alpha	2.45E-15	3.96E-15	5.90E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131403	SVP131403	09/30/10	Gross Alpha/Beta	Gross Beta	2.15E-14	8.00E-15	9.68E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131404	SVP131404	10/06/10	Gross Alpha/Beta	Gross Alpha	5.60E-15	4.60E-15	5.57E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131404	SVP131404	10/06/10	Gross Alpha/Beta	Gross Beta	1.92E-14	7.98E-15	9.33E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131405	SVP131405	10/06/10	Gross Alpha/Beta	Gross Alpha	4.93E-15	4.06E-15	4.91E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131405	SVP131405	10/06/10	Gross Alpha/Beta	Gross Beta	2.67E-14	7.91E-15	8.22E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131406	SVP131406	10/06/10	Gross Alpha/Beta	Gross Alpha	3.05E-15	3.83E-15	5.58E-15	uCi/mL	J	F01, T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131406	SVP131406	10/06/10	Gross Alpha/Beta	Gross Beta	1.97E-14	8.03E-15	9.34E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP131407	SVP131407	10/06/10	Gross Alpha/Beta	Gross Alpha	5.51E-15	4.22E-15	4.92E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131407	SVP131407	10/06/10	Gross Alpha/Beta	Gross Beta	2.55E-14	7.81E-15	8.23E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131408	SVP131408	10/07/10	Gross Alpha/Beta	Gross Alpha	6.60E-15	5.05E-15	5.89E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131408	SVP131408	10/07/10	Gross Alpha/Beta	Gross Beta	2.81E-14	9.15E-15	9.87E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131409	SVP131409	10/07/10	Gross Alpha/Beta	Gross Alpha	5.22E-15	4.29E-15	5.19E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131409	SVP131409	10/07/10	Gross Alpha/Beta	Gross Beta	3.40E-14	8.84E-15	8.68E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131410	SVP131410	10/07/10	Gross Alpha/Beta	Gross Alpha	1.01E-14	5.94E-15	5.94E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131410	SVP131410	10/07/10	Gross Alpha/Beta	Gross Beta	3.89E-14	1.01E-14	9.95E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131411	SVP131411	10/07/10	Gross Alpha/Beta	Gross Alpha	5.67E-15	4.34E-15	5.06E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131411	SVP131411	10/07/10	Gross Alpha/Beta	Gross Beta	3.91E-14	9.09E-15	8.47E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131412	SVP131412	10/11/10	Gross Alpha/Beta	Gross Alpha	7.84E-15	5.33E-15	5.81E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131412	SVP131412	10/11/10	Gross Alpha/Beta	Gross Beta	4.17E-14	1.02E-14	9.73E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131413	SVP131413	10/11/10	Gross Alpha/Beta	Gross Alpha	8.08E-15	4.98E-15	5.12E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131413	SVP131413	10/11/10	Gross Alpha/Beta	Gross Beta	3.53E-14	8.86E-15	8.57E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131414	SVP131414	10/11/10	Gross Alpha/Beta	Gross Alpha	8.49E-15	5.48E-15	5.80E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131414	SVP131414	10/11/10	Gross Alpha/Beta	Gross Beta	2.76E-14	9.00E-15	9.71E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131415	SVP131415	10/11/10	Gross Alpha/Beta	Gross Alpha	-7.22E-16	2.02E-15	5.11E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131415	SVP131415	10/11/10	Gross Alpha/Beta	Gross Beta	2.99E-14	8.41E-15	8.55E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131739	SVP131739	10/12/10	Gross Alpha/Beta	Gross Alpha	1.14E-15	3.14E-15	5.61E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131739	SVP131739	10/12/10	Gross Alpha/Beta	Gross Beta	2.94E-14	8.94E-15	9.38E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131740	SVP131740	10/12/10	Gross Alpha/Beta	Gross Alpha	9.99E-16	2.76E-15	4.93E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131740	SVP131740	10/12/10	Gross Alpha/Beta	Gross Beta	2.86E-14	8.09E-15	8.25E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131741	SVP131741	10/12/10	Gross Alpha/Beta	Gross Alpha	3.67E-15	4.02E-15	5.55E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131741	SVP131741	10/12/10	Gross Alpha/Beta	Gross Beta	3.48E-14	9.33E-15	9.29E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131742	SVP131742	10/12/10	Gross Alpha/Beta	Gross Alpha	4.30E-16	2.50E-15	4.89E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131742	SVP131742	10/12/10	Gross Alpha/Beta	Gross Beta	3.84E-14	8.83E-15	8.18E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131743	SVP131743	10/13/10	Gross Alpha/Beta	Gross Alpha	5.07E-15	4.52E-15	5.69E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131743	SVP131743	10/13/10	Gross Alpha/Beta	Gross Beta	1.81E-14	8.00E-15	9.53E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131744	SVP131744	10/13/10	Gross Alpha/Beta	Gross Alpha	6.19E-15	4.45E-15	5.02E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131744	SVP131744	10/13/10	Gross Alpha/Beta	Gross Beta	2.53E-14	7.91E-15	8.40E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131745	SVP131745	10/13/10	Gross Alpha/Beta	Gross Alpha	1.78E-15	3.39E-15	5.61E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131745	SVP131745	10/13/10	Gross Alpha/Beta	Gross Beta	1.90E-14	7.98E-15	9.38E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131746	SVP131746	10/13/10	Gross Alpha/Beta	Gross Alpha	1.56E-15	2.98E-15	4.93E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131746	SVP131746	10/13/10	Gross Alpha/Beta	Gross Beta	3.40E-14	8.54E-15	8.25E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131747	SVP131747	10/14/10	Gross Alpha/Beta	Gross Alpha	6.28E-15	4.51E-15	5.08E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131747	SVP131747	10/14/10	Gross Alpha/Beta	Gross Beta	1.44E-14	6.97E-15	8.51E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131748	SVP131748	10/14/10	Gross Alpha/Beta	Gross Alpha	6.44E-15	4.93E-15	5.75E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131748	SVP131748	10/14/10	Gross Alpha/Beta	Gross Beta	2.22E-14	8.46E-15	9.63E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131749	SVP131749	10/14/10	Gross Alpha/Beta	Gross Alpha	1.03E-15	2.84E-15	5.06E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131749	SVP131749	10/14/10	Gross Alpha/Beta	Gross Beta	1.75E-14	7.24E-15	8.47E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131750	SVP131750	10/14/10	Gross Alpha/Beta	Gross Alpha	5.81E-15	4.77E-15	5.78E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131750	SVP131750	10/14/10	Gross Alpha/Beta	Gross Beta	1.92E-14	8.19E-15	9.67E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131751	SVP131751	10/18/10	Gross Alpha/Beta	Gross Alpha	2.94E-15	3.70E-15	5.38E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP131751	SVP131751	10/18/10	Gross Alpha/Beta	Gross Beta	4.38E-14	9.84E-15	9.01E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131752	SVP131752	10/18/10	Gross Alpha/Beta	Gross Alpha	8.56E-15	4.86E-15	4.74E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131752	SVP131752	10/18/10	Gross Alpha/Beta	Gross Beta	4.47E-14	9.12E-15	7.93E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131753	SVP131753	10/18/10	Gross Alpha/Beta	Gross Alpha	7.46E-15	4.32E-15	3.84E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131753	SVP131753	10/18/10	Gross Alpha/Beta	Gross Beta	5.36E-14	1.09E-14	1.17E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131754	SVP131754	10/18/10	Gross Alpha/Beta	Gross Alpha	3.68E-15	3.54E-15	4.36E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131754	SVP131754	10/18/10	Gross Alpha/Beta	Gross Beta	4.32E-14	1.12E-14	1.33E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131755	SVP131755	10/19/10	Gross Alpha/Beta	Gross Alpha	8.29E-15	4.62E-15	3.99E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131755	SVP131755	10/19/10	Gross Alpha/Beta	Gross Beta	3.53E-14	9.98E-15	1.21E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131756	SVP131756	10/19/10	Gross Alpha/Beta	Gross Alpha	5.69E-15	4.26E-15	4.54E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131756	SVP131756	10/19/10	Gross Alpha/Beta	Gross Beta	2.21E-14	9.99E-15	1.38E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131757	SVP131757	10/19/10	Gross Alpha/Beta	Gross Alpha	3.33E-15	3.20E-15	3.95E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131757	SVP131757	10/19/10	Gross Alpha/Beta	Gross Beta	2.17E-14	8.90E-15	1.20E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131758	SVP131758	10/19/10	Gross Alpha/Beta	Gross Alpha	1.93E-15	2.94E-15	4.49E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131758	SVP131758	10/19/10	Gross Alpha/Beta	Gross Beta	1.60E-14	9.40E-15	1.37E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131759	SVP131759	10/20/10	Gross Alpha/Beta	Gross Alpha	2.60E-15	3.25E-15	4.58E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131759	SVP131759	10/20/10	Gross Alpha/Beta	Gross Beta	2.20E-14	1.01E-14	1.39E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131760	SVP131760	10/20/10	Gross Alpha/Beta	Gross Alpha	3.23E-15	3.49E-15	4.58E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131760	SVP131760	10/20/10	Gross Alpha/Beta	Gross Beta	2.96E-14	1.07E-14	1.39E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131761	SVP131761	10/20/10	Gross Alpha/Beta	Gross Alpha	2.29E-15	2.86E-15	4.03E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131761	SVP131761	10/20/10	Gross Alpha/Beta	Gross Beta	2.47E-14	9.27E-15	1.23E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131762	SVP131762	10/20/10	Gross Alpha/Beta	Gross Alpha	8.39E-15	4.67E-15	4.03E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131762	SVP131762	10/20/10	Gross Alpha/Beta	Gross Beta	3.03E-14	9.70E-15	1.23E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131763	SVP131763	10/21/10	Gross Alpha/Beta	Gross Alpha	5.76E-15	4.41E-15	4.79E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131763	SVP131763	10/21/10	Gross Alpha/Beta	Gross Beta	1.82E-14	7.00E-15	8.58E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131764	SVP131764	10/21/10	Gross Alpha/Beta	Gross Alpha	3.91E-15	4.25E-15	5.39E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131764	SVP131764	10/21/10	Gross Alpha/Beta	Gross Beta	1.24E-14	7.04E-15	9.65E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131765	SVP131765	10/21/10	Gross Alpha/Beta	Gross Alpha	3.30E-15	4.09E-15	5.44E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131765	SVP131765	10/21/10	Gross Alpha/Beta	Gross Beta	9.83E-15	6.80E-15	9.74E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131766	SVP131766	10/21/10	Gross Alpha/Beta	Gross Alpha	1.75E-15	3.18E-15	4.74E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131766	SVP131766	10/21/10	Gross Alpha/Beta	Gross Beta	1.53E-14	6.65E-15	8.48E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131767	SVP131767	10/25/10	Gross Alpha/Beta	Gross Alpha	1.26E-15	3.17E-15	5.04E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131767	SVP131767	10/25/10	Gross Alpha/Beta	Gross Beta	3.18E-14	8.52E-15	9.03E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131768	SVP131768	10/25/10	Gross Alpha/Beta	Gross Alpha	4.86E-15	4.32E-15	5.04E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131768	SVP131768	10/25/10	Gross Alpha/Beta	Gross Beta	3.83E-14	9.05E-15	9.03E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131769	SVP131769	10/25/10	Gross Alpha/Beta	Gross Alpha	4.16E-15	4.51E-15	5.73E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131769	SVP131769	10/25/10	Gross Alpha/Beta	Gross Beta	3.08E-14	9.21E-15	1.03E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131770	SVP131770	10/26/10	Gross Alpha/Beta	Gross Alpha	6.20E-17	2.76E-15	5.22E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131770	SVP131770	10/26/10	Gross Alpha/Beta	Gross Beta	6.44E-15	6.17E-15	9.34E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131771	SVP131771	10/26/10	Gross Alpha/Beta	Gross Alpha	1.92E-15	3.50E-15	5.22E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131771	SVP131771	10/26/10	Gross Alpha/Beta	Gross Beta	6.07E-15	6.12E-15	9.34E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131772	SVP131772	10/26/10	Gross Alpha/Beta	Gross Alpha	6.01E-16	2.67E-15	4.59E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131772	SVP131772	10/26/10	Gross Alpha/Beta	Gross Beta	9.60E-15	5.89E-15	8.22E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP131773	SVP131773	10/26/10	Gross Alpha/Beta	Gross Alpha	6.01E-16	2.67E-15	4.59E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131773	SVP131773	10/26/10	Gross Alpha/Beta	Gross Beta	1.09E-14	6.03E-15	8.22E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131774	SVP131774	10/27/10	Gross Alpha/Beta	Gross Alpha	1.20E-15	3.01E-15	4.79E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131774	SVP131774	10/27/10	Gross Alpha/Beta	Gross Beta	7.63E-15	5.87E-15	8.58E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131775	SVP131775	10/27/10	Gross Alpha/Beta	Gross Alpha	6.50E-17	2.88E-15	5.44E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131775	SVP131775	10/27/10	Gross Alpha/Beta	Gross Beta	1.10E-14	6.94E-15	9.74E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131776	SVP131776	10/27/10	Gross Alpha/Beta	Gross Alpha	6.20E-16	2.75E-15	4.74E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131776	SVP131776	10/27/10	Gross Alpha/Beta	Gross Beta	1.33E-14	6.44E-15	8.48E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131777	SVP131777	10/27/10	Gross Alpha/Beta	Gross Alpha	1.99E-15	3.62E-15	5.39E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131777	SVP131777	10/27/10	Gross Alpha/Beta	Gross Beta	1.01E-14	6.78E-15	9.65E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131778	SVP131778	10/30/10	Gross Alpha/Beta	Gross Alpha	3.12E-15	3.04E-15	3.70E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131778	SVP131778	10/30/10	Gross Alpha/Beta	Gross Beta	1.57E-14	5.55E-15	6.62E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131779	SVP131779	10/30/10	Gross Alpha/Beta	Gross Alpha	3.48E-15	3.39E-15	4.12E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131779	SVP131779	10/30/10	Gross Alpha/Beta	Gross Beta	1.98E-14	6.41E-15	7.37E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131780	SVP131780	10/30/10	Gross Alpha/Beta	Gross Alpha	3.14E-15	3.06E-15	3.72E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131780	SVP131780	10/30/10	Gross Alpha/Beta	Gross Beta	1.60E-14	5.62E-15	6.66E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131781	SVP131781	10/30/10	Gross Alpha/Beta	Gross Alpha	1.06E-15	2.65E-15	4.23E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131781	SVP131781	10/30/10	Gross Alpha/Beta	Gross Beta	2.33E-14	6.85E-15	7.57E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131782	SVP131782	10/31/10	Gross Alpha/Beta	Gross Alpha	4.87E-15	4.74E-15	5.76E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131782	SVP131782	10/31/10	Gross Alpha/Beta	Gross Beta	3.10E-14	9.26E-15	1.03E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131783	SVP131783	10/31/10	Gross Alpha/Beta	Gross Alpha	6.24E-15	5.12E-15	5.76E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131783	SVP131783	10/31/10	Gross Alpha/Beta	Gross Beta	4.04E-14	1.01E-14	1.03E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131784	SVP131784	10/31/10	Gross Alpha/Beta	Gross Alpha	4.75E-15	5.16E-15	6.54E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131784	SVP131784	10/31/10	Gross Alpha/Beta	Gross Beta	2.07E-14	9.14E-15	1.17E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131785	SVP131785	10/31/10	Gross Alpha/Beta	Gross Alpha	2.42E-15	4.39E-15	6.54E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131785	SVP131785	10/31/10	Gross Alpha/Beta	Gross Beta	2.63E-14	9.70E-15	1.17E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131786	SVP131786	11/02/10	Gross Alpha/Beta	Gross Alpha	2.38E-15	4.33E-15	6.45E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131786	SVP131786	11/02/10	Gross Alpha/Beta	Gross Beta	1.03E-14	7.90E-15	1.15E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131787	SVP131787	11/02/10	Gross Alpha/Beta	Gross Alpha	1.83E-15	4.60E-15	7.33E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131787	SVP131787	11/02/10	Gross Alpha/Beta	Gross Beta	1.17E-14	8.98E-15	1.31E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131788	SVP131788	11/02/10	Gross Alpha/Beta	Gross Alpha	6.15E-15	5.46E-15	6.37E-15	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP131788	SVP131788	11/02/10	Gross Alpha/Beta	Gross Beta	1.15E-14	7.97E-15	1.14E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132452	SVP132452	11/02/10	Gross Alpha/Beta	Gross Alpha	1.18E-15	4.47E-15	8.31E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132452	SVP132452	11/02/10	Gross Alpha/Beta	Gross Beta	7.31E-15	9.91E-15	1.31E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132453	SVP132453	11/04/10	Gross Alpha/Beta	Gross Alpha	2.50E-15	3.50E-15	5.32E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132453	SVP132453	11/04/10	Gross Alpha/Beta	Gross Beta	8.86E-15	6.79E-15	8.38E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132454	SVP132454	11/04/10	Gross Alpha/Beta	Gross Alpha	2.18E-15	3.75E-15	6.04E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132454	SVP132454	11/04/10	Gross Alpha/Beta	Gross Beta	3.73E-15	7.03E-15	9.52E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132455	SVP132455	11/04/10	Gross Alpha/Beta	Gross Alpha	1.94E-16	2.91E-15	5.92E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132455	SVP132455	11/04/10	Gross Alpha/Beta	Gross Beta	6.37E-15	7.19E-15	9.33E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132456	SVP132456	11/04/10	Gross Alpha/Beta	Gross Alpha	7.41E-16	2.81E-15	5.21E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132456	SVP132456	11/04/10	Gross Alpha/Beta	Gross Beta	1.28E-14	7.07E-15	8.22E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132457	SVP132457	11/08/10	Gross Alpha/Beta	Gross Alpha	1.42E-15	5.36E-15	9.97E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP132457	SVP132457	11/08/10	Gross Alpha/Beta	Gross Beta	1.86E-14	1.29E-14	1.57E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132458	SVP132458	11/08/10	Gross Alpha/Beta	Gross Alpha	4.06E-15	5.69E-15	8.64E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132458	SVP132458	11/08/10	Gross Alpha/Beta	Gross Beta	3.03E-14	1.26E-14	1.36E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132459	SVP132459	11/08/10	Gross Alpha/Beta	Gross Alpha	3.44E-15	3.63E-15	4.98E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132459	SVP132459	11/08/10	Gross Alpha/Beta	Gross Beta	7.98E-15	6.33E-15	7.86E-15	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132460	SVP132460	11/08/10	Gross Alpha/Beta	Gross Alpha	3.99E-15	5.58E-15	8.48E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132460	SVP132460	11/08/10	Gross Alpha/Beta	Gross Beta	2.19E-14	1.16E-14	1.34E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132461	SVP132461	11/09/10	Gross Alpha/Beta	Gross Alpha	3.15E-15	3.76E-15	5.42E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132461	SVP132461	11/09/10	Gross Alpha/Beta	Gross Beta	1.76E-14	7.76E-15	8.55E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132462	SVP132462	11/09/10	Gross Alpha/Beta	Gross Alpha	2.23E-15	3.83E-15	6.17E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132462	SVP132462	11/09/10	Gross Alpha/Beta	Gross Beta	2.53E-14	9.29E-15	9.72E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132463	SVP132463	11/09/10	Gross Alpha/Beta	Gross Alpha	1.95E-15	3.35E-15	5.40E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132463	SVP132463	11/09/10	Gross Alpha/Beta	Gross Beta	2.07E-14	8.01E-15	8.51E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132464	SVP132464	11/09/10	Gross Alpha/Beta	Gross Alpha	2.89E-15	4.04E-15	6.14E-15	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132464	SVP132464	11/09/10	Gross Alpha/Beta	Gross Beta	1.95E-14	8.74E-15	9.68E-15	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132465	SVP132465	10/25/10	Gross Alpha/Beta	Gross Alpha	4.33E-14	3.90E-14	4.70E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132465	SVP132465	10/25/10	Gross Alpha/Beta	Gross Beta	2.44E-13	1.04E-13	1.27E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132466	SVP132466	11/10/10	Gross Alpha/Beta	Gross Alpha	4.24E-14	4.73E-14	6.29E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132466	SVP132466	11/10/10	Gross Alpha/Beta	Gross Beta	3.32E-13	1.40E-13	1.70E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132467	SVP132467	11/10/10	Gross Alpha/Beta	Gross Alpha	4.81E-14	4.77E-14	6.03E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132467	SVP132467	11/10/10	Gross Alpha/Beta	Gross Beta	3.77E-13	1.38E-13	1.63E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132468	SVP132468	11/10/10	Gross Alpha/Beta	Gross Alpha	4.82E-14	5.37E-14	7.15E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132468	SVP132468	11/10/10	Gross Alpha/Beta	Gross Beta	2.32E-13	1.48E-13	1.93E-13	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132469	SVP132469	11/10/10	Gross Alpha/Beta	Gross Alpha	5.46E-14	5.42E-14	6.85E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132469	SVP132469	11/10/10	Gross Alpha/Beta	Gross Beta	3.67E-13	1.53E-13	1.85E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132470	SVP132470	11/17/10	Gross Alpha/Beta	Gross Alpha	2.86E-14	3.19E-14	4.25E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132470	SVP132470	11/17/10	Gross Alpha/Beta	Gross Beta	5.03E-13	1.13E-13	1.15E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132471	SVP132471	11/17/10	Gross Alpha/Beta	Gross Alpha	7.71E-15	2.45E-14	4.34E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132471	SVP132471	11/17/10	Gross Alpha/Beta	Gross Beta	3.03E-13	1.02E-13	1.17E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132472	SVP132472	11/17/10	Gross Alpha/Beta	Gross Alpha	3.25E-14	3.63E-14	4.83E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132472	SVP132472	11/17/10	Gross Alpha/Beta	Gross Beta	4.03E-13	1.18E-13	1.30E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132473	SVP132473	11/17/10	Gross Alpha/Beta	Gross Alpha	2.10E-14	3.28E-14	4.93E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132473	SVP132473	11/17/10	Gross Alpha/Beta	Gross Beta	3.72E-13	1.18E-13	1.33E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132474	SVP132474	11/18/10	Gross Alpha/Beta	Gross Alpha	4.05E-14	4.02E-14	5.07E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132474	SVP132474	11/18/10	Gross Alpha/Beta	Gross Beta	3.38E-13	1.18E-13	1.37E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132475	SVP132475	11/18/10	Gross Alpha/Beta	Gross Alpha	2.84E-14	3.66E-14	5.16E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132475	SVP132475	11/18/10	Gross Alpha/Beta	Gross Beta	3.56E-13	1.21E-13	1.39E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132476	SVP132476	11/18/10	Gross Alpha/Beta	Gross Alpha	3.01E-14	3.36E-14	4.47E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132476	SVP132476	11/18/10	Gross Alpha/Beta	Gross Beta	4.35E-13	1.13E-13	1.21E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132477	SVP132477	11/18/10	Gross Alpha/Beta	Gross Alpha	4.75E-14	3.93E-14	4.54E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132477	SVP132477	11/18/10	Gross Alpha/Beta	Gross Beta	3.50E-13	1.09E-13	1.23E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132478	SVP132478	11/22/10	Gross Alpha/Beta	Gross Alpha	1.77E-14	2.76E-14	4.15E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132478	SVP132478	11/22/10	Gross Alpha/Beta	Gross Beta	3.81E-15	7.49E-14	1.12E-13	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP132497	SVP132478	11/22/10	Gross Alpha/Beta	Gross Alpha	3.24E-14	4.01E-14	5.20E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132497	SVP132478	11/22/10	Gross Alpha/Beta	Gross Beta	2.07E-13	7.32E-14	8.04E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132479	SVP132479	11/22/10	Gross Alpha/Beta	Gross Alpha	3.05E-14	4.38E-14	5.91E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132479	SVP132479	11/22/10	Gross Alpha/Beta	Gross Beta	1.71E-13	7.72E-14	9.14E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132480	SVP132480	11/22/10	Gross Alpha/Beta	Gross Alpha	2.43E-14	4.20E-14	5.91E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132480	SVP132480	11/22/10	Gross Alpha/Beta	Gross Beta	1.41E-13	7.43E-14	9.14E-14	uCi/mL	J	T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132481	SVP132481	11/23/10	Gross Alpha/Beta	Gross Alpha	-5.87E-15	2.69E-14	5.05E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132481	SVP132481	11/23/10	Gross Alpha/Beta	Gross Beta	6.96E-14	5.82E-14	7.82E-14	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132482	SVP132482	11/23/10	Gross Alpha/Beta	Gross Alpha	3.15E-14	3.90E-14	5.05E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132482	SVP132482	11/23/10	Gross Alpha/Beta	Gross Beta	1.78E-13	6.91E-14	7.82E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132483	SVP132483	11/23/10	Gross Alpha/Beta	Gross Alpha	3.58E-14	4.43E-14	5.74E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132483	SVP132483	11/23/10	Gross Alpha/Beta	Gross Beta	2.32E-13	8.12E-14	8.88E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132484	SVP132484	11/23/10	Gross Alpha/Beta	Gross Alpha	2.36E-14	4.08E-14	5.74E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132484	SVP132484	11/23/10	Gross Alpha/Beta	Gross Beta	2.43E-13	8.22E-14	8.88E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132485	SVP132485	12/01/10	Gross Alpha/Beta	Gross Alpha	3.70E-14	4.59E-14	5.95E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132485	SVP132485	12/01/10	Gross Alpha/Beta	Gross Beta	2.81E-13	8.77E-14	9.20E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132486	SVP132486	12/01/10	Gross Alpha/Beta	Gross Alpha	4.24E-14	4.65E-14	5.82E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132486	SVP132486	12/01/10	Gross Alpha/Beta	Gross Beta	2.72E-13	8.55E-14	9.00E-14	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132487	SVP132487	12/01/10	Gross Alpha/Beta	Gross Alpha	1.35E-14	4.36E-14	6.76E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132487	SVP132487	12/01/10	Gross Alpha/Beta	Gross Beta	2.51E-13	9.36E-14	1.05E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132488	SVP132488	12/01/10	Gross Alpha/Beta	Gross Alpha	6.28E-15	4.03E-14	6.61E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132488	SVP132488	12/01/10	Gross Alpha/Beta	Gross Beta	2.59E-13	9.27E-14	1.02E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132489	SVP132489	12/02/10	Gross Alpha/Beta	Gross Alpha	2.92E-14	5.04E-14	7.09E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132489	SVP132489	12/02/10	Gross Alpha/Beta	Gross Beta	3.09E-13	1.02E-13	1.10E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132490	SVP132490	12/02/10	Gross Alpha/Beta	Gross Alpha	5.30E-14	5.82E-14	7.28E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132490	SVP132490	12/02/10	Gross Alpha/Beta	Gross Beta	3.17E-13	1.05E-13	1.13E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132491	SVP132491	12/02/10	Gross Alpha/Beta	Gross Alpha	-8.61E-16	4.67E-14	8.16E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132491	SVP132491	12/02/10	Gross Alpha/Beta	Gross Beta	3.14E-13	1.14E-13	1.26E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132492	SVP132492	12/02/10	Gross Alpha/Beta	Gross Alpha	-8.61E-16	4.67E-14	8.16E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132492	SVP132492	12/02/10	Gross Alpha/Beta	Gross Beta	2.62E-13	1.09E-13	1.26E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132493	SVP132493	12/06/10	Gross Alpha/Beta	Gross Alpha	2.21E-13	1.99E-13	2.40E-13	uCi/mL	U	T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132493	SVP132493	12/06/10	Gross Alpha/Beta	Gross Beta	1.71E-12	5.65E-13	6.48E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132494	SVP132494	12/06/10	Gross Alpha/Beta	Gross Alpha	2.46E-14	3.18E-14	4.47E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132494	SVP132494	12/06/10	Gross Alpha/Beta	Gross Beta	3.38E-13	1.07E-13	1.21E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132495	SVP132495	12/06/10	Gross Alpha/Beta	Gross Alpha	3.46E-14	3.86E-14	5.14E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132495	SVP132495	12/06/10	Gross Alpha/Beta	Gross Beta	2.63E-13	1.14E-13	1.39E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132496	SVP132496	12/06/10	Gross Alpha/Beta	Gross Alpha	3.43E-14	3.82E-14	5.08E-14	uCi/mL	UJ	T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132496	SVP132496	12/06/10	Gross Alpha/Beta	Gross Beta	3.18E-13	1.17E-13	1.37E-13	uCi/mL	=		VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132498	SVP132498	10/05/10	Gross Alpha/Beta	Gross Alpha	2.50E-15	3.74E-15	5.78E-15	uCi/mL	J	F01, T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132498	SVP132498	10/05/10	Gross Alpha/Beta	Gross Beta	2.39E-14	8.64E-15	9.67E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132499	SVP132499	10/05/10	Gross Alpha/Beta	Gross Alpha	2.20E-15	3.29E-15	5.08E-15	uCi/mL	J	F01, T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132499	SVP132499	10/05/10	Gross Alpha/Beta	Gross Beta	2.32E-14	7.80E-15	8.51E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132500	SVP132500	10/05/10	Gross Alpha/Beta	Gross Alpha	4.92E-15	4.38E-15	5.52E-15	uCi/mL	J	F01, T04, T05	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-3. SLAPS Perimeter Air Data Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SVP132500	SVP132500	10/05/10	Gross Alpha/Beta	Gross Beta	1.37E-14	7.37E-15	9.24E-15	uCi/mL	J	F01, T04	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132501	SVP132501	10/05/10	Gross Alpha/Beta	Gross Alpha	3.21E-15	3.52E-15	4.86E-15	uCi/mL	J	F01, T06	VP 12 and Cold Water Creek (General Area)-Perimeter Air
SVP132501	SVP132501	10/05/10	Gross Alpha/Beta	Gross Beta	1.71E-14	6.98E-15	8.13E-15	uCi/mL	J	F01	VP 12 and Cold Water Creek (General Area)-Perimeter Air

Table B-4. SLS TLD (External Gamma Radiation) Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
HIS122753	BA-1	04/05/10	Radiological	External gamma radiation	14.2	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122759	BA-1	07/07/10	Radiological	External gamma radiation	18	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122765	BA-1	10/05/10	Radiological	External gamma radiation	18.7	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133363	BA-1	01/04/11	Radiological	External gamma radiation	21.1	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122748	HA-1	04/05/10	Radiological	External gamma radiation	15.3	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122754	HA-1	07/07/10	Radiological	External gamma radiation	17.8	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122760	HA-1	10/05/10	Radiological	External gamma radiation	18.6	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133358	HA-1	01/04/11	Radiological	External gamma radiation	19.7	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122749	HA-2	04/05/10	Radiological	External gamma radiation	12.7	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122755	HA-2	07/07/10	Radiological	External gamma radiation	17.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122761	HA-2	10/05/10	Radiological	External gamma radiation	16.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133359	HA-2	01/04/11	Radiological	External gamma radiation	15.5	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122750	HA-3	04/05/10	Radiological	External gamma radiation	18	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122756	HA-3	07/07/10	Radiological	External gamma radiation	23.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122762	HA-3	10/05/10	Radiological	External gamma radiation	23.7	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133360	HA-3	01/04/11	Radiological	External gamma radiation	20.6	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122751	HA-4	04/05/10	Radiological	External gamma radiation	14.8	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122757	HA-4	07/07/10	Radiological	External gamma radiation	17.1	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122763	HA-4	10/05/10	Radiological	External gamma radiation	17.9	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133361	HA-4	01/04/11	Radiological	External gamma radiation	17.1	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122752	HA-5	04/05/10	Radiological	External gamma radiation	13.6	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122752-1	HA-5	04/05/10	Radiological	External gamma radiation	13.7	0	0.01	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122758	HA-5	07/07/10	Radiological	External gamma radiation	17.5	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122764	HA-5	10/05/10	Radiological	External gamma radiation	18.2	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133362	HA-5	01/04/11	Radiological	External gamma radiation	18.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS133362-1	HA-5	01/04/11	Radiological	External gamma radiation	16.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122758-1	HA-5dup	07/07/10	Radiological	External gamma radiation	18.3	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
HIS122764-1	HA-5dup	10/05/10	Radiological	External gamma radiation	18.2	0	0.1	mrem	=		HISS Air (TLDs)-Environmental Monitoring
SLA122802	PA-1	04/05/10	Radiological	External gamma radiation	15.9	0	0.01	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122806	PA-1	07/07/10	Radiological	External gamma radiation	20	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122810	PA-1	10/05/10	Radiological	External gamma radiation	19.8	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA133390	PA-1	01/04/11	Radiological	External gamma radiation	21.3	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122803	PA-2	04/05/10	Radiological	External gamma radiation	16.5	0	0.01	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122807	PA-2	07/07/10	Radiological	External gamma radiation	22	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122811	PA-2	10/05/10	Radiological	External gamma radiation	21.9	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA133391	PA-2	01/04/11	Radiological	External gamma radiation	22.4	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA133391-1	PA-2	01/04/11	Radiological	External gamma radiation	21.9	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122803-1	PA-2dup	04/05/10	Radiological	External gamma radiation	17.2	0	0.01	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122807-1	PA-2dup	07/07/10	Radiological	External gamma radiation	23.4	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122811-1	PA-2dup	10/05/10	Radiological	External gamma radiation	22.2	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122804	PA-3	04/05/10	Radiological	External gamma radiation	14.9	0	0.01	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122808	PA-3	07/07/10	Radiological	External gamma radiation	18.6	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122812	PA-3	10/05/10	Radiological	External gamma radiation	20.7	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring

Table B-4. SLS TLD (External Gamma Radiation) Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
SLA133392	PA-3	01/04/11	Radiological	External gamma radiation	18.8	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122805	PA-4	04/05/10	Radiological	External gamma radiation	15.5	0	0.01	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122809	PA-4	07/07/10	Radiological	External gamma radiation	20.4	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA122813	PA-4	10/05/10	Radiological	External gamma radiation	21.4	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring
SLA133393	PA-4	01/04/11	Radiological	External gamma radiation	19.6	0	0.1	mrem	=		SLAPS Air (TLDs)-Environmental Monitoring

