

2.0 AMBIENT AIR MONITORING

Air samplers are located primarily at or near (within approximately 500 m [1,600 ft]) sites and/or facilities having the potential for, or history of, environmental releases, with emphasis on potential source terms as well as prevailing wind direction. Meteorological conditions are monitored continuously by the Pacific Northwest National Laboratory (PNNL) meteorology stations, which are strategically positioned in and around the Hanford Site.

For 2003, a network of continuously operating samplers at 82 locations (Table 2-1) sampled radioactivity in air. Location-specific maps are illustrated in Figures 2-1 through 2-11. Historical air sampling results for the 100-K, 100-N, 200 and 300 Areas are represented in graph form in Figures 2-12 through 2-23. A summary of ambient air sampling results for selected radionuclides collected during 2003 is presented in Table 2-2. The 2003 composited, sampler-specific monitoring results are provided in Table 2-3. Additional discussion of the 2003 results can be found in Section 3.2 of PNNL-14687.

Strontium-90 in air results for this report period show overall lower values compared to historical trends. This was primarily due to changes in laboratory background correction calculations that were implemented in 2003. Both historical and current values are within accepted statistical ranges as evidenced by laboratory QA and performance evaluation programs.

Several PNNL ambient air monitoring stations were utilized to provide additional information for several ERC remediation projects. The projects and the associated PNNL stations are the 100-B/C, 100-F, 100-KR-1 and 100-NR-1 remedial action projects (PNNL station "Yakima Barricade"), 300-FF-1&2 remedial action project (PNNL stations "300NE," "300 Trench" and "300 Water Intake"), and the Environmental Restoration Disposal Facility (ERDF) project (PNNL station "200 West SE"). The 2003 air monitoring results for these locations can be found in Table 2-4.

Air monitoring within the 300 and 400 Areas was performed by PNNL as part of the Site Surface Environmental Surveillance Project. Data acquired are reviewed by Near-Facility Monitoring personnel. A more detailed discussion of these results is provided in PNNL-14687, Section 4.1, "Air Surveillance."

Near-facility environmental air samplers operate at a flow rate of 0.057 m³/min (2 ft³/min), drawing a sample through a 47 mm (2 in.), open-faced filter about 2 m (6 ft) aboveground. All sample filters are exchanged biweekly, held one week (to allow for decay of short-lived natural radioactivity), and then sent to the analytical laboratory for initial analysis of total alpha and total beta activity. These initial analyses serve as an indicator of potential environmental problems.

Depending on project/facility requirements, the filters were stored until the end of either a three- or six-month sample period, then segregated and composited by sample location for specific radionuclide analysis as shown in Table 2-1. Segregating and compositing air filters by

site provides a larger sample size and, thus, a more sensitive and accurate measurement of the concentration of airborne radionuclides.

To help assess the impact of Site operations, monitoring results are compared to DOE derived concentration guides (DCGs), to the results obtained from the distant communities of Yakima and Sunnyside as reported by PNNL Site Environmental Surveillance Program, and to data acquired from collocated sampling locations managed by Near-Facility Monitoring, PNNL and the Washington State Department of Health (WDOH). Collocated sampling results are used for comparability and precision of data.

Table 2-1. Near-Facility Air Sampling Locations and Analyses, 2003.

Site	Number of samplers	EDP code ^a	Analyses	
			Bi-weekly	Composite ^b
100-B/C Remedial Action project	5	N464, N465, N466, N496, N497	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
118-C-4 Decommissioning project	1	N536	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
105-D Interim Safe Storage project	1	N523	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
105-DR Interim Safe Storage project	2	N492, N515	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
105-F Interim Safe Storage project	2	N494, N495	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
105-F Remedial Action project	4	N519, N520, N521, N522	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
105-H Interim Safe Storage project	2	N524, N525	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
100-K Spent Nuclear Fuels	8	N401, N402, N403, ^c N404, N476, N477, N478, N479	Gross α , β	GEA, Sr-90, Pu-iso, U-iso, Pu-241, Am-241
100-KR-1 Remedial Action project	3	N528, N529, N530	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
100-NR-1 Remedial Action project and 100-N Surveillance and Maintenance/Transition project	5	N102, N103, N105, N106, N526	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
200 East Area	17	N019, N158, N498, N499, N957, N967, N968, N969, N970, N972, N973, N976, N977, N978, N984, ^c N985, N999	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
Canister Storage Building (200 East Area)	2	N480, N481	Gross α , β	GEA, Sr-90, Pu-iso, U-iso, Pu-241, Am-241
200 West Area	21	N155, N161, N165, N168, N200, N304, N433, N441, N442, N449, N456, N457, N956, N963, N964, N965, N966, N974, N975, N987, N994	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
300-FF-1&2 Remedial Action projects	5	N130, N485, N486, N487, N527	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
Environmental Restoration Disposal Facility	3	N482, ^c N517, N518,	Gross α , β	GEA, Sr-90, Pu-iso, U-iso
600 Area	1	N981 ^d	Gross α , β	GEA, Sr-90, Pu-iso, U-iso

^aEDP Code = Sampler location code.

^bGEA = Gamma energy analysis; Pu-iso = isotopic plutonium-238 and plutonium-239/240; U-iso = isotopic uranium-234, uranium-235, and uranium-238.

^cCollocated sampling location with Washington State Department of Health (WDOH).

^dCollocated sampling location with WDOH and Pacific Northwest National Laboratory.

2-3

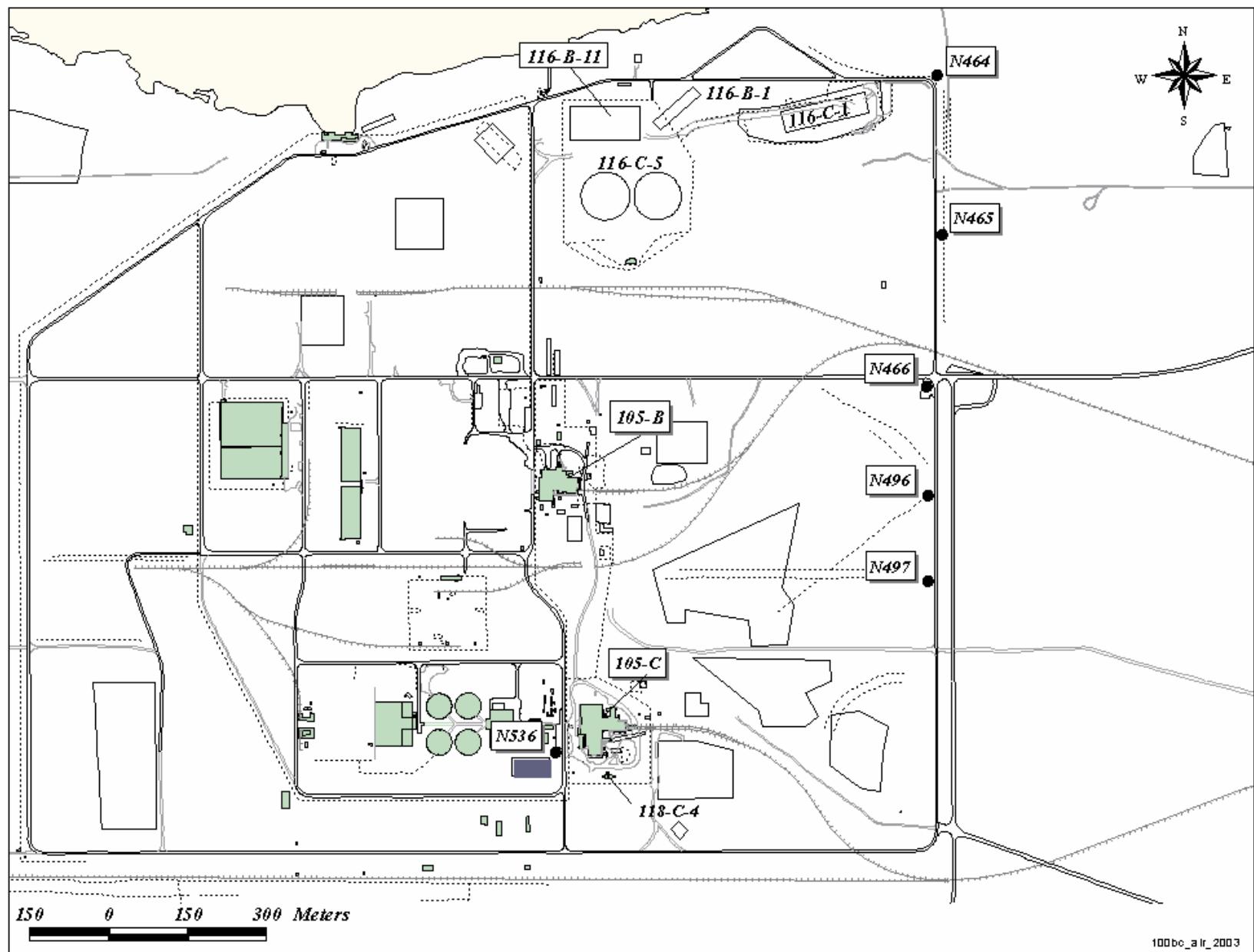
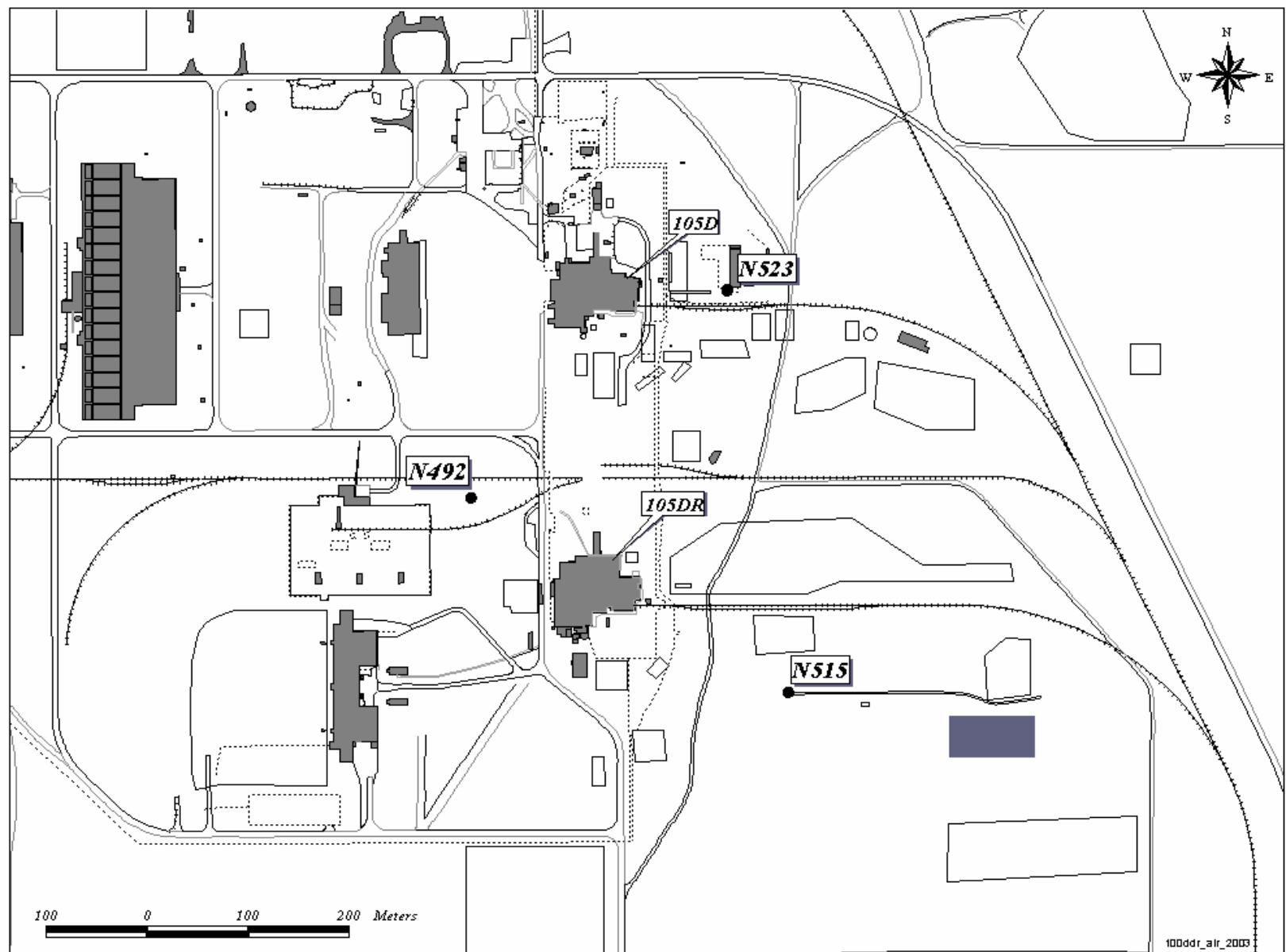


Figure 2-1. 100-B/C Area Air Sampler Locations.

Figure 2-2. 100-D/DR Area Air Sampler Locations.



2-5

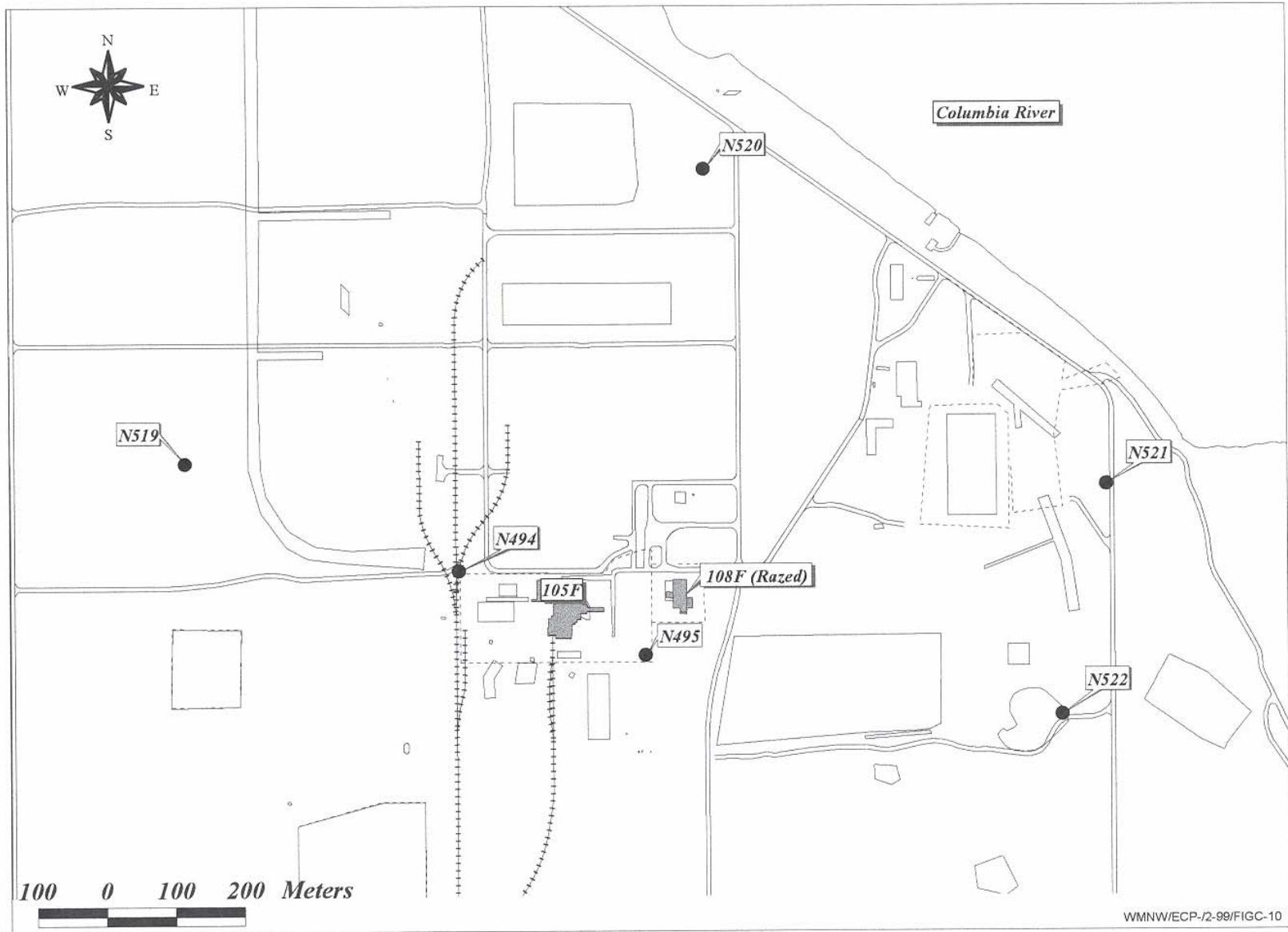
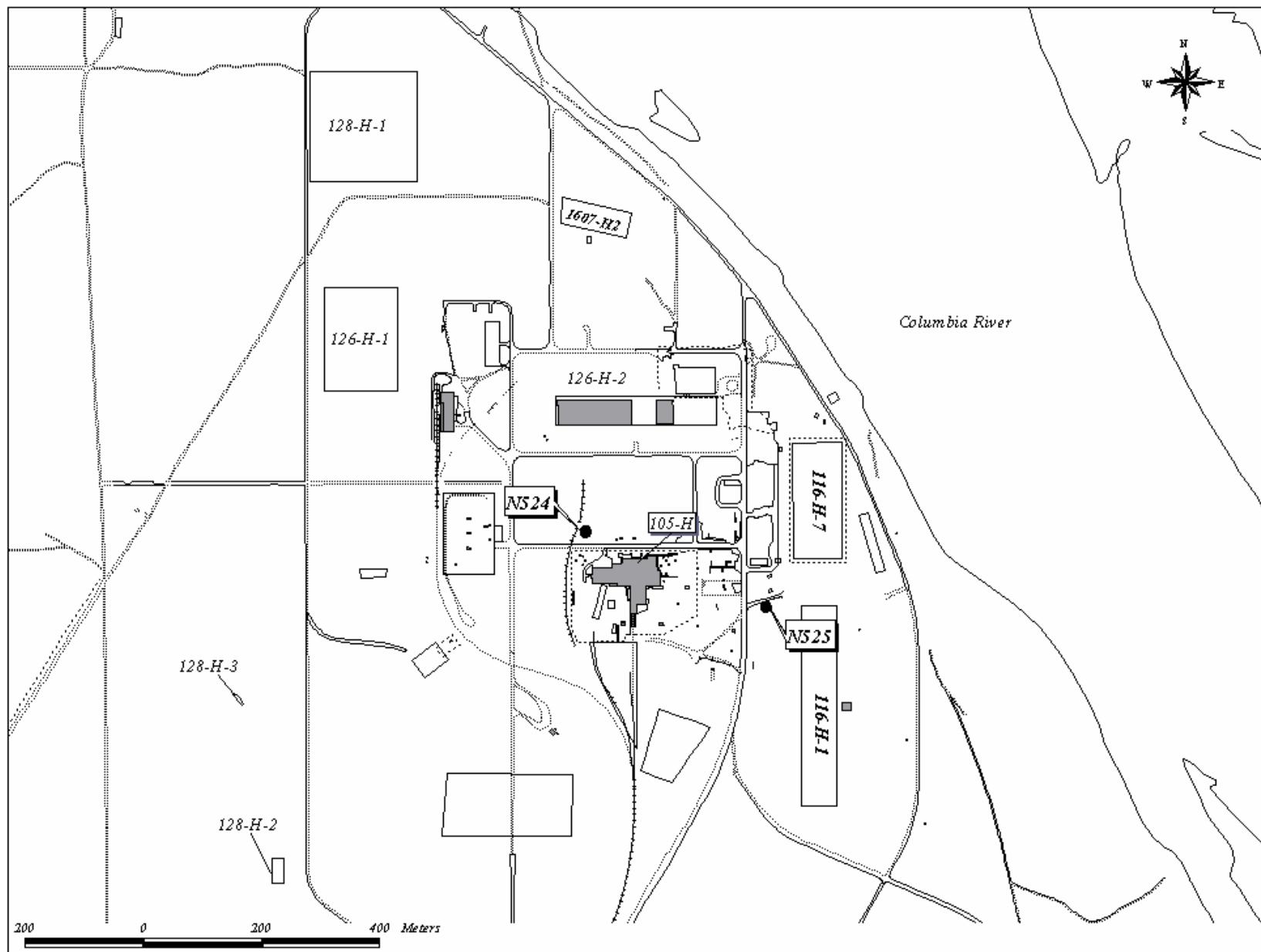


Figure 2-3. 100-F Area Air Sampler Locations.

Figure 2-4. 100-H Area Air Sampler Locations.