Table B-5. SLS Radon-222 Results

Sample Name	Station Name	Sample Collection Date	Method Type	Analyte Name	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code	Sampling Event Name
HIS122861	BA-1	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133443	BA-1	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122856	HA-1	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133438	HA-1	01/04/11	Radiological	Radon-222	0.3	0	0.2	pCi/L	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122857	HA-2	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133439	HA-2	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122858	HA-3	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS122859	HA-4	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133441	HA-4	01/04/11	Radiological	Radon-222	0.3	0	0.2	pCi/L	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122860	HA-5	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133442	HA-5	01/04/11	Radiological	Radon-222	0.3	0	0.2	pCi/L	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122860-1	HA-5dup	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	U		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133442-1	HA-5dup	01/04/11	Radiological	Radon-222	0.3	0	0.2	pCi/L	=		HISS Air (Alpha Tracks)-Environmental Monitoring
HIS122840	HF-1	07/07/10	Radiological	Radon-222	3.5	0.14	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS133498	HF-1	01/04/11	Radiological	Radon-222	1.8	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS133507	HF-10	01/04/11	Radiological	Radon-222	0.4	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122841	HF-2	07/07/10	Radiological	Radon-222	1.2	0.07	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133499	HF-2	01/04/11	Radiological	Radon-222	3.6	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122842	HF-3	07/07/10	Radiological	Radon-222	0.5	0.04	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133500	HF-3	01/04/11	Radiological	Radon-222	0.5	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122843	HF-4	07/07/10	Radiological	Radon-222	0.5	0.04	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133501	HF-4	01/04/11	Radiological	Radon-222	0.5	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122844	HF-5	07/07/10	Radiological	Radon-222	0.7	0.05	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133502	HF-5	01/04/11	Radiological	Radon-222	0.7	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122845	HF-6	07/07/10	Radiological	Radon-222	0.7	0.05	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133503	HF-6	01/04/11	Radiological	Radon-222	0.4	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122846	HF-7	07/07/10	Radiological	Radon-222	0.6	0.05	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133504	HF-7	01/04/11	Radiological	Radon-222	1.3	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122847	HF-8	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133505	HF-8	01/04/11	Radiological	Radon-222	0.4	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
HIS122848	HF-9	07/07/10	Radiological	Radon-222	0.4	0.04	0.2	pCi/L	=		HISS/Futura (Alpha Tracks)-Environmental Monitoring
HIS133506	HF-9	01/04/11	Radiological	Radon-222	0.5	0	0.2	pCi/L	=		Futura (Alpha Tracks)-Environmental Monitoring
SLA133466	PA-1	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLAPS Air (Alpha Tracks)-Environmental Monitoring
SLA133467	PA-2	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLAPS Air (Alpha Tracks)-Environmental Monitoring
SLA122869-1	PA-2dup	07/07/10	Radiological	Radon-222	0.2	0.02	0.2	pCi/L	=		SLAPS Air (Alpha Tracks)-Environmental Monitoring
SLA133467-1	PA-2dup	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLAPS Air (Alpha Tracks)-Environmental Monitoring
SLA133468	PA-3	01/04/11	Radiological	Radon-222	0.2	0	0.2	pCi/L	U		SLAPS Air (Alpha Tracks)-Environmental Monitoring
SLA133469	PA-4	01/04/11	Radiological	Radon-222	0.6	0	0.2	pCi/L	=		SLAPS Air (Alpha Tracks)-Environmental Monitoring

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APPENDIX C

STORM-WATER, WASTE-WATER AND EXCAVATION-WATER DATA
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Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 200.7	Chromium	7		2	ug/L	=	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 150.1	pH	7.72		0.1	No Units	=	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 1664	Total Recoverable Petroleum Hydrocarbons (TRPH)	5		5	mg/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-024	pH	8.85		0.1	No Units	=	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-005	Thorium-228	0.644	0.403	0.336	pCi/L	J	F01, T04
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-005	Thorium-230	8.57	1.87	0.152	pCi/L	=	
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-005	Thorium-232	0.615	0.382	0.152	pCi/L	J	T04
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-006	Radium-226	0.874	0.515	0.495	pCi/L	J	T04
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-018	Gross Alpha	7.06	5.77	8.97	pCi/L	U	T04, T05
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-018	Gross Beta	0.181	7.12	12.2	pCi/L	UJ	T06
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-003	Actinium-227	1.66	7.07	5.68	pCi/L	UJ	T04, T06
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-003	Protactinium-231	16.2	28.9	27.4	pCi/L	UJ	T04, T06
SVP121886	NPDES Un-named Outfall VP 02L	02/10/10	ML-021	Total Uranium	-1.4	0.128	1.2	pCi/L	UJ	T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	UJ	A03
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-005	Thorium-228	0.188	0.219	0.17	pCi/L	J	F01, T02
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-005	Thorium-230	0.251	0.254	0.17	pCi/L	J	F01, T02
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-005	Thorium-232	0.0627	0.126	0.17	pCi/L	UJ	T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-006	Radium-226	0.179	0.313	0.603	pCi/L	UJ	T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-018	Gross Alpha	1.98	5.21	8.97	pCi/L	UJ	T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-018	Gross Beta	-2.53	6.98	12.2	pCi/L	UJ	T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-003	Actinium-227	0.703	6.77	6.55	pCi/L	UJ	T04, T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-003	Protactinium-231	-0.372	27.8	27.6	pCi/L	UJ	T04, T06
SVP121887	NPDES Un-named Outfall VP 02L	02/11/10	ML-021	Total Uranium	0.434	0.0396	1.2	pCi/L	U	T04, T05
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 150.1	pH	7.86		0.1	No Units	=	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 1664	TRPH	5		5	mg/L	U	

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-024	pH	7.8		0.1	No Units	=	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-005	Thorium-228	0.472	0.364	0.183	pCi/L	J	F01, T04
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-005	Thorium-230	11.6	2.51	0.183	pCi/L	=	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-005	Thorium-232	0.0337	0.151	0.404	pCi/L	UJ	T06
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-006	Radium-226	0.404	0.903	1.88	pCi/L	UJ	T06
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-018	Gross Alpha	52	10.3	8.97	pCi/L	=	
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-018	Gross Beta	16.1	7.89	12.2	pCi/L	J	F01
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-003	Actinium-227	-0.364	7.11	6.8	pCi/L	UJ	T04, T06
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-003	Protactinium-231	15.2	28.8	24.3	pCi/L	UJ	T04, T06
SVP121888	NPDES Un-named Outfall Futura	02/22/10	ML-021	Total Uranium	43.1	3.93	1.2	pCi/L	=	
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-005	Thorium-228	0.649	0.451	0.478	pCi/L	J	F01, T04
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-005	Thorium-230	3.38	1.07	0.176	pCi/L	J	F01
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-005	Thorium-232	0.13	0.184	0.176	pCi/L	UJ	T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-006	Radium-226	0.175	0.252	0.419	pCi/L	UJ	T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-018	Gross Alpha	4.8	5.52	8.97	pCi/L	UJ	T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-018	Gross Beta	-2.9	6.96	12.2	pCi/L	UJ	T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-003	Actinium-227	-2.87	7.46	6.06	pCi/L	UJ	T04, T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-003	Protactinium-231	9.34	29	26.9	pCi/L	UJ	T04, T06
SVP121889	NPDES Un-named Outfall VP 02L	02/22/10	ML-021	Total Uranium	1.35	0.123	1.2	pCi/L	=	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 150.1	pH	7.89		0.1	No Units	=	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-024	pH	7.49		0.1	No Units	=	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-005	Thorium-228	0.219	0.301	0.525	pCi/L	UJ	T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-005	Thorium-230	1.06	0.54	0.17	pCi/L	J	F01, T04
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-005	Thorium-232	0	0	0.169	pCi/L	U	
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-006	Radium-226	0.315	0.814	1.77	pCi/L	UJ	T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-018	Gross Alpha	1.13	4.59	8.08	pCi/L	UJ	T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-018	Gross Beta	2.71	6.84	11.5	pCi/L	UJ	T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-003	Actinium-227	-3.36	8.28	6.72	pCi/L	UJ	T04, T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-003	Protactinium-231	-4.68	32.1	28.7	pCi/L	UJ	T04, T06
SVP121890	NPDES Un-named Outfall Hazelwood	03/11/10	ML-021	Total Uranium	-0.379	0.0346	0.24	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 150.1	pH	7.62		0.1	No Units	=	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 410.4	Chemical Oxygen Demand (COD)	120		5	mg/L	=	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121891	NPDES Outfall PN02	03/11/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121891	NPDES Outfall PN02	03/11/10	ML-024	pH	7.47		0.1	No Units	=	
SVP121891	NPDES Outfall PN02	03/11/10	ML-005	Thorium-228	0.0656	0.208	0.483	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-005	Thorium-230	0.361	0.37	0.552	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-005	Thorium-232	0.0984	0.197	0.393	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-006	Radium-226	-0.00009536	0.971	2.46	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-018	Gross Alpha	2.54	4.77	8.08	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-018	Gross Beta	3.26	6.87	11.5	pCi/L	UJ	T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-003	Actinium-227	3.56	7.59	6.34	pCi/L	UJ	T04, T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-003	Protactinium-231	9.67	27.4	27.3	pCi/L	UJ	T04, T06
SVP121891	NPDES Outfall PN02	03/11/10	ML-021	Total Uranium	4.34	0.396	0.24	pCi/L	=	
SVP121891	NPDES Outfall PN02	03/11/10	SM 7500 Rn B	Radon-222	20.5	30.9	52.8	pCi/L	UJ	T06
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 200.7	Chromium	17		2	ug/L	=	

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 150.1	pH	8.17		0.1	No Units	=	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 160.5	Settleable Solids (SS)	0.2		0.1	mL/L/hr	=	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	EPA 160.5	Settleable Solids (SS)	0.3		0.2	mL/L/hr	=	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-024	pH	7.7		0.1	No Units	=	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-005	Thorium-228	0.689	0.434	0.423	pCi/L	J	F01, T04
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-005	Thorium-230	2.53	0.861	0.423	pCi/L	=	
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-005	Thorium-232	0.344	0.318	0.422	pCi/L	U	T04, T05
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-006	Radium-226	1.23	1.12	1.34	pCi/L	U	T04, T05
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-018	Gross Alpha	0	9.98	17.9	pCi/L	UJ	T06
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-018	Gross Beta	-4.34	13.4	23.4	pCi/L	UJ	T06
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-003	Actinium-227	0.433	7.32	6.74	pCi/L	UJ	T04, T06
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-003	Protactinium-231	-13.6	31.2	27.7	pCi/L	UJ	T04, T06
SVP121892	NPDES Un-named Outfall VP 02L	04/27/10	ML-021	Total Uranium	-0.607	0.0553	1.2	pCi/L	UJ	T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	EPA 160.5	Settleable Solids (SS)	0.3		0.2	mL/L/hr	=	
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-005	Thorium-228	0.37	0.374	0.572	pCi/L	UJ	T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-005	Thorium-230	1.7	0.751	0.704	pCi/L	=	
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-005	Thorium-232	0.339	0.312	0.369	pCi/L	U	T04, T05
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-006	Radium-226	0.672	0.951	1.65	pCi/L	UJ	T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-018	Gross Alpha	-1.69	9.78	17.9	pCi/L	UJ	T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-018	Gross Beta	-3.62	13.5	23.4	pCi/L	UJ	T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-003	Actinium-227	0.423	6.23	5.41	pCi/L	UJ	T04, T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-003	Protactinium-231	7.49	25.9	25.3	pCi/L	UJ	T04, T06
SVP121893	NPDES Un-named Outfall VP 02L	04/28/10	ML-021	Total Uranium	-0.735	0.067	1.2	pCi/L	UJ	T06
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 200.7	Chromium	2.7		2	ug/L	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 150.1	pH	8.01		0.1	No Units	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 410.4	Chemical Oxygen Demand (COD)	7.4		5	mg/L	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	EPA 160.5	Settleable Solids (SS)	0.01		0.2	mL/L/hr	U	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-024	pH	8.08		0.1	No Units	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-005	Thorium-228	0.371	0.308	0.168	pCi/L	J	F01, T04
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-005	Thorium-230	14.2	2.84	0.456	pCi/L	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-005	Thorium-232	0.0619	0.124	0.168	pCi/L	UJ	T06
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-006	Radium-226	0.113	0.747	1.89	pCi/L	UJ	T06
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-018	Gross Alpha	33.3	13.6	17.9	pCi/L	J	F01
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-018	Gross Beta	19.5	14.7	23.4	pCi/L	U	T04, T05
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-003	Actinium-227	1.17	7.13	6.33	pCi/L	UJ	T04, T06
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-003	Protactinium-231	-17.1	28.3	28.4	pCi/L	UJ	T04, T06
SVP121894	NPDES Un-named Outfall Futura	05/17/10	ML-021	Total Uranium	37.4	3.41	1.2	pCi/L	=	
SVP121894	NPDES Un-named Outfall Futura	05/17/10	SM 7500 Rn B	Radon-222	-34.4	47.7	88.3	pCi/L	UJ	T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 150.1	pH	7.24		0.1	No Units	=	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	EPA 160.5	Settleable Solids (SS)	0.5		0.2	mL/L/hr	=	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-024	pH	8.52		0.1	No Units	=	
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-005	Thorium-228	0.241	0.287	0.413	pCi/L	UJ	T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-005	Thorium-230	0.828	0.495	0.187	pCi/L	J	F01, T04
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-005	Thorium-232	0.207	0.241	0.187	pCi/L	J	T02
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-006	Radium-226	0.187	0.325	0.627	pCi/L	UJ	T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-018	Gross Alpha	1.13	8.9	15.9	pCi/L	UJ	T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-018	Gross Beta	6.34	13.8	23.3	pCi/L	UJ	T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-003	Actinium-227	-2.38	5.64	4.37	pCi/L	UJ	T04, T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-003	Protactinium-231	2.59	21.2	20.2	pCi/L	UJ	T04, T06
SVP121895	NPDES Un-named Outfall VP 02L	07/01/10	ML-021	Total Uranium	0.169	0.0154	1.2	pCi/L	UJ	J01, T04, T05

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-024	pH	6.96		0.1	No Units	=	
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-005	Thorium-228	0.259	0.262	0.175	pCi/L	J	T02
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-005	Thorium-230	0.291	0.3	0.388	pCi/L	UJ	T06
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-005	Thorium-232	0	0	0.175	pCi/L	U	
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-006	Radium-226	0.473	0.433	0.581	pCi/L	U	T04, T05
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-018	Gross Alpha	-4.52	8.16	15.9	pCi/L	UJ	T06
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-018	Gross Beta	33.8	15.8	23.5	pCi/L	J	F01
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-003	Actinium-227	3.19	6.66	5.14	pCi/L	UJ	T04, T06
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-003	Protactinium-231	-13.2	26.4	23.2	pCi/L	UJ	T04, T06
SVP121896	NPDES Un-named Outfall VP 02L	07/06/10	ML-021	Total Uranium	2.34	0.213	1.2	pCi/L	J	J01
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-024	pH	7.44		0.1	No Units	=	
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-005	Thorium-228	-0.136	0.272	0.909	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-005	Thorium-230	0.452	0.467	0.666	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-005	Thorium-232	0.0903	0.181	0.245	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-006	Radium-226	0.189	0.309	0.585	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-018	Gross Alpha	-1.69	8.53	15.9	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-018	Gross Beta	-5.4	13.1	23.5	pCi/L	UJ	T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-003	Actinium-227	4.66	6.13	4.97	pCi/L	UJ	T04, T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-003	Protactinium-231	-9.55	26.3	21.8	pCi/L	UJ	T04, T06
SVP121897	NPDES Un-named Outfall VP 02L	07/08/10	ML-021	Total Uranium	1.85	0.169	1.2	pCi/L	J	J01
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-005	Thorium-228	0.393	0.406	0.524	pCi/L	UJ	T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-005	Thorium-230	0.481	0.444	0.525	pCi/L	U	T04, T05
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-005	Thorium-232	-0.0437	0.0876	0.524	pCi/L	UJ	T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-006	Radium-226	0.299	0.346	0.27	pCi/L	J	F01, T02
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-018	Gross Alpha	-2.82	8.38	15.9	pCi/L	UJ	T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-018	Gross Beta	-6.77	12.8	23.1	pCi/L	UJ	T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-003	Actinium-227	2.39	6.26	5.45	pCi/L	UJ	T04, T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-003	Protactinium-231	13.8	25.4	23.9	pCi/L	UJ	T04, T06
SVP121898	NPDES Un-named Outfall VP 02L	07/12/10	ML-021	Total Uranium	-0.047	0.00429	1.2	pCi/L	J	J01, T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-005	Thorium-228	-0.0515	0.103	0.618	pCi/L	UJ	T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-005	Thorium-230	0.515	0.47	0.279	pCi/L	J	F01, T04
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-005	Thorium-232	0	0	0.279	pCi/L	U	
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-006	Radium-226	0.342	0.349	0.503	pCi/L	UJ	T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-018	Gross Alpha	-0.565	8.68	15.9	pCi/L	UJ	T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-018	Gross Beta	-0.484	13.2	23.1	pCi/L	UJ	T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-003	Actinium-227	-3.76	7.85	6.13	pCi/L	UJ	T04, T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-003	Protactinium-231	0.38	25.9	25.8	pCi/L	UJ	T04, T06
SVP121899	NPDES Un-named Outfall VP 02L	07/13/10	ML-021	Total Uranium	-0.35	0.032	1.2	pCi/L	UJ	J01, T06

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 150.1	pH	7.69		0.1	No Units	=	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 1664	TRPH	5		5	mg/L	UJ	H04
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	EPA 160.5	Settleable Solids (SS)	0.5		0.2	mL/L/hr	=	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-024	pH	7.61		0.1	No Units	=	
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-005	Thorium-228	0.0677	0.214	0.498	pCi/L	UJ	T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-005	Thorium-230	0.407	0.338	0.184	pCi/L	J	F01, T04
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-005	Thorium-232	0.135	0.192	0.183	pCi/L	UJ	T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-006	Radium-226	0.655	0.946	1.57	pCi/L	UJ	T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-018	Gross Alpha	-2.82	8.38	15.9	pCi/L	UJ	T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-018	Gross Beta	4.86	13.7	23.3	pCi/L	UJ	T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-003	Actinium-227	-4.65	8.24	6.86	pCi/L	UJ	T04, T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-003	Protactinium-231	6.94	27.3	29.7	pCi/L	UJ	T04, T06
SVP121900	NPDES Un-named Outfall Futura	07/20/10	ML-021	Total Uranium	7.59	0.692	1.2	pCi/L	J	J01
SVP121901	NPDES Un-named Outfall Futura	07/21/10	EPA 160.5	Settleable Solids (SS)	0.01		0.2	mL/L/hr	U	
SVP121901	NPDES Un-named Outfall Futura	07/21/10	ML-021	Total Uranium	5.94	0.541	1.2	pCi/L	J	J01
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 200.7	Chromium	2.1		2	ug/L	=	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 150.1	pH	7.91		0.1	No Units	=	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 1664	TRPH	5		5	mg/L	UJ	H04
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	EPA 160.5	Settleable Solids (SS)	0.01		0.2	mL/L/hr	U	

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-024	pH	7.92		0.1	No Units	=	
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-005	Thorium-228	0.261	0.264	0.177	pCi/L	J	T02
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-005	Thorium-230	0.947	0.53	0.392	pCi/L	J	F01, T04
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-005	Thorium-232	0.0652	0.131	0.177	pCi/L	UJ	T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-006	Radium-226	0.186	0.268	0.446	pCi/L	UJ	T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-018	Gross Alpha	3.95	9.25	15.9	pCi/L	UJ	T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-018	Gross Beta	3.36	13.4	23	pCi/L	UJ	T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-003	Actinium-227	1.94	7.31	5.54	pCi/L	UJ	T04, T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-003	Protactinium-231	10.8	26.1	24.4	pCi/L	UJ	T04, T06
SVP121902	NPDES Un-named Outfall VP-02L	07/21/10	ML-021	Total Uranium	0.189	0.0173	1.2	pCi/L	J	J01, T04, T05
SVP121903	NPDES Un-named Outfall Futura	07/22/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-005	Thorium-228	0.0354	0.159	0.425	pCi/L	UJ	T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-005	Thorium-230	0.497	0.421	0.522	pCi/L	U	T04, T05
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-005	Thorium-232	0.0708	0.142	0.192	pCi/L	UJ	T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-006	Radium-226	0.545	0.771	0.738	pCi/L	UJ	T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-018	Gross Alpha	13.6	10.4	15.9	pCi/L	U	T04, T05
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-018	Gross Beta	2.4	13.3	23	pCi/L	UJ	T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-003	Actinium-227	-4.39	7.4	6.3	pCi/L	UJ	T04, T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-003	Protactinium-231	22.1	29.7	27.8	pCi/L	UJ	T04, T06
SVP121903	NPDES Un-named Outfall Futura	07/22/10	ML-021	Total Uranium	4.5	0.41	1.2	pCi/L	J	J01
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-005	Thorium-228	0.178	0.258	0.427	pCi/L	UJ	T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-005	Thorium-230	0.749	0.523	0.6	pCi/L	J	F01, T04
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-005	Thorium-232	-0.0712	0.101	0.524	pCi/L	UJ	T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-006	Radium-226	0.667	0.423	0.181	pCi/L	J	F01, T04
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-018	Gross Alpha	9.04	9.88	15.9	pCi/L	UJ	T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-018	Gross Beta	9.01	15.2	25.3	pCi/L	UJ	T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-003	Actinium-227	6.71	7.03	6.9	pCi/L	UJ	T04, T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-003	Protactinium-231	2.91	26.2	28.8	pCi/L	UJ	T04, T06
SVP121904	NPDES Un-named Outfall VP 02L	07/22/10	ML-021	Total Uranium	0.111	0.0101	1.2	pCi/L	J	J01, T04, T05
SVP121905	NPDES Un-named Outfall Futura	07/26/10	EPA 160.5	Settleable Solids (SS)	0.01		0.2	mL/L/hr	U	
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-005	Thorium-228	0.359	0.331	0.392	pCi/L	U	T04, T05
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-005	Thorium-230	1.11	0.565	0.177	pCi/L	J	F01, T04
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-005	Thorium-232	0.0652	0.131	0.177	pCi/L	UJ	T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-006	Radium-226	0.599	0.865	1.44	pCi/L	UJ	T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-018	Gross Alpha	-1.69	10.4	19	pCi/L	UJ	T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-018	Gross Beta	-3.26	12.7	22.2	pCi/L	UJ	T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-003	Actinium-227	-6.6	7.43	5.61	pCi/L	UJ	T04, T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-003	Protactinium-231	-6.46	26.9	27.9	pCi/L	UJ	T04, T06
SVP121905	NPDES Un-named Outfall Futura	07/26/10	ML-021	Total Uranium	10.6	0.969	1.2	pCi/L	=	
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-005	Thorium-228	0.171	0.249	0.411	pCi/L	UJ	T06

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-005	Thorium-230	0.412	0.342	0.186	pCi/L	J	F01, T04
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-005	Thorium-232	0	0	0.186	pCi/L	U	
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-006	Radium-226	0.618	1.08	2.08	pCi/L	UJ	T06
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-018	Gross Alpha	-7.91	9.74	19	pCi/L	UJ	T06
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-018	Gross Beta	5.79	13.2	22.2	pCi/L	UJ	T06
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-003	Actinium-227	-6.69	6.72	5.39	pCi/L	UJ	T04, T06
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-003	Protactinium-231	-18.6	25.9	24	pCi/L	UJ	T04, T06
SVP121906	NPDES Un-named Outfall VP-02L	07/26/10	ML-021	Total Uranium	1.88	0.172	1.2	pCi/L	=	
SVP121907	NPDES Un-named Outfall Futura	07/27/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-005	Thorium-228	0.202	0.331	0.625	pCi/L	UJ	T06
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-005	Thorium-230	0.606	0.415	0.183	pCi/L	J	F01, T04
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-005	Thorium-232	0	0	0.182	pCi/L	U	
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-006	Radium-226	2.76	2.29	2.55	pCi/L	J	T04
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-018	Gross Alpha	23.7	13.1	19	pCi/L	J	F01, T04
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-018	Gross Beta	6.51	13.3	22.2	pCi/L	UJ	T06
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-003	Actinium-227	0.356	4.94	3.88	pCi/L	UJ	T04, T06
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-003	Protactinium-231	7.43	19.4	18.4	pCi/L	UJ	T04, T06
SVP121907	NPDES Un-named Outfall Futura	07/27/10	ML-021	Total Uranium	21.6	1.97	1.2	pCi/L	=	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 150.1	pH	7.74		0.1	No Units	=	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 1664	TRPH	5		5	mg/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 413.1	Oil and Grease	5		5	mg/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-024	pH	7.04		0.1	No Units	=	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-005	Thorium-228	0.168	0.244	0.403	pCi/L	UJ	T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-005	Thorium-230	0.236	0.28	0.404	pCi/L	UJ	T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-005	Thorium-232	0	0	0.182	pCi/L	U	
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-006	Radium-226	0.803	0.947	1.38	pCi/L	UJ	T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-018	Gross Alpha	0	10.6	19	pCi/L	UJ	T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-018	Gross Beta	0	12.9	22.2	pCi/L	UJ	T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-003	Actinium-227	1.44	7.06	6.21	pCi/L	UJ	T04, T06
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-003	Protactinium-231	6.03	27.7	27.8	pCi/L	UJ	T04, T06

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121908	NPDES Un-named Outfall VP-02L	08/03/10	ML-021	Total Uranium	4.97	0.453	0.24	pCi/L	=	
SVP121909	NPDES Un-named Outfall VP-02L	08/04/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121909	NPDES Un-named Outfall VP-02L	08/04/10	ML-021	Total Uranium	3.14	0.286	0.24	pCi/L	=	
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-005	Thorium-228	0.148	0.215	0.355	pCi/L	UJ	T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-005	Thorium-230	0.356	0.295	0.161	pCi/L	J	F01, T04
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-005	Thorium-232	0	0	0.16	pCi/L	U	
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-006	Radium-226	0.746	0.88	1.28	pCi/L	UJ	T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-018	Gross Alpha	-1.69	10.4	19	pCi/L	UJ	T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-018	Gross Beta	7.24	13.3	22.2	pCi/L	UJ	T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-003	Actinium-227	1.86	7.71	5.88	pCi/L	UJ	T04, T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-003	Protactinium-231	4.47	25.9	26.6	pCi/L	UJ	T04, T06
SVP121910	NPDES Un-named Outfall VP-02L	08/05/10	ML-021	Total Uranium	0.66	0.0602	1.2	pCi/L	U	T04, T05
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 150.1	pH	7.78		0.1	No Units	J	A03
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	UJ	A03
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 1664	Oil and Grease	5		5	mg/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 418.1	Total Petroleum Hydrocarbons (TPH)	5		5	mg/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-024	pH	7.73		0.1	No Units	J	A03
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-005	Thorium-228	0.152	0.22	0.365	pCi/L	UJ	T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-005	Thorium-230	0.152	0.221	0.365	pCi/L	UJ	T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-005	Thorium-232	-0.0304	0.0609	0.364	pCi/L	UJ	T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-006	Radium-226	1.16	1.34	2.16	pCi/L	UJ	T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-018	Gross Alpha	5.65	5.08	7.96	pCi/L	U	T04, T05
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-018	Gross Beta	-5.07	6.25	11.2	pCi/L	UJ	T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-003	Actinium-227	-1.03	6.94	5.92	pCi/L	UJ	T04, T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-003	Protactinium-231	-20.9	31.2	27.7	pCi/L	UJ	T04, T06
SVP121911	NPDES Un-named Outfall VP-02L	11/27/10	ML-021	Total Uranium	1.97	0.18	1.2	pCi/L	J	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 200.7	Arsenic	15		15	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 200.7	Cadmium	2		2	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 200.7	Chromium	2		2	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 150.1	pH	7.66		0.1	No Units	J	A03

Table C-1. NPDES Analytical Data for 2010

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 160.5	Settleable Solids (SS)	0.1		0.1	mL/L/hr	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 410.4	Chemical Oxygen Demand (COD)	5		5	mg/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 1664	Oil and Grease	5		5	mg/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 418.1	Total Petroleum Hydrocarbons (TPH)	5		5	mg/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1016	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1221	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1232	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1242	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1248	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1254	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	SW846 8082	Aroclor-1260	0.5		0.5	ug/L	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	EPA 160.5	Settleable Solids (SS)	0.1		0.2	mL/L/hr	U	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-024	pH	7.73		0.1	No Units	=	
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-005	Thorium-228	0.446	0.371	0.201	pCi/L	J	F01, T04
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-005	Thorium-230	1.27	0.645	0.202	pCi/L	J	F01, T04
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-005	Thorium-232	-0.0371	0.0745	0.446	pCi/L	UJ	T06
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-006	Radium-226	-0.00002269	0.85	2.28	pCi/L	UJ	T06
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-018	Gross Alpha	7.34	5.28	7.96	pCi/L	U	T04, T05
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-018	Gross Beta	1.45	6.61	11.2	pCi/L	UJ	T06
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-003	Actinium-227	0.757	7.16	5.66	pCi/L	UJ	T04, T06
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-003	Protactinium-231	-24.1	27.6	27.7	pCi/L	UJ	T04, T06
SVP121912	NPDES Un-named Outfall VP-02L	12/02/10	ML-021	Total Uranium	8.07	0.736	1.2	pCi/L	J	
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	EPA 160.5	Settleable Solids (SS)	0		0.2	mL/L/hr	U	
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-005	Thorium-228	0.495	0.387	0.396	pCi/L		F01, T04
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-005	Thorium-230	0.331	0.3	0.179	pCi/L		T04
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-005	Thorium-232	-0.033	0.0662	0.396	pCi/L	U	T06
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-006	Radium-226	-2.59E-05	0.548	1.65	pCi/L	U	T06
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-018	Gross Alpha	16.3	7.6	10.4	pCi/L		F01
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-018	Gross Beta	8.38	7.15	11.5	pCi/L	U	T04, T05
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-003	Actinium-227	-1.21	7.05	5.79	pCi/L	U	T04, T06
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-003	Protactinium-231	-18.5	28.3	24.4	pCi/L	U	T04, T06
SVP121913	NPDES Un-named Outfall VP-02L	12/20/10	ML-021	Total Uranium	13	1.18	1.2	pCi/L		

Table C-2. North St. Louis County Sites Rainfall Data for CY 2010

First Quarter CY 2010 Data

Date	(inches)	Outfall	Outfall 02L	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b
1-Jan	0.03			
2-Jan				
3-Jan				
4-Jan				
5-Jan				
6-Jan	0.12			
7-Jan	0.07			
8-Jan				
9-Jan				
10-Jan				
11-Jan				
12-Jan				
13-Jan				
14-Jan				
15-Jan				
16-Jan				
17-Jan				
18-Jan				
19-Jan				
20-Jan	0.11			
21-Jan	0.29			
22-Jan				
23-Jan	0.43			
24-Jan	0.09			
25-Jan				
26-Jan	0.01			
27-Jan	0.05			
28-Jan				
29-Jan				
30-Jan				
31-Jan				
Total (in.)	1.20			
Monthly Average			0.000	0.000

Date	(inches)	Outfall	Outfall 02L	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b
1-Feb				
2-Feb				
3-Feb				
4-Feb	0.12			
5-Feb	0.67			
6-Feb				
7-Feb				
8-Feb	0.12			
9-Feb	0.04			
10-Feb			0.029	
11-Feb			0.005	
12-Feb				
13-Feb				
14-Feb	0.19			
15-Feb	0.01			
16-Feb				
17-Feb				
18-Feb				
19-Feb	0.01			
20-Feb				
21-Feb	0.86			
22-Feb	0.07		0.038	0.079
23-Feb				
24-Feb				
25-Feb				
26-Feb				
27-Feb				
28-Feb				
Total (in.)	2.09			
Monthly Average			0.002	0.003

Date	(inches)	Outfall	Outfall 02L	Outfall Futura	Outfall Hazelwood Ave.
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	Un-named ^b
1-Mar					
2-Mar					
3-Mar					
4-Mar					
5-Mar					
6-Mar					
7-Mar					
8-Mar					
9-Mar	0.13				
10-Mar	0.25	0.053			0.0001
11-Mar	0.40				
12-Mar	0.23				
13-Mar	0.21				
14-Mar	0.03				
15-Mar					
16-Mar					
17-Mar					
18-Mar					
19-Mar					
20-Mar	0.03				
21-Mar	0.28				
22-Mar	0.03				
23-Mar					
24-Mar					
25-Mar	0.74				
26-Mar					
27-Mar	0.01				
28-Mar	0.26				
29-Mar					
30-Mar					
31-Mar					
Total (in.)	2.60				
Monthly Average			0.000	0.000	0.000

Notes:
 Flow measurements for the outfalls are reported in MGD and reported to three significant digits. All blank spaces represent zero flow.
 Rainfall data is obtained from the National Weather Service Station at Lambert-St. Louis International Airport.
^a Outfall 002 is sampled annually per MDNR letter dated 2/19/02, as a result flow is not measured until a sample is collected.
^b Un-named moving outfall which is sampled during pump activities or from a rain event producing a measurable flow off-site.
 in. = inches

Table C-2. North St. Louis County Sites Rainfall Data for CY 2010

Second Quarter CY 2010 Data

Date	(inches)	Outfall	Outfall 02L	Outfall Futura	Date	(inches)	Outfall	Outfall 02L	Outfall Futura	Date	(inches)	Outfall	Outfall 02L	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b
1-Apr					1-May	0.01				1-Jun				
2-Apr	0.10				2-May	0.13				2-Jun	0.58			
3-Apr	0.32				3-May	0.02				3-Jun	0.05			
4-Apr	0.25				4-May					4-Jun				
5-Apr	0.27				5-May					5-Jun	trace			
6-Apr					6-May					6-Jun				
7-Apr	trace				7-May	trace				7-Jun				
8-Apr					8-May					8-Jun	0.68			
9-Apr					9-May	trace				9-Jun	0.03			
10-Apr					10-May	0.27				10-Jun				
11-Apr					11-May	0.01				11-Jun	trace			
12-Apr					12-May	1.29				12-Jun	0.26			
13-Apr					13-May	0.09				13-Jun	0.34			
14-Apr					14-May	0.30				14-Jun	0.25			
15-Apr					15-May	0.50				15-Jun	0.38			
16-Apr	0.02				16-May	0.99				16-Jun				
17-Apr					17-May	0.02			0.036	17-Jun	0.41			
18-Apr					18-May					18-Jun				
19-Apr					19-May	trace				19-Jun	0.07			
20-Apr					20-May	0.35				20-Jun				
21-Apr	trace				21-May	0.27				21-Jun				
22-Apr	0.37				22-May					22-Jun	0.01			
23-Apr	0.13				23-May					23-Jun				
24-Apr	0.78				24-May					24-Jun	0.03			
25-Apr	0.33				25-May					25-Jun				
26-Apr	0.03				26-May	0.38				26-Jun				
27-Apr	0.12		0.038		27-May					27-Jun	0.95			
28-Apr			0.038		28-May					28-Jun				
29-Apr					29-May					29-Jun				
30-Apr	0.29				30-May	trace				30-Jun				
					31-May	0.01								
Total (in.)	3.01				Total (in.)	4.64				Total (in.)	4.04			
Monthly Average			0.003	0.000	Monthly Average			0.000	0.001	Monthly Average			0.000	0.000

Notes:

Flow measurements for the outfalls are reported in MGD and reported to three significant digits. All blank spaces represent zero flow.