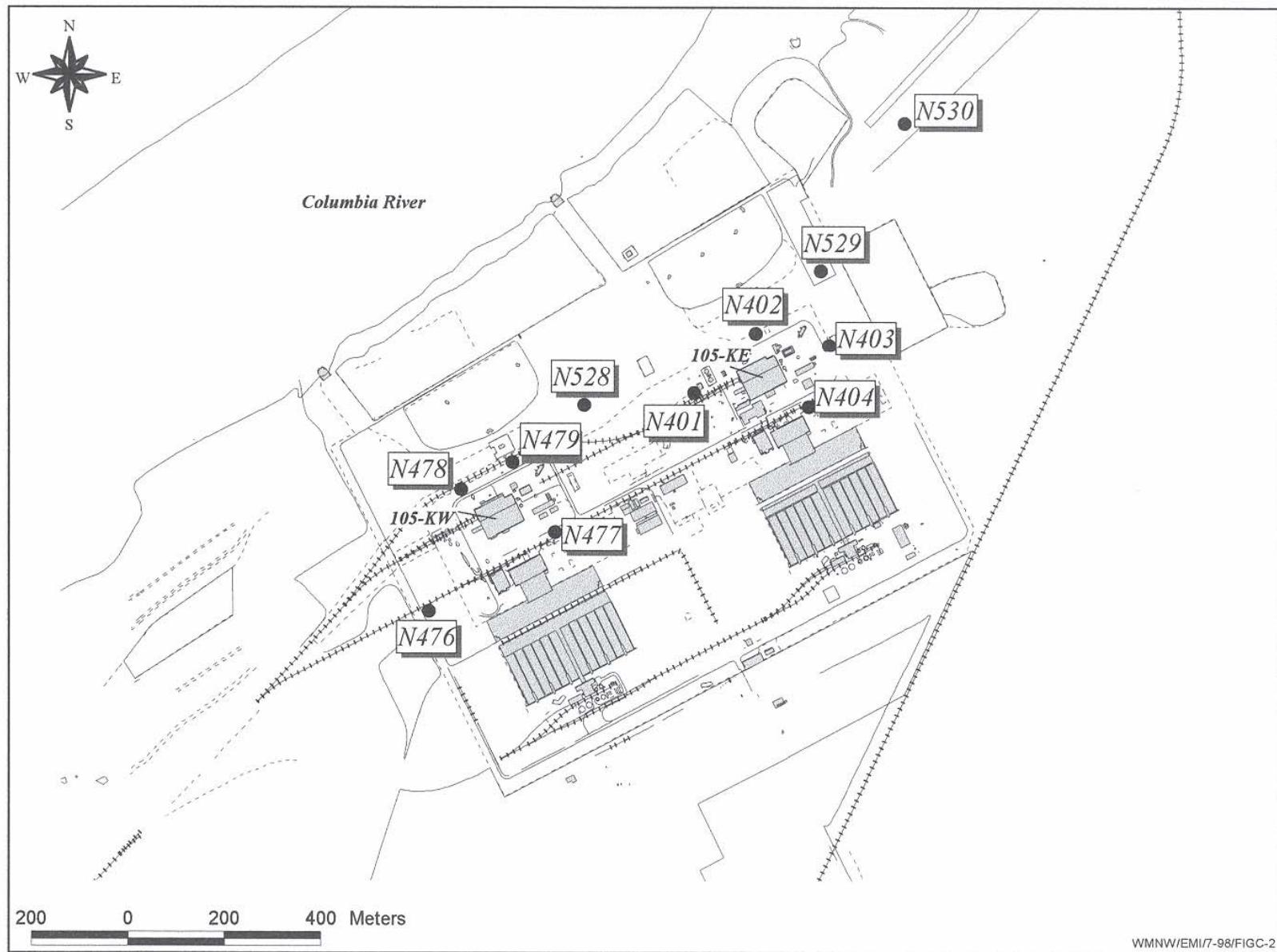
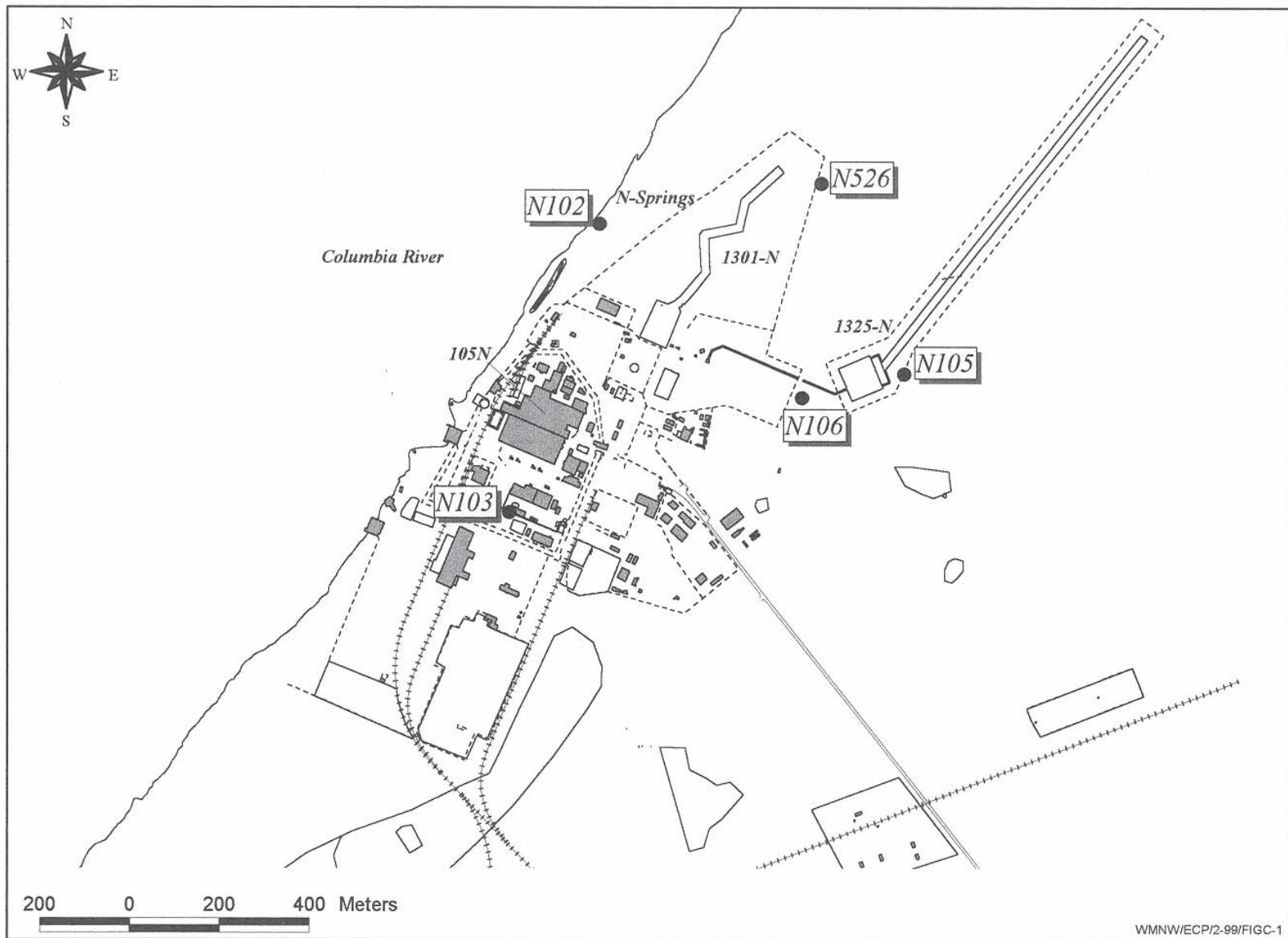


Figure 2-5. 100-K Area Air Sampler Locations.

Figure 2-6. 100-N Area Air Sampler Locations.



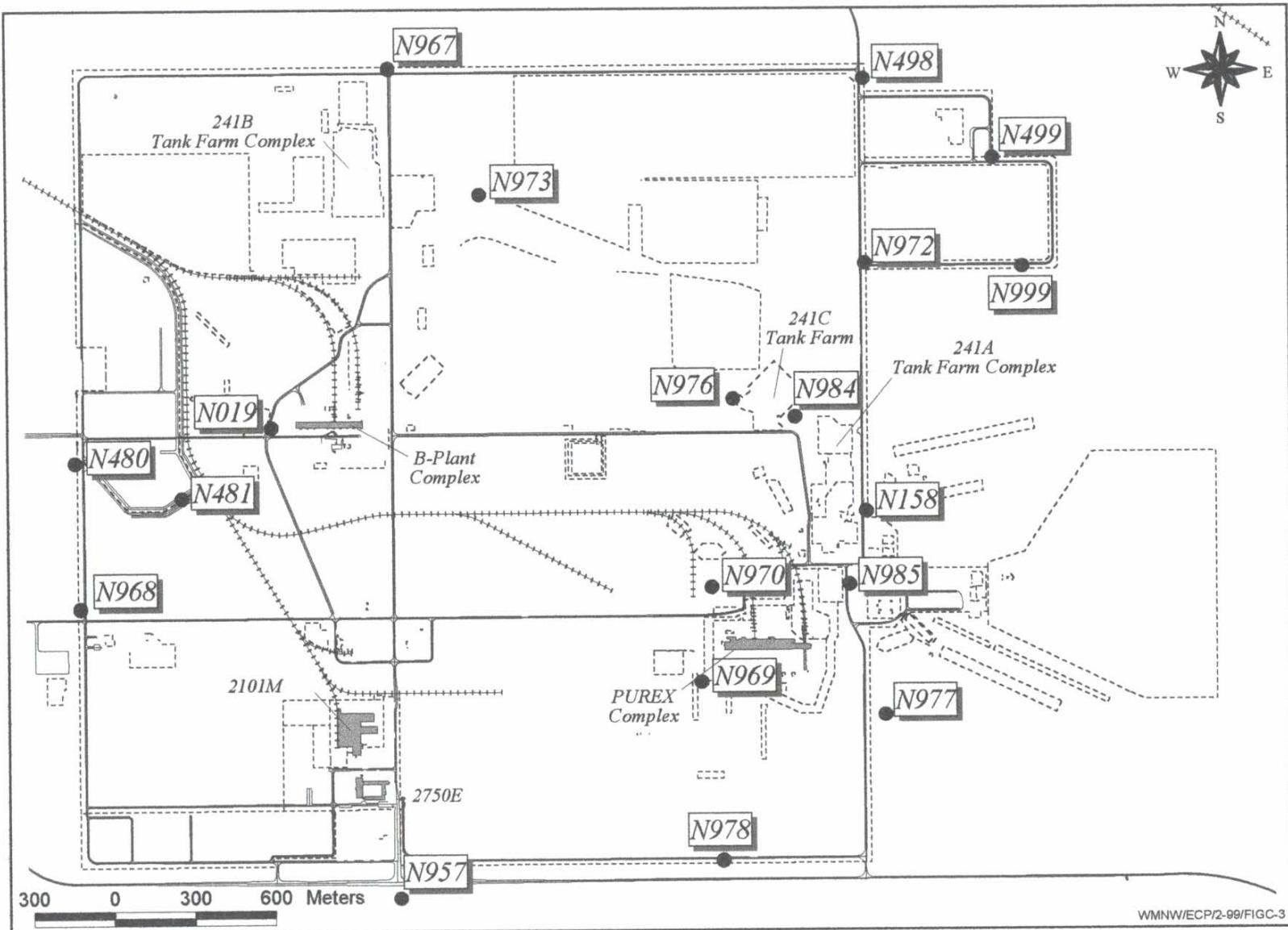


Figure 2-7. 200 East Area Air Sampler Locations.

Figure 2-8. 200 West Area Air Sampler Locations.

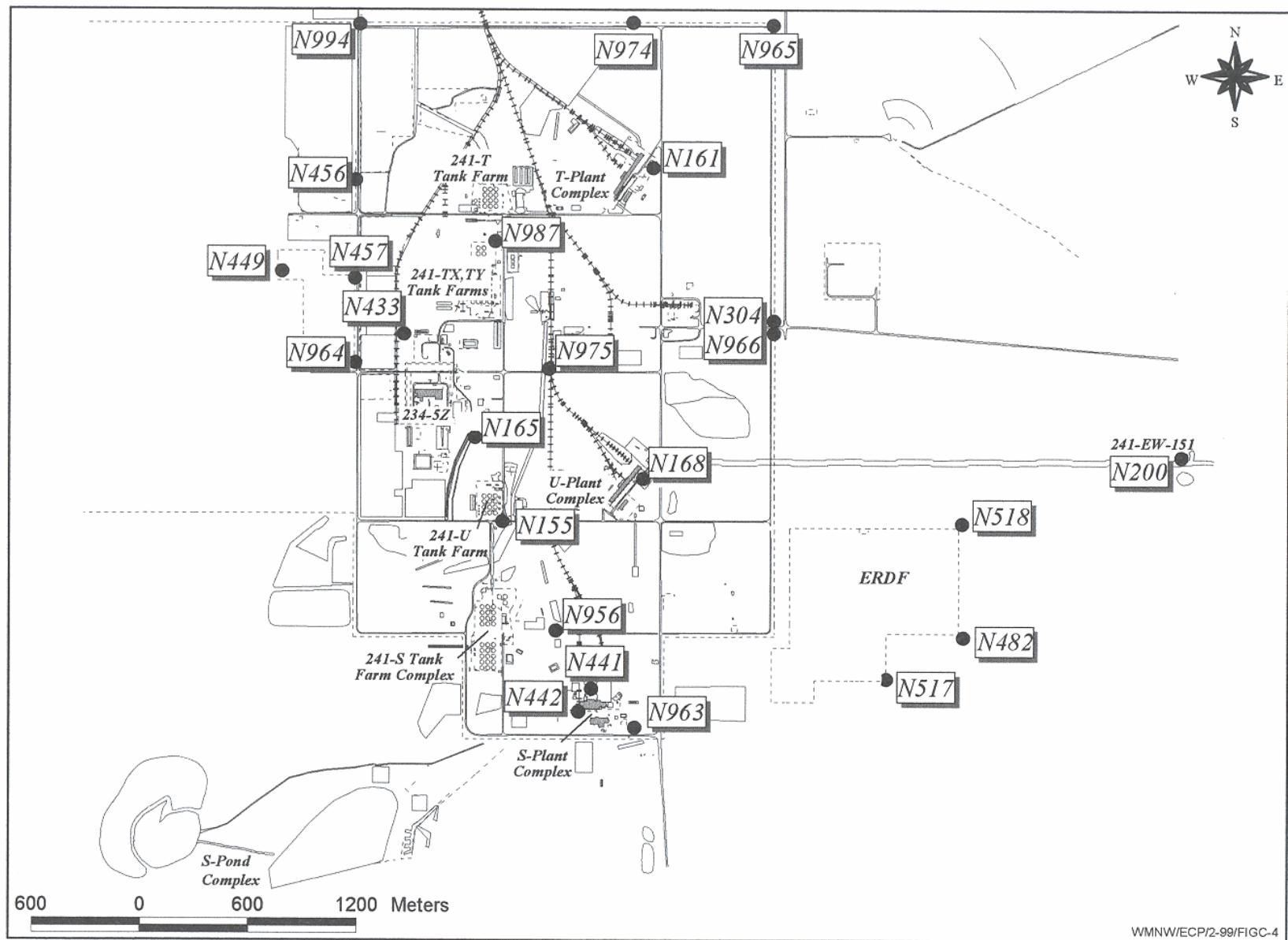


Figure 2-9. 300 Area Air Sampler Locations.

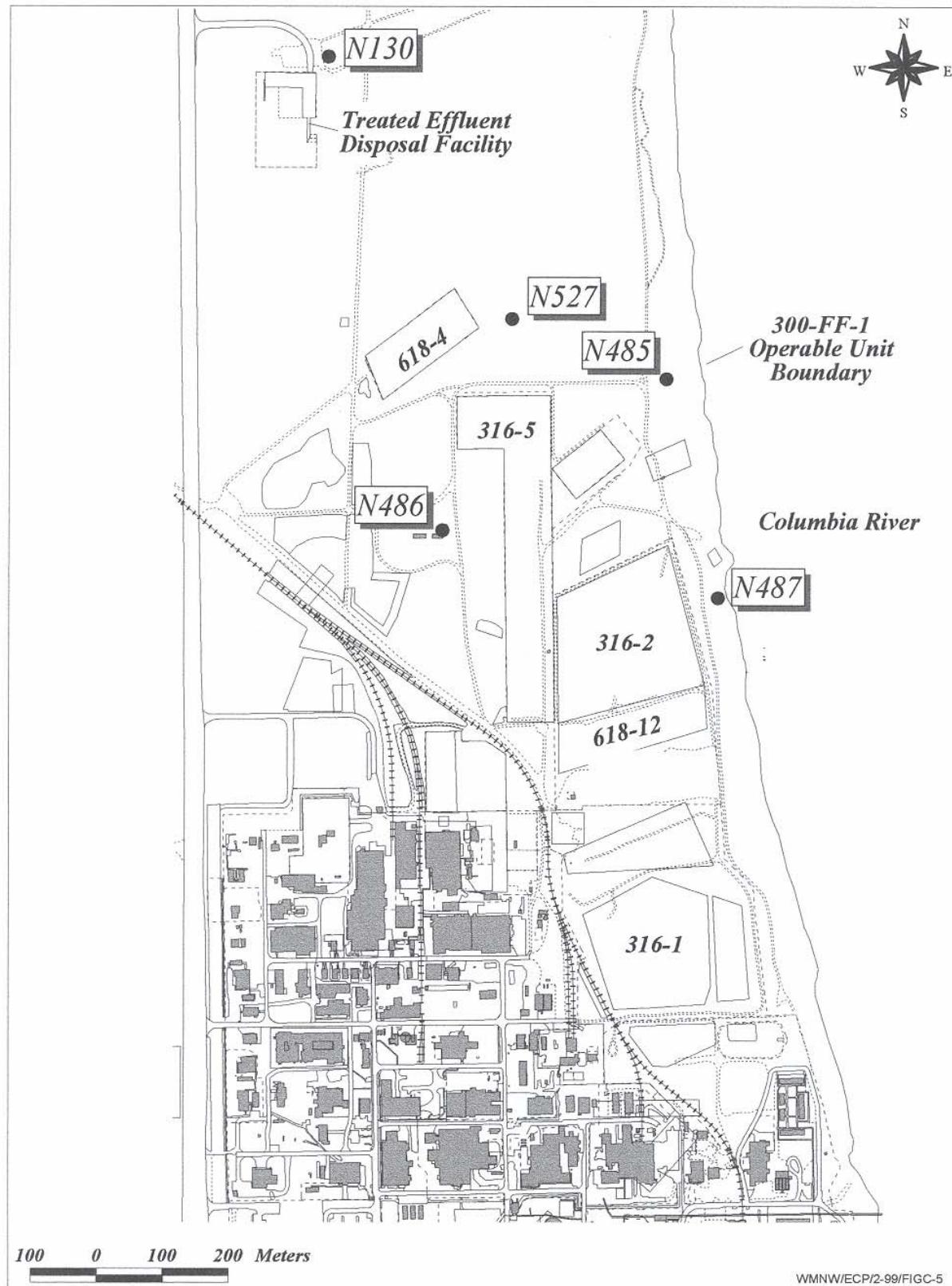


Figure 2-10. Environmental Restoration Disposal Facility Air Sampler Locations.

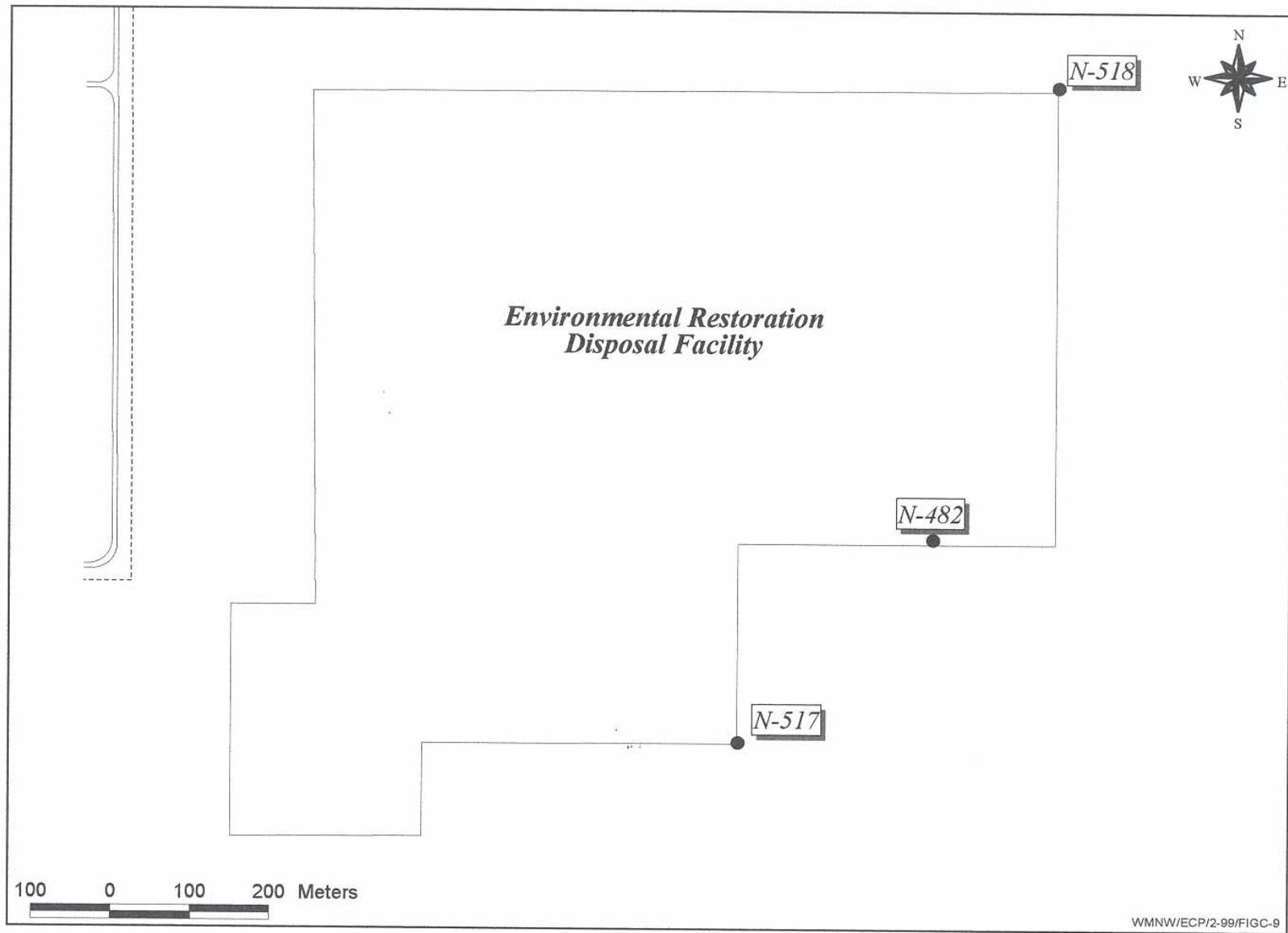


Figure 2-11. 600 Area Air Sampler Location.