Rainfall data is obtained from the National Weather Service Station at Lambert-St. Louis International Airport.

^a Outfall 002 is sampled annually per MDNR letter dated 2/19/02, as a result flow is not measured until a sample is collected.

^b Un-named moving outfall which is sampled during pump activities or from a rain event producing a measurable flow off-site.

in. = inches

Table C-2. North St. Louis County Sites Rainfall Data for CY 2010

Third Quarter CY 2010 Data

Date	(inches)	Outfall	Outfall 02L	Outfall HISS/ Futura	Date	(inches)	Outfall	Outfall 02L	Outfall HISS/ Futura	Date	(inches)	Outfall	Outfall 02L	Outfall VP-12	Outfall McDonnell Blvd.	Outfall HISS/ Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	Un-named ^b	Un-named ^b
1-Jul			0.019		1-Aug					1-Sep	0.07					
2-Jul					2-Aug					2-Sep	0.33					
3-Jul					3-Aug			0.011		3-Sep	0.01					
4-Jul	0.13				4-Aug			0.004		4-Sep						
5-Jul					5-Aug	0.39		0.012		5-Sep						
6-Jul	0.08		0.026		6-Aug					6-Sep						
7-Jul	0.14				7-Aug					7-Sep	trace					
8-Jul	0.95		0.017		8-Aug					8-Sep						
9-Jul	0.36				9-Aug					9-Sep	0.26					
10-Jul					10-Aug	0.04				10-Sep	0.63			0.005		
11-Jul	0.01				11-Aug					11-Sep	0.54			0.005		
12-Jul	0.02		0.029		12-Aug	trace				12-Sep						
13-Jul	0.08		0.018		13-Aug	trace				13-Sep						
14-Jul					14-Aug	1.64				14-Sep						
15-Jul					15-Aug					15-Sep	0.06					
16-Jul					16-Aug					16-Sep	trace					
17-Jul	0.14				17-Aug	trace				17-Sep						
18-Jul	0.25				18-Aug	trace				18-Sep	0.46					
19-Jul	0.02				19-Aug					19-Sep	0.86				0.112	
20-Jul	1.97			0.019	20-Aug	0.72				20-Sep					0.210	
21-Jul	0.74		0.018	0.007	21-Aug	0.44				21-Sep						
22-Jul			0.054	0.007	22-Aug					22-Sep	0.07				0.017	
23-Jul					23-Aug					23-Sep						
24-Jul	0.97				24-Aug					24-Sep	0.16					
25-Jul	trace				25-Aug					25-Sep	0.20				0.049	
26-Jul	trace		0.043	0.065	26-Aug					26-Sep	0.08				0.020	
27-Jul	0.30			0.023	27-Aug					27-Sep						
28-Jul					28-Aug					28-Sep						
29-Jul	0.01				29-Aug					29-Sep						
30-Jul	0.52				30-Aug	0.39				30-Sep						
31-Jul	trace				31-Aug											
Total (in.)	6.69				Total (in.)	3.62				Total (in.)	3.73					
Monthly Average			0.007	0.004	Monthly Average			0.001	0.000	Monthly Average			0.000	0.000	0.014	0.000

Notes:

Flow measurements for the outfalls are reported in MGD and reported to three significant digits. All blank spaces represent zero flow.

Rainfall data is obtained from the National Weather Service Station at Lambert-St. Louis International Airport.

^a Outfall 002 is sampled annually per MDNR letter dated 2/19/02, as a result flow is not measured until a sample is collected.

^b Un-named moving outfall which is sampled during pump activities or from a rain event producing a measurable flow off-site.

in. = inches

Table C-2. North St. Louis County Sites Rainfall Data for CY 2010

Fourth Quarter CY 2010 Data

Date	(inches)	Outfall	Outfall VP-12	Outfall 02L	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	Un-named ^b
1-Oct					
2-Oct	0.01				
3-Oct					
4-Oct					
5-Oct					
6-Oct					
7-Oct					
8-Oct					
9-Oct					
10-Oct					
11-Oct	0.01				
12-Oct					
13-Oct	0.01				
14-Oct					
15-Oct					
16-Oct					
17-Oct					
18-Oct					
19-Oct					
20-Oct					
21-Oct					
22-Oct			0.075		
23-Oct			0.075		
24-Oct	0.79		0.075		
25-Oct			0.075		
26-Oct	0.24				
27-Oct					
28-Oct					
29-Oct					
30-Oct					
31-Oct					
Total (in.)	1.06				
Monthly Average			0.010	0.000	0.000

Date	(inches)	Outfall	Outfall McDonnell Blvd.	Outfall 02L	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	Un-named ^b
1-Nov					
2-Nov					
3-Nov					
4-Nov	0.03				
5-Nov	trace				
6-Nov					
7-Nov					
8-Nov					
9-Nov					
10-Nov					
11-Nov					
12-Nov					
13-Nov	0.01				
14-Nov					
15-Nov	trace				
16-Nov					
17-Nov	0.14				
18-Nov	0.03				
19-Nov					
20-Nov					
21-Nov					
22-Nov	0.77				
23-Nov					
24-Nov	3.08		0.201		
25-Nov	0.78		0.051		
26-Nov					
27-Nov				0.027	
28-Nov					
29-Nov					
30-Nov	trace				
Total (in.)	4.84				
Monthly Average			0.008	0.001	0.000

Date	(inches)	Outfall	Outfall 02L	Outfall VP-12	Outfall McDonnell Blvd.	Outfall Futura
2010	24-hour total	002 ^a	Un-named ^b	Un-named ^b	Un-named ^b	Un-named ^b
1-Dec	trace					
2-Dec			0.008			
3-Dec	trace					
4-Dec	trace					
5-Dec	trace					
6-Dec	trace					
7-Dec						
8-Dec						
9-Dec						
10-Dec						
11-Dec	0.26					
12-Dec	0.13					
13-Dec	trace					
14-Dec	0.10					
15-Dec						
16-Dec						
17-Dec						
18-Dec						
19-Dec	0.01					
20-Dec	trace		0.004			
21-Dec						
22-Dec						
23-Dec						
24-Dec	0.25					
25-Dec	0.05					
26-Dec	trace					
27-Dec	trace					
28-Dec						
29-Dec	0.06					
30-Dec	trace					
31-Dec	0.53					
Total (in.)	1.39					
Monthly Average			0.000	0.000	0.000	0.000

Notes:

Flow measurements for the outfalls are reported in MGD and reported to three significant digits. All blank spaces represent zero flow.

Rainfall data is obtained from the National Weather Service Station at Lambert-St. Louis International Airport.

^a Outfall 002 is sampled annually per MDNR letter dated 2/19/02, as a result flow is not measured until a sample is collected.

^b Un-named moving outfall which is sampled during pump activities or from a rain event producing a measurable flow off-site.

in. = inches

Table C-3a. Selenium Variance Calculation - Third Quarter CY 2010

Batch	Date	Se Concentration (mg/L)	Volume (gallons)	Total Mass (Limit - 76 grams)
SLAPS-220	07/01/10	0.160	10,655	6
SLAPS-221	07/15/10	0.230	17,252	15
SLAPS-222	07/19/10	0.260	15,742	15
SLAPS-223	07/26/10	0.150	16,387	9
	07/27/10	0.150	4,371	2
SLAPS-224	07/26/10	0.190	20,028	14
SLAPS-225	07/22/10	0.012	9,613	0
SLAPS-226	07/28/10	0.010	36,859	1
SLAPS-227	08/03/10	0.013	17,553	1
SLAPS-228	08/02/10	0.120	18,849	9
SLAPS-229	08/09/10	0.034	14,740	2
SLAPS-230	08/16/10	0.190	15,943	11
SLAPS-231	08/16/10	0.010	47,064	2
SLAPS-232	08/18/10	0.130	16,371	8
SLAPS-233	08/19/10	0.091	13,878	5
SLAPS-234	08/23/10	0.058	11,949	3
SLAPS-235	08/23/10	0.025	10,845	1
SLAPS-236	08/23/10	0.010	58,037	2
	08/24/10	0.010	56,298	2
	08/25/10	0.010	64,765	2
SLAPS-237	08/25/10	0.090	17,240	6
SLAPS-238	08/30/10	0.150	18,913	11
SLAPS-239	09/08/10	0.010	58,401	2
SLAPS-240	09/13/10	0.160	14,268	9
SLAPS-241	09/16/10	0.100	16,114	6
Batch-242	09/20/10	0.120	16,508	7
Batch-243	09/20/10	0.170	7,218	5
	09/21/10	0.170	8,712	6
Batch-244	09/23/10	0.120	20,307	9
Batch-245	09/27/10	0.150	16,208	9
Batch-246	09/27/10	0.240	10,071	9
	09/28/10	0.240	3,022	3

The limit for selenium can be a daily total mass 76 grams, or a concentration of 0.20 mg/L.

Table C-3b. Selenium Variance Calculation - Fourth Quarter CY 2010

Batch	Date	Se Concentration (mg/L)	Volume (gallons)	Total Mass (Limit - 76 grams)
Batch-247	10/28/10	0.130	17,437	9
Batch-248	11/15/10	0.120	14,886	7
Batch-249	11/30/10	0.100	12,095	5
	12/01/10	0.100	7,586	3
Batch-250	12/01/10	0.039	20,214	3
Batch-251	12/01/10	0.064	52,626	13
Batch-252	12/02/10	0.027	18,994	2
Batch-253	12/02/10	0.072	11,018	3
	12/07/10	0.072	7,913	2
Batch-254	12/07/10	0.069	4,451	1
Batch-255	12/15/10	0.300	8,882	10
	12/16/10	0.300	7,261	8

The limit for selenium can be a daily total mass 76 grams, or a concentration of 0.20 mg/L.

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 1st Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR				
Gross Alpha (raw water)	SLAPS-175	01/14/10 (HISS/Futura Latty VP)	<7 pCi/L	14,116	1.9E-07	3000 pCi/L	0.00				
Gross Beta			<12 pCi/L		3.2E-07	NA pCi/L					
Th-228			<0.6 pCi/L		1.6E-08	2000 pCi/L					
Th-230			0.5 pCi/L		2.6E-08	1000 pCi/L					
U (KPA)			1 pCi/L		6.8E-08	3000 pCi/L					
Ra-226			<0.6 pCi/L		1.6E-08	600 pCi/L					
Ra-228 ^b			<0.6 pCi/L		1.6E-08	600 pCi/L					
Barium			0.09 mg/L								
Lead			<0.010 mg/L								
Selenium ^c			0.16 mg/L								
Biological Oxygen Demand (BOD) ^d			NA mg/L								
COD ^d			NA mg/L								
Gross Alpha (Total Suspended Solids (TSS) filtrate)			9 pCi/L								
TSS			6 mg/L								
Gross Alpha (raw water)			SLAPS-176		01/25/10 (HISS/Futura Latty VP)	23 pCi/L		16,283	1.4E-06	3000 pCi/L	0.01
Gross Beta						<11 pCi/L			3.3E-07	NA pCi/L	
Th-228	0.4 pCi/L	2.4E-08		2000 pCi/L							
Th-230	0.9 pCi/L	5.2E-08		1000 pCi/L							
U (KPA)	22 pCi/L	1.3E-06		3000 pCi/L							
Ra-226	<0.6 pCi/L	1.9E-08		600 pCi/L							
Ra-228 ^b	0.4 pCi/L	2.4E-08		600 pCi/L							
Barium	0.012 mg/L										
Lead	<0.010 mg/L										
Selenium ^c	0.18 mg/L										
BOD ^d	NA mg/L										
COD ^d	NA mg/L										
Gross Alpha (TSS filtrate)	20 pCi/L										
TSS	27 mg/L										
Gross Alpha (raw water)	SLAPS-177	01/27/10, 02/02/10 (HISS/Futura Latty VP)		64 pCi/L		17,305	4.2E-06		3000 pCi/L	0.03	
Gross Beta				31 pCi/L			2.0E-06		NA pCi/L		
Th-228			<0.5 pCi/L	1.7E-08	2000 pCi/L						
Th-230			5 pCi/L	3.2E-07	1000 pCi/L						
U (KPA)			60 pCi/L	4.0E-06	3000 pCi/L						
Ra-226			1 pCi/L	7.2E-08	600 pCi/L						
Ra-228 ^b			<0.5 pCi/L	1.7E-08	600 pCi/L						
Barium			0.07 mg/L								
Lead			<0.010 mg/L								
Selenium ^c			0.14 mg/L								
BOD ^d			NA mg/L								
COD ^d			NA mg/L								
Gross Alpha (TSS filtrate)			49 pCi/L								
TSS			16 mg/L								

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 1st Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-178	02/02/10 (HISS/Futura Latty VP)	95 pCi/L	17,346	6.2E-06	3000 pCi/L	0.04
Gross Beta			56 pCi/L		3.7E-06	NA pCi/L	
Th-228			<0.7 pCi/L		2.1E-08	2000 pCi/L	
Th-230			7.5 pCi/L		4.9E-07	1000 pCi/L	
U (KPA)			96 pCi/L		6.3E-06	3000 pCi/L	
Ra-226			0.8 pCi/L		5.2E-08	600 pCi/L	
Ra-228 ^b			<0.7 pCi/L		2.1E-08	600 pCi/L	
Barium			0.1 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.11 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			75 pCi/L				
TSS			19 mg/L				
Gross Alpha (raw water)			SLAPS-179		02/04/10 (HISS/Futura Latty VP)	18 pCi/L	
Gross Beta	<11 pCi/L	2.7E-07		NA pCi/L			
Th-228	<0.9 pCi/L	2.1E-08		2000 pCi/L			
Th-230	1 pCi/L	4.8E-08		1000 pCi/L			
U (KPA)	19 pCi/L	9.2E-07		3000 pCi/L			
Ra-226	<2 pCi/L	5.0E-08		600 pCi/L			
Ra-228 ^b	<0.9 pCi/L	2.1E-08		600 pCi/L			
Barium	0.08 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	0.20 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	20 pCi/L						
TSS	9 mg/L						
Gross Alpha (raw water)	SLAPS-180	02/22/10 (HISS/Futura Latty VP)		16 pCi/L		14,588	8.9E-07
Gross Beta			<12 pCi/L	3.2E-07	NA pCi/L		
Th-228			<0.8 pCi/L	2.1E-08	2000 pCi/L		
Th-230			0.7 pCi/L	3.8E-08	1000 pCi/L		
U (KPA)			15 pCi/L	8.1E-07	3000 pCi/L		
Ra-226			<2 pCi/L	4.2E-08	600 pCi/L		
Ra-228 ^b			<0.8 pCi/L	2.1E-08	600 pCi/L		
Barium			0.07 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.18 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			21 pCi/L				
TSS			20 mg/L				
Gross Alpha (raw water)			SLAPS-181	03/01/10 (HISS/Futura Latty VP)	22 pCi/L		15,562
Gross Beta	<11 pCi/L	3.2E-07			NA pCi/L		
Th-228	0.7 pCi/L	3.9E-08			2000 pCi/L		
Th-230	3.7 pCi/L	2.2E-07			1000 pCi/L		
U (KPA)	24 pCi/L	1.4E-06			3000 pCi/L		
Ra-226	<0.7 pCi/L	1.8E-08			600 pCi/L		
Ra-228 ^b	0.7 pCi/L	3.9E-08			600 pCi/L		
Barium	0.05 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	0.18 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	17 pCi/L						
TSS	40 mg/L						

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 1st Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-182	03/18/10 (HISS/Futura Latty VP)	60 pCi/L	15,942	3.6E-06	3000 pCi/L	0.02
Gross Beta			21 pCi/L		1.2E-06	NA pCi/L	
Th-228			0.6 pCi/L		3.7E-08	2000 pCi/L	
Th-230			12.6 pCi/L		7.6E-07	1000 pCi/L	
U (KPA)			<0.2 pCi/L		7.2E-09	3000 pCi/L	
Ra-226			<2 pCi/L		5.7E-08	600 pCi/L	
Ra-228 ^b			0.6 pCi/L		3.7E-08	600 pCi/L	
Barium			0.08 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.18 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			42 pCi/L				
TSS			13 mg/L				
Gross Alpha (raw water)			SLAPS-183		03/29/10 (VP-02L Latty VP)	12 pCi/L	
Gross Beta	16 pCi/L	1.1E-06		NA pCi/L			
Th-228	0.2 pCi/L	1.7E-08		2000 pCi/L			
Th-230	3 pCi/L	2.0E-07		1000 pCi/L			
U (KPA)	0.9 pCi/L	6.1E-08		3000 pCi/L			
Ra-226	<2 pCi/L	7.8E-08		600 pCi/L			
Ra-228 ^b	0.2 pCi/L	1.7E-08		600 pCi/L			
Barium	0.082 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	<0.010 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	21 pCi/L						
TSS	13 mg/L						
Gross Alpha (raw water)	SLAPS-186	03/30/10 - 03/31/10 (IA13 SLAPS VP)		<9 pCi/L		137,529	2.4E-06
Gross Beta			<11 pCi/L	3.0E-06	NA pCi/L		
Th-228			<0.5 pCi/L	1.2E-07	2000 pCi/L		
Th-230			2 pCi/L	7.8E-07	1000 pCi/L		
U (KPA)			3 pCi/L	1.8E-06	3000 pCi/L		
Ra-226			<0.5 pCi/L	1.2E-07	600 pCi/L		
Ra-228 ^b			<0.5 pCi/L	1.2E-07	600 pCi/L		
Barium			0.049 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<9 pCi/L				
TSS			20 mg/L				

Total Activity Discharged in 1st Quarter of CY10 (Ci)

Th-228	3.3E-07
Th-230	2.9E-06
U (KPA)	1.7E-05
Ra-226	5.3E-07
Ra-228 ^b	3.3E-07

Total Activity Discharged through 03/31/10 (Ci)

Th-228	3.3E-07
Th-230	2.9E-06
U (KPA)	1.7E-05
Ra-226	5.3E-07
Ra-228 ^b	3.3E-07

Total Volume for 1st Quarter of CY10 (gallons)

Gallons	279,331
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Volume Discharged through 03/31/10 (gallons)

Gallons	279,331
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^a Non detect sample results are converted to half the detection limit for total activity.

^b Ra-228 assumed to be in equilibrium with Th-228.

^c The limit for selenium can be a daily total mass of 76 grams, or a concentration of 0.20 mg/L.

^d MSD surcharges apply for BOD concentration > 300 mg/L and COD concentration > 600 mg/L.

NA - Not applicable

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-184	04/01/10 (VP-02L Latty VP)	<8 pCi/L	16,497	2.6E-07	3000 pCi/L	0.00
Gross Beta			<11 pCi/L		3.5E-07	NA pCi/L	
Th-228			0.4 pCi/L		2.4E-08	2000 pCi/L	
Th-230			0.9 pCi/L		5.9E-08	1000 pCi/L	
Uranium (KPA)			2 pCi/L		1.0E-07	3000 pCi/L	
Ra-226			0.2 pCi/L		1.4E-08	600 pCi/L	
Ra-228 ^b			0.4 pCi/L		2.4E-08	600 pCi/L	
Barium			0.07 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<8 pCi/L				
TSS			26 mg/L				
Gross Alpha (raw water)	SLAPS-185	04/01/10 (HISS/Futura Latty VP)	13 pCi/L	15,171	7.6E-07	3000 pCi/L	0.01
Gross Beta			<11 pCi/L		3.3E-07	NA pCi/L	
Th-228			0.3 pCi/L		1.6E-08	2000 pCi/L	
Th-230			0.8 pCi/L		4.8E-08	1000 pCi/L	
Uranium (KPA)			15 pCi/L		8.8E-07	3000 pCi/L	
Ra-226			<0.4 pCi/L		1.2E-08	600 pCi/L	
Ra-228 ^b			0.3 pCi/L		1.6E-08	600 pCi/L	
Barium			0.067 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.17 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			13 pCi/L				
TSS			3 mg/L				
Gross Alpha (raw water)	SLAPS-187	04/05/10 (VP-02L Latty VP)	<8 pCi/L	18,158	2.8E-07	3000 pCi/L	0.00
Gross Beta			<11 pCi/L		3.7E-07	NA pCi/L	
Th-228			0.3 pCi/L		2.3E-08	2000 pCi/L	
Th-230			0.8 pCi/L		5.2E-08	1000 pCi/L	
Uranium (KPA)			<1 pCi/L		4.1E-08	3000 pCi/L	
Ra-226			<0.2 pCi/L		5.5E-09	600 pCi/L	
Ra-228 ^b			0.3 pCi/L		2.3E-08	600 pCi/L	
Barium			0.065 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.012 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<8 pCi/L				
TSS			22 mg/L				
Gross Alpha (raw water)	SLAPS-188	04/07/10 (HISS/Futura Latty VP)	25 pCi/L	19,421	1.8E-06	3000 pCi/L	0.02
Gross Beta			<11 pCi/L		3.9E-07	NA pCi/L	
Th-228			0.4 pCi/L		3.0E-08	2000 pCi/L	
Th-230			2 pCi/L		1.1E-07	1000 pCi/L	
Uranium (KPA)			42 pCi/L		3.1E-06	3000 pCi/L	
Ra-226			0.2 pCi/L		1.2E-08	600 pCi/L	
Ra-228 ^b			0.4 pCi/L		3.0E-08	600 pCi/L	
Barium			0.069 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.17 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			31 pCi/L				
TSS			6 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-189	04/12/10 (VP-02L Latty VP)	<9 pCi/L	16,014	2.7E-07	3000 pCi/L	0.00
Gross Beta			<11 pCi/L		3.2E-07	NA pCi/L	
Th-228			<0.4 pCi/L		1.2E-08	2000 pCi/L	
Th-230			0.5 pCi/L		2.8E-08	1000 pCi/L	
Uranium (KPA)			2 pCi/L		1.0E-07	3000 pCi/L	
Ra-226			<0.2 pCi/L		5.2E-09	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.2E-08	600 pCi/L	
Barium			0.081 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.05 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<9 pCi/L				
TSS			33 mg/L				
Gross Alpha (raw water)	SLAPS-190	04/26/10 (HISS/Futura Latty VP)	31 pCi/L	14,076	1.6E-06	3000 pCi/L	0.01
Gross Beta			<12 pCi/L		3.3E-07	NA pCi/L	
Th-228			0.4 pCi/L		2.1E-08	2000 pCi/L	
Th-230			<0.4 pCi/L		1.1E-08	1000 pCi/L	
Uranium (KPA)			31 pCi/L		1.7E-06	3000 pCi/L	
Ra-226			<1 pCi/L		3.9E-08	600 pCi/L	
Ra-228 ^b			0.4 pCi/L		2.1E-08	600 pCi/L	
Barium			0.07 mg/L				
Lead			<0.005 mg/L				
Selenium ^c			0.20 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			27 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)	SLAPS-191	05/03/10 (HISS/Futura Latty VP)	19 pCi/L	18,060	1.3E-06	3000 pCi/L	0.01
Gross Beta			<12 pCi/L		4.2E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.7E-08	2000 pCi/L	
Th-230			<0.4 pCi/L		1.4E-08	1000 pCi/L	
Uranium (KPA)			27 pCi/L		1.9E-06	3000 pCi/L	
Ra-226			<3 pCi/L		8.5E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.7E-08	600 pCi/L	
Barium			0.084 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.20 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			19 pCi/L				
TSS			10 pCi/L				
Gross Alpha (raw water)	SLAPS-192	05/03/10 - 05/04/10 (VP-02L Latty VP)	<9 pCi/L	19,459	3.3E-07	3000 pCi/L	0.00
Gross Beta			<12 pCi/L		4.6E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.8E-08	2000 pCi/L	
Th-230			0.6 pCi/L		4.3E-08	1000 pCi/L	
Uranium (KPA)			5 pCi/L		3.5E-07	3000 pCi/L	
Ra-226			<2 pCi/L		6.8E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.8E-08	600 pCi/L	
Barium			0.077 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.09 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<9 pCi/L				
TSS			14 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-193	05/05/10 (HISS/Futura Latty VP)	41 pCi/L	14,740	2.3E-06	3000 pCi/L	0.02
Gross Beta			22 pCi/L		1.2E-06	NA pCi/L	
Th-228			<0.4 pCi/L		1.2E-08	2000 pCi/L	
Th-230			0.8 pCi/L		4.7E-08	1000 pCi/L	
Uranium (KPA)			56 pCi/L		3.1E-06	3000 pCi/L	
Ra-226			<2 pCi/L		4.8E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.2E-08	600 pCi/L	
Barium			0.08 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.11 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			27 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)	SLAPS-194	05/11/10 - 05/13/10 (IA13 SLAPS VP)	<17 pCi/L	147,335	4.6E-06	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		6.1E-06	NA pCi/L	
Th-228			<0.4 pCi/L		1.2E-07	2000 pCi/L	
Th-230			1 pCi/L		6.8E-07	1000 pCi/L	
Uranium (KPA)			5 pCi/L		2.8E-06	3000 pCi/L	
Ra-226			<2 pCi/L		5.3E-07	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.2E-07	600 pCi/L	
Barium			0.058 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			21 mg/L				
Gross Alpha (raw water)	SLAPS-195	05/13/10 (VP- 02L Latty VP)	<17 pCi/L	16,526	5.2E-07	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		6.7E-07	NA pCi/L	
Th-228			0.4 pCi/L		2.5E-08	2000 pCi/L	
Th-230			<0.8 pCi/L		2.3E-08	1000 pCi/L	
Uranium (KPA)			1 pCi/L		8.1E-08	3000 pCi/L	
Ra-226			<0.4 pCi/L		1.3E-08	600 pCi/L	
Ra-228 ^b			0.4 pCi/L		2.5E-08	600 pCi/L	
Barium			0.064 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.18 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)	SLAPS-196	05/17/10 (VP- 02L Latty VP)	<17 pCi/L	20,574	6.5E-07	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		8.4E-07	NA pCi/L	
Th-228			<0.8 pCi/L		3.2E-08	2000 pCi/L	
Th-230			0.6 pCi/L		4.3E-08	1000 pCi/L	
Uranium (KPA)			2 pCi/L		1.7E-07	3000 pCi/L	
Ra-226			0.6 pCi/L		4.5E-08	600 pCi/L	
Ra-228 ^b			<0.8 pCi/L		3.2E-08	600 pCi/L	
Barium			0.071 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.19 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			6 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-197	05/17/10 - 05/18/10 (HISS/Futura Latty VP)	<17 pCi/L	18,678	5.9E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		7.6E-07	NA pCi/L	
Th-228			<0.2 pCi/L		6.7E-09	2000 pCi/L	
Th-230			0.5 pCi/L		3.5E-08	1000 pCi/L	
Uranium (KPA)			15 pCi/L		1.1E-06	3000 pCi/L	
Ra-226			0.4 pCi/L		2.8E-08	600 pCi/L	
Ra-228 ^b			<0.2 pCi/L		6.7E-09	600 pCi/L	
Barium			0.091 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.014 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			20 pCi/L				
TSS			9 mg/L				
Gross Alpha (raw water)	SLAPS-198	05/19/10 (IA13 SLAPS VP)	<16 pCi/L	59,344	1.8E-06	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		2.6E-06	NA pCi/L	
Th-228			<1 pCi/L		1.1E-07	2000 pCi/L	
Th-230			<0.7 pCi/L		7.4E-08	1000 pCi/L	
Uranium (KPA)			3 pCi/L		6.7E-07	3000 pCi/L	
Ra-226			<0.5 pCi/L		5.6E-08	600 pCi/L	
Ra-228 ^b			<1 pCi/L		1.1E-07	600 pCi/L	
Barium			0.059 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<16 pCi/L				
TSS			11 mg/L				
Gross Alpha (raw water)	SLAPS-199	05/20/10 (VP- 02L Latty VP)	<16 pCi/L	17,917	5.6E-07	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		7.9E-07	NA pCi/L	
Th-228			<0.4 pCi/L		1.4E-08	2000 pCi/L	
Th-230			0.5 pCi/L		3.3E-08	1000 pCi/L	
Uranium (KPA)			5 pCi/L		3.4E-07	3000 pCi/L	
Ra-226			<0.4 pCi/L		1.3E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.4E-08	600 pCi/L	
Barium			0.048 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.068 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<16 pCi/L				
TSS			26 mg/L				
Gross Alpha (raw water)	SLAPS-200	05/21/10 (HISS/Futura Latty VP)	<16 pCi/L	14,812	4.6E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		6.6E-07	NA pCi/L	
Th-228			<0.4 pCi/L		1.2E-08	2000 pCi/L	
Th-230			2 pCi/L		9.5E-08	1000 pCi/L	
Uranium (KPA)			8 pCi/L		4.3E-07	3000 pCi/L	
Ra-226			<0.6 pCi/L		1.7E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.2E-08	600 pCi/L	
Barium			0.13 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.092 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<16 pCi/L				
TSS			69 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-201	05/21/10 (VP-02L Latty VP)	<16 pCi/L	15,477	4.8E-07	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		6.9E-07	NA pCi/L	
Th-228			<1 pCi/L		3.2E-08	2000 pCi/L	
Th-230			0.8 pCi/L		4.5E-08	1000 pCi/L	
Uranium (KPA)			4 pCi/L		2.3E-07	3000 pCi/L	
Ra-226			<0.4 pCi/L		1.1E-08	600 pCi/L	
Ra-228 ^b			<1 pCi/L		3.2E-08	600 pCi/L	
Barium			0.054 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.048 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<16 pCi/L				
TSS			24 mg/L				
Gross Alpha (raw water)	SLAPS-202	05/24/10 (VP-02L Latty VP)	<15 pCi/L	17,079	4.9E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		7.5E-07	NA pCi/L	
Th-228			<0.6 pCi/L		1.8E-08	2000 pCi/L	
Th-230			0.6 pCi/L		3.6E-08	1000 pCi/L	
Uranium (KPA)			8 pCi/L		4.9E-07	3000 pCi/L	
Ra-226			2 pCi/L		1.2E-07	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		1.8E-08	600 pCi/L	
Barium			0.11 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.013 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			16 pCi/L				
TSS			63 mg/L				
Gross Alpha (raw water)	SLAPS-203	05/24/10 (IA13 SLAPS VP)	<15 pCi/L	78,174	2.2E-06	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		3.4E-06	NA pCi/L	
Th-228			<0.6 pCi/L		8.1E-08	2000 pCi/L	
Th-230			0.3 pCi/L		9.8E-08	1000 pCi/L	
Uranium (KPA)			6 pCi/L		1.8E-06	3000 pCi/L	
Ra-226			<2 pCi/L		2.4E-07	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		8.1E-08	600 pCi/L	
Barium			0.072 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.011 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			5 mg/L				
Gross Alpha (raw water)	SLAPS-204	05/26/10 (VP-02L Latty VP)	<15 pCi/L	18,919	5.4E-07	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		8.3E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.7E-08	2000 pCi/L	
Th-230			<0.6 pCi/L		2.0E-08	1000 pCi/L	
Uranium (KPA)			3 pCi/L		2.3E-07	3000 pCi/L	
Ra-226			<2 pCi/L		6.3E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.7E-08	600 pCi/L	
Barium			0.09 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			23 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-205	06/01/10 (HISS/Futura Latty VP)	38 pCi/L	20,384	2.9E-06	3000 pCi/L	0.03
Gross Beta			<21 pCi/L		8.1E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.9E-08	2000 pCi/L	
Th-230			18 pCi/L		1.4E-06	1000 pCi/L	
Uranium (KPA)			28 pCi/L		2.2E-06	3000 pCi/L	
Ra-226			<2 pCi/L		7.9E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.9E-08	600 pCi/L	
Barium			0.13 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.051 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			24 pCi/L				
TSS			59 mg/L				
Gross Alpha (raw water)	SLAPS-206	06/03/10 (VP- 02L Latty VP)	<15 pCi/L	18,755	5.5E-07	3000 pCi/L	0.00
Gross Beta			<21 pCi/L		7.5E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.8E-08	2000 pCi/L	
Th-230			0.8 pCi/L		5.4E-08	1000 pCi/L	
Uranium (KPA)			<1 pCi/L		4.3E-08	3000 pCi/L	
Ra-226			<2 pCi/L		8.8E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.8E-08	600 pCi/L	
Barium			0.07 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.02 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			30 mg/L				
Gross Alpha (raw water)	SLAPS-207	06/03/10, 06/07/10 (HISS/Futura Latty VP)	18 pCi/L	18,060	1.2E-06	3000 pCi/L	0.01
Gross Beta			23 pCi/L		1.6E-06	NA pCi/L	
Th-228			0.6 pCi/L		3.8E-08	2000 pCi/L	
Th-230			1 pCi/L		6.8E-08	1000 pCi/L	
Uranium (KPA)			20 pCi/L		1.3E-06	3000 pCi/L	
Ra-226			<2 pCi/L		8.0E-08	600 pCi/L	
Ra-228 ^b			0.6 pCi/L		3.8E-08	600 pCi/L	
Barium			0.11 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.015 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			5 mg/L				
Gross Alpha (raw water)	SLAPS-208	06/09/10 (HISS/Futura Latty VP)	36 pCi/L	14,402	1.9E-06	3000 pCi/L	0.05
Gross Beta			24 pCi/L		1.3E-06	NA pCi/L	
Th-228			0.3 pCi/L		1.5E-08	2000 pCi/L	
Th-230			43 pCi/L		2.3E-06	1000 pCi/L	
Uranium (KPA)			14 pCi/L		7.7E-07	3000 pCi/L	
Ra-226			3 pCi/L		1.4E-07	600 pCi/L	
Ra-228 ^b			0.3 pCi/L		1.5E-08	600 pCi/L	
Barium			0.31 mg/L				
Lead			0.012 mg/L				
Selenium ^c			0.084 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<19 pCi/L				
TSS			331 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-209	06/09/10 (VP-02L Latty VP)	<19 pCi/L	18,715	6.8E-07	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		7.8E-07	NA pCi/L	
Th-228			<0.6 pCi/L		2.1E-08	2000 pCi/L	
Th-230			1 pCi/L		8.9E-08	1000 pCi/L	
Uranium (KPA)			3 pCi/L		2.0E-07	3000 pCi/L	
Ra-226			<1 pCi/L		4.5E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		2.1E-08	600 pCi/L	
Barium			0.083 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<19 pCi/L				
TSS			34 mg/L				
Gross Alpha (raw water)	SLAPS-210	06/14/10 (VP-02L Latty VP)	<19 pCi/L	19,830	7.2E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		8.2E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.9E-08	2000 pCi/L	
Th-230			7 pCi/L		4.9E-07	1000 pCi/L	
Uranium (KPA)			3 pCi/L		2.1E-07	3000 pCi/L	
Ra-226			0.8 pCi/L		6.0E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.9E-08	600 pCi/L	
Barium			0.13 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.013 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<19 pCi/L				
TSS			86 mg/L				
Gross Alpha (raw water)	SLAPS-211	06/14/10 - 06/15/10 (HISS/Futura Latty VP)	<18 pCi/L	18,060	6.1E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		7.5E-07	NA pCi/L	
Th-228			2 pCi/L		1.3E-07	2000 pCi/L	
Th-230			6 pCi/L		3.9E-07	1000 pCi/L	
Uranium (KPA)			<1 pCi/L		4.1E-08	3000 pCi/L	
Ra-226			1 pCi/L		8.2E-08	600 pCi/L	
Ra-228 ^b			2 pCi/L		1.3E-07	600 pCi/L	
Barium			0.16 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			248 mg/L				
Gross Alpha (raw water)	SLAPS-212	06/16/10 (HISS/Futura Latty VP)	<18 pCi/L	14,076	4.7E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		5.9E-07	NA pCi/L	
Th-228			<0.7 pCi/L		1.9E-08	2000 pCi/L	
Th-230			<0.7 pCi/L		1.9E-08	1000 pCi/L	
Uranium (KPA)			15 pCi/L		8.1E-07	3000 pCi/L	
Ra-226			<2 pCi/L		6.1E-08	600 pCi/L	
Ra-228 ^b			<0.7 pCi/L		1.9E-08	600 pCi/L	
Barium			0.083 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.11 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			8 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-213	06/17/10 (VP-02L Latty VP)	<18 pCi/L	18,012	6.0E-07	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		7.5E-07	NA pCi/L	
Th-228			<0.7 pCi/L		2.2E-08	2000 pCi/L	
Th-230			2 pCi/L		1.7E-07	1000 pCi/L	
Uranium (KPA)			2 pCi/L		1.5E-07	3000 pCi/L	
Ra-226			<0.4 pCi/L		1.3E-08	600 pCi/L	
Ra-228 ^b			<0.7 pCi/L		2.2E-08	600 pCi/L	
Barium			0.098 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			129 mg/L				
Gross Alpha (raw water)	SLAPS-214	06/21/10 (VP-02L Latty VP)	<14 pCi/L	15,568	4.2E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		6.4E-07	NA pCi/L	
Th-228			0.6 pCi/L		3.3E-08	2000 pCi/L	
Th-230			2 pCi/L		1.3E-07	1000 pCi/L	
Uranium (KPA)			2 pCi/L		1.2E-07	3000 pCi/L	
Ra-226			2 pCi/L		9.5E-08	600 pCi/L	
Ra-228 ^b			0.6 pCi/L		3.3E-08	600 pCi/L	
Barium			0.065 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.15 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<14 pCi/L				
TSS			277 mg/L				
Gross Alpha (raw water)	SLAPS-215	06/21/10 - 06/22/10 (HISS/Futura Latty VP)	46 pCi/L	18,678	3.2E-06	3000 pCi/L	0.02
Gross Beta			<22 pCi/L		7.7E-07	NA pCi/L	
Th-228			<0.5 pCi/L		1.9E-08	2000 pCi/L	
Th-230			6 pCi/L		4.4E-07	1000 pCi/L	
Uranium (KPA)			20 pCi/L		1.4E-06	3000 pCi/L	
Ra-226			6 pCi/L		4.4E-07	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.9E-08	600 pCi/L	
Barium			0.17 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			51 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)	SLAPS-216	06/23/10 (IA13 SLAPS VP)	<14 pCi/L	54,064	1.5E-06	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		2.2E-06	NA pCi/L	
Th-228			<0.4 pCi/L		3.6E-08	2000 pCi/L	
Th-230			<0.4 pCi/L		3.6E-08	1000 pCi/L	
Uranium (KPA)			3 pCi/L		6.4E-07	3000 pCi/L	
Ra-226			<2 pCi/L		1.7E-07	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		3.6E-08	600 pCi/L	
Barium			0.072 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<14 pCi/L				
TSS			3 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 2nd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-217	06/28/10 (VP-02L Latty VP)	<14 pCi/L	17,798	4.9E-07	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		7.3E-07	NA pCi/L	
Th-228			<0.6 pCi/L		2.1E-08	2000 pCi/L	
Th-230			1 pCi/L		7.1E-08	1000 pCi/L	
Uranium (KPA)			4 pCi/L		3.0E-07	3000 pCi/L	
Ra-226			<2 pCi/L		5.5E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		2.1E-08	600 pCi/L	
Barium			0.08 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<14 pCi/L				
TSS			28 mg/L				
Gross Alpha (raw water)	SLAPS-218	06/29/10 (IA13 SLAPS VP)	<16 pCi/L	58,405	1.7E-06	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		2.5E-06	NA pCi/L	
Th-228			<0.4 pCi/L		4.2E-08	2000 pCi/L	
Th-230			0.9 pCi/L		2.0E-07	1000 pCi/L	
Uranium (KPA)			4 pCi/L		8.0E-07	3000 pCi/L	
Ra-226			<1 pCi/L		1.5E-07	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		4.2E-08	600 pCi/L	
Barium			0.076 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<16 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)	SLAPS-219	06/30/10 - 07/01/10 (HISS/Futura Latty VP)	<19 pCi/L	16,653	5.9E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		7.1E-07	NA pCi/L	
Th-228			<0.4 pCi/L		1.3E-08	2000 pCi/L	
Th-230			0.8 pCi/L		4.8E-08	1000 pCi/L	
Uranium (KPA)			17 pCi/L		1.1E-06	3000 pCi/L	
Ra-226			<2 pCi/L		6.5E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.3E-08	600 pCi/L	
Barium			0.064 mg/L				
Lead			<0.020 mg/L				
Selenium ^c			0.11 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<19 pCi/L				
TSS			3 mg/L				

Total Activity Discharged in 2nd Quarter of CY10 (Ci)

Th-228	1.1E-06
Th-230	7.6E-06
U (KPA)	3.0E-05
Ra-226	3.0E-06
Ra-228 ^b	1.1E-06

Total Activity Discharged through 06/30/10 (Ci)

Th-228	1.4E-06
Th-230	1.0E-05
U (KPA)	4.6E-05
Ra-226	3.6E-06
Ra-228 ^b	1.4E-06

Total Volume for 2nd Quarter of CY10 (gallons)

Gallons	917,891
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Volume Discharged through 06/30/10 (gallons)

Gallons	1,197,222
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^a Non detect sample results are converted to half the detection limit for total activity.

^b Ra-228 assumed to be in equilibrium with Th-228.

^c The limit for selenium can be a daily total mass of 76 grams, or a concentration of 0.20 mg/L.

^d MSD surcharges apply for BOD concentration > 300 mg/L and COD concentration > 600 mg/L.

NA - Not applicable

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-220	07/01/10 (HISS/Futura Latty VP)	<16 pCi/L	10,655	3.2E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		4.6E-07	N/A pCi/L	
Th-228			<0.6 pCi/L		1.2E-08	2000 pCi/L	
Th-230			7 pCi/L		2.6E-07	1000 pCi/L	
U (KPA)			8 pCi/L		3.2E-07	3000 pCi/L	
Ra-226			<1 pCi/L		2.5E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		1.2E-08	600 pCi/L	
Barium			0.073 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.16 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			16 pCi/L				
TSS			8 mg/L				
Gross Alpha (raw water)	SLAPS-221	07/15/10 (HISS/Futura Latty VP)	23 pCi/L	17,252	1.5E-06	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		7.6E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.5E-08	2000 pCi/L	
Th-230			0.5 pCi/L		3.5E-08	1000 pCi/L	
U (KPA)			15 pCi/L		9.9E-07	3000 pCi/L	
Ra-226			<0.6 pCi/L		2.1E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.5E-08	600 pCi/L	
Barium			0.11 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.23 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			25 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)	SLAPS-222	07/19/10 (HISS/Futura Latty VP)	25 pCi/L	15,742	1.5E-06	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		6.9E-07	N/A pCi/L	
Th-228			<0.6 pCi/L		1.7E-08	2000 pCi/L	
Th-230			2 pCi/L		1.3E-07	1000 pCi/L	
U (KPA)			19 pCi/L		1.1E-06	3000 pCi/L	
Ra-226			<2 pCi/L		4.9E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		1.7E-08	600 pCi/L	
Barium			0.12 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.26 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			24 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)	SLAPS-223	07/26/10 - 07/27/10 (HISS/Futura Latty VP)	<17 pCi/L	20,758	6.6E-07	3000 pCi/L	0.01
Gross Beta			<25 pCi/L		9.8E-07	N/A pCi/L	
Th-228			<0.4 pCi/L		1.5E-08	2000 pCi/L	
Th-230			1 pCi/L		7.9E-08	1000 pCi/L	
U (KPA)			8 pCi/L		6.4E-07	3000 pCi/L	
Ra-226			<2 pCi/L		7.0E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.5E-08	600 pCi/L	
Barium			0.06 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.15 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			6 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-224	07/26/10 (HISS/Futura Latty VP)	<17 pCi/L	20,028	6.4E-07	3000 pCi/L	0.01
Gross Beta			<26 pCi/L		9.8E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.8E-08	2000 pCi/L	
Th-230			0.6 pCi/L		4.2E-08	1000 pCi/L	
U (KPA)			15 pCi/L		1.1E-06	3000 pCi/L	
Ra-226			<2 pCi/L		6.3E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.8E-08	600 pCi/L	
Barium			0.062 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.19 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			19 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)	SLAPS-225 ^{e,f}	07/22/10 (HISS/Futura Latty VP)	40 pCi/L	9,613	1.4E-06	3000 pCi/L	0.02
Gross Beta			<23 pCi/L		4.2E-07	N/A pCi/L	
Th-228			<0.4 pCi/L		7.1E-09	2000 pCi/L	
Th-230			13 pCi/L		4.7E-07	1000 pCi/L	
U (KPA)			12 pCi/L		4.2E-07	3000 pCi/L	
Ra-226			<2 pCi/L		4.2E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		7.1E-09	600 pCi/L	
Barium			0.18 mg/L				
Lead			0.003 mg/L				
Selenium ^c			0.012 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			30 pCi/L				
TSS			28 mg/L				
Gross Alpha (raw water)	SLAPS-226	07/28/10 (IA13 SLAPS VP)	<15 pCi/L	36,859	1.0E-06	3000 pCi/L	0.00
Gross Beta			<21 pCi/L		1.5E-06	N/A pCi/L	
Th-228			<0.2 pCi/L		1.2E-08	2000 pCi/L	
Th-230			0.3 pCi/L		4.3E-08	1000 pCi/L	
U (KPA)			2 pCi/L		3.3E-07	3000 pCi/L	
Ra-226			<1 pCi/L		8.9E-08	600 pCi/L	
Ra-228 ^b			<0.2 pCi/L		1.2E-08	600 pCi/L	
Barium			0.051 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			7 mg/L				
Gross Alpha (raw water)	SLAPS-227 ^f	08/03/10 (HISS/Futura Latty VP)	24 pCi/L	17,553	1.6E-06	3000 pCi/L	0.02
Gross Beta			<24 pCi/L		8.1E-07	N/A pCi/L	
Th-228			0.4 pCi/L		2.7E-08	2000 pCi/L	
Th-230			12 pCi/L		8.1E-07	1000 pCi/L	
U (KPA)			14 pCi/L		9.1E-07	3000 pCi/L	
Ra-226			<2 pCi/L		5.5E-08	600 pCi/L	
Ra-228 ^b			0.4 pCi/L		2.7E-08	600 pCi/L	
Barium			0.071 mg/L				
Lead			0.002 mg/L				
Selenium ^c			0.013 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			26 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-228 ^e	08/02/10 (HISS/Futura Latty VP)	27 pCi/L	18,849	1.9E-06	3000 pCi/L	0.01
Gross Beta			<21 pCi/L		7.6E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.8E-08	2000 pCi/L	
Th-230			2 pCi/L		1.1E-07	1000 pCi/L	
U (KPA)			23 pCi/L		1.7E-06	3000 pCi/L	
Ra-226			<2 pCi/L		5.9E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.8E-08	600 pCi/L	
Barium			0.094 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.12 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			21 pCi/L				
TSS			6 mg/L				
Gross Alpha (raw water)			SLAPS-229		08/09/10 (HISS/Futura Latty VP)	23 pCi/L	
Gross Beta	<23 pCi/L	6.4E-07		N/A pCi/L			
Th-228	<0.6 pCi/L	1.8E-08		2000 pCi/L			
Th-230	0.9 pCi/L	5.0E-08		1000 pCi/L			
U (KPA)	33 pCi/L	1.8E-06		3000 pCi/L			
Ra-226	<2 pCi/L	5.4E-08		600 pCi/L			
Ra-228 ^b	<0.6 pCi/L	1.8E-08		600 pCi/L			
Barium	0.14 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	0.034 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	19 pCi/L						
TSS	7 mg/L						
Gross Alpha (raw water)	SLAPS-230	08/16/10 (HISS/Futura Latty VP)		28 pCi/L		15,943	1.7E-06
Gross Beta			<23 pCi/L	6.9E-07	N/A pCi/L		
Th-228			<0.4 pCi/L	1.3E-08	2000 pCi/L		
Th-230			12 pCi/L	7.5E-07	1000 pCi/L		
U (KPA)			32 pCi/L	1.9E-06	3000 pCi/L		
Ra-226			3 pCi/L	1.6E-07	600 pCi/L		
Ra-228 ^b			<0.4 pCi/L	1.3E-08	600 pCi/L		
Barium			0.11 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.19 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			19 pCi/L				
TSS			31 mg/L				
Gross Alpha (raw water)			SLAPS-231	08/16/10 (IA13 SLAPS VP)	<18 pCi/L		47,064
Gross Beta	<23 pCi/L	2.0E-06			N/A pCi/L		
Th-228	<0.5 pCi/L	4.5E-08			2000 pCi/L		
Th-230	<0.5 pCi/L	4.5E-08			1000 pCi/L		
U (KPA)	3 pCi/L	4.7E-07			3000 pCi/L		
Ra-226	<1.4 pCi/L	1.2E-07			600 pCi/L		
Ra-228 ^b	<0.5 pCi/L	4.5E-08			600 pCi/L		
Barium	0.066 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	<0.010 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	<18 pCi/L						
TSS	10 mg/L						

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-232	08/18/10 (HISS/Futura Latty VP)	<18 pCi/L	16,371	5.7E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		7.1E-07	N/A pCi/L	
Th-228			<0.2 pCi/L		6.8E-09	2000 pCi/L	
Th-230			0.6 pCi/L		3.5E-08	1000 pCi/L	
U (KPA)			21 pCi/L		1.3E-06	3000 pCi/L	
Ra-226			<1.5 pCi/L		4.8E-08	600 pCi/L	
Ra-228 ^b			<0.2 pCi/L		6.8E-09	600 pCi/L	
Barium			0.096 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.13 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			3 mg/L				
Gross Alpha (raw water)	SLAPS-233	08/19/10 (HISS/Futura Latty VP)	<18 pCi/L	13,878	4.8E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		6.0E-07	N/A pCi/L	
Th-228			<0.6 pCi/L		1.6E-08	2000 pCi/L	
Th-230			4 pCi/L		2.3E-07	1000 pCi/L	
U (KPA)			15 pCi/L		7.6E-07	3000 pCi/L	
Ra-226			<2 pCi/L		5.9E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		1.6E-08	600 pCi/L	
Barium			0.095 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.091 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			12 mg/L				
Gross Alpha (raw water)	SLAPS-234	08/23/10 (HISS/Futura Latty VP)	<18 pCi/L	11,949	4.2E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		5.1E-07	N/A pCi/L	
Th-228			<0.6 pCi/L		1.3E-08	2000 pCi/L	
Th-230			0.5 pCi/L		2.2E-08	1000 pCi/L	
U (KPA)			18 pCi/L		8.0E-07	3000 pCi/L	
Ra-226			2 pCi/L		7.3E-08	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		1.3E-08	600 pCi/L	
Barium			0.066 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.058 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			3 mg/L				
Gross Alpha (raw water)	SLAPS-235	08/23/10 (HISS/Futura Latty VP)	27 pCi/L	10,845	1.1E-06	3000 pCi/L	0.03
Gross Beta			<23 pCi/L		4.6E-07	N/A pCi/L	
Th-228			<0.4 pCi/L		8.6E-09	2000 pCi/L	
Th-230			23 pCi/L		9.5E-07	1000 pCi/L	
U (KPA)			18 pCi/L		7.5E-07	3000 pCi/L	
Ra-226			<2 pCi/L		3.2E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		8.6E-09	600 pCi/L	
Barium			0.12 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.025 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			20 pCi/L				
TSS			62 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-236	08/23/10 - 08/25/10 (IA13 SLAPS VP)	<18 pCi/L	179,100	6.2E-06	3000 pCi/L	0.00
Gross Beta			<23 pCi/L		7.6E-06	N/A pCi/L	
Th-228			<0.5 pCi/L		1.7E-07	2000 pCi/L	
Th-230			0.5 pCi/L		3.4E-07	1000 pCi/L	
U (KPA)			4 pCi/L		2.5E-06	3000 pCi/L	
Ra-226			<2 pCi/L		6.3E-07	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.7E-07	600 pCi/L	
Barium			0.057 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			3 mg/L				
Gross Alpha (raw water)	SLAPS-237	08/25/10 (HISS/Futura Latty VP)	<18 pCi/L	17,240	6.0E-07	3000 pCi/L	0.01
Gross Beta			<23 pCi/L		7.4E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.5E-08	2000 pCi/L	
Th-230			0.4 pCi/L		2.9E-08	1000 pCi/L	
U (KPA)			16 pCi/L		1.1E-06	3000 pCi/L	
Ra-226			<1 pCi/L		4.4E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.5E-08	600 pCi/L	
Barium			0.076 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.09 mg/L				
BOD ^d			mg/L				
COD ^d			mg/L				
Gross Alpha (TSS filtrate)			<18 pCi/L				
TSS			1 mg/L				
Gross Alpha (raw water)	SLAPS-238	08/30/10 (HISS/Futura Latty VP)	25 pCi/L	18,913	1.8E-06	3000 pCi/L	0.02
Gross Beta			<22 pCi/L		7.8E-07	N/A pCi/L	
Th-228			<0.4 pCi/L		1.4E-08	2000 pCi/L	
Th-230			5 pCi/L		3.4E-07	1000 pCi/L	
U (KPA)			26 pCi/L		1.9E-06	3000 pCi/L	
Ra-226			<2 pCi/L		6.7E-08	600 pCi/L	
Ra-228 ^b			<0.4 pCi/L		1.4E-08	600 pCi/L	
Barium			0.11 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.15 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			29 pCi/L				
TSS			3 mg/L				
Gross Alpha (raw water)	SLAPS-239	09/08/10 (IA13 SLAPS VP)	<15 pCi/L	58,401	1.7E-06	3000 pCi/L	0.00
Gross Beta			<22 pCi/L		2.4E-06	N/A pCi/L	
Th-228			<0.2 pCi/L		2.3E-08	2000 pCi/L	
Th-230			0.8 pCi/L		1.7E-07	1000 pCi/L	
U (KPA)			3 pCi/L		6.7E-07	3000 pCi/L	
Ra-226			0.6 pCi/L		1.3E-07	600 pCi/L	
Ra-228 ^b			<0.2 pCi/L		2.3E-08	600 pCi/L	
Barium			0.043 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			<0.010 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			1 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-240	09/13/10 (HISS/Futura Latty VP)	37 pCi/L	14,268	2.0E-06	3000 pCi/L	0.02
Gross Beta			<22 pCi/L		5.9E-07	N/A pCi/L	
Th-228			0.3 pCi/L		1.6E-08	2000 pCi/L	
Th-230			3 pCi/L		1.7E-07	1000 pCi/L	
U (KPA)			30 pCi/L		1.6E-06	3000 pCi/L	
Ra-226			<3 pCi/L		7.0E-08	600 pCi/L	
Ra-228 ^b			0.3 pCi/L		1.6E-08	600 pCi/L	
Barium			0.17 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.16 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			26 pCi/L				
TSS			63 mg/L				
Gross Alpha (raw water)	SLAPS-241	09/16/10 (HISS/Futura Latty VP)	20 pCi/L	16,114	1.2E-06	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		6.7E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.4E-08	2000 pCi/L	
Th-230			3 pCi/L		1.7E-07	1000 pCi/L	
U (KPA)			14 pCi/L		8.7E-07	3000 pCi/L	
Ra-226			1 pCi/L		7.3E-08	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.4E-08	600 pCi/L	
Barium			0.086 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.10 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			19 pCi/L				
TSS			14 mg/L				
Gross Alpha (raw water)	SLAPS-242	09/20/10 (HISS/Futura Latty VP)	20 pCi/L	16,508	1.3E-06	3000 pCi/L	0.02
Gross Beta			<22 pCi/L		6.8E-07	N/A pCi/L	
Th-228			<0.5 pCi/L		1.5E-08	2000 pCi/L	
Th-230			6 pCi/L		3.6E-07	1000 pCi/L	
U (KPA)			22 pCi/L		1.4E-06	3000 pCi/L	
Ra-226			2 pCi/L		1.5E-07	600 pCi/L	
Ra-228 ^b			<0.5 pCi/L		1.5E-08	600 pCi/L	
Barium			0.13 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.12 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<15 pCi/L				
TSS			371 mg/L				
Gross Alpha (raw water)	SLAPS-243	09/20/10 - 09/21/10 (HISS/Futura Latty VP)	20 pCi/L	15,930	1.2E-06	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		6.6E-07	N/A pCi/L	
Th-228			0.2 pCi/L		1.4E-08	2000 pCi/L	
Th-230			<0.5 pCi/L		1.5E-08	1000 pCi/L	
U (KPA)			19 pCi/L		1.2E-06	3000 pCi/L	
Ra-226			<2 pCi/L		5.2E-08	600 pCi/L	
Ra-228 ^b			0.2 pCi/L		1.4E-08	600 pCi/L	
Barium			0.18 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.17 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			16 pCi/L				
TSS			6 mg/L				

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter
Requirements During 3rd Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-244	09/23/10 (HISS/Futura Latty VP)	<17 pCi/L	20,307	6.6E-07	3000 pCi/L	0.01
Gross Beta			<22 pCi/L		8.4E-07	N/A pCi/L	
Th-228			<0.7 pCi/L		2.7E-08	2000 pCi/L	
Th-230			0.6 pCi/L		4.5E-08	1000 pCi/L	
U (KPA)			14 pCi/L		1.0E-06	3000 pCi/L	
Ra-226			1 pCi/L		1.1E-07	600 pCi/L	
Ra-228 ^b			<0.7 pCi/L		2.7E-08	600 pCi/L	
Barium			0.07 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.12 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<17 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)	SLAPS-245	09/27/10 (HISS/Futura Latty VP)	<17 pCi/L	16,208	5.3E-07	3000 pCi/L	0.02
Gross Beta			<22 pCi/L		6.7E-07	N/A pCi/L	
Th-228			<0.2 pCi/L		7.1E-09	2000 pCi/L	
Th-230			1 pCi/L		8.8E-08	1000 pCi/L	
U (KPA)			34 pCi/L		2.1E-06	3000 pCi/L	
Ra-226			2 pCi/L		1.3E-07	600 pCi/L	
Ra-228 ^b			<0.2 pCi/L		7.1E-09	600 pCi/L	
Barium			0.096 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.15 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			35 pCi/L				
TSS			9 mg/L				
Gross Alpha (raw water)	SLAPS-246	09/27/10 - 09/28/10 (HISS/Futura Latty VP)	36 pCi/L	13,093	1.8E-06	3000 pCi/L	0.02
Gross Beta			28 pCi/L		1.4E-06	N/A pCi/L	
Th-228			0.5 pCi/L		2.6E-08	2000 pCi/L	
Th-230			7 pCi/L		3.3E-07	1000 pCi/L	
U (KPA)			33 pCi/L		1.6E-06	3000 pCi/L	
Ra-226			<2 pCi/L		5.4E-08	600 pCi/L	
Ra-228 ^b			0.5 pCi/L		2.6E-08	600 pCi/L	
Barium			0.18 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.24 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			28 pCi/L				
TSS			55 mg/L				

Total Activity Discharged in 3rd Quarter of CY10 (Ci)

Th-228	6.0E-07
Th-230	6.1E-06
U (KPA)	3.1E-05
Ra-226	2.5E-06
Ra-228 ^b	6.0E-07

Total Activity Discharged through 09/30/10 (Ci)

Th-228	2.0E-06
Th-230	1.7E-05
U (KPA)	7.7E-05
Ra-226	6.1E-06
Ra-228 ^b	2.0E-06

Total Volume for 3rd Quarter of CY10 (gallons)

Gallons	684,181
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Volume Discharged through 09/30/10 (gallons)

Gallons	1,881,403
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^a Non detect sample results are converted to half the detection limit for total activity.

^b Ra-228 assumed to be in equilibrium with Th-228.

^c The limit for selenium can be a daily total mass of 76 grams, or a concentration of 0.20 mg/L.

^d MSD surcharges apply for BOD concentration > 300 mg/L and COD concentration > 600 mg/L.

^e Batch 225 was discharged prior to Batches 223 and 224.

^f Batch 225 and 227 were limited to less than 20,000 gallons due to elevated aluminum and manganese results.

^g Batch 228 was discharged prior to Batch 227.

NA - Not applicable

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 4th Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR				
Gross Alpha (raw water)	SLAPS-247	10/28/10 (HISS/Futura Latty VP)	13 pCi/L	17,437	8.4E-07	3000 pCi/L	0.01				
Gross Beta			<11 pCi/L		3.7E-07	N/A pCi/L					
Th-228			0.6 pCi/L		3.8E-08	2000 pCi/L					
Th-230			0.6 pCi/L		4.0E-08	1000 pCi/L					
U (KPA)			16 pCi/L		1.0E-06	3000 pCi/L					
Ra-226			<3 pCi/L		8.4E-08	600 pCi/L					
Ra-228 ^b			0.6 pCi/L		3.8E-08	600 pCi/L					
Barium			0.10 mg/L								
Lead			<0.010 mg/L								
Selenium ^c			0.13 mg/L								
BOD ^d			NA mg/L								
COD ^d			NA mg/L								
Gross Alpha (TSS filtrate)			20 pCi/L								
TSS			9 mg/L								
Gross Alpha (raw water)			SLAPS-248		11/15/10 (HISS/Futura Latty VP)	10 pCi/L		14,866	5.7E-07	3000 pCi/L	0.01
Gross Beta						<11 pCi/L			3.1E-07	N/A pCi/L	
Th-228	<0.5 pCi/L	1.5E-08		2000 pCi/L							
Th-230	0.7 pCi/L	3.9E-08		1000 pCi/L							
U (KPA)	16 pCi/L	8.8E-07		3000 pCi/L							
Ra-226	<2 pCi/L	4.4E-08		600 pCi/L							
Ra-228 ^b	<0.5 pCi/L	1.5E-08		600 pCi/L							
Barium	0.09 mg/L										
Lead	<0.010 mg/L										
Selenium ^c	0.12 mg/L										
BOD ^d	NA mg/L										
COD ^d	NA mg/L										
Gross Alpha (TSS filtrate)	17 pCi/L										
TSS	3 mg/L										
Gross Alpha (raw water)	SLAPS-249	11/30/10 - 12/01/10 (HISS/Futura Latty VP)		17 pCi/L		19,681	1.2E-06		3000 pCi/L	0.01	
Gross Beta				<11 pCi/L			4.2E-07		N/A pCi/L		
Th-228			<0.6 pCi/L	2.3E-08	2000 pCi/L						
Th-230			1 pCi/L	9.8E-08	1000 pCi/L						
U (KPA)			11 pCi/L	8.4E-07	3000 pCi/L						
Ra-226			<1 pCi/L	5.3E-08	600 pCi/L						
Ra-228 ^b			<0.6 pCi/L	2.3E-08	600 pCi/L						
Barium			0.07 mg/L								
Lead			<0.010 mg/L								
Selenium ^c			0.10 mg/L								
BOD ^d			NA mg/L								
COD ^d			NA mg/L								
Gross Alpha (TSS filtrate)			17 pCi/L								
TSS			5 mg/L								
Gross Alpha (raw water)			SLAPS-250	12/01/10 (HISS/Futura Latty VP)	<9 pCi/L		20,214	3.4E-07	3000 pCi/L		0.01
Gross Beta					<11 pCi/L			4.3E-07	N/A pCi/L		
Th-228	<1 pCi/L	4.0E-08			2000 pCi/L						
Th-230	2 pCi/L	1.5E-07			1000 pCi/L						
U (KPA)	6 pCi/L	4.9E-07			3000 pCi/L						
Ra-226	<1 pCi/L	5.0E-08			600 pCi/L						
Ra-228 ^b	<1 pCi/L	4.0E-08			600 pCi/L						
Barium	0.05 mg/L										
Lead	<0.010 mg/L										
Selenium ^c	0.04 mg/L										
BOD ^d	NA mg/L										
COD ^d	NA mg/L										
Gross Alpha (TSS filtrate)	<9 pCi/L										
TSS	8 mg/L										

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 4th Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-251	12/01/10 (HISS/Futura Latty VP)	12 pCi/L	52,626	2.4E-06	3000 pCi/L	0.00
Gross Beta			<11 pCi/L		1.1E-06	N/A pCi/L	
Th-228			<0.6 pCi/L		6.3E-08	2000 pCi/L	
Th-230			0.8 pCi/L		1.6E-07	1000 pCi/L	
U (KPA)			7 pCi/L		1.3E-06	3000 pCi/L	
Ra-226			<1 pCi/L		1.5E-07	600 pCi/L	
Ra-228 ^b			<0.6 pCi/L		6.3E-08	600 pCi/L	
Barium			0.04 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.06 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			<9 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)			SLAPS-252		12/02/10 (HISS/Futura Latty VP)	<9 pCi/L	
Gross Beta	<11 pCi/L	4.1E-07		N/A pCi/L			
Th-228	<0.9 pCi/L	3.4E-08		2000 pCi/L			
Th-230	1 pCi/L	9.1E-08		1000 pCi/L			
U (KPA)	2 pCi/L	1.7E-07		3000 pCi/L			
Ra-226	<2 pCi/L	7.0E-08		600 pCi/L			
Ra-228 ^b	<0.9 pCi/L	3.4E-08		600 pCi/L			
Barium	0.06 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	0.03 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	<9 pCi/L						
TSS	12 mg/L						
Gross Alpha (raw water)	SLAPS-253	12/02/10, 12/07/10 (HISS/Futura Latty VP)		16 pCi/L		18,931	1.2E-06
Gross Beta			<11 pCi/L	4.0E-07	N/A pCi/L		
Th-228			0.6 pCi/L	4.6E-08	2000 pCi/L		
Th-230			1 pCi/L	6.9E-08	1000 pCi/L		
U (KPA)			11 pCi/L	7.6E-07	3000 pCi/L		
Ra-226			<2 pCi/L	6.2E-08	600 pCi/L		
Ra-228 ^b			0.6 pCi/L	4.6E-08	600 pCi/L		
Barium			0.06 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.07 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			16 pCi/L				
TSS			4 mg/L				
Gross Alpha (raw water)			SLAPS-254	12/07/10 (HISS/Futura Latty VP)	71 pCi/L		4,451
Gross Beta	23 pCi/L	3.8E-07			N/A pCi/L		
Th-228	<0.7 pCi/L	5.9E-09			2000 pCi/L		
Th-230	59 pCi/L	1.0E-06			1000 pCi/L		
U (KPA)	19 pCi/L	3.2E-07			3000 pCi/L		
Ra-226	2 pCi/L	4.0E-08			600 pCi/L		
Ra-228 ^b	<0.7 pCi/L	5.9E-09			600 pCi/L		
Barium	0.15 mg/L						
Lead	<0.010 mg/L						
Selenium ^c	0.07 mg/L						
BOD ^d	NA mg/L						
COD ^d	NA mg/L						
Gross Alpha (TSS filtrate)	29 pCi/L						
TSS	66 mg/L						

**Table C-4. FUSRAP North St. Louis County Sites
Batch Analytical Results from Excavation-Water Discharged Under MSD Authorization Letter Requirements
During 4th Quarter 2010**

Parameter	Batch Number	Date of Discharge	Batch Results ^a	Amount Discharged (Gallons)	Total Activity per Discharge (Ci)	MSD Discharge Limit	SOR
Gross Alpha (raw water)	SLAPS-255 ^e	12/15/10 - 12/16/10 (HISS/Futura Latty VP)	49 pCi/L	16,143	3.0E-06	3000 pCi/L	0.02
Gross Beta			33 pCi/L		2.0E-06	N/A pCi/L	
Th-228			<0.7 pCi/L		2.0E-08	2000 pCi/L	
Th-230			2 pCi/L		1.2E-07	1000 pCi/L	
U (KPA)			37 pCi/L		2.2E-06	3000 pCi/L	
Ra-226			2 pCi/L		1.3E-07	600 pCi/L	
Ra-228 ^b			<0.7 pCi/L		2.0E-08	600 pCi/L	
Barium			0.26 mg/L				
Lead			<0.010 mg/L				
Selenium ^c			0.30 mg/L				
BOD ^d			NA mg/L				
COD ^d			NA mg/L				
Gross Alpha (TSS filtrate)			35 pCi/L				
TSS			14 mg/L				

Total Activity Discharged in 4th Quarter of CY10 (Ci)

Th-228	2.8E-07
Th-230	1.8E-06
U (KPA)	8.1E-06
Ra-226	6.8E-07
Ra-228^b	2.8E-07

Total Activity Discharged through 12/31/10 (Ci)

Th-228	2.3E-06
Th-230	1.8E-05
U (KPA)	8.6E-05
Ra-226	6.8E-06
Ra-228^b	2.3E-06

Total Volume for 4th Quarter of CY10 (gallons)

Gallons	183,343
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Volume Discharged through 12/31/10 (gallons)

Gallons	2,064,746
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^a Non detect sample results are converted to half the detection limit for total activity.