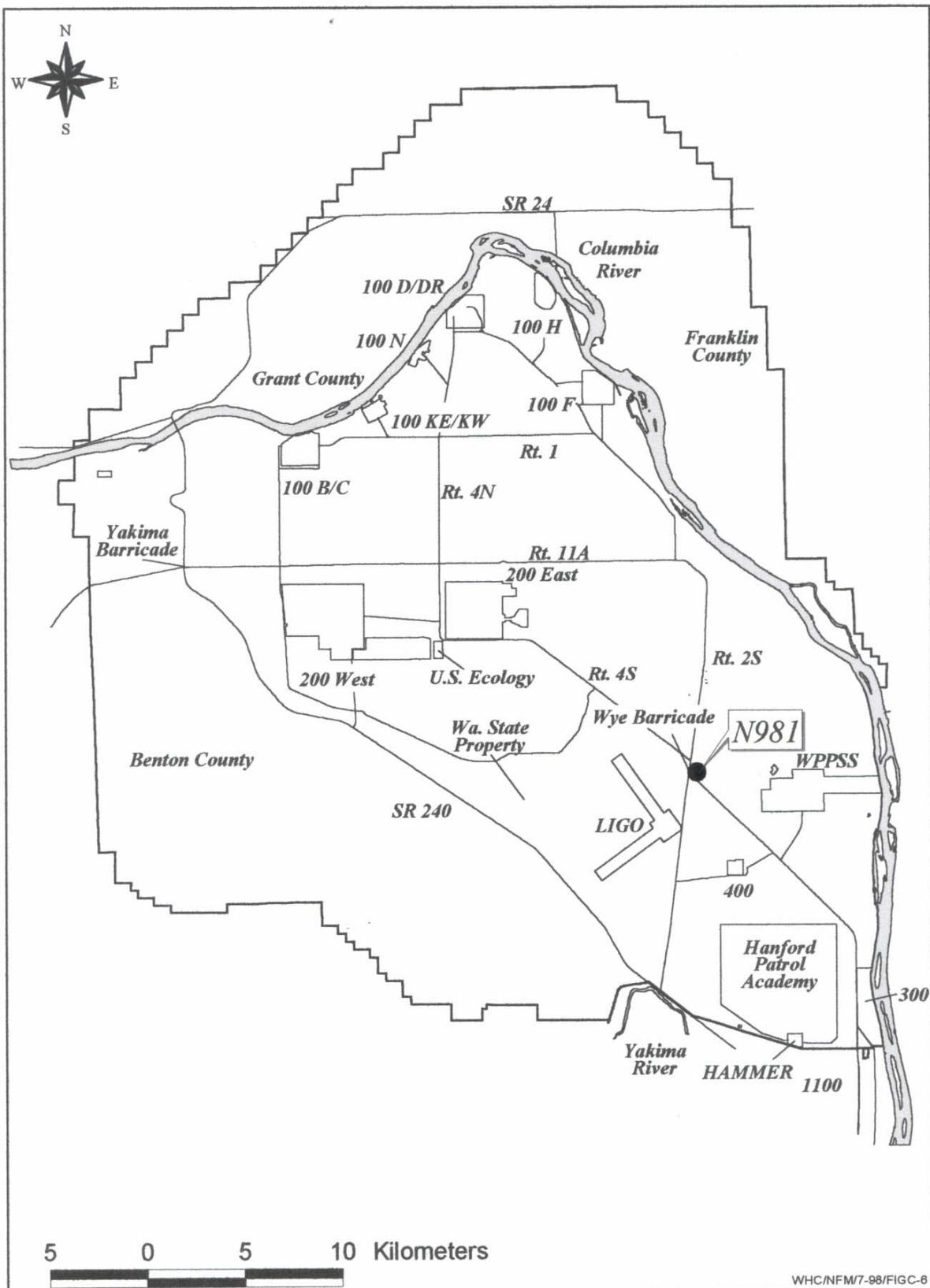


Figure 2-12. Annual Average Strontium-90 Concentrations in Air, 100-K Area.

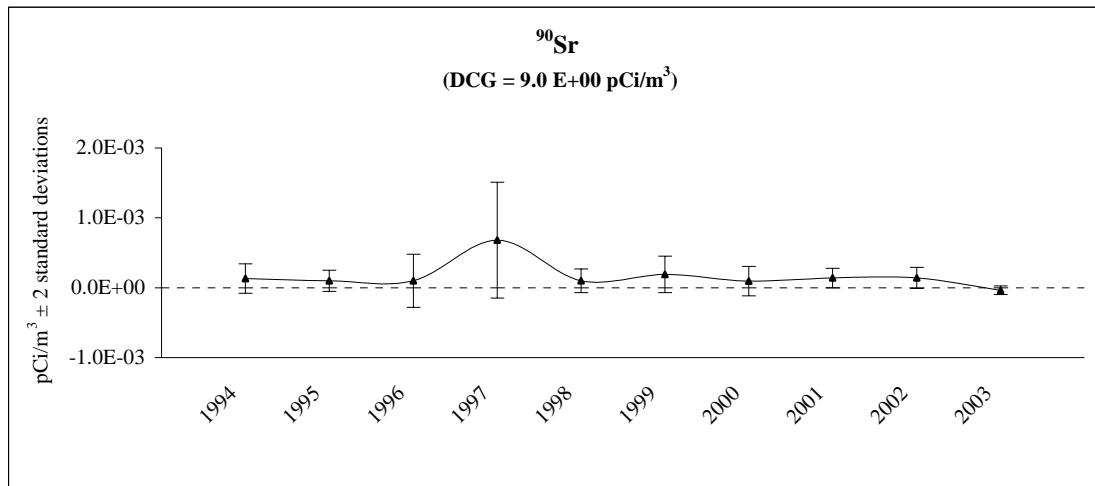


Figure 2-13. Annual Average Plutonium-239/240 Concentrations in Air, 100-K Area.

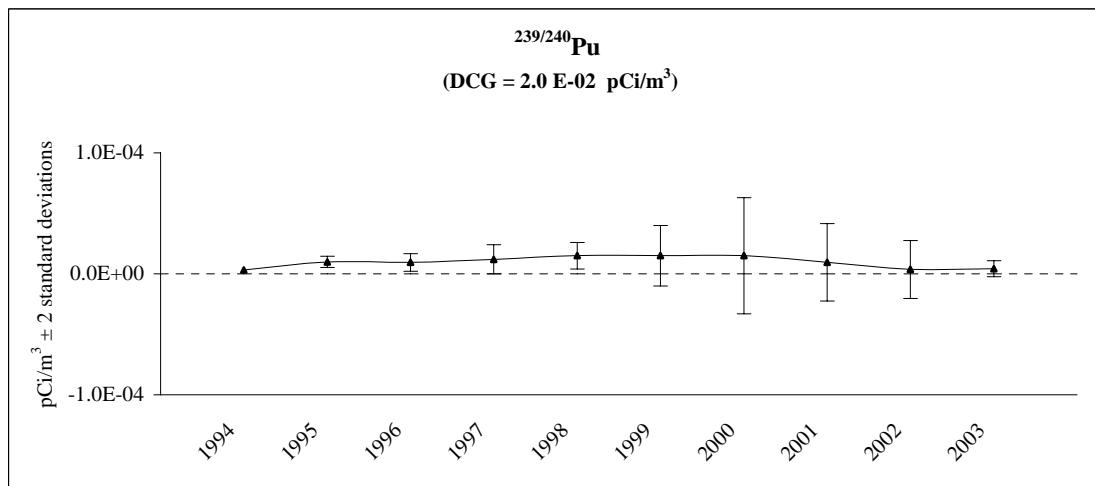


Figure 2-14. Annual Average Americium-241 Concentrations in Air, 100-K Area.

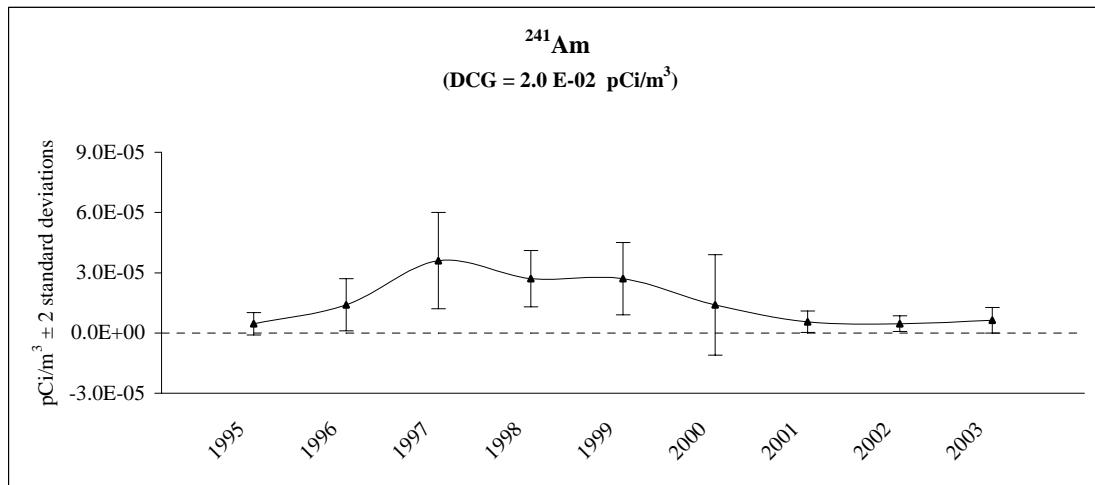


Figure 2-15. Annual Average Cobalt-60 Concentrations in Air, 100-N.

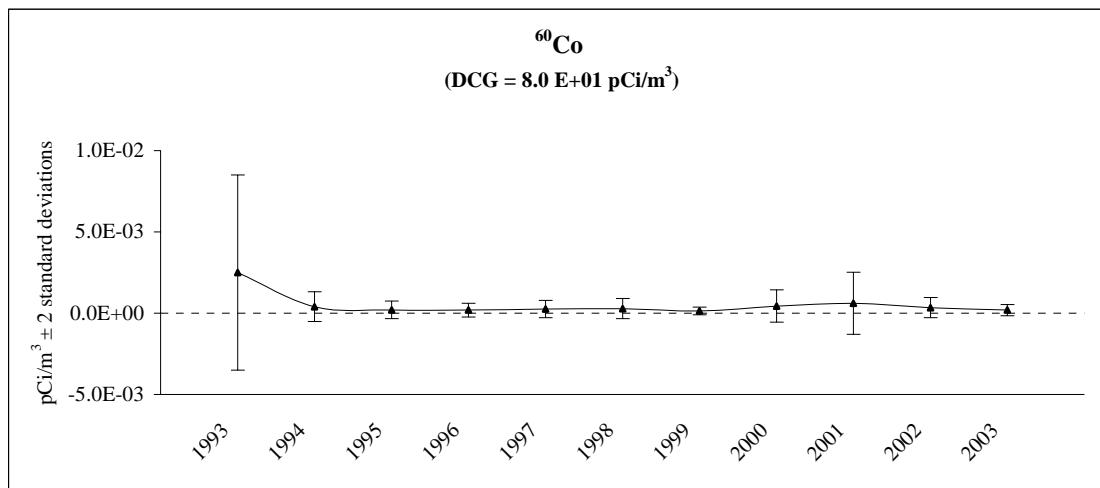


Figure 2-16. Annual Average Strontium-90 Concentrations in Air, 100-N.