^b Ra-228 assumed to be in equilibrium with Th-228.

^c The limit for selenium can be a daily total mass of 76 grams, or a concentration of 0.20 mg/L.

^d MSD surcharges apply for BOD concentration > 300 mg/L and COD concentration > 600 mg/L.

^e Batch 256 occurred late in the Fourth Quarter and will be included in the First Quarter 2011 Report.

NA - Not applicable

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APPENDIX D

**COLDWATER CREEK SURFACE-WATER AND SEDIMENT DATA
(On CD-ROM at the end of this document)**

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Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
March Sampling Event										
CWC126560	CWC002	03/29/10	ML-006	Radium-226	0.124	0.175	0.168	pCi/L	UJ	T06
CWC126560	CWC002	03/29/10	ML-005	Thorium-228	0.457	0.385	0.422	pCi/L	J	F01, T04
CWC126560	CWC002	03/29/10	ML-005	Thorium-230	0.282	0.285	0.191	pCi/L	J	F01, T02
CWC126560	CWC002	03/29/10	ML-005	Thorium-232	0	0	0.19	pCi/L	U	
CWC126560	CWC002	03/29/10	ML-015	Uranium-234	1.05	0.536	0.167	pCi/L	J	T04
CWC126560	CWC002	03/29/10	ML-015	Uranium-235	0.228	0.266	0.206	pCi/L	J	T02
CWC126560	CWC002	03/29/10	ML-015	Uranium-238	0.337	0.311	0.368	pCi/L	U	T04, T05
CWC126560	CWC002	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126560	CWC002	03/29/10	SW846 6020	Arsenic	3.2		0.95	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Barium	135		0.2	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Cadmium	0.084		0.055	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126560	CWC002	03/29/10	SW846 6020	Molybdenum	18.2		0.22	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Nickel	2.3		0.23	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Selenium	2.4		0.31	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Thallium	1.8		0.55	ug/L	=	
CWC126560	CWC002	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC126562	CWC003	03/29/10	ML-006	Radium-226	-1.54E-05	0.181	0.544	pCi/L	UJ	T06
CWC126562	CWC003	03/29/10	ML-005	Thorium-228	0.258	0.368	0.634	pCi/L	UJ	T06
CWC126562	CWC003	03/29/10	ML-005	Thorium-230	0.604	0.467	0.234	pCi/L	J	F01, T04
CWC126562	CWC003	03/29/10	ML-005	Thorium-232	0	0	0.233	pCi/L	U	
CWC126562	CWC003	03/29/10	ML-015	Uranium-234	1.78	0.737	0.374	pCi/L	=	
CWC126562	CWC003	03/29/10	ML-015	Uranium-235	0.154	0.219	0.209	pCi/L	UJ	T06
CWC126562	CWC003	03/29/10	ML-015	Uranium-238	1.74	0.719	0.168	pCi/L	J	F01
CWC126562	CWC003	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126562	CWC003	03/29/10	SW846 6020	Arsenic	2.4		0.95	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Barium	126		0.2	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Cadmium	0.089		0.055	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126562	CWC003	03/29/10	SW846 6020	Molybdenum	15.8		0.22	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Nickel	2.2		0.23	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Selenium	2.6		0.31	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Thallium	1		0.55	ug/L	=	
CWC126562	CWC003	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC126564	CWC004	03/29/10	ML-006	Radium-226	0.199	0.281	0.487	pCi/L	UJ	T06
CWC126564	CWC004	03/29/10	ML-005	Thorium-228	0.515	0.397	0.199	pCi/L	J	F01, T04

Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126564	CWC004	03/29/10	ML-005	Thorium-230	0.552	0.432	0.442	pCi/L	J	F01, T04
CWC126564	CWC004	03/29/10	ML-005	Thorium-232	0.147	0.209	0.199	pCi/L	UJ	T06
CWC126564	CWC004	03/29/10	ML-015	Uranium-234	2.5	0.876	0.353	pCi/L	=	
CWC126564	CWC004	03/29/10	ML-015	Uranium-235	0	0	0.197	pCi/L	U	
CWC126564	CWC004	03/29/10	ML-015	Uranium-238	1.82	0.717	0.159	pCi/L	J	F01
CWC126564	CWC004	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126564	CWC004	03/29/10	SW846 6020	Arsenic	2.3		0.95	ug/L	=	
CWC126564	CWC004	03/29/10	SW846 6020	Barium	141		0.2	ug/L	=	
CWC126564	CWC004	03/29/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
CWC126564	CWC004	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126564	CWC004	03/29/10	SW846 6020	Molybdenum	16.3		0.22	ug/L	=	
CWC126564	CWC004	03/29/10	SW846 6020	Nickel	2.5		0.23	ug/L	=	
CWC126564	CWC004	03/29/10	SW846 6020	Selenium	2.8		0.31	ug/L	=	
CWC126564	CWC004	03/29/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC126564	CWC004	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC126568	CWC005	03/29/10	ML-006	Radium-226	0.261	0.261	0.177	pCi/L	J	T02
CWC126568	CWC005	03/29/10	ML-005	Thorium-228	0.333	0.302	0.18	pCi/L	J	F01, T04
CWC126568	CWC005	03/29/10	ML-005	Thorium-230	0.267	0.27	0.181	pCi/L	J	F01, T02
CWC126568	CWC005	03/29/10	ML-005	Thorium-232	0.0665	0.133	0.18	pCi/L	UJ	T06
CWC126568	CWC005	03/29/10	ML-015	Uranium-234	0.917	0.579	0.226	pCi/L	J	T04
CWC126568	CWC005	03/29/10	ML-015	Uranium-235	0.103	0.207	0.279	pCi/L	UJ	T06
CWC126568	CWC005	03/29/10	ML-015	Uranium-238	1.08	0.632	0.225	pCi/L	J	F01, T04
CWC126568	CWC005	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126568	CWC005	03/29/10	SW846 6020	Arsenic	2		0.95	ug/L	=	
CWC126568	CWC005	03/29/10	SW846 6020	Barium	125		0.2	ug/L	=	
CWC126568	CWC005	03/29/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
CWC126568	CWC005	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126568	CWC005	03/29/10	SW846 6020	Molybdenum	14.5		0.22	ug/L	=	
CWC126568	CWC005	03/29/10	SW846 6020	Nickel	2.3		0.23	ug/L	=	
CWC126568	CWC005	03/29/10	SW846 6020	Selenium	2.4		0.31	ug/L	=	
CWC126568	CWC005	03/29/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC126568	CWC005	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC126570	CWC006	03/29/10	ML-006	Radium-226	-0.0347	0.0694	0.416	pCi/L	UJ	T06
CWC126570	CWC006	03/29/10	ML-005	Thorium-228	0.244	0.29	0.418	pCi/L	UJ	T06
CWC126570	CWC006	03/29/10	ML-005	Thorium-230	0.349	0.317	0.189	pCi/L	J	F01, T04
CWC126570	CWC006	03/29/10	ML-005	Thorium-232	-0.0348	0.0698	0.418	pCi/L	UJ	T06
CWC126570	CWC006	03/29/10	ML-015	Uranium-234	1.04	0.534	0.166	pCi/L	J	T04

Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126570	CWC006	03/29/10	ML-015	Uranium-235	0.0378	0.169	0.454	pCi/L	UJ	T06
CWC126570	CWC006	03/29/10	ML-015	Uranium-238	0.825	0.481	0.366	pCi/L	J	F01, T04
CWC126570	CWC006	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126570	CWC006	03/29/10	SW846 6020	Arsenic	1.7		0.95	ug/L	=	
CWC126570	CWC006	03/29/10	SW846 6020	Barium	114		0.2	ug/L	=	
CWC126570	CWC006	03/29/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
CWC126570	CWC006	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126570	CWC006	03/29/10	SW846 6020	Molybdenum	12		0.22	ug/L	=	
CWC126570	CWC006	03/29/10	SW846 6020	Nickel	2.3		0.23	ug/L	=	
CWC126570	CWC006	03/29/10	SW846 6020	Selenium	2.3		0.31	ug/L	=	
CWC126570	CWC006	03/29/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC126570	CWC006	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC126572	CWC007	03/29/10	ML-006	Radium-226	0	0	0.191	pCi/L	U	
CWC126572	CWC007	03/29/10	ML-005	Thorium-228	0.116	0.234	0.466	pCi/L	UJ	T06
CWC126572	CWC007	03/29/10	ML-005	Thorium-230	0.505	0.426	0.466	pCi/L	J	F01, T04
CWC126572	CWC007	03/29/10	ML-005	Thorium-232	0.0776	0.156	0.21	pCi/L	UJ	T06
CWC126572	CWC007	03/29/10	ML-015	Uranium-234	0.896	0.485	0.162	pCi/L	J	T04
CWC126572	CWC007	03/29/10	ML-015	Uranium-235	0.147	0.21	0.2	pCi/L	UJ	T06
CWC126572	CWC007	03/29/10	ML-015	Uranium-238	0.654	0.409	0.161	pCi/L	J	F01, T04
CWC126572	CWC007	03/29/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC126572	CWC007	03/29/10	SW846 6020	Arsenic	1.4		0.95	ug/L	=	
CWC126572	CWC007	03/29/10	SW846 6020	Barium	96.4		0.2	ug/L	=	
CWC126572	CWC007	03/29/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
CWC126572	CWC007	03/29/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC126572	CWC007	03/29/10	SW846 6020	Molybdenum	10.4		0.22	ug/L	=	
CWC126572	CWC007	03/29/10	SW846 6020	Nickel	2.1		0.23	ug/L	=	
CWC126572	CWC007	03/29/10	SW846 6020	Selenium	1.9		0.31	ug/L	=	
CWC126572	CWC007	03/29/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC126572	CWC007	03/29/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
October Sampling Event										
CWC131374	CWC002	10/13/10	ML-006	Radium-226	-0.126	0.251	1.51	pCi/L	UJ	T06
CWC131374	CWC002	10/13/10	ML-005	Thorium-228	-0.0461	0.244	0.775	pCi/L	UJ	T06
CWC131374	CWC002	10/13/10	ML-005	Thorium-230	0.185	0.347	0.68	pCi/L	UJ	T06
CWC131374	CWC002	10/13/10	ML-005	Thorium-232	-2.13E-05	0.226	0.678	pCi/L	UJ	T06
CWC131374	CWC002	10/13/10	ML-015	Uranium-234	1.02	0.538	0.173	pCi/L	J	T04
CWC131374	CWC002	10/13/10	ML-015	Uranium-235	0	0	0.213	pCi/L	U	
CWC131374	CWC002	10/13/10	ML-015	Uranium-238	0.507	0.369	0.172	pCi/L	J	T04
CWC131374	CWC002	10/13/10	SW846 6020	Antimony	1.3		1.1	ug/L	J	F01

Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131374	CWC002	10/13/10	SW846 6020	Arsenic	3.6		0.95	ug/L	=	
CWC131374	CWC002	10/13/10	SW846 6020	Barium	142		0.2	ug/L	=	
CWC131374	CWC002	10/13/10	SW846 6020	Cadmium	0.098		0.055	ug/L	=	
CWC131374	CWC002	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131374	CWC002	10/13/10	SW846 6020	Molybdenum	10.1		0.41	ug/L	J	E07
CWC131374	CWC002	10/13/10	SW846 6020	Nickel	3.2		0.4	ug/L	=	
CWC131374	CWC002	10/13/10	SW846 6020	Selenium	1.4		1.3	ug/L	=	
CWC131374	CWC002	10/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC131374	CWC002	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC131372	CWC003	10/13/10	ML-006	Radium-226	-5.62E-05	0.595	1.79	pCi/L	UJ	T06
CWC131372	CWC003	10/13/10	ML-005	Thorium-228	0.164	0.308	0.604	pCi/L	UJ	T06
CWC131372	CWC003	10/13/10	ML-005	Thorium-230	0.493	0.457	0.605	pCi/L	U	T04, T05
CWC131372	CWC003	10/13/10	ML-005	Thorium-232	0	0	0.222	pCi/L	U	
CWC131372	CWC003	10/13/10	ML-015	Uranium-234	0.582	0.424	0.197	pCi/L	J	T04
CWC131372	CWC003	10/13/10	ML-015	Uranium-235	0	0	0.243	pCi/L	U	
CWC131372	CWC003	10/13/10	ML-015	Uranium-238	0.941	0.548	0.196	pCi/L	J	T04
CWC131372	CWC003	10/13/10	SW846 6020	Antimony	2.8		1.1	ug/L	J	F01
CWC131372	CWC003	10/13/10	SW846 6020	Arsenic	3.8		0.95	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Barium	117		0.2	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Cadmium	0.16		0.055	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131372	CWC003	10/13/10	SW846 6020	Molybdenum	9.9		0.41	ug/L	J	E07
CWC131372	CWC003	10/13/10	SW846 6020	Nickel	3		0.4	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Selenium	2		1.3	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Thallium	1		0.55	ug/L	=	
CWC131372	CWC003	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC131376	CWC004	10/13/10	ML-006	Radium-226	-9.50E-06	0.503	1.51	pCi/L	UJ	T06
CWC131376	CWC004	10/13/10	ML-005	Thorium-228	0.0889	0.281	0.654	pCi/L	UJ	T06
CWC131376	CWC004	10/13/10	ML-005	Thorium-230	0.578	0.489	0.534	pCi/L	J	F01, T04
CWC131376	CWC004	10/13/10	ML-005	Thorium-232	0.178	0.253	0.241	pCi/L	UJ	T06
CWC131376	CWC004	10/13/10	ML-015	Uranium-234	0.976	0.575	0.513	pCi/L	J	T04
CWC131376	CWC004	10/13/10	ML-015	Uranium-235	0.086	0.173	0.233	pCi/L	UJ	T06
CWC131376	CWC004	10/13/10	ML-015	Uranium-238	0.972	0.547	0.188	pCi/L	J	T04
CWC131376	CWC004	10/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC131376	CWC004	10/13/10	SW846 6020	Arsenic	2.9		0.95	ug/L	=	
CWC131376	CWC004	10/13/10	SW846 6020	Barium	155		0.2	ug/L	=	
CWC131376	CWC004	10/13/10	SW846 6020	Cadmium	0.11		0.055	ug/L	=	

Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131376	CWC004	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131376	CWC004	10/13/10	SW846 6020	Molybdenum	10.2		0.41	ug/L	J	E07
CWC131376	CWC004	10/13/10	SW846 6020	Nickel	3.8		0.4	ug/L	=	
CWC131376	CWC004	10/13/10	SW846 6020	Selenium	1.3		1.3	ug/L	=	
CWC131376	CWC004	10/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC131376	CWC004	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC131378	CWC005	10/13/10	ML-006	Radium-226	0.476	0.673	0.644	pCi/L	UJ	T06
CWC131378	CWC005	10/13/10	ML-005	Thorium-228	0.139	0.198	0.188	pCi/L	UJ	T06
CWC131378	CWC005	10/13/10	ML-005	Thorium-230	0.418	0.347	0.189	pCi/L	J	F01, T04
CWC131378	CWC005	10/13/10	ML-005	Thorium-232	-0.0695	0.0988	0.511	pCi/L	UJ	T06
CWC131378	CWC005	10/13/10	ML-015	Uranium-234	1.03	0.599	0.214	pCi/L	J	T04
CWC131378	CWC005	10/13/10	ML-015	Uranium-235	0.389	0.396	0.264	pCi/L	J	T02
CWC131378	CWC005	10/13/10	ML-015	Uranium-238	0.589	0.464	0.471	pCi/L	J	T04
CWC131378	CWC005	10/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC131378	CWC005	10/13/10	SW846 6020	Arsenic	2.9		0.95	ug/L	=	
CWC131378	CWC005	10/13/10	SW846 6020	Barium	149		0.2	ug/L	=	
CWC131378	CWC005	10/13/10	SW846 6020	Cadmium	0.066		0.055	ug/L	=	
CWC131378	CWC005	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131378	CWC005	10/13/10	SW846 6020	Molybdenum	11.3		0.41	ug/L	J	E07
CWC131378	CWC005	10/13/10	SW846 6020	Nickel	3.9		0.4	ug/L	=	
CWC131378	CWC005	10/13/10	SW846 6020	Selenium	1.3		1.3	ug/L	=	
CWC131378	CWC005	10/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC131378	CWC005	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC131380	CWC006	10/13/10	ML-006	Radium-226	-0.329	0.658	2.21	pCi/L	UJ	T06
CWC131380	CWC006	10/13/10	ML-005	Thorium-228	0.215	0.306	0.528	pCi/L	UJ	T06
CWC131380	CWC006	10/13/10	ML-005	Thorium-230	0.611	0.481	0.604	pCi/L	J	F01, T04
CWC131380	CWC006	10/13/10	ML-005	Thorium-232	0.0717	0.144	0.194	pCi/L	UJ	T06
CWC131380	CWC006	10/13/10	ML-015	Uranium-234	0.71	0.473	0.519	pCi/L	J	T04
CWC131380	CWC006	10/13/10	ML-015	Uranium-235	-0.0381	0.0765	0.457	pCi/L	UJ	T06
CWC131380	CWC006	10/13/10	ML-015	Uranium-238	1.02	0.538	0.369	pCi/L	J	T04
CWC131380	CWC006	10/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC131380	CWC006	10/13/10	SW846 6020	Arsenic	2.4		0.95	ug/L	=	
CWC131380	CWC006	10/13/10	SW846 6020	Barium	150		0.2	ug/L	=	
CWC131380	CWC006	10/13/10	SW846 6020	Cadmium	0.075		0.055	ug/L	=	
CWC131380	CWC006	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131380	CWC006	10/13/10	SW846 6020	Molybdenum	7.8		0.41	ug/L	J	E07
CWC131380	CWC006	10/13/10	SW846 6020	Nickel	4		0.4	ug/L	=	

Table D-1. Coldwater Creek Surface Water Data

Sample Name	Station Name	Sample Collect Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131380	CWC006	10/13/10	SW846 6020	Selenium	1.3		1.3	ug/L	U	
CWC131380	CWC006	10/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC131380	CWC006	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
CWC131382	CWC007	10/13/10	ML-006	Radium-226	0.4	1.03	2.24	pCi/L	UJ	T06
CWC131382	CWC007	10/13/10	ML-005	Thorium-228	0.532	0.385	0.18	pCi/L	J	T04
CWC131382	CWC007	10/13/10	ML-005	Thorium-230	0.2	0.284	0.49	pCi/L	UJ	T06
CWC131382	CWC007	10/13/10	ML-005	Thorium-232	0.0332	0.149	0.399	pCi/L	UJ	T06
CWC131382	CWC007	10/13/10	ML-015	Uranium-234	0.904	0.531	0.475	pCi/L	J	T04
CWC131382	CWC007	10/13/10	ML-015	Uranium-235	0.0797	0.16	0.216	pCi/L	UJ	T06
CWC131382	CWC007	10/13/10	ML-015	Uranium-238	0.9	0.505	0.174	pCi/L	J	T04
CWC131382	CWC007	10/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
CWC131382	CWC007	10/13/10	SW846 6020	Arsenic	2.7		0.95	ug/L	=	
CWC131382	CWC007	10/13/10	SW846 6020	Barium	151		0.2	ug/L	=	
CWC131382	CWC007	10/13/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
CWC131382	CWC007	10/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
CWC131382	CWC007	10/13/10	SW846 6020	Molybdenum	8.7		0.41	ug/L	J	E07
CWC131382	CWC007	10/13/10	SW846 6020	Nickel	3.6		0.4	ug/L	=	
CWC131382	CWC007	10/13/10	SW846 6020	Selenium	1.3		1.3	ug/L	U	
CWC131382	CWC007	10/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
CWC131382	CWC007	10/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
March Sampling Event										
CWC126561	CWC002	03/29/10	ML-003	Actinium-227	-0.0264	0.0769	0.118	pCi/g	UJ	T04, T06
CWC126561	CWC002	03/29/10	ML-003	Protactinium-231	0.0416	0.217	0.34	pCi/g	UJ	T04, T06
CWC126561	CWC002	03/29/10	ML-003	Radium-226	0.706	0.185	0.0326	pCi/g	=	
CWC126561	CWC002	03/29/10	ML-003	Radium-228	0.304	0.0368	0.0469	pCi/g	=	
CWC126561	CWC002	03/29/10	ML-003	Americium-241	-0.01	0.0156	0.0248	pCi/g	UJ	T04, T06
CWC126561	CWC002	03/29/10	ML-003	Cesium-137	0.0177	0.0128	0.0108	pCi/g	J	T04
CWC126561	CWC002	03/29/10	ML-003	Potassium-40	9.39	0.624	0.111	pCi/g	=	
CWC126561	CWC002	03/29/10	ML-005	Thorium-228	0.455	0.317	0.287	pCi/g	J	F01, T04
CWC126561	CWC002	03/29/10	ML-003	Thorium-228	0.304	0.0368	0.0469	pCi/g	=	
CWC126561	CWC002	03/29/10	ML-005	Thorium-230	0.671	0.381	0.13	pCi/g	J	T04
CWC126561	CWC002	03/29/10	ML-003	Thorium-230	-0.187	1.38	2.38	pCi/g	UJ	T04, T06
CWC126561	CWC002	03/29/10	ML-005	Thorium-232	0.526	0.333	0.13	pCi/g	J	T04
CWC126561	CWC002	03/29/10	ML-003	Thorium-232	0.304	0.0368	0.0469	pCi/g	=	
CWC126561	CWC002	03/29/10	ML-003	Uranium-235	0.0119	0.0962	0.158	pCi/g	UJ	T04, T06
CWC126561	CWC002	03/29/10	ML-003	Uranium-238	0.664	0.265	0.236	pCi/g	J	F01
CWC126561	CWC002	03/29/10	SW846 6010B	Antimony	1.1		1.1	mg/Kg	U	
CWC126561	CWC002	03/29/10	SW846 6010B	Arsenic	3.5		0.53	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Barium	46.2		0.42	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Cadmium	3.3		0.083	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Chromium	20.8		0.51	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Molybdenum	5.8		0.53	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Nickel	14.9		0.38	mg/Kg	=	
CWC126561	CWC002	03/29/10	SW846 6010B	Selenium	0.48		0.48	mg/Kg	U	
CWC126561	CWC002	03/29/10	SW846 6010B	Thallium	2.5		2.5	mg/Kg	U	
CWC126561	CWC002	03/29/10	SW846 6010B	Vanadium	14		2.1	mg/Kg	=	
CWC126563	CWC003	03/29/10	ML-003	Actinium-227	0.0188	0.0777	0.124	pCi/g	UJ	T04, T06
CWC126563	CWC003	03/29/10	ML-003	Protactinium-231	0.0689	0.211	0.332	pCi/g	UJ	T04, T06
CWC126563	CWC003	03/29/10	ML-003	Radium-226	0.976	0.246	0.0326	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-003	Radium-228	0.436	0.0368	0.0369	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-003	Americium-241	0.000696	0.0143	0.0252	pCi/g	UJ	T04, T06
CWC126563	CWC003	03/29/10	ML-003	Cesium-137	0.0115	0.00775	0.0136	pCi/g	UJ	T04, T05
CWC126563	CWC003	03/29/10	ML-003	Potassium-40	9.7	0.605	0.116	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-005	Thorium-228	0.845	0.418	0.121	pCi/g	J	F01
CWC126563	CWC003	03/29/10	ML-003	Thorium-228	0.436	0.0368	0.0369	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-005	Thorium-230	1.03	0.467	0.121	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-003	Thorium-230	0.0623	1.38	2.4	pCi/g	UJ	T04, T06

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126563	CWC003	03/29/10	ML-005	Thorium-232	0.434	0.293	0.224	pCi/g	J	T04
CWC126563	CWC003	03/29/10	ML-003	Thorium-232	0.436	0.0368	0.0369	pCi/g	=	
CWC126563	CWC003	03/29/10	ML-003	Uranium-235	-0.0214	0.0948	0.153	pCi/g	UJ	T04, T06
CWC126563	CWC003	03/29/10	ML-003	Uranium-238	0.36	0.262	0.242	pCi/g	J	F01, T04
CWC126563	CWC003	03/29/10	SW846 6010B	Antimony	0.96		0.96	mg/Kg	U	
CWC126563	CWC003	03/29/10	SW846 6010B	Arsenic	6.7		0.47	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Barium	195		0.37	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Cadmium	1.6		0.75	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Chromium	29.8		0.46	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Molybdenum	0.83		0.47	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Nickel	17.1		0.34	mg/Kg	=	
CWC126563	CWC003	03/29/10	SW846 6010B	Selenium	0.43		0.43	mg/Kg	U	
CWC126563	CWC003	03/29/10	SW846 6010B	Thallium	2.3		2.3	mg/Kg	U	
CWC126563	CWC003	03/29/10	SW846 6010B	Vanadium	25.1		1.9	mg/Kg	=	
CWC126565	CWC004	03/29/10	ML-003	Actinium-227	0.033	0.0925	0.148	pCi/g	UJ	T04, T06
CWC126565	CWC004	03/29/10	ML-003	Protactinium-231	0.000195	0.254	0.392	pCi/g	UJ	T04, T06
CWC126565	CWC004	03/29/10	ML-003	Radium-226	1.26	0.315	0.0376	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-003	Radium-228	0.615	0.0423	0.0527	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-003	Americium-241	-0.0209	0.0185	0.0291	pCi/g	UJ	T04, T06
CWC126565	CWC004	03/29/10	ML-003	Cesium-137	0.0188	0.0133	0.0131	pCi/g	J	T04
CWC126565	CWC004	03/29/10	ML-003	Potassium-40	11.1	0.686	0.126	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-005	Thorium-228	0.899	0.451	0.242	pCi/g	J	F01, T04
CWC126565	CWC004	03/29/10	ML-003	Thorium-228	0.615	0.0423	0.0527	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-005	Thorium-230	2.21	0.772	0.13	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-003	Thorium-230	2.55	1.84	3.12	pCi/g	UJ	T04, T05
CWC126565	CWC004	03/29/10	ML-005	Thorium-232	0.767	0.41	0.13	pCi/g	J	T04
CWC126565	CWC004	03/29/10	ML-003	Thorium-232	0.615	0.0423	0.0527	pCi/g	=	
CWC126565	CWC004	03/29/10	ML-003	Uranium-235	-0.01	0.113	0.183	pCi/g	UJ	T04, T06
CWC126565	CWC004	03/29/10	ML-003	Uranium-238	0.904	0.426	0.283	pCi/g	J	F01
CWC126565	CWC004	03/29/10	SW846 6010B	Antimony	1.1		1.1	mg/Kg	U	
CWC126565	CWC004	03/29/10	SW846 6010B	Arsenic	4.3		0.55	mg/Kg	=	
CWC126565	CWC004	03/29/10	SW846 6010B	Barium	149		0.43	mg/Kg	=	
CWC126565	CWC004	03/29/10	SW846 6010B	Cadmium	0.57		0.087	mg/Kg	=	
CWC126565	CWC004	03/29/10	SW846 6010B	Chromium	23.6		0.53	mg/Kg	=	
CWC126565	CWC004	03/29/10	SW846 6010B	Molybdenum	0.55		0.55	mg/Kg	U	
CWC126565	CWC004	03/29/10	SW846 6010B	Nickel	16.2		0.39	mg/Kg	=	
CWC126565	CWC004	03/29/10	SW846 6010B	Selenium	0.5		0.5	mg/Kg	U	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126565	CWC004	03/29/10	SW846 6010B	Thallium	2.6		2.6	mg/Kg	U	
CWC126565	CWC004	03/29/10	SW846 6010B	Vanadium	23.4		2.2	mg/Kg	=	
CWC126569	CWC005	03/29/10	ML-003	Actinium-227	0.0976	0.12	0.182	pCi/g	UJ	T04, T06
CWC126569	CWC005	03/29/10	ML-003	Protactinium-231	-0.0286	0.3	0.46	pCi/g	UJ	T04, T06
CWC126569	CWC005	03/29/10	ML-003	Radium-226	1.52	0.38	0.0423	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-003	Radium-228	0.733	0.0535	0.0606	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-003	Americium-241	-0.00787	0.0201	0.0349	pCi/g	UJ	T04, T06
CWC126569	CWC005	03/29/10	ML-003	Cesium-137	0.0128	0.0109	0.0188	pCi/g	UJ	T04, T05
CWC126569	CWC005	03/29/10	ML-003	Potassium-40	11.4	0.767	0.153	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-005	Thorium-228	0.921	0.394	0.173	pCi/g	J	F01
CWC126569	CWC005	03/29/10	ML-003	Thorium-228	0.733	0.0535	0.0606	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-005	Thorium-230	2.24	0.684	0.0934	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-003	Thorium-230	4.5	2.68	3.19	pCi/g	J	T04
CWC126569	CWC005	03/29/10	ML-005	Thorium-232	0.654	0.322	0.0933	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-003	Thorium-232	0.733	0.0535	0.0606	pCi/g	=	
CWC126569	CWC005	03/29/10	ML-003	Uranium-235	0.138	0.139	0.221	pCi/g	UJ	T04, T06
CWC126569	CWC005	03/29/10	ML-003	Uranium-238	0.727	0.326	0.328	pCi/g	J	F01
CWC126569	CWC005	03/29/10	SW846 6010B	Antimony	1.1		1.1	mg/Kg	U	
CWC126569	CWC005	03/29/10	SW846 6010B	Arsenic	10.5		0.56	mg/Kg	=	
CWC126569	CWC005	03/29/10	SW846 6010B	Barium	281		0.44	mg/Kg	=	
CWC126569	CWC005	03/29/10	SW846 6010B	Cadmium	0.88		0.88	mg/Kg	U	
CWC126569	CWC005	03/29/10	SW846 6010B	Chromium	20.5		0.54	mg/Kg	=	
CWC126569	CWC005	03/29/10	SW846 6010B	Molybdenum	0.55		0.55	mg/Kg	U	
CWC126569	CWC005	03/29/10	SW846 6010B	Nickel	22		0.39	mg/Kg	=	
CWC126569	CWC005	03/29/10	SW846 6010B	Selenium	0.51		0.51	mg/Kg	U	
CWC126569	CWC005	03/29/10	SW846 6010B	Thallium	2.6		2.6	mg/Kg	U	
CWC126569	CWC005	03/29/10	SW846 6010B	Vanadium	31.1		2.2	mg/Kg	=	
CWC126571	CWC006	03/29/10	ML-003	Actinium-227	0.0283	0.114	0.182	pCi/g	UJ	T04, T06
CWC126571	CWC006	03/29/10	ML-003	Protactinium-231	-0.0374	0.304	0.466	pCi/g	UJ	T04, T06
CWC126571	CWC006	03/29/10	ML-003	Radium-226	1.69	0.416	0.049	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-003	Radium-228	0.88	0.0621	0.0649	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-003	Americium-241	-0.0155	0.0227	0.0362	pCi/g	UJ	T04, T06
CWC126571	CWC006	03/29/10	ML-003	Cesium-137	-0.0046	0.0114	0.0176	pCi/g	UJ	T04, T06
CWC126571	CWC006	03/29/10	ML-003	Potassium-40	14.4	0.897	0.182	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-005	Thorium-228	1.01	0.39	0.0808	pCi/g	J	F01
CWC126571	CWC006	03/29/10	ML-003	Thorium-228	0.88	0.0621	0.0649	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-005	Thorium-230	1.91	0.581	0.0809	pCi/g	=	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126571	CWC006	03/29/10	ML-003	Thorium-230	3.76	3.87	3.59	pCi/g	J	T02
CWC126571	CWC006	03/29/10	ML-005	Thorium-232	0.804	0.34	0.0807	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-003	Thorium-232	0.88	0.0621	0.0649	pCi/g	=	
CWC126571	CWC006	03/29/10	ML-003	Uranium-235	0.139	0.144	0.243	pCi/g	UJ	T04, T06
CWC126571	CWC006	03/29/10	ML-003	Uranium-238	0.853	0.484	0.352	pCi/g	J	F01, T04
CWC126571	CWC006	03/29/10	SW846 6010B	Antimony	0.96		0.96	mg/Kg	U	
CWC126571	CWC006	03/29/10	SW846 6010B	Arsenic	1.5		0.47	mg/Kg	=	
CWC126571	CWC006	03/29/10	SW846 6010B	Barium	114		0.37	mg/Kg	=	
CWC126571	CWC006	03/29/10	SW846 6010B	Cadmium	0.19		0.075	mg/Kg	=	
CWC126571	CWC006	03/29/10	SW846 6010B	Chromium	15		0.46	mg/Kg	=	
CWC126571	CWC006	03/29/10	SW846 6010B	Molybdenum	0.47		0.47	mg/Kg	U	
CWC126571	CWC006	03/29/10	SW846 6010B	Nickel	13.2		0.34	mg/Kg	=	
CWC126571	CWC006	03/29/10	SW846 6010B	Selenium	0.43		0.43	mg/Kg	U	
CWC126571	CWC006	03/29/10	SW846 6010B	Thallium	2.3		2.3	mg/Kg	U	
CWC126571	CWC006	03/29/10	SW846 6010B	Vanadium	17.5		1.9	mg/Kg	=	
CWC126573	CWC007	03/29/10	ML-003	Actinium-227	0.00806	0.121	0.19	pCi/g	UJ	T04, T06
CWC126573	CWC007	03/29/10	ML-003	Protactinium-231	0.357	0.326	0.537	pCi/g	UJ	T04, T05
CWC126573	CWC007	03/29/10	ML-003	Radium-226	1.4	0.353	0.0459	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-003	Radium-228	0.817	0.0583	0.0642	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-003	Americium-241	-0.00791	0.0213	0.037	pCi/g	UJ	T04, T06
CWC126573	CWC007	03/29/10	ML-003	Cesium-137	0.0184	0.0226	0.0177	pCi/g	J	T02
CWC126573	CWC007	03/29/10	ML-003	Potassium-40	13.7	0.874	0.153	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-005	Thorium-228	0.995	0.463	0.123	pCi/g	J	F01
CWC126573	CWC007	03/29/10	ML-003	Thorium-228	0.817	0.0583	0.0642	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-005	Thorium-230	2.63	0.844	0.123	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-003	Thorium-230	4.52	4.33	3.51	pCi/g	J	T04
CWC126573	CWC007	03/29/10	ML-005	Thorium-232	1.04	0.474	0.123	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-003	Thorium-232	0.817	0.0583	0.0642	pCi/g	=	
CWC126573	CWC007	03/29/10	ML-003	Uranium-235	-0.0859	0.146	0.231	pCi/g	UJ	T04, T06
CWC126573	CWC007	03/29/10	ML-003	Uranium-238	1.08	0.404	0.347	pCi/g	J	F01
CWC126573	CWC007	03/29/10	SW846 6010B	Antimony	1.3		1.3	mg/Kg	U	
CWC126573	CWC007	03/29/10	SW846 6010B	Arsenic	3.6		0.64	mg/Kg	=	
CWC126573	CWC007	03/29/10	SW846 6010B	Barium	137		0.5	mg/Kg	=	
CWC126573	CWC007	03/29/10	SW846 6010B	Cadmium	0.46		0.1	mg/Kg	=	
CWC126573	CWC007	03/29/10	SW846 6010B	Chromium	16		0.62	mg/Kg	=	
CWC126573	CWC007	03/29/10	SW846 6010B	Molybdenum	0.63		0.63	mg/Kg	U	
CWC126573	CWC007	03/29/10	SW846 6010B	Nickel	14.5		0.45	mg/Kg	=	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC126573	CWC007	03/29/10	SW846 6010B	Selenium	0.58		0.58	mg/Kg	U	
CWC126573	CWC007	03/29/10	SW846 6010B	Thallium	3		3	mg/Kg	U	
CWC126573	CWC007	03/29/10	SW846 6010B	Vanadium	20.4		2.5	mg/Kg	=	
October Sampling Event										
CWC131375	CWC002	10/13/10	ML-003	Actinium-227	0.0545	0.1	0.163	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-003	Protactinium-231	0.038	0.311	0.45	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-003	Radium-226	0.95	0.252	0.0418	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-003	Radium-228	0.328	0.0476	0.0482	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-003	Americium-241	-0.00686	0.0352	0.0553	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-003	Cesium-137	-0.00437	0.0107	0.0167	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-003	Potassium-40	8.41	0.781	0.14	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-005	Thorium-228	0.437	0.288	0.25	pCi/g	J	T04
CWC131375	CWC002	10/13/10	ML-003	Thorium-228	0.328	0.0476	0.0482	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-005	Thorium-230	1.21	0.497	0.113	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-003	Thorium-230	-0.0313	2.64	4.49	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-005	Thorium-232	0.208	0.19	0.113	pCi/g	J	T04
CWC131375	CWC002	10/13/10	ML-003	Thorium-232	0.328	0.0476	0.0482	pCi/g	=	
CWC131375	CWC002	10/13/10	ML-003	Uranium-235	0.121	0.128	0.216	pCi/g	UJ	T04, T06
CWC131375	CWC002	10/13/10	ML-003	Uranium-238	0.81	0.55	0.487	pCi/g	J	F01, T04
CWC131375	CWC002	10/13/10	SW846 6010B	Antimony	1.2		0.78	mg/Kg	=	
CWC131375	CWC002	10/13/10	SW846 6010B	Arsenic	1.9		1.9	mg/Kg	U	
CWC131375	CWC002	10/13/10	SW846 6010B	Barium	146		0.3	mg/Kg	=	
CWC131375	CWC002	10/13/10	SW846 6010B	Cadmium	0.3		0.3	mg/Kg	U	
CWC131375	CWC002	10/13/10	SW846 6010B	Chromium	73.3		0.37	mg/Kg	J	E07, H04
CWC131375	CWC002	10/13/10	SW846 6010B	Molybdenum	2		1.2	mg/Kg	=	
CWC131375	CWC002	10/13/10	SW846 6010B	Nickel	12.6		0.27	mg/Kg	J	E07, H02
CWC131375	CWC002	10/13/10	SW846 6010B	Selenium	0.61		0.61	mg/Kg	U	
CWC131375	CWC002	10/13/10	SW846 6010B	Thallium	9.1		9.1	mg/Kg	U	
CWC131375	CWC002	10/13/10	SW846 6010B	Vanadium	13.4		1.5	mg/Kg	=	
CWC131373	CWC003	10/13/10	ML-003	Actinium-227	-0.000778	0.112	0.176	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-003	Protactinium-231	-0.0938	0.335	0.466	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-003	Radium-226	1.07	0.278	0.043	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-003	Radium-228	0.361	0.0505	0.0541	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-003	Americium-241	0.0106	0.0379	0.0611	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-003	Cesium-137	-0.00511	0.0107	0.0165	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-003	Potassium-40	8.67	0.807	0.142	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-005	Thorium-228	0.422	0.277	0.114	pCi/g	J	T04