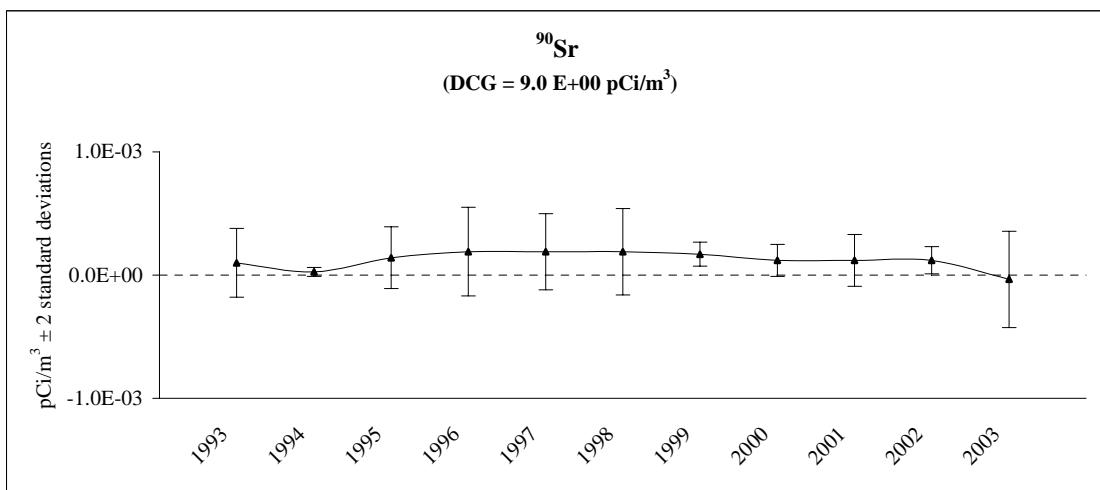


Figure 2-17. Annual Average Cesium-137 Concentrations in Air, 100-N.

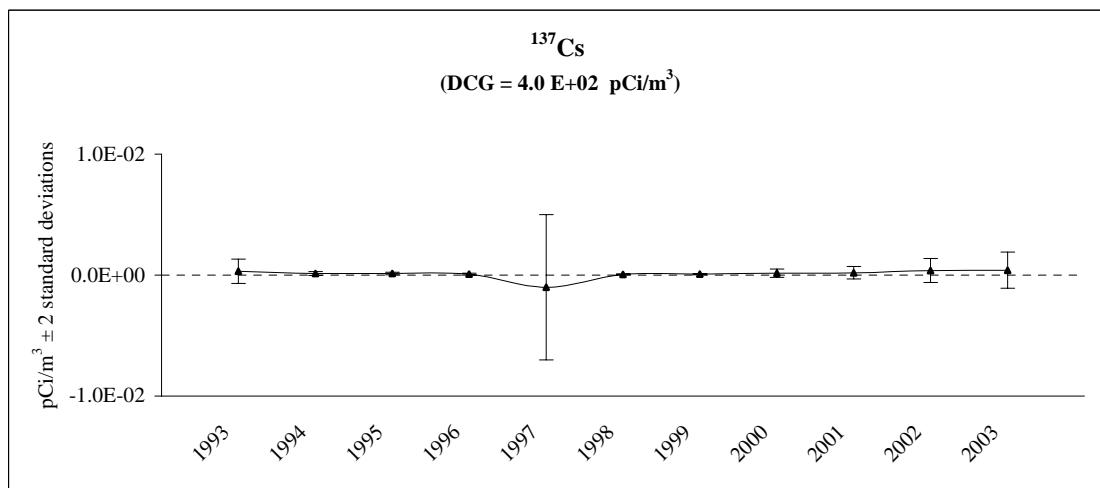


Figure 2-18. Annual Average Plutonium-239/240 Concentrations in Air, 100-N Area.

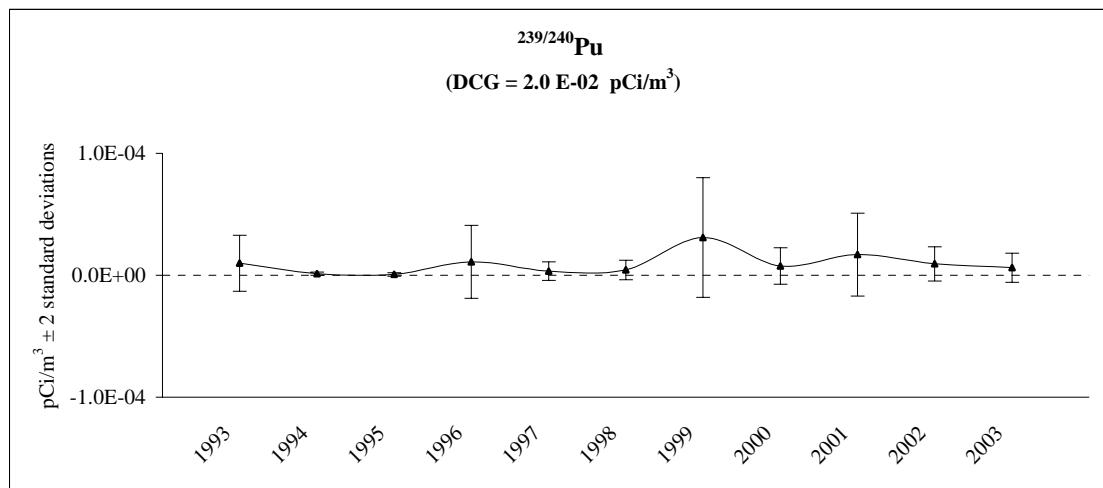


Figure 2-19. Annual Average Strontium-90 Concentrations in Air, 200 Areas.

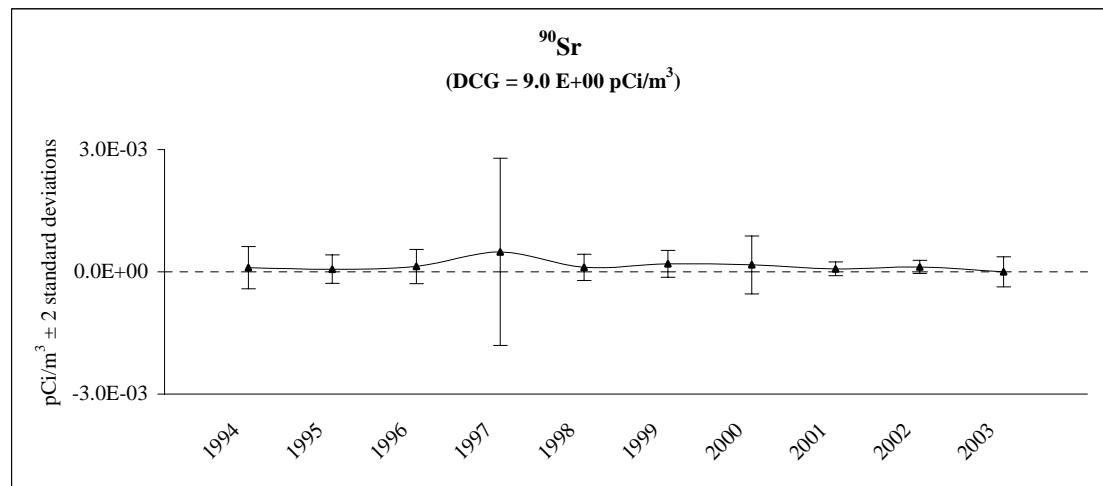


Figure 2-20. Annual Average Cesium-137 Concentrations in Air, 200 Areas.

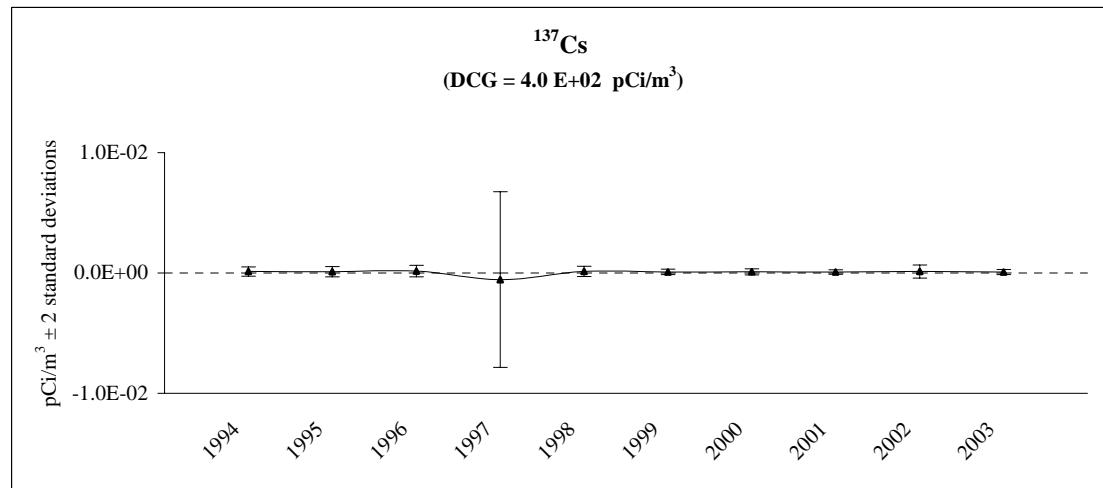


Figure 2-21. Annual Average Plutonium-239/240 Concentrations in Air, 200 Areas.

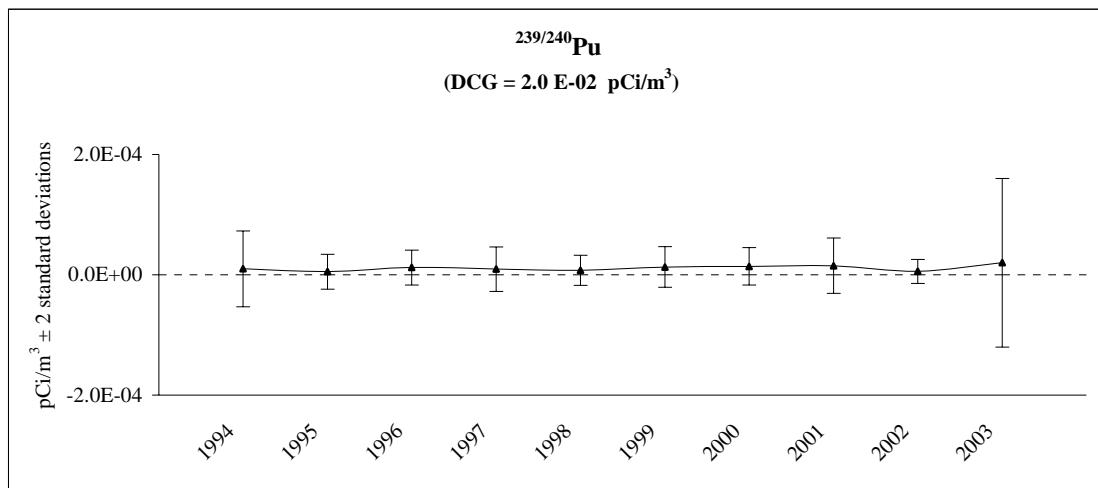


Figure 2-22. Annual Average Uranium-234 Concentrations in Air, 300 Area.