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131373	CWC003	10/13/10	ML-003	Thorium-228	0.361	0.0505	0.0541	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-005	Thorium-230	1.09	0.473	0.213	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-003	Thorium-230	0.0498	2.84	4.83	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-005	Thorium-232	0.169	0.171	0.114	pCi/g	J	T02
CWC131373	CWC003	10/13/10	ML-003	Thorium-232	0.361	0.0505	0.0541	pCi/g	=	
CWC131373	CWC003	10/13/10	ML-003	Uranium-235	0.0484	0.135	0.223	pCi/g	UJ	T04, T06
CWC131373	CWC003	10/13/10	ML-003	Uranium-238	0.629	0.592	0.516	pCi/g	J	F01, T04
CWC131373	CWC003	10/13/10	SW846 6010B	Antimony	0.8		0.8	mg/Kg	U	
CWC131373	CWC003	10/13/10	SW846 6010B	Arsenic	3.5		0.39	mg/Kg	=	
CWC131373	CWC003	10/13/10	SW846 6010B	Barium	41.9		0.31	mg/Kg	=	
CWC131373	CWC003	10/13/10	SW846 6010B	Cadmium	0.19		0.062	mg/Kg	=	
CWC131373	CWC003	10/13/10	SW846 6010B	Chromium	10.6		0.38	mg/Kg	J	E07, H04
CWC131373	CWC003	10/13/10	SW846 6010B	Molybdenum	1.2		1.2	mg/Kg	U	
CWC131373	CWC003	10/13/10	SW846 6010B	Nickel	18.3		0.28	mg/Kg	J	E07, H02
CWC131373	CWC003	10/13/10	SW846 6010B	Selenium	0.62		0.62	mg/Kg	U	
CWC131373	CWC003	10/13/10	SW846 6010B	Thallium	1.9		1.9	mg/Kg	U	
CWC131373	CWC003	10/13/10	SW846 6010B	Vanadium	7.8		1.6	mg/Kg	=	
CWC131377	CWC004	10/13/10	ML-003	Actinium-227	0.0448	0.151	0.233	pCi/g	UJ	T04, T06
CWC131377	CWC004	10/13/10	ML-003	Protactinium-231	-0.0443	0.434	0.645	pCi/g	UJ	T04, T06
CWC131377	CWC004	10/13/10	ML-003	Radium-226	1.5	0.379	0.0603	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Radium-228	0.805	0.0689	0.0751	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Americium-241	0.0056	0.0307	0.0465	pCi/g	UJ	T04, T06
CWC131377	CWC004	10/13/10	ML-003	Cesium-137	0.00374	0.0149	0.0241	pCi/g	UJ	T04, T06
CWC131377	CWC004	10/13/10	ML-003	Potassium-40	13.8	1.05	0.176	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-005	Thorium-228	1.24	0.539	0.242	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Thorium-228	0.805	0.0689	0.0751	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-005	Thorium-230	1.63	0.634	0.13	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Thorium-230	3.09	2.67	4.45	pCi/g	U	T04, T05
CWC131377	CWC004	10/13/10	ML-005	Thorium-232	1.01	0.476	0.13	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Thorium-232	0.805	0.0689	0.0751	pCi/g	=	
CWC131377	CWC004	10/13/10	ML-003	Uranium-235	0.0888	0.181	0.287	pCi/g	UJ	T04, T06
CWC131377	CWC004	10/13/10	ML-003	Uranium-238	1.23	0.555	0.429	pCi/g	J	F01
CWC131377	CWC004	10/13/10	SW846 6010B	Antimony	1.1		1.1	mg/Kg	U	
CWC131377	CWC004	10/13/10	SW846 6010B	Arsenic	4.4		0.54	mg/Kg	=	
CWC131377	CWC004	10/13/10	SW846 6010B	Barium	88.9		0.42	mg/Kg	=	
CWC131377	CWC004	10/13/10	SW846 6010B	Cadmium	0.43		0.085	mg/Kg	=	
CWC131377	CWC004	10/13/10	SW846 6010B	Chromium	13.9		0.52	mg/Kg	J	E07, H04

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131377	CWC004	10/13/10	SW846 6010B	Molybdenum	1.7		1.7	mg/Kg	U	
CWC131377	CWC004	10/13/10	SW846 6010B	Nickel	16.2		0.38	mg/Kg	J	E07, H02
CWC131377	CWC004	10/13/10	SW846 6010B	Selenium	0.85		0.85	mg/Kg	U	
CWC131377	CWC004	10/13/10	SW846 6010B	Thallium	2.6		2.6	mg/Kg	U	
CWC131377	CWC004	10/13/10	SW846 6010B	Vanadium	18.2		2.1	mg/Kg	=	
CWC131379	CWC005	10/13/10	ML-003	Actinium-227	0.244	0.297	0.309	pCi/g	UJ	T04, T06
CWC131379	CWC005	10/13/10	ML-003	Protactinium-231	-0.0472	0.527	0.747	pCi/g	UJ	T04, T06
CWC131379	CWC005	10/13/10	ML-003	Radium-226	2.51	0.622	0.0692	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Radium-228	0.88	0.0819	0.1	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Americium-241	0.0593	0.0615	0.102	pCi/g	UJ	T04, T06
CWC131379	CWC005	10/13/10	ML-003	Cesium-137	0.0265	0.0211	0.0206	pCi/g	J	T04
CWC131379	CWC005	10/13/10	ML-003	Potassium-40	12.7	1.17	0.207	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-005	Thorium-228	0.958	0.47	0.319	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Thorium-228	0.88	0.0819	0.1	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-005	Thorium-230	19.6	4.06	0.128	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Thorium-230	27.6	11.6	8.18	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-005	Thorium-232	1.09	0.495	0.128	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Thorium-232	0.88	0.0819	0.1	pCi/g	=	
CWC131379	CWC005	10/13/10	ML-003	Uranium-235	-0.0207	0.214	0.345	pCi/g	UJ	T04, T06
CWC131379	CWC005	10/13/10	ML-003	Uranium-238	1.78	1.04	0.867	pCi/g	J	F01, T04
CWC131379	CWC005	10/13/10	SW846 6010B	Antimony	1		1	mg/Kg	U	
CWC131379	CWC005	10/13/10	SW846 6010B	Arsenic	4.4		0.49	mg/Kg	=	
CWC131379	CWC005	10/13/10	SW846 6010B	Barium	158		0.39	mg/Kg	=	
CWC131379	CWC005	10/13/10	SW846 6010B	Cadmium	0.36		0.078	mg/Kg	=	
CWC131379	CWC005	10/13/10	SW846 6010B	Chromium	18.5		0.48	mg/Kg	J	E07, H04
CWC131379	CWC005	10/13/10	SW846 6010B	Molybdenum	1.6		1.6	mg/Kg	U	
CWC131379	CWC005	10/13/10	SW846 6010B	Nickel	15.3		0.35	mg/Kg	J	E07, H02
CWC131379	CWC005	10/13/10	SW846 6010B	Selenium	0.78		0.78	mg/Kg	U	
CWC131379	CWC005	10/13/10	SW846 6010B	Thallium	2.3		2.3	mg/Kg	U	
CWC131379	CWC005	10/13/10	SW846 6010B	Vanadium	18.7		2	mg/Kg	=	
CWC131381	CWC006	10/13/10	ML-005	Thorium-228	0.822	0.416	0.267	pCi/g	J	T04
CWC131381	CWC006	10/13/10	ML-005	Thorium-230	4.08	1.13	0.224	pCi/g	=	
CWC131381	CWC006	10/13/10	ML-005	Thorium-232	0.71	0.378	0.12	pCi/g	J	T04
CWC131381	CWC006	10/13/10	ML-003	Actinium-227	-0.0165	0.148	0.247	pCi/g	UJ	T04, T06
CWC131381	CWC006	10/13/10	ML-003	Americium-241	0.00447	0.0327	0.0494	pCi/g	UJ	T04, T06
CWC131381	CWC006	10/13/10	ML-003	Cesium-137	0.00725	0.0164	0.027	pCi/g	UJ	T04, T06
CWC131381	CWC006	10/13/10	ML-003	Potassium-40	13.1	1.06	0.237	pCi/g	=	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131381	CWC006	10/13/10	ML-003	Protactinium-231	0.266	0.452	0.704	pCi/g	UJ	T04, T06
CWC131381	CWC006	10/13/10	ML-003	Radium-226	1.74	0.442	0.0641	pCi/g	=	
CWC131381	CWC006	10/13/10	ML-003	Radium-228	0.883	0.0801	0.0876	pCi/g	=	
CWC131381	CWC006	10/13/10	ML-003	Thorium-228	0.883	0.0801	0.0876	pCi/g	=	
CWC131381	CWC006	10/13/10	ML-003	Thorium-230	5.66	4.22	4.62	pCi/g	J	T04
CWC131381	CWC006	10/13/10	ML-003	Thorium-232	0.883	0.0801	0.0876	pCi/g	=	
CWC131381	CWC006	10/13/10	ML-003	Uranium-235	0.0875	0.189	0.3	pCi/g	UJ	T04, T06
CWC131381	CWC006	10/13/10	ML-003	Uranium-238	1.07	0.496	0.465	pCi/g	J	F01
CWC131381	CWC006	10/13/10	SW846 6010B	Antimony	0.97		0.97	mg/Kg	U	
CWC131381	CWC006	10/13/10	SW846 6010B	Arsenic	4.8		0.48	mg/Kg	=	
CWC131381	CWC006	10/13/10	SW846 6010B	Barium	132		0.38	mg/Kg	=	
CWC131381	CWC006	10/13/10	SW846 6010B	Cadmium	0.33		0.076	mg/Kg	=	
CWC131381	CWC006	10/13/10	SW846 6010B	Chromium	20.2		0.47	mg/Kg	J	E07, H04
CWC131381	CWC006	10/13/10	SW846 6010B	Molybdenum	1.5		1.5	mg/Kg	U	
CWC131381	CWC006	10/13/10	SW846 6010B	Nickel	15		0.34	mg/Kg	J	E07, H02
CWC131381	CWC006	10/13/10	SW846 6010B	Selenium	0.76		0.76	mg/Kg	U	
CWC131381	CWC006	10/13/10	SW846 6010B	Thallium	2.3		2.3	mg/Kg	U	
CWC131381	CWC006	10/13/10	SW846 6010B	Vanadium	19.1		1.9	mg/Kg	=	
CWC131383	CWC007	10/13/10	ML-003	Actinium-227	-0.0159	0.161	0.252	pCi/g	UJ	T04, T06
CWC131383	CWC007	10/13/10	ML-003	Protactinium-231	0.192	0.467	0.693	pCi/g	UJ	T04, T06
CWC131383	CWC007	10/13/10	ML-003	Radium-226	1.4	0.363	0.0557	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-003	Radium-228	0.726	0.0721	0.0548	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-003	Americium-241	-0.0306	0.0503	0.0836	pCi/g	UJ	T04, T06
CWC131383	CWC007	10/13/10	ML-003	Cesium-137	0.00448	0.0152	0.0255	pCi/g	UJ	T04, T06
CWC131383	CWC007	10/13/10	ML-003	Potassium-40	12.1	1.13	0.188	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-005	Thorium-228	0.781	0.411	0.305	pCi/g	J	T04
CWC131383	CWC007	10/13/10	ML-003	Thorium-228	0.726	0.0721	0.0548	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-005	Thorium-230	4.43	1.2	0.228	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-003	Thorium-230	7.45	7.51	6.6	pCi/g	J	T02
CWC131383	CWC007	10/13/10	ML-005	Thorium-232	0.724	0.385	0.123	pCi/g	J	T04
CWC131383	CWC007	10/13/10	ML-003	Thorium-232	0.726	0.0721	0.0548	pCi/g	=	
CWC131383	CWC007	10/13/10	ML-003	Uranium-235	0.101	0.188	0.313	pCi/g	UJ	T04, T06
CWC131383	CWC007	10/13/10	ML-003	Uranium-238	0.81	0.469	0.844	pCi/g	UJ	T04, T05
CWC131383	CWC007	10/13/10	SW846 6010B	Antimony	1		1	mg/Kg	U	
CWC131383	CWC007	10/13/10	SW846 6010B	Arsenic	6		0.49	mg/Kg	=	
CWC131383	CWC007	10/13/10	SW846 6010B	Barium	134		0.39	mg/Kg	=	
CWC131383	CWC007	10/13/10	SW846 6010B	Cadmium	0.59		0.078	mg/Kg	=	

Table D-2. Coldwater Creek Sediment Data

Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
CWC131383	CWC007	10/13/10	SW846 6010B	Chromium	23.7		0.48	mg/Kg	J	E07, H04
CWC131383	CWC007	10/13/10	SW846 6010B	Molybdenum	1.6		1.6	mg/Kg	U	
CWC131383	CWC007	10/13/10	SW846 6010B	Nickel	16.6		0.35	mg/Kg	J	E07, H02
CWC131383	CWC007	10/13/10	SW846 6010B	Selenium	0.78		0.78	mg/Kg	U	
CWC131383	CWC007	10/13/10	SW846 6010B	Thallium	2.4		2.4	mg/Kg	U	
CWC131383	CWC007	10/13/10	SW846 6010B	Vanadium	21.6		2	mg/Kg	=	

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APPENDIX E

**GROUND-WATER FIELD PARAMETER DATA FOR CY 2010, ANALYTICAL DATA
FOR CY 2010, AND LOGS FOR GROUND-WATER MONITORING WELL PW46
(On CD-ROM at the end of this document)**

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**Table E-1. Ground-Water Monitoring
First Quarter 2010 - Field Parameters for the Latty Avenue Properties**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 03/05/10
HISS/Futura	HISS-01	03/12/10	125	2625	6.52	0.137	0.2	6.61	10.6	232	7.07	6.90
HISS/Futura	HISS-05D	---	---	---	---	---	---	---	---	---	---	9.32
HISS/Futura	HISS-06	---	---	---	---	---	---	---	---	---	---	11.93
HISS/Futura	HISS-09	---	---	---	---	---	---	---	---	---	---	11.28
HISS/Futura	HISS-10	---	---	---	---	---	---	---	---	---	---	8.90
HISS/Futura	HISS-14	---	---	---	---	---	---	---	---	---	---	10.44
HISS/Futura	HISS-15	---	---	---	---	---	---	---	---	---	---	8.45
HISS/Futura	HISS-17	---	---	---	---	---	---	---	---	---	---	6.79
HISS/Futura	HISS-18S	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HISS-19S	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HW21	---	---	---	---	---	---	---	---	---	---	10.44
HISS/Futura	HW22	03/08/10	35	630	6.73	0.122	45.4	5.23	13	-127	10.09	9.96
HISS/Futura	HW23	---	---	---	---	---	---	---	---	---	---	12.78

**Table E-1. Ground-Water Monitoring
Second Quarter 2010 - Field Parameters for the Latty Avenue Properties**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (μS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 05/21/10
HISS/Futura	HISS-01	05/25/10	100	1200	6.99	0.132	12	6.49	17.7	244	6.52	5.63
HISS/Futura	HISS-05D	---	---	---	---	---	---	---	---	---	---	9.18
HISS/Futura	HISS-06	---	---	---	---	---	---	---	---	---	---	9.49
HISS/Futura	HISS-09	05/21/10	60	1080	6.5	0.159	7	4.81	15.1	314	11.10	9.89
HISS/Futura	HISS-10	---	---	---	---	---	---	---	---	---	---	4.23
HISS/Futura	HISS-14	---	---	---	---	---	---	---	---	---	---	7.86
HISS/Futura	HISS-15	---	---	---	---	---	---	---	---	---	---	10.07
HISS/Futura	HISS-17S	05/25/10	80	1680	6.54	76.5	5.6	5.64	14.7	273	5.96	3.88
HISS/Futura	HISS-18	---	---	---	---	---	---	---	---	---	---	7.29
HISS/Futura	HISS-19	---	---	---	---	---	---	---	---	---	---	13.15
HISS/Futura	HW21	---	---	---	---	---	---	---	---	---	---	8.63
HISS/Futura	HW22	---	---	---	---	---	---	---	---	---	---	9.83
HISS/Futura	HW23	---	---	---	---	---	---	---	---	---	---	12.24

**Table E-1. Ground-Water Monitoring
Third Quarter 2010 - Field Parameters for the Latty Avenue Properties**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (μS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 09/08/10
HISS/Futura	HISS-01	09/17/10	120	2880	6.65	0.149	27.7	2.35	21.9	159	12.29	4.56
HISS/Futura	HISS-05D	---	---	---	---	---	---	---	---	---	---	9.39
HISS/Futura	HISS-06	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HISS-09	---	---	---	---	---	---	---	---	---	---	11.15
HISS/Futura	HISS-10	09/14/10	150	2250	6.43	0.115	5.4	5.61	20	138	6.18	7.34
HISS/Futura	HISS-14	---	---	---	---	---	---	---	---	---	---	9.68
HISS/Futura	HISS-15	09/13/10	62	1116	6.05	0.123	1.9	6.97	19.4	160	8.73	8.96
HISS/Futura	HISS-17S	---	---	---	---	---	---	---	---	---	---	6.55
HISS/Futura	HISS-18	---	---	---	---	---	---	---	---	---	---	9.41
HISS/Futura	HISS-19	---	---	---	---	---	---	---	---	---	---	14.36
HISS/Futura	HW21	---	---	---	---	---	---	---	---	---	---	10.65
HISS/Futura	HW22	09/15/10	35	735	8.63	0.121	54.2	4.88	19.6	-160	10.20	10.04
HISS/Futura	HW23	09/15/10	80	1200	6.63	0.193	7.3	6.13	20.3	86	14.06	13.84

**Table E-1. Ground-Water Monitoring
Fourth Quarter 2010- Field Parameters for the Latty Avenue Properties**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 12/13/10
HISS/Futura	HISS-01	12/14/10	120	2900	6.65	1.49	0	4.01	13.9	221	8.89	8.71
HISS/Futura	HISS-05D	---	---	---	---	---	---	---	---	---	---	9.28
HISS/Futura	HISS-06	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HISS-09	---	---	---	---	---	---	---	---	---	---	11.04
HISS/Futura	HISS-10	---	---	---	---	---	---	---	---	---	---	6.77
HISS/Futura	HISS-14	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HISS-15	---	---	---	---	---	---	---	---	---	---	---
HISS/Futura	HISS-17S	12/15/10	80	1920	7.08	58	0.6	3.61	9.8	240	7.00	6.61
HISS/Futura	HISS-18	12/14/10	70	1050	6.7	1.31	3.1	2.84	14.51	80	9.41	14.18
HISS/Futura	HISS-19	---	---	---	---	---	---	---	---	---	---	9.28
HISS/Futura	HW21	12/17/10	40	480	6.41	1.1	14	1.55	7.7	293	12.00	10.65
HISS/Futura	HW22	---	---	---	---	---	---	---	---	---	---	9.89
HISS/Futura	HW23	12/17/10	80	720	6.6	0.2	3.7	1.94	10.5	228	14.25	13.61

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

BTOC = Below top of casing

mL/min = milliliters per minute

**Table E-2. Ground-Water Monitoring
First Quarter 2010 - Field Parameters for SLAPS and SLAPS VPs**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (μS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 03/05/10
SLAPS & SLAPS VPs	B53W01D	---	---	---	---	---	---	---	---	---	---	10.63
SLAPS & SLAPS VPs	B53W01S	---	---	---	---	---	---	---	---	---	---	10.73
SLAPS & SLAPS VPs	B53W06S	---	---	---	---	---	---	---	---	---	---	12
SLAPS & SLAPS VPs	B53W07D	---	---	---	---	---	---	---	---	---	---	10.33
SLAPS & SLAPS VPs	B53W07S	---	---	---	---	---	---	---	---	---	---	14.86
SLAPS & SLAPS VPs	B53W09S	03/08/10	30	540	6.06	0.123	5.5	3.47	12.5	225	14.91	13.74
SLAPS & SLAPS VPs	B53W13S	03/08/10	60	1080	6.43	0.37	6.4	7.57	12.8	88	7.64	7.3
SLAPS & SLAPS VPs	B53W17S	---	---	---	---	---	---	---	---	---	---	5.48
SLAPS & SLAPS VPs	B53W18S	---	---	---	---	---	---	---	---	---	---	13.2
SLAPS & SLAPS VPs	B53W19S	---	---	---	---	---	---	---	---	---	---	6.87
SLAPS & SLAPS VPs	MW31-98	---	---	---	---	---	---	---	---	---	---	4.82
SLAPS & SLAPS VPs	MW32-98	03/08/10	75	1575	7.49	1.72	89	4.61	8.6	170	10.87	10.59
SLAPS & SLAPS VPs	PW35	---	---	---	---	---	---	---	---	---	---	9.39
SLAPS & SLAPS VPs	PW36	---	---	---	---	---	---	---	---	---	---	9.5
SLAPS & SLAPS VPs	PW42	---	---	---	---	---	---	---	---	---	---	10.15
SLAPS & SLAPS VPs	PW43	---	---	---	---	---	---	---	---	---	---	7.91
SLAPS & SLAPS VPs	PW44	---	---	---	---	---	---	---	---	---	---	3.71
SLAPS & SLAPS VPs	PW45	---	---	---	---	---	---	---	---	---	---	6.84
SLAPS & SLAPS VPs	PW46	---	---	---	---	---	---	---	---	---	---	12.08

**Table E-2. Ground-Water Monitoring
Second Quarter 2010 - Field Parameters for SLAPS and SLAPS VPs**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 05/21/10
SLAPS & SLAPS VPs	B53W01D	---	---	---	---	---	---	---	---	---	---	10.38
SLAPS & SLAPS VPs	B53W01S	---	---	---	---	---	---	---	---	---	---	10.57
SLAPS & SLAPS VPs	B53W06S	05/24/10	25	375	6.33	0.179	43.8	6.33	15.8	305	15.93	13.39
SLAPS & SLAPS VPs	B53W07D	---	---	---	---	---	---	---	---	---	---	10.21
SLAPS & SLAPS VPs	B53W07S	---	---	---	---	---	---	---	---	---	---	16.34
SLAPS & SLAPS VPs	B53W09S	---	---	---	---	---	---	---	---	---	---	15.92
SLAPS & SLAPS VPs	B53W13S	---	---	---	---	---	---	---	---	---	---	9.21
SLAPS & SLAPS VPs	B53W17S	---	---	---	---	---	---	---	---	---	---	6.28
SLAPS & SLAPS VPs	B53W18S	---	---	---	---	---	---	---	---	---	---	11.87
SLAPS & SLAPS VPs	B53W19S	---	---	---	---	---	---	---	---	---	---	6.19
SLAPS & SLAPS VPs	MW31-98	05/24/10	60	900	6.47	0.456	15.4	5.39	17.9	279	7.16	6.36
SLAPS & SLAPS VPs	MW32-98	---	---	---	---	---	---	---	---	---	---	12.49
SLAPS & SLAPS VPs	PW35	---	---	---	---	---	---	---	---	---	---	9.8
SLAPS & SLAPS VPs	PW36	---	---	---	---	---	---	---	---	---	---	9.41
SLAPS & SLAPS VPs	PW42	---	---	---	---	---	---	---	---	---	---	9.9
SLAPS & SLAPS VPs	PW43	---	---	---	---	---	---	---	---	---	---	12.26
SLAPS & SLAPS VPs	PW44	---	---	---	---	---	---	---	---	---	---	2.7
SLAPS & SLAPS VPs	PW45	---	---	---	---	---	---	---	---	---	---	5.45
SLAPS & SLAPS VPs	PW46	---	---	---	---	---	---	---	---	---	---	11.06

**Table E-2. Ground-Water Monitoring
Third Quarter 2010 - Field Parameters for SLAPS and SLAPS VPs**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 09/08/10
SLAPS & SLAPS VPs	B53W01D	---	---	---	---	---	---	---	---	---	---	10.61
SLAPS & SLAPS VPs	B53W01S	---	---	---	---	---	---	---	---	---	---	17.23
SLAPS & SLAPS VPs	B53W06S	---	---	---	---	---	---	---	---	---	---	14.78
SLAPS & SLAPS VPs	B53W07D	---	---	---	---	---	---	---	---	---	---	10.5
SLAPS & SLAPS VPs	B53W07S	---	---	---	---	---	---	---	---	---	---	18.9
SLAPS & SLAPS VPs	B53W09S	09/09/10	30	540	6.22	0.126	5	6.89	16	119	16.97	15.93
SLAPS & SLAPS VPs	B53W13S	09/09/10	60	900	6.29	0.356	33.9	7.3	16.8	122	13.43	13
SLAPS & SLAPS VPs	B53W17S	---	---	---	---	---	---	---	---	---	---	11.89
SLAPS & SLAPS VPs	B53W18S	---	---	---	---	---	---	---	---	---	---	13.19
SLAPS & SLAPS VPs	B53W19S	---	---	---	---	---	---	---	---	---	---	7
SLAPS & SLAPS VPs	MW31-98	---	---	---	---	---	---	---	---	---	---	14.08
SLAPS & SLAPS VPs	MW32-98	---	---	---	---	---	---	---	---	---	---	15.49
SLAPS & SLAPS VPs	PW35	---	---	---	---	---	---	---	---	---	---	9.84
SLAPS & SLAPS VPs	PW36	---	---	---	---	---	---	---	---	---	---	9.74
SLAPS & SLAPS VPs	PW42	---	---	---	---	---	---	---	---	---	---	10.49
SLAPS & SLAPS VPs	PW43	09/09/10	50	750	6.78	0.122	2.8	6.03	15.9	50	17.83	17.28
SLAPS & SLAPS VPs	PW44	09/13/10	50	900	7.29	72.8	0.1	6.13	23.6	-43	5.62	5.6
SLAPS & SLAPS VPs	PW45	09/13/10	80	1200	6.6	0.108	0.2	6.89	21.4	98	7.19	7.75
SLAPS & SLAPS VPs	PW46	09/14/10	50	750	5.83	0.295	4.1	6.89	18.5	178	16.03	15.74

**Table E-2. Ground-Water Monitoring
Fourth Quarter 2010 - Field Parameters for SLAPS and SLAPS VPs**

Site	Station ID	Date Sampled	Purge Rate (mL/min)	mL Removed (mL)	pH	Conductivity (µS/cm)	Turbidity (NTU)	DO (mg/L)	Temp (°C)	ORP (mV)	Depth to Water at Sampling Time	Depth to Water (BTOC) 12/13/10
SLAPS & SLAPS VPs	B53W01D	12/14/10	120	2440	6.7	1.2	0	2.5	11.77	-5	10.68	10.62
SLAPS & SLAPS VPs	B53W01S	---	---	---	---	---	---	---	---	---	---	15.03
SLAPS & SLAPS VPs	B53W06S	---	---	---	---	---	---	---	---	---	---	15.68
SLAPS & SLAPS VPs	B53W07D	---	---	---	---	---	---	---	---	---	---	10.54
SLAPS & SLAPS VPs	B53W07S	---	---	---	---	---	---	---	---	---	---	18.31
SLAPS & SLAPS VPs	B53W09S	---	---	---	---	---	---	---	---	---	---	16
SLAPS & SLAPS VPs	B53W13S	12/15/10	60	540	6.28	0.35	13.5	3.41	8.5	113	12.9	12.65
SLAPS & SLAPS VPs	B53W17S	---	---	---	---	---	---	---	---	---	---	11.63
SLAPS & SLAPS VPs	B53W18S	---	---	---	---	---	---	---	---	---	---	13.01
SLAPS & SLAPS VPs	B53W19S	---	---	---	---	---	---	---	---	---	---	7.14
SLAPS & SLAPS VPs	MW31-98	---	---	---	---	---	---	---	---	---	---	13.19
SLAPS & SLAPS VPs	MW32-98	---	---	---	---	---	---	---	---	---	---	16.36
SLAPS & SLAPS VPs	PW35	12/14/10	50	1050	7.25	3.19	153	3.81	10.48	24	9.4	9.27
SLAPS & SLAPS VPs	PW36	12/14/10	200	3600	7.33	1.2	38.5	3.29	16.1	-191	9.71	9.65
SLAPS & SLAPS VPs	PW42	---	---	---	---	---	---	---	---	---	---	10.52
SLAPS & SLAPS VPs	PW43	---	---	---	---	---	---	---	---	---	---	16.13
SLAPS & SLAPS VPs	PW44	---	---	---	---	---	---	---	---	---	---	4.55
SLAPS & SLAPS VPs	PW45	---	---	---	---	---	---	---	---	---	---	8.04
SLAPS & SLAPS VPs	PW46	---	---	---	---	---	---	---	---	---	---	13.16

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

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS125884	HISS-01	03/12/10	ML-006	Radium-226	0.0569	0.114	0.154	pCi/L	UJ	T06
HIS125884	HISS-01	03/12/10	ML-005	Thorium-228	0.215	0.305	0.527	pCi/L	UJ	T06
HIS125884	HISS-01	03/12/10	ML-005	Thorium-230	0.287	0.29	0.194	pCi/L	J	F01, T02
HIS125884	HISS-01	03/12/10	ML-005	Thorium-232	0.107	0.215	0.429	pCi/L	UJ	T06
HIS125884	HISS-01	03/12/10	ML-015	Uranium-234	38.8	7.03	0.161	pCi/L	=	
HIS125884	HISS-01	03/12/10	ML-015	Uranium-235	1.61	0.736	0.199	pCi/L	=	
HIS125884	HISS-01	03/12/10	ML-015	Uranium-238	39.2	7.08	0.16	pCi/L	=	
HIS125884	HISS-01	03/12/10	SW846 6020	Antimony	1.2		1.1	ug/L	J	F01
HIS125884	HISS-01	03/12/10	SW846 6020	Arsenic	1.4		0.95	ug/L	=	
HIS125884	HISS-01	03/12/10	SW846 6020	Barium	47.4		0.2	ug/L	=	
HIS125884	HISS-01	03/12/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
HIS125884	HISS-01	03/12/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS125884	HISS-01	03/12/10	SW846 6020	Molybdenum	15.9		0.22	ug/L	=	
HIS125884	HISS-01	03/12/10	SW846 6020	Nickel	0.55		0.23	ug/L	=	
HIS125884	HISS-01	03/12/10	SW846 6020	Selenium	364		0.31	ug/L	J	E07
HIS125884	HISS-01	03/12/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
HIS125884	HISS-01	03/12/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS125886	HW22	03/08/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS125886	HW22	03/08/10	SW846 6020	Arsenic	128		0.95	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Barium	446		0.2	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Cadmium	0.56		0.055	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Chromium	4.9		3.3	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Molybdenum	7.3		0.22	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Nickel	8.1		0.23	ug/L	=	
HIS125886	HW22	03/08/10	SW846 6020	Selenium	1.2		0.31	ug/L	J	E07, F01
HIS125886	HW22	03/08/10	SW846 6020	Thallium	0.55		1	ug/L	U	
HIS125886	HW22	03/08/10	SW846 6020	Vanadium	9.1		2.4	ug/L	=	
HIS127685	HISS-01	05/25/10	ML-006	Radium-226	0	0	0.6	pCi/L	U	
HIS127685	HISS-01	05/25/10	ML-005	Thorium-228	0.0702	0.222	0.517	pCi/L	UJ	T06
HIS127685	HISS-01	05/25/10	ML-005	Thorium-230	0.316	0.326	0.422	pCi/L	UJ	T06
HIS127685	HISS-01	05/25/10	ML-005	Thorium-232	0.0702	0.141	0.19	pCi/L	UJ	T06
HIS127685	HISS-01	05/25/10	ML-015	Uranium-234	28.8	6.08	0.216	pCi/L	=	
HIS127685	HISS-01	05/25/10	ML-015	Uranium-235	1.47	0.843	0.723	pCi/L	J	T04
HIS127685	HISS-01	05/25/10	ML-015	Uranium-238	30.6	6.42	0.215	pCi/L	=	
HIS127685	HISS-01	05/25/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS127685	HISS-01	05/25/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
HIS127685	HISS-01	05/25/10	SW846 6020	Barium	46.8		0.2	ug/L	=	
HIS127685	HISS-01	05/25/10	SW846 6020	Cadmium	0.073		0.055	ug/L	=	

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS127685	HISS-01	05/25/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS127685	HISS-01	05/25/10	SW846 6020	Molybdenum	12.7		0.22	ug/L	=	
HIS127685	HISS-01	05/25/10	SW846 6020	Nickel	1.3		0.23	ug/L	=	
HIS127685	HISS-01	05/25/10	SW846 6020	Selenium	321		0.31	ug/L	J	E07
HIS127685	HISS-01	05/25/10	SW846 6020	Thallium	0.98		0.55	ug/L	=	
HIS127685	HISS-01	05/25/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS127687	HISS-09	05/21/10	ML-006	Radium-226	-0.114	0.228	1.37	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	ML-005	Thorium-228	0.123	0.23	0.451	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	ML-005	Thorium-230	0.184	0.262	0.451	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	ML-005	Thorium-232	0.122	0.174	0.166	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	ML-015	Uranium-234	0	0.309	0.206	pCi/L	J	T02
HIS127687	HISS-09	05/21/10	ML-015	Uranium-235	-0.0939	0.134	0.691	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	ML-015	Uranium-238	0.265	0.316	0.455	pCi/L	UJ	T06
HIS127687	HISS-09	05/21/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS127687	HISS-09	05/21/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
HIS127687	HISS-09	05/21/10	SW846 6020	Barium	248		0.2	ug/L	=	
HIS127687	HISS-09	05/21/10	SW846 6020	Cadmium	1.8		0.055	ug/L	=	
HIS127687	HISS-09	05/21/10	SW846 6020	Chromium	3		3.3	ug/L	U	
HIS127687	HISS-09	05/21/10	SW846 6020	Molybdenum	3.5		0.22	ug/L	=	
HIS127687	HISS-09	05/21/10	SW846 6020	Nickel	0.65		0.23	ug/L	=	
HIS127687	HISS-09	05/21/10	SW846 6020	Selenium	0.52		0.31	ug/L	J	E07
HIS127687	HISS-09	05/21/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
HIS127687	HISS-09	05/21/10	SW846 6020	Vanadium	2.4		2	ug/L	U	
HIS127686	HISS-17S	05/25/10	ML-006	Radium-226	-0.106	0.561	1.78	pCi/L	UJ	T06
HIS127686	HISS-17S	05/25/10	ML-005	Thorium-228	0	0.359	0.18	pCi/L	J	F01, T04
HIS127686	HISS-17S	05/25/10	ML-005	Thorium-230	0.1	0.2	0.399	pCi/L	UJ	T06
HIS127686	HISS-17S	05/25/10	ML-005	Thorium-232	0.133	0.189	0.18	pCi/L	UJ	T06
HIS127686	HISS-17S	05/25/10	ML-015	Uranium-234	1.18	0.631	0.43	pCi/L	J	T04
HIS127686	HISS-17S	05/25/10	ML-015	Uranium-235	0.0442	0.198	0.53	pCi/L	UJ	T06
HIS127686	HISS-17S	05/25/10	ML-015	Uranium-238	0.464	0.393	0.428	pCi/L	J	T04
HIS127686	HISS-17S	05/25/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS127686	HISS-17S	05/25/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
HIS127686	HISS-17S	05/25/10	SW846 6020	Barium	114		0.2	ug/L	=	
HIS127686	HISS-17S	05/25/10	SW846 6020	Cadmium	0.11		0.055	ug/L	=	
HIS127686	HISS-17S	05/25/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS127686	HISS-17S	05/25/10	SW846 6020	Molybdenum	3.5		0.22	ug/L	=	
HIS127686	HISS-17S	05/25/10	SW846 6020	Nickel	7.3		0.23	ug/L	=	
HIS127686	HISS-17S	05/25/10	SW846 6020	Selenium	15.4		0.31	ug/L	J	E07

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS127686	HISS-17S	05/25/10	SW846 6020	Thallium	0.68		0.55	ug/L	=	
HIS127686	HISS-17S	05/25/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS130579	HISS-01	09/17/10	ML-006	Radium-226	2.16	1.23	1.44	pCi/L	J	T04
HIS130579	HISS-01	09/17/10	ML-005	Thorium-228	0.271	0.32	0.499	pCi/L	UJ	T06
HIS130579	HISS-01	09/17/10	ML-005	Thorium-230	1.36	0.663	0.499	pCi/L	J	F01
HIS130579	HISS-01	09/17/10	ML-005	Thorium-232	-0.0339	0.0679	0.406	pCi/L	UJ	T06
HIS130579	HISS-01	09/17/10	ML-015	Uranium-234	27.2	5.91	0.227	pCi/L	=	
HIS130579	HISS-01	09/17/10	ML-015	Uranium-235	0.827	0.605	0.28	pCi/L	J	T04
HIS130579	HISS-01	09/17/10	ML-015	Uranium-238	28	6.05	0.226	pCi/L	=	
HIS130581	HISS-10	09/14/10	ML-006	Radium-226	3.05	1.22	0.978	pCi/L	=	
HIS130581	HISS-10	09/14/10	ML-005	Thorium-228	0.136	0.256	0.502	pCi/L	UJ	T06
HIS130581	HISS-10	09/14/10	ML-005	Thorium-230	0.478	0.369	0.185	pCi/L	J	F01, T04
HIS130581	HISS-10	09/14/10	ML-005	Thorium-232	0	0	0.185	pCi/L	U	
HIS130581	HISS-10	09/14/10	ML-015	Uranium-234	5	1.59	0.205	pCi/L	=	
HIS130581	HISS-10	09/14/10	ML-015	Uranium-235	0.0932	0.187	0.253	pCi/L	UJ	T06
HIS130581	HISS-10	09/14/10	ML-015	Uranium-238	3.95	1.31	0	pCi/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS130581	HISS-10	09/14/10	SW846 6020	Arsenic	1.4		0.95	ug/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Barium	88.5		0.2	ug/L	J	E07
HIS130581	HISS-10	09/14/10	SW846 6020	Cadmium	0.089		0	ug/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Chromium	3		3.3	ug/L	U	
HIS130581	HISS-10	09/14/10	SW846 6020	Molybdenum	23.9		0.41	ug/L	J	E07
HIS130581	HISS-10	09/14/10	SW846 6020	Nickel	0.88		0.4	ug/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Selenium	6.2		1.3	ug/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Thallium	1.6		0.55	ug/L	=	
HIS130581	HISS-10	09/14/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS130582	HISS-15	09/13/10	ML-006	Radium-226	0.208	0.659	1.25	pCi/L	UJ	T06
HIS130582	HISS-15	09/13/10	ML-005	Thorium-228	0.407	0.339	0.184	pCi/L	J	T04
HIS130582	HISS-15	09/13/10	ML-005	Thorium-230	0.612	0.419	0.184	pCi/L	J	F01, T04
HIS130582	HISS-15	09/13/10	ML-005	Thorium-232	0.0339	0.152	0.407	pCi/L	UJ	T06
HIS130582	HISS-15	09/13/10	ML-015	Uranium-234	0.741	0.49	0.423	pCi/L	J	T04
HIS130582	HISS-15	09/13/10	ML-015	Uranium-235	0.174	0.248	0.236	pCi/L	UJ	T06
HIS130582	HISS-15	09/13/10	ML-015	Uranium-238	0.772	0.485	0.19	pCi/L	J	T04
HIS130582	HISS-15	09/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS130582	HISS-15	09/13/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
HIS130582	HISS-15	09/13/10	SW846 6020	Barium	227		0.2	ug/L	J	E07
HIS130582	HISS-15	09/13/10	SW846 6020	Cadmium	0.68		0.055	ug/L	=	
HIS130582	HISS-15	09/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS130582	HISS-15	09/13/10	SW846 6020	Molybdenum	5.4		0.41	ug/L	J	E07
HIS130582	HISS-15	09/13/10	SW846 6020	Nickel	3.5		0.4	ug/L	=	
HIS130582	HISS-15	09/13/10	SW846 6020	Selenium	13.9		1.3	ug/L	=	
HIS130582	HISS-15	09/13/10	SW846 6020	Thallium	0.67		0.55	ug/L	=	
HIS130582	HISS-15	09/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS130583	HW22	09/15/10	ML-006	Radium-226	1.32	0.866	0.88	pCi/L	J	T04
HIS130583	HW22	09/15/10	ML-005	Thorium-228	0.639	0.468	0.451	pCi/L	J	T04
HIS130583	HW22	09/15/10	ML-005	Thorium-230	0.414	0.382	0.452	pCi/L	U	T04, T05
HIS130583	HW22	09/15/10	ML-005	Thorium-232	0.188	0.273	0.451	pCi/L	UJ	T06
HIS130583	HW22	09/15/10	ML-015	Uranium-234	0	0.269	0.18	pCi/L	J	T02
HIS130583	HW22	09/15/10	ML-015	Uranium-235	0	0	0.222	pCi/L	U	
HIS130583	HW22	09/15/10	ML-015	Uranium-238	0.132	0.188	0.179	pCi/L	UJ	T06
HIS130583	HW22	09/15/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS130583	HW22	09/15/10	SW846 6020	Arsenic	122		0.95	ug/L	=	
HIS130583	HW22	09/15/10	SW846 6020	Barium	389		0.2	ug/L	J	E07
HIS130583	HW22	09/15/10	SW846 6020	Cadmium	0.16		0.055	ug/L	=	
HIS130583	HW22	09/15/10	SW846 6020	Chromium	3		3	ug/L	U	
HIS130583	HW22	09/15/10	SW846 6020	Molybdenum	7.5		0.41	ug/L	J	E07
HIS130583	HW22	09/15/10	SW846 6020	Nickel	3.8		0.4	ug/L	=	
HIS130583	HW22	09/15/10	SW846 6020	Selenium	1.3		1.3	ug/L	U	
HIS130583	HW22	09/15/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
HIS130583	HW22	09/15/10	SW846 6020	Vanadium	2.7		2.4	ug/L	=	
HIS130584	HW23	09/15/10	ML-006	Radium-226	-0.129	0.257	0.946	pCi/L	UJ	T06
HIS130584	HW23	09/15/10	ML-005	Thorium-228	0.0649	0.13	0.176	pCi/L	UJ	T06
HIS130584	HW23	09/15/10	ML-005	Thorium-230	0.553	0.404	0.39	pCi/L	J	F01, T04
HIS130584	HW23	09/15/10	ML-005	Thorium-232	0	0	0.176	pCi/L	U	
HIS130584	HW23	09/15/10	ML-015	Uranium-234	5.48	1.56	0.419	pCi/L	=	
HIS130584	HW23	09/15/10	ML-015	Uranium-235	0	0	0.233	pCi/L	U	
HIS130584	HW23	09/15/10	ML-015	Uranium-238	2.99	1.05	0.188	pCi/L	=	
HIS133112	HISS-01	12/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS133112	HISS-01	12/14/10	SW846 6020	Arsenic	1.3		0.95	ug/L	=	
HIS133112	HISS-01	12/14/10	SW846 6020	Barium	45.2		0.2	ug/L	=	
HIS133112	HISS-01	12/14/10	SW846 6020	Cadmium	0.1		0.1	ug/L	U	
HIS133112	HISS-01	12/14/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS133112	HISS-01	12/14/10	SW846 6020	Molybdenum	16.9		0.41	ug/L	=	
HIS133112	HISS-01	12/14/10	SW846 6020	Nickel	0.83		0.4	ug/L	=	
HIS133112	HISS-01	12/14/10	SW846 6020	Selenium	279		1.3	ug/L	J	E07
HIS133112	HISS-01	12/14/10	SW846 6020	Thallium	2.2		0.55	ug/L	=	

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS133112	HISS-01	12/14/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS133113	HISS-17S	12/15/10	ML-006	Radium-226	2.28	1.45	0.618	pCi/L	J	T04
HIS133113	HISS-17S	12/15/10	ML-005	Thorium-228	0.336	0.346	0.494	pCi/L	UJ	T06
HIS133113	HISS-17S	12/15/10	ML-005	Thorium-230	0.437	0.368	0.403	pCi/L	J	F01, T04
HIS133113	HISS-17S	12/15/10	ML-005	Thorium-232	-0.0336	0.0673	0.403	pCi/L	UJ	T06
HIS133113	HISS-17S	12/15/10	ML-015	Uranium-234	0.517	0.376	0.175	pCi/L	J	T04
HIS133113	HISS-17S	12/15/10	ML-015	Uranium-235	0	0	0.216	pCi/L	U	
HIS133113	HISS-17S	12/15/10	ML-015	Uranium-238	0.129	0.183	0.174	pCi/L	UJ	T06
HIS133113	HISS-17S	12/15/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS133113	HISS-17S	12/15/10	SW846 6020	Arsenic	1.2		0.95	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Barium	65.4		0.2	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Cadmium	0.19		0.1	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS133113	HISS-17S	12/15/10	SW846 6020	Molybdenum	7.3		0.41	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Nickel	3		0.4	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Selenium	8.3		1.3	ug/L	J	E07
HIS133113	HISS-17S	12/15/10	SW846 6020	Thallium	1.5		0.55	ug/L	=	
HIS133113	HISS-17S	12/15/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS133114	HISS-18S	12/14/10	ML-006	Radium-226	0.44	0.984	2.04	pCi/L	UJ	T06
HIS133114	HISS-18S	12/14/10	ML-005	Thorium-228	0	0.198	0.501	pCi/L	UJ	T06
HIS133114	HISS-18S	12/14/10	ML-005	Thorium-230	0.417	0.322	0.162	pCi/L	J	F01, T04
HIS133114	HISS-18S	12/14/10	ML-005	Thorium-232	0.0893	0.179	0.357	pCi/L	UJ	T06
HIS133114	HISS-18S	12/14/10	ML-015	Uranium-234	0.897	0.598	0.512	pCi/L	J	T04
HIS133114	HISS-18S	12/14/10	ML-015	Uranium-235	0	0	0.285	pCi/L	U	
HIS133114	HISS-18S	12/14/10	ML-015	Uranium-238	0.34	0.346	0.23	pCi/L	J	T02
HIS133114	HISS-18S	12/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS133114	HISS-18S	12/14/10	SW846 6020	Arsenic	3		0.95	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Barium	196		0.2	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Cadmium	0.91		0.1	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Chromium	114		3.3	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Molybdenum	4		0	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Nickel	83.6		0.4	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Selenium	2.1		1.3	ug/L	J	E07
HIS133114	HISS-18S	12/14/10	SW846 6020	Thallium	1		0.55	ug/L	=	
HIS133114	HISS-18S	12/14/10	SW846 6020	Vanadium	2.9		2.4	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS133115	HW21	12/17/10	SW846 6020	Arsenic	2		0.95	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Barium	739		0.2	ug/L	=	

Table E-3. CY 2010 Ground-Water Sampling Data for the Latty Avenue Properties - Unfiltered

Site: Latty Avenue Properties										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
HIS133115	HW21	12/17/10	SW846 6020	Cadmium	0.57		0.1	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS133115	HW21	12/17/10	SW846 6020	Molybdenum	6.1		0.41	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Nickel	12.8		0.4	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Selenium	84.3		1.3	ug/L	J	E07
HIS133115	HW21	12/17/10	SW846 6020	Thallium	0.62		0.55	ug/L	=	
HIS133115	HW21	12/17/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
HIS133116	HW23	12/17/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
HIS133116	HW23	12/17/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
HIS133116	HW23	12/17/10	SW846 6020	Barium	262		0.2	ug/L	=	
HIS133116	HW23	12/17/10	SW846 6020	Cadmium	0.48		0.1	ug/L	=	
HIS133116	HW23	12/17/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
HIS133116	HW23	12/17/10	SW846 6020	Molybdenum	1.2		0.41	ug/L	=	
HIS133116	HW23	12/17/10	SW846 6020	Nickel	2.7		0.4	ug/L	=	
HIS133116	HW23	12/17/10	SW846 6020	Selenium	2.2		1.3	ug/L	J	E07
HIS133116	HW23	12/17/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
HIS133116	HW23	12/17/10	SW846 6020	Vanadium	2.9		2	ug/L	=	

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA125890	B53W09S	03/08/10	SW846 6020	Antimony	1.7		1.1	ug/L	J	F01
SLA125890	B53W09S	03/08/10	SW846 6020	Arsenic	2.5		0.95	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Barium	288		0.2	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Cadmium	1.50E+00		0.055	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Chromium	5.7		3.3	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Molybdenum	7.8		0.22	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Nickel	118		0.23	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Selenium	11.7		0.31	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Thallium	1.9		0.55	ug/L	=	
SLA125890	B53W09S	03/08/10	SW846 6020	Vanadium	2.5		2.4	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA125891	B53W13S	03/08/10	SW846 6020	Arsenic	1.5		0.95	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Barium	317		0.2	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Cadmium	0.92		0.055	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Chromium	31		3.3	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Molybdenum	4.4		0.22	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Nickel	156		0.23	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Selenium	55.9		0.31	ug/L	J	E07
SLA125891	B53W13S	03/08/10	SW846 6020	Thallium	0.86		0.55	ug/L	=	
SLA125891	B53W13S	03/08/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA125892	MW32-98	03/08/10	ML-006	Radium-226	0.106	0.213	0.425	pCi/L	UJ	T06
SLA125892	MW32-98	03/08/10	ML-005	Thorium-228	0	0.277	0.532	pCi/L	UJ	T06
SLA125892	MW32-98	03/08/10	ML-005	Thorium-230	0.285	0.294	0.38	pCi/L	UJ	T06
SLA125892	MW32-98	03/08/10	ML-005	Thorium-232	0	0	0.171	pCi/L	U	
SLA125892	MW32-98	03/08/10	ML-015	Uranium-234	0.593	0.408	0.179	pCi/L	J	T04
SLA125892	MW32-98	03/08/10	ML-015	Uranium-235	0	0.232	0	pCi/L	UJ	T06
SLA125892	MW32-98	03/08/10	ML-015	Uranium-238	0.394	0.328	0.178	pCi/L	J	F01, T04
SLA125892	MW32-98	03/08/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA125892	MW32-98	03/08/10	SW846 6020	Arsenic	1		0.95	ug/L	=	
SLA125892	MW32-98	03/08/10	SW846 6020	Barium	85.4		0.2	ug/L	=	
SLA125892	MW32-98	03/08/10	SW846 6020	Cadmium	0.22		0.055	ug/L	=	
SLA125892	MW32-98	03/08/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
SLA125892	MW32-98	03/08/10	SW846 6020	Molybdenum	1.1		0.22	ug/L	J	F01
SLA125892	MW32-98	03/08/10	SW846 6020	Nickel	1.5		0.23	ug/L	=	
SLA125892	MW32-98	03/08/10	SW846 6020	Selenium	1.2		0.31	ug/L	J	F01
SLA125892	MW32-98	03/08/10	SW846 6020	Thallium	0.64		0.55	ug/L	=	
SLA125892	MW32-98	03/08/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA125889	PW46	03/09/10	ML-006	Radium-226	-0.000008743	0.154	0.463	pCi/L	UJ	T06
SLA125889	PW46	03/09/10	ML-005	Thorium-228	0.286	0.294	0.381	pCi/L	UJ	T06
SLA125889	PW46	03/09/10	ML-005	Thorium-230	1.11	0.569	0.381	pCi/L	J	F01, T04
SLA125889	PW46	03/09/10	ML-005	Thorium-232	0.0952	0.191	0.381	pCi/L	UJ	T06

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA125889	PW46	03/09/10	ML-015	Uranium-234	1291	221	0.18	pCi/L	=	
SLA125889	PW46	03/09/10	ML-015	Uranium-235	99.5	17.9	0.493	pCi/L	=	
SLA125889	PW46	03/09/10	ML-015	Uranium-238	1278	219	0.18	pCi/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Antimony	1.1		1.1	ug/L	J	F01
SLA125889	PW46	03/09/10	SW846 6020	Arsenic	1.2		0.95	ug/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Barium	73.4		0.2	ug/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Cadmium	0.12		0.055	ug/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Chromium	3		3.3	ug/L	U	
SLA125889	PW46	03/09/10	SW846 6020	Molybdenum	1		0.22	ug/L	J	F01
SLA125889	PW46	03/09/10	SW846 6020	Nickel	2.8		0.23	ug/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Selenium	46.1		0.31	ug/L	J	E07
SLA125889	PW46	03/09/10	SW846 6020	Thallium	0.77		0.55	ug/L	=	
SLA125889	PW46	03/09/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA127676	B53W06S	05/24/10	ML-006	Radium-226	1.86	1.55	2.16	pCi/L	U	T04, T05
SLA127676	B53W06S	05/24/10	ML-005	Thorium-228	0	0.286	0.592	pCi/L	UJ	T06
SLA127676	B53W06S	05/24/10	ML-005	Thorium-230	1	0.516	0	pCi/L	J	T04
SLA127676	B53W06S	05/24/10	ML-005	Thorium-232	0	0.231	0.382	pCi/L	UJ	T06
SLA127676	B53W06S	05/24/10	ML-015	Uranium-234	7.79	2.32	0.939	pCi/L	=	
SLA127676	B53W06S	05/24/10	ML-015	Uranium-235	0.403	0.558	0.968	pCi/L	UJ	T06
SLA127676	B53W06S	05/24/10	ML-015	Uranium-238	4	1.49	1	pCi/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Antimony	1.2		1.1	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Arsenic	2		0.95	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Barium	64		0.2	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Cadmium	0.43		0.055	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Chromium	51		3.3	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Molybdenum	6.4		0.22	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Nickel	5.5		0.23	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Selenium	3.6		0.31	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Thallium	0.64		0.55	ug/L	=	
SLA127676	B53W06S	05/24/10	SW846 6020	Vanadium	3.6		2.4	ug/L	=	
SLA127677	MW31-98	05/24/10	ML-006	Radium-226	-0.00001992	0.746	2	pCi/L	UJ	T06
SLA127677	MW31-98	05/24/10	ML-005	Thorium-228	-0.0296	0.156	0.497	pCi/L	UJ	T06
SLA127677	MW31-98	05/24/10	ML-005	Thorium-230	0.414	0.319	0.16	pCi/L	J	T04
SLA127677	MW31-98	05/24/10	ML-005	Thorium-232	-0.0295	0.0592	0.354	pCi/L	UJ	T06
SLA127677	MW31-98	05/24/10	ML-015	Uranium-234	3	1.29	0.547	pCi/L	=	
SLA127677	MW31-98	05/24/10	ML-015	Uranium-235	0	0	0.305	pCi/L	U	
SLA127677	MW31-98	05/24/10	ML-015	Uranium-238	2.45	1.06	0.246	pCi/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Antimony	1.2		1.1	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Arsenic	113		0.95	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Barium	474		0.2	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Cadmium	1		0.055	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
SLA127678	PW36	05/24/10	SW846 6020	Molybdenum	1.8		0.22	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Nickel	8.1		0.23	ug/L	=	
SLA127678	PW36	05/24/10	SW846 6020	Selenium	0.6		0.31	ug/L	=	

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA127678	PW36	05/24/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA127678	PW36	05/24/10	SW846 6020	Vanadium	4.4		2.4	ug/L	=	
SLA130590	B53W09S	09/09/10	ML-006	Radium-226	0	1.15	2.82	pCi/L	UJ	T06
SLA130590	B53W09S	09/09/10	ML-005	Thorium-228	0.0336	0.15	0.403	pCi/L	UJ	T06
SLA130590	B53W09S	09/09/10	ML-005	Thorium-230	0.538	0.389	0.182	pCi/L	J	F01, T04
SLA130590	B53W09S	09/09/10	ML-005	Thorium-232	0	0	0.182	pCi/L	U	
SLA130590	B53W09S	09/09/10	ML-015	Uranium-234	2.31	0.875	0.391	pCi/L	=	
SLA130590	B53W09S	09/09/10	ML-015	Uranium-235	0.0803	0.161	0.218	pCi/L	UJ	T06
SLA130590	B53W09S	09/09/10	ML-015	Uranium-238	2.01	0.797	0.176	pCi/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA130590	B53W09S	09/09/10	SW846 6020	Arsenic	1.1		0.95	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Barium	284		0.2	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Cadmium	0.23		0.055	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Chromium	6.8		3.3	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Molybdenum	5.3		0.41	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Nickel	41		0.4	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Selenium	6.9		1.3	ug/L	=	
SLA130590	B53W09S	09/09/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA130590	B53W09S	09/09/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA130591	B53W13S	09/09/10	ML-006	Radium-226	0.361	0.538	0.885	pCi/L	UJ	T06
SLA130591	B53W13S	09/09/10	ML-005	Thorium-228	1	0.391	0.196	pCi/L	J	T04
SLA130591	B53W13S	09/09/10	ML-005	Thorium-230	0.58	0.456	0.534	pCi/L	J	F01, T04
SLA130591	B53W13S	09/09/10	ML-005	Thorium-232	0	0.145	0.196	pCi/L	UJ	T06
SLA130591	B53W13S	09/09/10	ML-015	Uranium-234	6.34	1.72	0.187	pCi/L	=	
SLA130591	B53W13S	09/09/10	ML-015	Uranium-235	0.17	0.242	0.231	pCi/L	UJ	T06
SLA130591	B53W13S	09/09/10	ML-015	Uranium-238	5.22	1.5	0.186	pCi/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA130591	B53W13S	09/09/10	SW846 6020	Arsenic	2		0.95	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Barium	335		0.2	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Cadmium	0.28		0.055	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Chromium	63.2		3.3	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Molybdenum	3		0	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Nickel	53.1		0.4	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Selenium	64.6		1.3	ug/L	=	
SLA130591	B53W13S	09/09/10	SW846 6020	Thallium	1		0.55	ug/L	U	
SLA130591	B53W13S	09/09/10	SW846 6020	Vanadium	2		2.4	ug/L	U	
SLA130592	PW43	09/09/10	ML-006	Radium-226	0.607	0.806	1.31	pCi/L	UJ	T06
SLA130592	PW43	09/09/10	ML-005	Thorium-228	0.0322	0.144	0.386	pCi/L	UJ	T06
SLA130592	PW43	09/09/10	ML-005	Thorium-230	0.483	0.377	0.386	pCi/L	J	F01, T04
SLA130592	PW43	09/09/10	ML-005	Thorium-232	-0.0964	0.112	0.54	pCi/L	UJ	T06
SLA130592	PW43	09/09/10	ML-015	Uranium-234	2.87	1.1	0.644	pCi/L	=	
SLA130592	PW43	09/09/10	ML-015	Uranium-235	0.0472	0.211	0.567	pCi/L	UJ	T06
SLA130592	PW43	09/09/10	ML-015	Uranium-238	2.14	0.893	0.207	pCi/L	=	
SLA130592	PW43	09/09/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Arsenic	4.7		4.7	ug/L	U	

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA130592	PW43	09/09/10	SW846 6020	Barium	181		0.2	ug/L	=	
SLA130592	PW43	09/09/10	SW846 6020	Cadmium	0.055		0.055	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Chromium	16.3		16.3	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Molybdenum	2		2	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Nickel	12.7		2	ug/L	=	
SLA130592	PW43	09/09/10	SW846 6020	Selenium	6.5		6.5	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA130592	PW43	09/09/10	SW846 6020	Vanadium	11.8		11.8	ug/L	U	
SLA130587	PW44	09/13/10	ML-006	Radium-226	0.352	0.621	1.09	pCi/L	UJ	T06
SLA130587	PW44	09/13/10	ML-005	Thorium-228	0.309	0.28	0.167	pCi/L	J	T04
SLA130587	PW44	09/13/10	ML-005	Thorium-230	0	0.366	0.455	pCi/L	U	T04, T05
SLA130587	PW44	09/13/10	ML-005	Thorium-232	0	0	0.167	pCi/L	U	
SLA130587	PW44	09/13/10	ML-015	Uranium-234	0.401	0.371	0.437	pCi/L	U	T04, T05
SLA130587	PW44	09/13/10	ML-015	Uranium-235	0.0449	0.201	0.539	pCi/L	UJ	T06
SLA130587	PW44	09/13/10	ML-015	Uranium-238	0.544	0.428	0.435	pCi/L	J	T04
SLA130587	PW44	09/13/10	SW846 6020	Antimony	1		1.1	ug/L	U	
SLA130587	PW44	09/13/10	SW846 6020	Arsenic	2.1		0.95	ug/L	=	
SLA130587	PW44	09/13/10	SW846 6020	Barium	111		0.2	ug/L	=	
SLA130587	PW44	09/13/10	SW846 6020	Cadmium	0		0.055	ug/L	=	
SLA130587	PW44	09/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
SLA130587	PW44	09/13/10	SW846 6020	Molybdenum	3.3		0.41	ug/L	=	
SLA130587	PW44	09/13/10	SW846 6020	Nickel	4		0	ug/L	=	
SLA130587	PW44	09/13/10	SW846 6020	Selenium	1.3		1.3	ug/L	U	
SLA130587	PW44	09/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA130587	PW44	09/13/10	SW846 6020	Vanadium	2		2.4	ug/L	U	
SLA130588	PW45	09/13/10	ML-006	Radium-226	0	0.807	2.16	pCi/L	UJ	T06
SLA130588	PW45	09/13/10	ML-005	Thorium-228	0.409	0.419	0.624	pCi/L	UJ	T06
SLA130588	PW45	09/13/10	ML-005	Thorium-230	0.595	0.431	0.202	pCi/L	J	F01, T04
SLA130588	PW45	09/13/10	ML-005	Thorium-232	0	0	0.201	pCi/L	U	
SLA130588	PW45	09/13/10	ML-015	Uranium-234	2.75	1.03	0.439	pCi/L	=	
SLA130588	PW45	09/13/10	ML-015	Uranium-235	0	0	0.245	pCi/L	U	
SLA130588	PW45	09/13/10	ML-015	Uranium-238	1.9	0.816	0.198	pCi/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA130588	PW45	09/13/10	SW846 6020	Arsenic	0.95		0.95	ug/L	U	
SLA130588	PW45	09/13/10	SW846 6020	Barium	66.4		0.2	ug/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Cadmium	0.49		0.055	ug/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Chromium	3.3		3.3	ug/L	U	
SLA130588	PW45	09/13/10	SW846 6020	Molybdenum	172		0.41	ug/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Nickel	88.6		0.4	ug/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Selenium	16.2		1.3	ug/L	=	
SLA130588	PW45	09/13/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA130588	PW45	09/13/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA130589	PW46	09/14/10	ML-006	Radium-226	0.27	0.764	1.45	pCi/L	UJ	T06
SLA130589	PW46	09/14/10	ML-005	Thorium-228	0.173	0.202	0.157	pCi/L	J	T02
SLA130589	PW46	09/14/10	ML-005	Thorium-230	0.202	0.24	0.347	pCi/L	UJ	T06