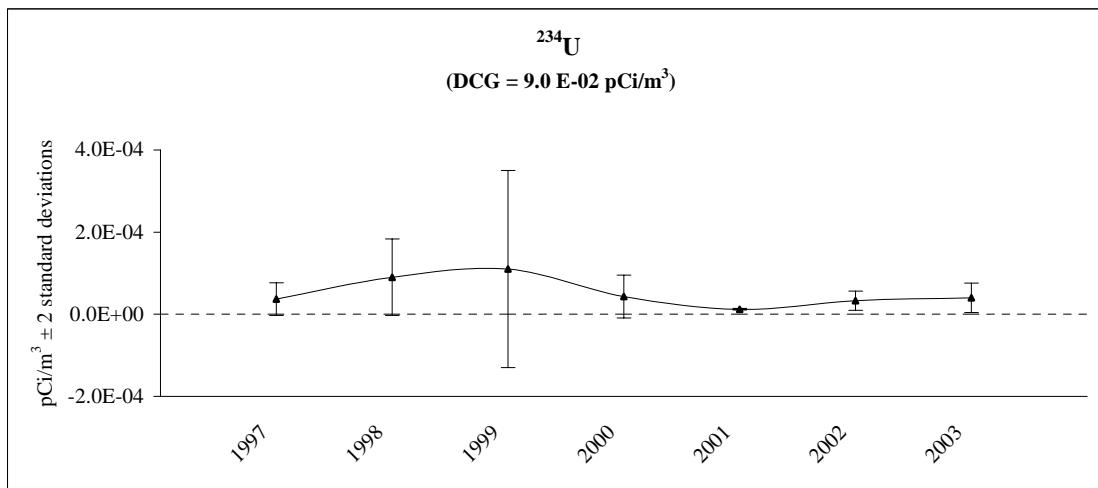


Figure 2-23. Annual Average Uranium-238 Concentrations in Air, 300 Area.

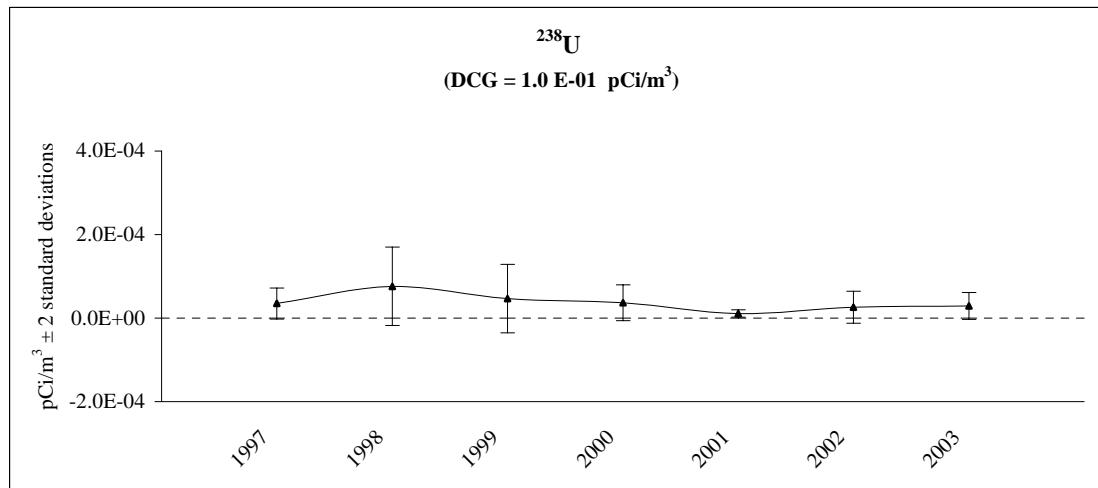


Table 2-2. Summary of Ambient Air Sampling Results
(pCi/m³) for Selected Radionuclides, 2003.

Isotope	Number of		Mean ^a	Maximum ^b	Location	Sampler
	Detects	Samples				
⁶⁰ Co	2	158	8.1E-06 ± 2.7E-04	4.2E-04 ± 1.8E-04	100-N	N526
¹³⁷ Cs	17	158	7.8E-05 ± 5.3E-04	2.5E-03 ± 7.9E-04	100-N	N526
^{239/240} Pu	38	151	1.6E-05 ± 1.1E-04	5.0E-04 ± 1.9E-04	200 West	N165
⁹⁰ Sr	15	151	-2.4E-05 ± 4.6E-04	1.0E-03 ± 3.3E-04	200 East	N984
²³⁴ U	136	158	1.6E-05 ± 2.1E-05	6.9E-05 ± 2.8E-05	300-FF-1	N487
²³⁵ U	34	158	3.2E-06 ± 7.0E-06	2.2E-05 ± 2.2E-05	105-D	N523
²³⁸ U	136	158	1.3E-05 ± 1.9E-05	6.4E-05 ± 9.6E-05	105-D	N523