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA130589	PW46	09/14/10	ML-005	Thorium-232	0	0.164	0.156	pCi/L	UJ	T06
SLA130589	PW46	09/14/10	ML-015	Uranium-234	166	28.9	0.179	pCi/L	=	
SLA130589	PW46	09/14/10	ML-015	Uranium-235	8.13	2.13	0.22	pCi/L	=	
SLA130589	PW46	09/14/10	ML-015	Uranium-238	161	28	0.178	pCi/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA130589	PW46	09/14/10	SW846 6020	Arsenic	1.1		0.95	ug/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Barium	71.1		0.2	ug/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Cadmium	0		0.055	ug/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Chromium	3		3.3	ug/L	U	
SLA130589	PW46	09/14/10	SW846 6020	Molybdenum	1.7		0.41	ug/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Nickel	3.1		0.4	ug/L	=	
SLA130589	PW46	09/14/10	SW846 6020	Selenium	1		1	ug/L	U	
SLA130589	PW46	09/14/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA130589	PW46	09/14/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA133117	B53W01D	12/14/10	ML-006	Radium-226	0	0.789	1.55	pCi/L	UJ	T06
SLA133117	B53W01D	12/14/10	ML-005	Thorium-228	0	0.238	0.466	pCi/L	UJ	T06
SLA133117	B53W01D	12/14/10	ML-005	Thorium-230	0.887	0.517	0.467	pCi/L	J	F01, T04
SLA133117	B53W01D	12/14/10	ML-005	Thorium-232	0	0	0.171	pCi/L	U	
SLA133117	B53W01D	12/14/10	ML-015	Uranium-234	0.391	0.405	0.576	pCi/L	UJ	T06
SLA133117	B53W01D	12/14/10	ML-015	Uranium-235	-0.0483	0.097	0.579	pCi/L	UJ	T06
SLA133117	B53W01D	12/14/10	ML-015	Uranium-238	0.117	0.235	0.467	pCi/L	UJ	T06
SLA133117	B53W01D	12/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA133117	B53W01D	12/14/10	SW846 6020	Arsenic	3.8		0.95	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Barium	97.9		0.2	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Cadmium	1.4		0.1	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Chromium	26.2		3.3	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Molybdenum	13.4		0.41	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Nickel	24.2		0.4	ug/L	=	
SLA133117	B53W01D	12/14/10	SW846 6020	Selenium	1.3		1.3	ug/L	UJ	E07
SLA133117	B53W01D	12/14/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA133117	B53W01D	12/14/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA133118	B53W13S	12/15/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA133118	B53W13S	12/15/10	SW846 6020	Arsenic	1		0.95	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Barium	343		0.2	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Cadmium	0.49		0.1	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Chromium	47.2		3.3	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Molybdenum	3		0.41	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Nickel	110		0.4	ug/L	=	
SLA133118	B53W13S	12/15/10	SW846 6020	Selenium	58.2		1.3	ug/L	J	E07
SLA133118	B53W13S	12/15/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA133118	B53W13S	12/15/10	SW846 6020	Vanadium	2.4		2.4	ug/L	U	
SLA133119	PW35	12/14/10	ML-006	Radium-226	0.225	0.901	2.09	pCi/L	UJ	T06
SLA133119	PW35	12/14/10	ML-005	Thorium-228	1	0.406	0.161	pCi/L	J	T04
SLA133119	PW35	12/14/10	ML-005	Thorium-230	0.387	0.326	0.357	pCi/L	J	F01, T04
SLA133119	PW35	12/14/10	ML-005	Thorium-232	0.149	0.216	0.357	pCi/L	UJ	T06

Table E-4. CY 2010 Ground-Water Sampling Data for the SLAPS and SLAPS VPs - Unfiltered

Site: SLAPS and SLAPS VPs										
Sample Name	Station Name	Sample Collection Date	Analytical Method	Analyte	Analytical Result	Measurement Error	Detection Limit	Units	Validation Qualifier	Validation Reason Code
SLA133119	PW35	12/14/10	ML-015	Uranium-234	0	0	0.211	pCi/L	U	
SLA133119	PW35	12/14/10	ML-015	Uranium-235	0	0.0964	0.576	pCi/L	UJ	T06
SLA133119	PW35	12/14/10	ML-015	Uranium-238	0.116	0.233	0.465	pCi/L	UJ	T06
SLA133119	PW35	12/14/10	SW846 6020	Antimony	1.1		1.1	ug/L	U	
SLA133119	PW35	12/14/10	SW846 6020	Arsenic	2		0.95	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Barium	73.9		0.2	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Cadmium	1.2		0.1	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Chromium	5.6		3.3	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Molybdenum	2.1		0.41	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Nickel	6.6		0.4	ug/L	=	
SLA133119	PW35	12/14/10	SW846 6020	Selenium	1.3		1.3	ug/L	UJ	E07
SLA133119	PW35	12/14/10	SW846 6020	Thallium	0.55		0.55	ug/L	U	
SLA133119	PW35	12/14/10	SW846 6020	Vanadium	5.1		2.4	ug/L	=	
SLA133120	PW36	12/14/10	ML-006	Radium-226	-0.101	0.201	1.21	pCi/L	UJ	T06
SLA133120	PW36	12/14/10	ML-005	Thorium-228	0.216	0.257	0.37	pCi/L	UJ	T06
SLA133120	PW36	12/14/10	ML-005	Thorium-230	0.495	0.357	0.168	pCi/L	J	F01, T04
SLA133120	PW36	12/14/10	ML-005	Thorium-232	0	0	0.167	pCi/L	U	
SLA133120	PW36	12/14/10	ML-015	Uranium-234	0.237	0.447	0.873	pCi/L	UJ	T06
SLA133120	PW36	12/14/10	ML-015	Uranium-235	0	0	0.396	pCi/L	U	
SLA133120	PW36	12/14/10	ML-015	Uranium-238	0	0	0.32	pCi/L	U	

APPENDIX F

CALCULATION OF THE ROD GROUND-WATER EVALUATION CRITERIA

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CALCULATION OF THE ROD GROUND-WATER MONITORING GUIDELINES

This appendix briefly outlines the methodology used to develop the ground-water monitoring guidelines for select wells and analytes at the NC Sites. The development of these guidelines was necessary to meet the requirements of response-action monitoring and long-term monitoring specified in the ROD (USACE 2005). These requirements are also identified in the EMICY10 (USACE 2010). The results of these calculations are used in the EMDAR to evaluate ground-water monitoring data at the Latty Avenue Properties and the SLAPS and SLAPS VPs for CY 2010.

Introduction

Response-action monitoring is conducted for HZ-A and HZ-C ground water at the NC Sites to assess the improvement of water quality due to source removals. For response-action monitoring, ground-water data is evaluated to determine if ground-water conditions have significantly degraded. Based on the ROD, a significantly degraded ground-water condition requires all of the following:

- 1) that soil COC concentrations have statistically increased in ground water (relative to the well's historic data and accounting for uncertainty) for more than a 12-month period. Significantly increased concentrations are defined as doubling of an individual COC concentration above the UCL of the mean (based on the historical concentration before remedial activity) for a period of 12 months;
- 2) that the degraded well is close enough to impact Coldwater Creek; and
- 3) that a significant degrading of Coldwater Creek surface water is anticipated.

In addition to the above requirements, the ROD specifies that the maximum contaminant level for total U of 30 $\mu\text{g/L}$ be used as a monitoring guideline for both the response-action and long-term monitoring of ground water. If ground-water monitoring indicates the presence of COCs at significantly increased concentrations and total U significantly above 30 $\mu\text{g/L}$, then an evaluation of potential response actions would be conducted.

Methodology

In order to evaluate ground water for significant degradation, the UCL must be calculated using the historical ground water data (i.e., data collected before remedial activity). The UCL is used to represent a historical average concentration for an analyte in a particular well. EPA's *Supplemental Guidance to RAGS: Calculating the Concentration Term* (USEPA 1992) states that, "because of the uncertainty associated with estimating the true average concentration at a site, the UCL₉₅ of the arithmetic mean should be used for this variable." Based on the above guidance, a 95 percent confidence interval was used in the UCL calculations.

Consistent with the ROD, UCL₉₅ values for the soil COCs are used in the 2010 EMDAR to evaluate if concentrations have statistically increased in ground water for more than a 12-month period. The soil COCs defined in the ROD include antimony, arsenic, barium, cadmium, chromium, molybdenum, nickel, selenium, thallium, total U, vanadium, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-234, U-235, and U-238. Because the SLAPS well PW46 is a replacement well, pre-2006 data from PW38 was used to develop the ground-water monitoring guideline to compare with the PW46 results. PW46 was installed in April 2006 near the former location of PW38 and is screened across the same interval. For wells located in areas where a

response action has been taken, significant degradation is defined as occurring if the concentration of any COC in a recent sample from that well is double its UCL_{95} , and the total U is significantly above 30 $\mu\text{g/L}$. The ROD ground-water monitoring guideline for the soil COC for a particular well is defined as equivalent to two times the UCL_{95} value.

The dataset used for this evaluation was reduced prior to performing the statistical analysis. Filtered data, results qualified with an “R” designation, and QC samples were removed from each of the data sets. The analytical result was used where the data qualifier was assigned an “=” or a “J”. For nondetect chemical data (i.e., the data qualifier was assigned a “U” or “UJ”), the value used in the UCL_{95} calculation was half the DL. For nondetect radiological data, the reported value was used except in cases in which the value reported was negative. In those cases, a value of zero was substituted for the negative value.

Results

The USEPA software package ProUCL (Version 4.0) was used to calculate the UCL_{95} value. ProUCL computes parametric UCLs (for normal, lognormal, and gamma distributions) and nonparametric UCLs using several nonparametric methods (USEPA 2004). Based upon the data distribution and the associated skewness, ProUCL performs and recommends the appropriate UCL.

The UCL_{95} values are those recommended by ProUCL with the following exceptions:

- If the calculated UCL_{95} exceeded the maximum detected value, then the maximum detected value was used, as recommended in USEPA’s *Risk Assessment Guidance for Superfund Volume 1 Human Health Evaluation Manual (Part A)* (USEPA 1989d).
- If there were no detected values for the COC in the historical database for that well, then the UCL_{95} was not determined. If there were only one detected value of the COC, then the detected value was used.

The ground-water monitoring guidelines based on these UCL_{95} values are listed in Tables F-1 and F-2 for the Latty Avenue Properties and the SLAPS and SLAPS VPs, respectively.

Table F-1. ROD Monitoring Guidelines for Ground Water at the Latty Avenue Properties

Analyte Type	Soil COCs	HISS-01	HISS-05D	HISS-06	HISS-09	HISS-10	HISS-14	HISS-15
Inorganics (ug/L)	Antimony	12	---	---	---	---	---	7
	Arsenic	---	46	---	---	---	---	---
	Barium	250	1300	240	420	270	1080	400
	Cadmium	---	6.0	---	---	1.4	---	2.8
	Chromium	13	4.2	2.2	---	2.4	---	2.6
	Molybdenum	23	9.4	40	22	5.6	---	13
	Nickel	20	35	34	21	3.8	11	29
	Selenium	570	---	770	19	7.6	610	41
	Thallium	4.6	5.6	---	---	---	5.8	---
	Total Uranium	30	30	30	30	30	30	30
	Vanadium	37	---	31	17	16	250	15
Radionuclides (pCi/L)	Ra-226	5.3	3.8	---	---	---	4.2	3.0
	Th-228	1.9	4.0	2.4	3.2	3.4	2.0	6.5
	Th-230	4.2	3.4	7.0	7.4	6.0	21	4.8
	Th-232	---	---	1.8	---	0.2	---	---
	U-234	12	1.4	32	1.8	6.6	14	2.9
	U-235	---	---	4.2	---	---	---	---
	U-238	13	6.2	31	1.4	5.2	11	1.6

Table F-1. ROD Monitoring Guidelines for Ground Water at the Latty Avenue Properties

Analyte Type	Soil COCs	HISS-17S	HISS-18S	HISS-19S	HW21	HW22	HW23
Inorganics (ug/L)	Antimony	---	---	7.4	---	---	4.6
	Arsenic	---	6.6	510	6.8	2.4	320
	Barium	500	410	1200	3700	460	810
	Cadmium	---	---	---	2.8	1.6	3.4
	Chromium	12	---	3.0	7.0	9.0	8.1
	Molybdenum	16	---	10	5.6	3.4	26
	Nickel	30	39	7.0	44	7.0	12
	Selenium	250	---	---	110	17	---
	Thallium	---	---	8.0	6.2	---	5.4
	Total Uranium	30	30	30	30	30	30
	Vanadium	18	16	4.4	12	4.0	6.4
Radionuclides (pCi/L)	Ra-226	5.7	5.5	2.5	8.4	11	2.4
	Th-228	2.4	3.2	10	4.2	1.8	2.6
	Th-230	3.8	5.8	12	5.2	3.8	5.2
	Th-232	---	1.9	---	---	---	1.0
	U-234	8.2	8.2	---	24	6.4	3.8
	U-235	---	---	---	2.0	---	---
	U-238	5.6	3.7	---	16	5.4	3.2

Notes:

Ground-Water Monitoring Guideline = 2 x UCL₉₅

Total U monitoring guide = 30 ug/L.

--- The analyte was not detected in the historical database so a monitoring guideline was not developed.

Table F-2. ROD Monitoring Guidelines for Ground Water at the SLAPS and SLAPS VPs

Analyte Type	Soil COCs	B53W01D	B53W01S	B53W06S	B53W07D	B53W07S	B53W09S	B53W13S	B53W17S	B53W18S
Inorganics (ug/L)	Antimony	---	---	105	5.0	---	---	---	---	---
	Arsenic	170	---	---	150	140	---	---	---	3.6
	Barium	840	390	190	730	530	630	510	450	1200
	Cadmium	---	---	---	---	---	---	---	8.8	---
	Chromium	7.2	15	47	5.6	11	9.6	9.1	7.0	51
	Molybdenum	---	---	22	4.0	4.4	14	3.2	21	28
	Nickel	---	30	16	12	5.2	83	38	5.2	910
	Selenium	---	---	---	4.0	5.2	700	790	140	---
	Thallium	---	8.0	---	7.4	---	---	7.0	---	---
	Total Uranium	30	30	30	30	30	30	30	30	30
	Vanadium	19	44	48	12	17	24	---	83	54
Radionuclides (pCi/L)	Ra-226	4.4	---	3.8	3.4	7.2	2.5	---	---	7.2
	Th-228	1.6	1.0	1.5	---	2.2	3.0	4.4	3.8	7.0
	Th-230	5.8	2.9	3.9	4.4	4.0	5.0	6.0	5.6	8.0
	Th-232	---	---	---	---	---	---	---	---	1.4
	U-234	3.4	8.2	66	3.6	11	18	13	5.4	4.5
	U-235	---	---	2.9	---	---	6.1	---	4.4	---
	U-238	2.7	2.7	57	4.6	8.2	13	10	4.2	3.4

Table F-2. ROD Monitoring Guidelines for Ground Water at the SLAPS and SLAPS VPs

Analyte Type	Soil COCs	B53W19S	MW31-98	MW32-98	PW35	PW36	PW42	PW43	PW44	PW45	PW46 ^a
Inorganics (ug/L)	Antimony	---	---	---	---	---	---	---	---	---	---
	Arsenic	36	---	5.8	90	220	280	53	13	---	7.0
	Barium	510	1300	700	3300	1500	670	260	260	610	250
	Cadmium	0.7	3.8	3.8	0.6	---	0.8	---	---	---	1.2
	Chromium	290	4.6	5.6	16	3.2	52	3.5	---	---	37
	Molybdenum	130	35	3.0	32	8.0	6.0	6.4	12	1500	2.2
	Nickel	1100	7.8	4.0	35	13	28	3.6	---	67	3.4
	Selenium	4.2	390	740	2.8	3.8	---	---	---	7200	710
	Thallium	7.7	---	9.8	7.4	14	7.6	---	---	---	---
	Total Uranium	30	30	30	30	30	30	30	30	30	30
	Vanadium	36	110	54	35	13	12	3.1	---	---	67
Radionuclides (pCi/L)	Ra-226	1.4	3.4	1.6	8.0	2.0	4.0	6.1	1.8	2.4	22
	Th-228	5.2	4.6	1.4	2.6	2.6	1.6	2.4	3.4	2.5	2.1
	Th-230	6.0	4.0	4.0	4.1	3.6	3.4	2.6	12	5.8	60
	Th-232	2.2	---	0.4	2.3	---	---	---	---	---	7.0
	U-234	2.4	7.0	21	4.3	3.2	9.0	29	4.7	79	5500
	U-235	---	5.9	9.4	---	---	---	2.2	---	3.0	290
	U-238	1.8	5.7	19	4.7	4.9	6.6	26	3.4	64	5600

Notes:

Ground-Water Monitoring Guideline = 2 x UCL₉₅

Total U monitoring guide = 30 ug/L.

--- The analyte was not detected in the historical database so a monitoring guideline was not developed.

^a The ROD Evaluation Criteria for PW46 were calculated using historical data from a well previously at this location (PW38).

APPENDIX G

DOSE ASSESSMENT ASSUMPTIONS

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DOSE ASSESSMENT ASSUMPTIONS

A. Dose from the Latty Avenue Properties to a Maximally Exposed Individual

A full-time-employee business receptor was evaluated to determine the maximally exposed individual from Latty Avenue Properties, because the remedial action work conducted on Latty Avenue Properties occurred in the vicinity of the receptor. The business receptor worked full-time outside of the facility, located approximately 50 m west of the HISS perimeter and 110 m from the center of the HISS. Exposure time was 2,000 hours per year (250 days per year).

Gamma radiation and radon exposure measured at the HISS perimeter fence line assumes that a hypothetical member of the public would be at the same location 24 hours per day, 365 days per year. Off-site dose to the nearest member of the public is dependent upon the member's proximity to the gamma source and amount of time spent at the affected site. A more realistic approach to project dose is to evaluate members of the public as either residence-based or off-site-worker-based receptors. A residence-based off-site exposure assumes a 100 percent occupancy rate at a given location. There are no public areas or residences near the HISS; therefore, exposure to a residence-based receptor is greatly reduced due to the distance relative to the site. An off-site-worker exposure assumes that a worker's occupancy rate is 23 percent, based on 8 hours per day, 5 days per week, and 50 weeks per year. The off-site-worker-based receptor is a more realistic choice to represent the hypothetical maximally exposed individual because of the proximity of the receptor. 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 one exposed individual who works full time (2,000 hours per year) at a location approximately 50 m west of the HISS perimeter and 110 m from the center of the HISS.

1. Airborne Radioactive Particulates

An EDE of 3.0 mrem/yr to the receptor was calculated by using activity fraction and air particulate monitoring data to determine a source term, and then using the USEPA CAP88-PC modeling code to calculate dose to the receptor at 50 m west of the HISS (SAIC 2011a). Details related to calculation of EDEs for the exposed receptors are presented in Appendix A.

2. External Gamma Pathway

Data collected from stations HA-1 and HA-2 was used to calculate external gamma dose to the respective receptor. Appendix C presents the TLD results at all stations and background for HISS.

Stations HA-1 and HA-2 TLDs measured annual exposures above background of 1 mrem/yr and 0 mrem/yr, respectively, 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).

$$H_1 = \frac{(1 + 0) \text{ mrem/yr}}{2} = 0.5 \text{ mrem/yr}$$

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

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

$$H_2 = 0.009 \text{ mrem/yr}$$

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 = 70 m

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

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

$$H_{MEI} = 0.002 \text{ mrem/yr}$$

3. Airborne Radon Pathway

Data collected from stations HA-1 and HA-2 was used to determine dose due to radon and progeny. Appendix D presents the radon results at all stations.

Stations HA-1 and HA-2 ATDs measured above background annual exposures of 0.05 pCi/L and 1 pCi/L, respectively, based on 8,760 hours of continuous detector exposure. Exposure to the receptor from radon (and progeny) was estimated using a dispersion factor (C_2) and the average ATD monitoring data (S_1) at the site perimeter between the source and the receptor (SAIC 2011a).

The average of ATD measurement at the site perimeter (S_1) was calculated as follows:

$$S_1 = \left[\frac{(0.05 + 0) \text{ pCi/L}}{2} \right] = 0.03 \text{ pCi/L}$$

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

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

$$S_{MEI} = 0.03 \text{ pCi/L} \times 0.0005 \frac{\text{WL}}{\text{pCi/L}} \times 1,250 \frac{\text{mrem}}{\text{WLM}} \times \frac{2,000 \text{ hours}}{\text{yr}} \times \frac{1 \text{ month}}{170 \text{ hours}} \times 0.81 = 0.2 \text{ mrem/yr}$$

where:

- S_{MEI} = Radon exposure to the hypothetical maximally exposed individual
 S_1 = Fenceline average of ATD measurements between source and receptor
 F = Equilibrium fraction of 0.05 WL per 100 pCi/L (DOE 1998)
 DCF = Dose Conversion Factor (USEPA 1989b) = 1250 mrem/WLM
 T = Exposure time for the hypothetical maximally exposed receptor
 C_1 = Occupancy factor constant = one month per 170 hours
 C_2 = Constant derived using CAP-88PC Version 2, the Lambert Airport wind file (assuming a distance of 50 m), and an impacted surface area of 22,000 square meters. Calculation assumes a 1 Ci/year radon release rate and then ratios the concentrations at 1 meters and 50 m to determine the constant.
 WL = working level (concentration unit)
 WLM = working level month (exposure unit)

4. Total Effective Dose Equivalent

TEDE = CEDE (airborne particulates) + H_{MEI} (external gamma) + S_{MEI} (airborne radon)

$$TEDE = 3.0 \text{ mrem/yr} + <0.1 \text{ mrem/yr} + 0.1 \text{ mrem/yr} = 3.1 \text{ mrem/yr}$$

B. Dose from the St. Louis Airport Site and St. Louis Airport Site Vicinity Properties to a Maximally Exposed Individual

As at the Latty Avenue Properties, the off-site-worker-based receptor is a more realistic choice to represent the hypothetically maximally exposed individual because of the proximity of the receptor, approximately 500 m west-southwest of the center of the SLAPS load out area, and the time the individual will spend at this location. Thus, a more 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 500 meters west-southwest of the center of the SLAPS load out area.

1. Airborne Radioactive Particulates

An EDE of <0.1 mrem/yr to the receptor was calculated by using activity fraction and air particulate monitoring data to determine a source term, and then using the USEPA CAP88-PC modeling code to calculate dose to the receptor at 500 meters west-southwest of the center of the SLAPS load out area (SAIC 2011b). Details related to calculation of EDEs for the exposed receptors are presented in Appendix A.

2. External Gamma Pathway

Because station PA-1 was the closest to the receptor, the TLD results from this station was used for the dose calculations. Station PA-1 TLDs measured an annual exposure, above background, of 5 mrem/yr based on 8,760 hours of continuous detector exposure. The dose equivalent 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).

$$H_1 = 5 \text{ mrem/yr}$$

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

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

$$H_2 = 0.001 \text{ mrem/yr}$$

where:

H_2 = exposure rate to the receptor (continuous exposure)

H_1 = exposure rate to TLDs

h_2 = distance from source to receptor = 500 m

h_1 = distance from source to TLDs = 1.6 m

L = average distance from centerline of the line source (H_1) to the end of the line source = 50 m

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

$$H_{MEI} = H_2 \times \frac{2,000 \text{ hours per work year}}{8,760 \text{ hours per total year}} = 0.0003 \text{ mrem/yr}$$

$$H_{MEI} = <0.1 \text{ mrem/yr}$$

3. Airborne Radon Pathway

Station PA-1 ATDs measured an above background annual exposure of 0 pCi/L based on 8,760 hours of continuous detector exposure. Exposure to the receptor from radon (and progeny) was estimated using a dispersion factor (C_2) and the average ATD monitoring data (S_1) at the site perimeter between the source and the receptor (SAIC 2011b).

$$S_1 = 0 \text{ pCi/L}$$

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

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

$$S_{MEI} = 0 \text{ pCi/L} \times 0.0005 \frac{\text{WL}}{\text{pCi/L}} \times 1,250 \frac{\text{mrem}}{\text{WLM}} \times \frac{2,000 \text{ hours}}{\text{yr}} \times \frac{1 \text{ month}}{170 \text{ hours}} \times 0.00436 = 0 \text{ mrem/yr}$$

where:

S_{MEI} = Radon exposure to the hypothetical maximally exposed individual.

S_1 = Fenceline average of ATD measurements between source and receptor

F = Equilibrium fraction of 0.05 WL per 100 pCi/L (DOE 1998)

DCF = Dose Conversion Factor (USEPA 1989b) = 1250 mrem/WLM

T = Exposure time = 2,000 hours/year

C_1 = Occupancy factor constant = 1 month per 170 hours

C_2 = Constant derived using CAP-88PC Version 2.0, the Lambert Airport wind file (assuming a distance of 160 m), and an impacted surface area of 1,800 square

meters. Calculation assumes a 1 Ci/year radon release rate and then ratios the concentrations at 1 m and 160 m to determine the constant.

WL = working level (concentration unit)

WLM = working level month (exposure unit)

4. Total Effective Dose Equivalent

TEDE = CEDE (airborne particulates) + H_{MEI} (external gamma) + S_{MEI} (airborne radon)

$$TEDE = <0.1 \text{ mrem/yr} + <0.1 \text{ mrem/yr} + 0 \text{ mrem/yr} = <0.1 \text{ mrem/yr}$$

C. **Dose from Coldwater Creek to a Maximally Exposed Individual**

The following dose assessment is for a maximally exposed individual who is assumed to be a youth that spends time at Coldwater Creek for recreational purposes.

1. Contaminated Water Ingestion (SAIC 2011c)

The UCL_{95} values of the average contamination values measured in Coldwater Creek in 2010 at each monitoring station (Table G-2) were used to calculate the EDE to the receptor from an intake of contaminated water. Assumptions are as follows:

The receptor visits Coldwater Creek as a recreational user once every two weeks (26 visits/year) and the receptor drinks 2 Liters per day of contaminated water from the creek during each visit (USEPA 1989a).

The TEDE due to ingestion of surface water ($TEDE_w$) was calculated as follows:

$$TEDE_w = \Sigma (TEDE_{Tot-U}, TEDE_{Th-228}, TEDE_{Th-230}, TEDE_{Th-232}, TEDE_{Ra-226}, TEDE_{Ra-228})$$

$$TEDE_i = (UCL_{95}) \text{ pCi/Liter} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times DCF \text{ mrem/pCi}$$

DCFs (USEPA 1989b) for radionuclides present in Coldwater Creek surface water are presented in Table G-1.

Table G-1. Radionuclide DCF

Radionuclides	DCF	Unit
Total U	2.50E-5	mrem/pCi
Th-228	3.96E-4	mrem/pCi
Th-230	5.48E-4	mrem/pCi
Th-232	2.73E-3	mrem/pCi
Ra-226	1.33E-3	mrem/pCi

USEPA's software ProUCL Version 3.0 was used to determine the UCL_{95} values for radiological contaminants present in Coldwater Creek water (SAIC 2011c). The UCL_{95} values are presented in Table G-2.

Table G-2. UCL₉₅ Values for Radionuclides

Radionuclides	UCL ₉₅ Concentration	Unit
Total U	2.80	pCi/L
Th-228	0.59	pCi/L
Th-230	0.57	pCi/L
Th-232	0.39	pCi/L
Ra-226	1.64	pCi/L

Therefore,

$$\begin{aligned} \text{TEDE}_{\text{Tot-U}} &= 2.80 \text{ pCi/L} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times 2.50\text{E-}5 \text{ mrem/pCi} \\ &= 3.6\text{E-}3 \text{ mrem/yr} \end{aligned}$$

$$\begin{aligned} \text{TEDE}_{\text{Th-228}} &= 0.59 \text{ pCi/L} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times 3.96\text{E-}4 \text{ mrem/pCi} \\ &= 1.2\text{E-}2 \text{ mrem/yr} \end{aligned}$$

$$\begin{aligned} \text{TEDE}_{\text{Th-230}} &= 0.57 \text{ pCi/L} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times 5.48\text{E-}4 \text{ mrem/pCi} \\ &= 1.6\text{E-}2 \text{ mrem/yr} \end{aligned}$$

$$\begin{aligned} \text{TEDE}_{\text{Th-232}} &= 0.39 \text{ pCi/L} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times 2.73\text{E-}3 \text{ mrem/pCi} \\ &= 5.5\text{E-}2 \text{ mrem/yr} \end{aligned}$$

$$\begin{aligned} \text{TEDE}_{\text{Ra-226}} &= 1.64 \text{ pCi/L} \times 2.0 \text{ Liters/day} \times 26 \text{ days/year} \times 1.33\text{E-}3 \text{ mrem/pCi} \\ &= 1.1\text{E-}1 \text{ mrem/yr} \end{aligned}$$

$$\text{TEDE}_{\text{W}} = 0.2 \text{ mrem/yr}$$

2. Contaminated Sediment Ingestion (SAIC 2011c)

The UCL₉₅ values of the average contamination values measured in Coldwater Creek in 2010 at each monitoring station (Table G-4) were used to calculate the EDE to the receptor from an intake of contaminated sediment. Assumptions are as follows:

The receptor visits Coldwater Creek as a recreational user once every two weeks (26 visits/year). The receptor ingests 50 milligrams per day of contaminated sediment from the creek during each visit (USEPA 1989a).

The TEDE due to ingestion of contaminated sediment (TEDE_S) was calculated as follows:

$$\text{TEDE}_{\text{S}} = \Sigma (\text{TEDE}_{\text{Tot-U}}, \text{TEDE}_{\text{Th-228}}, \text{TEDE}_{\text{Th-230}}, \text{TEDE}_{\text{Th-232}}, \text{TEDE}_{\text{Ra-226}}, \text{TEDE}_{\text{Ra-228}})$$

$$\text{TEDE}_i = (\text{UCL-95}) \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times \text{DCF mrem/pCi}$$

Dose Conversion Factors (DCF) (USEPA 1989b) for radionuclides present in Coldwater Creek sediment are presented in Table G-3.

Table G-3. Radionuclide DCFs

Radionuclides	DCF	Unit
Total U	2.50E-5	mrem/pCi
Th-228	3.96E-4	mrem/pCi
Th- 230	5.48E-4	mrem/pCi
Th-232	2.73E-3	mrem/pCi
Ra-226	1.33E-3	mrem/pCi
Ra-228	1.44E-3	mrem/pCi

USEPA's software ProUCL Version 3.0 was used to determine UCL₉₅ values for radiological contaminants present in Coldwater Creek sediment (SAIC 2011c). The UCL₉₅ values are presented in Table G-4.

Table G-4. UCL-95 Values for Radionuclide

Radionuclides	UCL ₉₅ Concentration	Unit
Total U	2.46	pCi/g
Th-228	0.95	pCi/g
Th-230	6.30	pCi/g
Th-232	0.83	pCi/g
Ra-226	1.64	pCi/g
Ra-228	0.77	pCi/g

Therefore,

$$\text{TEDE}_{\text{Tot-U}} = 2.46 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 2.50\text{E-}5 \text{ mrem/pCi} \\ = 8.0\text{E-}5 \text{ mrem/yr}$$

$$\text{TEDE}_{\text{Th-228}} = 0.95 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 3.96\text{E-}4 \text{ mrem/pCi} \\ = 4.9\text{E-}4 \text{ mrem/yr}$$

$$\text{TEDE}_{\text{Th-230}} = 6.30 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 5.48\text{E-}4 \text{ mrem/pCi} \\ = 4.5\text{E-}3 \text{ mrem/yr}$$

$$\text{TEDE}_{\text{Th-232}} = 0.83 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 2.73\text{E-}3 \text{ mrem/pCi} \\ = 3.0\text{E-}3 \text{ mrem/yr}$$

$$\text{TEDE}_{\text{Ra-226}} = 1.64 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 1.33\text{E-}3 \text{ mrem/pCi} \\ = 2.8\text{E-}3 \text{ mrem/yr}$$

$$\text{TEDE}_{\text{Ra-228}} = 0.77 \text{ pCi/g} \times 0.05 \text{ g/d} \times 26 \text{ days/year} \times 1.44\text{E-}3 \text{ mrem/pCi} \\ = 1.4\text{E-}3 \text{ mrem/yr}$$

$$\text{TEDE}_S = 0.012 \text{ mrem/yr}$$

3. Total Effective Dose Equivalent

$$\text{TEDE} = \text{TEDE}_W + \text{TEDE}_S$$

$$\text{TEDE} = 0.2 \text{ mrem/yr} + 0.012 \text{ mrem/yr} = 0.3 \text{ mrem/yr}$$

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