^a± 2 standard deviations

^b± total analytical uncertainty

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
01/06/03 to 06/23/03	^{144}Ce	-1.8E-04 \pm 7.8E-04	U	06/23/03 to 12/15/03	^{144}Ce	5.2E-04 \pm 6.7E-04	U
	^{60}Co	3.0E-05 \pm 7.3E-05	U		^{60}Co	8.1E-05 \pm 9.0E-05	U
	^{134}Cs	2.9E-05 \pm 8.9E-05	U		^{134}Cs	-5.0E-05 \pm 7.1E-05	U
	^{137}Cs	7.4E-05 \pm 7.8E-05	U		^{137}Cs	-2.4E-05 \pm 6.9E-05	U
	^{152}Eu	-1.9E-05 \pm 1.9E-04	U		^{152}Eu	-1.1E-04 \pm 1.7E-04	U
	^{154}Eu	8.7E-05 \pm 2.1E-04	U		^{154}Eu	2.4E-05 \pm 2.4E-04	U
	^{155}Eu	-6.9E-05 \pm 2.2E-04	U		^{155}Eu	-2.0E-05 \pm 1.7E-04	U
	^{238}Pu	1.9E-05 \pm 1.8E-05	U		^{238}Pu	-2.0E-06 \pm 1.6E-05	U
	$^{239/240}\text{Pu}$	9.3E-07 \pm 9.6E-07	U		$^{239/240}\text{Pu}$	2.0E-06 \pm 4.1E-06	U
	^{103}Ru	8.4E-05 \pm 8.6E-05	U		^{103}Ru	-3.1E-06 \pm 3.1E-05	U
	^{106}Ru	-4.4E-04 \pm 6.6E-04	U		^{106}Ru	6.2E-05 \pm 6.0E-04	U
	^{125}Sb	1.2E-04 \pm 1.9E-04	U		^{125}Sb	-3.8E-05 \pm 1.4E-04	U
	^{113}Sn	-2.0E-05 \pm 9.0E-05	U		^{113}Sn	1.8E-05 \pm 8.0E-05	U
	^{90}Sr	-7.0E-05 \pm 8.9E-05	U		^{90}Sr	7.7E-06 \pm 8.0E-06	U
	^{234}U	3.5E-06 \pm 3.6E-06			^{234}U	1.4E-05 \pm 8.5E-06	
	^{235}U	9.3E-07 \pm 1.9E-06	U		^{235}U	3.5E-06 \pm 4.3E-06	U
	^{238}U	5.2E-06 \pm 4.7E-06			^{238}U	9.3E-06 \pm 6.7E-06	
	^{65}Zn	-1.5E-04 \pm 1.7E-04	U		^{65}Zn	1.2E-04 \pm 2.1E-04	U
01/06/03 to 06/23/03	^{144}Ce	-4.6E-05 \pm 4.6E-04	U	06/23/03 to 12/15/03	^{144}Ce	-3.3E-04 \pm 8.3E-04	U
	^{60}Co	4.4E-06 \pm 4.4E-05	U		^{60}Co	-8.8E-06 \pm 8.8E-05	U
	^{134}Cs	-4.7E-05 \pm 8.8E-05	U		^{134}Cs	-8.0E-05 \pm 9.8E-05	U
	^{137}Cs	5.7E-05 \pm 9.0E-05	U		^{137}Cs	-1.6E-05 \pm 7.9E-05	U
	^{152}Eu	5.5E-05 \pm 1.9E-04	U		^{152}Eu	6.5E-05 \pm 1.8E-04	U
	^{154}Eu	6.3E-05 \pm 2.8E-04	U		^{154}Eu	2.7E-04 \pm 3.2E-04	U
	^{155}Eu	-4.1E-05 \pm 1.9E-04	U		^{155}Eu	-2.1E-04 \pm 2.1E-04	U
	^{238}Pu	-1.1E-06 \pm 1.1E-05	U		^{238}Pu	2.2E-05 \pm 1.9E-05	U
	$^{239/240}\text{Pu}$	-1.1E-06 \pm 4.9E-06	U		$^{239/240}\text{Pu}$	4.0E-06 \pm 4.1E-06	
	^{103}Ru	2.6E-05 \pm 7.2E-05	U		^{103}Ru	5.5E-05 \pm 1.0E-04	U
	^{106}Ru	-2.1E-04 \pm 7.5E-04	U		^{106}Ru	-2.7E-04 \pm 7.1E-04	U
	^{125}Sb	-2.0E-04 \pm 2.1E-04	U		^{125}Sb	-3.7E-05 \pm 1.7E-04	U
	^{113}Sn	2.9E-05 \pm 7.9E-05	U		^{113}Sn	-1.6E-05 \pm 9.1E-05	U
	^{90}Sr	6.9E-05 \pm 9.9E-05	U		^{90}Sr	-1.5E-05 \pm 7.8E-05	U
	^{234}U	9.2E-06 \pm 6.3E-06			^{234}U	2.0E-05 \pm 1.1E-05	
	^{235}U	2.5E-06 \pm 3.1E-06			^{235}U	2.5E-06 \pm 3.1E-06	
	^{238}U	2.3E-06 \pm 2.8E-06			^{238}U	6.9E-06 \pm 5.2E-06	
	^{65}Zn	-1.1E-04 \pm 1.8E-04	U		^{65}Zn	-1.3E-04 \pm 2.7E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N466 (100-B/C) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-1.9E-04 ± 5.6E-04	U	N466 (100-B/C) 06/23/03 to 12/22/03	¹⁴⁴ Ce	2.3E-05 ± 2.3E-04	U
	⁶⁰ Co	4.9E-06 ± 4.9E-05	U		⁶⁰ Co	1.6E-05 ± 8.7E-05	U
	¹³⁴ Cs	2.1E-05 ± 7.7E-05	U		¹³⁴ Cs	-6.9E-05 ± 9.2E-05	U
	¹³⁷ Cs	9.3E-06 ± 6.6E-05	U		¹³⁷ Cs	-4.7E-05 ± 8.0E-05	U
	¹⁵² Eu	3.8E-06 ± 3.8E-05	U		¹⁵² Eu	3.0E-05 ± 1.9E-04	U
	¹⁵⁴ Eu	-4.5E-05 ± 2.1E-04	U		¹⁵⁴ Eu	-4.2E-05 ± 3.0E-04	U
	¹⁵⁵ Eu	-1.2E-05 ± 1.2E-04	U		¹⁵⁵ Eu	-4.5E-05 ± 1.8E-04	U
	²³⁸ Pu	-3.5E-06 ± 1.5E-05	U		²³⁸ Pu	-2.8E-06 ± 1.6E-05	U
	^{239/240} Pu	9.1E-07 ± 9.5E-07	U		^{239/240} Pu	9.2E-07 ± 4.9E-06	U
	¹⁰³ Ru	-2.4E-05 ± 7.9E-05	U		¹⁰³ Ru	6.6E-06 ± 6.6E-05	U
	¹⁰⁶ Ru	-1.6E-04 ± 6.4E-04	U		¹⁰⁶ Ru	-2.0E-04 ± 6.9E-04	U
	¹²⁵ Sb	-8.6E-05 ± 1.5E-04	U		¹²⁵ Sb	3.6E-05 ± 1.7E-04	U
	¹¹³ Sn	1.0E-04 ± 8.3E-05	U		¹¹³ Sn	-2.1E-05 ± 7.8E-05	U
	⁹⁰ Sr	7.6E-06 ± 7.6E-05	U		⁹⁰ Sr	-8.5E-05 ± 9.2E-05	U
	²³⁴ U	1.8E-05 ± 1.0E-05			²³⁴ U	9.2E-06 ± 6.5E-06	
	²³⁵ U	2.7E-06 ± 4.1E-06	U		²³⁵ U	2.4E-06 ± 3.0E-06	
	²³⁸ U	8.4E-06 ± 6.1E-06			²³⁸ U	9.2E-06 ± 6.2E-06	
	⁶⁵ Zn	-8.4E-05 ± 1.8E-04	U		⁶⁵ Zn	1.3E-04 ± 2.1E-04	U
N496 (100-B/C) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	2.2E-04 ± 7.7E-04	U	N496 (100-B/C) 06/23/03 to 12/22/03	¹⁴⁴ Ce	2.4E-04 ± 6.0E-04	U
	⁶⁰ Co	1.9E-05 ± 6.7E-05	U		⁶⁰ Co	-1.4E-06 ± 1.4E-05	U
	¹³⁴ Cs	8.1E-06 ± 7.7E-05	U		¹³⁴ Cs	-6.3E-05 ± 7.2E-05	U
	¹³⁷ Cs	-4.3E-05 ± 7.0E-05	U		¹³⁷ Cs	1.3E-05 ± 6.2E-05	U
	¹⁵² Eu	-1.8E-04 ± 2.2E-04	U		¹⁵² Eu	3.5E-05 ± 1.4E-04	U
	¹⁵⁴ Eu	7.8E-06 ± 7.8E-05	U		¹⁵⁴ Eu	-2.9E-05 ± 2.2E-04	U
	¹⁵⁵ Eu	5.9E-05 ± 2.2E-04	U		¹⁵⁵ Eu	-4.6E-05 ± 1.4E-04	U
	²³⁸ Pu	-2.7E-06 ± 1.5E-05	U		²³⁸ Pu	-1.1E-05 ± 1.5E-05	U
	^{239/240} Pu	9.1E-07 ± 9.4E-07	U		^{239/240} Pu	7.0E-06 ± 6.0E-06	
	¹⁰³ Ru	-8.2E-06 ± 8.2E-05	U		¹⁰³ Ru	-2.3E-05 ± 7.8E-05	U
	¹⁰⁶ Ru	-2.0E-04 ± 6.8E-04	U		¹⁰⁶ Ru	-1.5E-04 ± 5.6E-04	U
	¹²⁵ Sb	-3.3E-05 ± 1.7E-04	U		¹²⁵ Sb	-1.1E-04 ± 1.4E-04	U
	¹¹³ Sn	4.5E-05 ± 8.4E-05	U		¹¹³ Sn	-7.6E-06 ± 7.5E-05	U
	⁹⁰ Sr	-1.1E-04 ± 1.1E-04	U		⁹⁰ Sr	-6.5E-05 ± 9.7E-05	U
	²³⁴ U	2.8E-06 ± 2.9E-06			²³⁴ U	1.0E-05 ± 6.5E-06	
	²³⁵ U	3.9E-06 ± 3.7E-06			²³⁵ U	4.8E-06 ± 4.3E-06	
	²³⁸ U	7.0E-06 ± 5.1E-06			²³⁸ U	1.9E-05 ± 1.0E-05	
	⁶⁵ Zn	-1.9E-04 ± 2.0E-04	U		⁶⁵ Zn	1.1E-04 ± 2.0E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N497 (100-B/C)	^{144}Ce	-8.0E-05 ± 7.6E-04	U	N497 (100-B/C)	^{144}Ce	-3.0E-04 ± 7.9E-04	U
Composite Period	^{60}Co	1.7E-06 ± 1.7E-05	U	Composite Period	^{60}Co	6.3E-05 ± 7.3E-05	U
01/06/03 to 06/23/03	^{134}Cs	3.8E-05 ± 8.1E-05	U	06/23/03 to 12/22/03	^{134}Cs	-1.3E-05 ± 8.2E-05	U
	^{137}Cs	3.0E-05 ± 7.7E-05	U		^{137}Cs	-7.6E-06 ± 6.5E-05	U
	^{152}Eu	5.3E-05 ± 2.0E-04	U		^{152}Eu	-3.0E-04 ± 3.1E-04	U
	^{154}Eu	-7.9E-05 ± 2.6E-04	U		^{154}Eu	-1.1E-04 ± 2.1E-04	U
	^{155}Eu	1.5E-04 ± 1.9E-04	U		^{155}Eu	3.4E-05 ± 1.9E-04	U
	^{238}Pu	-4.5E-06 ± 1.0E-05	U		^{238}Pu	3.8E-06 ± 1.1E-05	U
	$^{239/240}\text{Pu}$	9.1E-07 ± 1.8E-06	U		$^{239/240}\text{Pu}$	9.4E-07 ± 5.6E-06	U
	^{103}Ru	9.1E-05 ± 9.1E-05	U		^{103}Ru	1.1E-05 ± 8.4E-05	U
	^{106}Ru	-3.6E-04 ± 6.9E-04	U		^{106}Ru	1.7E-04 ± 6.3E-04	U
	^{125}Sb	8.5E-05 ± 1.8E-04	U		^{125}Sb	-3.4E-05 ± 1.7E-04	U
	^{113}Sn	-6.9E-05 ± 9.3E-05	U		^{113}Sn	-1.9E-05 ± 8.5E-05	U
	^{90}Sr	-7.6E-05 ± 7.8E-05	U		^{90}Sr	-5.1E-05 ± 9.7E-05	U
	^{234}U	9.1E-06 ± 6.2E-06			^{234}U	9.4E-06 ± 6.8E-06	
	^{235}U	-8.3E-07 ± 1.7E-06	U		^{235}U	3.4E-06 ± 3.5E-06	
	^{238}U	6.9E-06 ± 5.2E-06			^{238}U	8.0E-06 ± 7.0E-06	U
	^{65}Zn	-1.7E-04 ± 2.0E-04	U		^{65}Zn	-1.1E-04 ± 2.0E-04	U
N536 (100-B/C)	^{144}Ce	-5.8E-04 ± 9.9E-04	U	N492 (100-D/DR)	^{144}Ce	-1.1E-03 ± 1.7E-03	U
Composite Period	^{60}Co	4.1E-05 ± 1.2E-04	U	Composite Period	^{60}Co	1.5E-04 ± 2.2E-04	U
02/26/03 to 07/07/03	^{134}Cs	6.6E-05 ± 1.3E-04	U	01/07/03 to 03/17/03	^{134}Cs	-2.7E-04 ± 2.7E-04	U
	^{137}Cs	-1.2E-05 ± 1.2E-04	U		^{137}Cs	-7.4E-05 ± 2.0E-04	U
	^{152}Eu	1.6E-06 ± 1.6E-05	U		^{152}Eu	2.7E-04 ± 4.4E-04	U
	^{154}Eu	2.4E-04 ± 3.4E-04	U		^{154}Eu	2.4E-04 ± 6.1E-04	U
	^{155}Eu	8.8E-05 ± 2.5E-04	U		^{155}Eu	1.3E-04 ± 4.4E-04	U
	^{238}Pu	2.1E-05 ± 2.1E-05	U		^{238}Pu	1.6E-05 ± 1.8E-05	U
	$^{239/240}\text{Pu}$	7.0E-06 ± 7.9E-06	U		$^{239/240}\text{Pu}$	1.8E-06 ± 3.6E-06	U
	^{103}Ru	-3.9E-05 ± 1.2E-04	U		^{103}Ru	-6.2E-05 ± 1.9E-04	U
	^{106}Ru	1.5E-04 ± 1.0E-03	U		^{106}Ru	-6.5E-05 ± 6.5E-04	U
	^{125}Sb	8.4E-05 ± 2.6E-04	U		^{125}Sb	-1.2E-04 ± 4.8E-04	U
	^{113}Sn	-2.3E-05 ± 1.3E-04	U		^{113}Sn	4.2E-05 ± 2.1E-04	U
	^{90}Sr	7.1E-05 ± 1.4E-04	U		^{90}Sr	1.7E-04 ± 2.4E-04	U
	^{234}U	1.0E-05 ± 7.9E-06			^{234}U	2.4E-05 ± 2.0E-05	U
	^{235}U	4.4E-06 ± 5.4E-06	U		^{235}U	1.8E-06 ± 1.9E-06	U
	^{238}U	1.2E-05 ± 9.1E-06			^{238}U	-1.8E-06 ± 6.4E-06	U
	^{65}Zn	8.0E-05 ± 2.5E-04	U		^{65}Zn	-1.4E-04 ± 4.2E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N492 (100-D/DR)	^{144}Ce	-4.8E-04 \pm 1.1E-03	U	N492 (100-D/DR)	^{144}Ce	8.9E-04 \pm 1.6E-03	U
Composite Period	^{60}Co	-7.3E-05 \pm 1.3E-04	U	Composite Period	^{60}Co	-3.5E-05 \pm 2.1E-04	U
03/17/03 to 06/23/03	^{134}Cs	-4.3E-05 \pm 1.2E-04	U	06/23/03 to 09/16/03	^{134}Cs	-3.5E-05 \pm 2.0E-04	U
	^{137}Cs	-9.8E-06 \pm 9.8E-05	U		^{137}Cs	-1.7E-04 \pm 2.0E-04	U
	^{152}Eu	-1.7E-04 \pm 2.6E-04	U		^{152}Eu	2.6E-04 \pm 4.2E-04	U
	^{154}Eu	-2.7E-05 \pm 2.7E-04	U		^{154}Eu	1.2E-04 \pm 6.0E-04	U
	^{155}Eu	-2.1E-04 \pm 2.8E-04	U		^{155}Eu	-3.5E-04 \pm 4.3E-04	U
	^{238}Pu	6.8E-06 \pm 2.7E-05	U		^{238}Pu	2.6E-05 \pm 3.0E-05	U
	$^{239/240}\text{Pu}$	1.7E-06 \pm 7.7E-06	U		$^{239/240}\text{Pu}$	1.3E-05 \pm 1.1E-05	
	^{103}Ru	5.9E-05 \pm 9.4E-05	U		^{103}Ru	-8.5E-06 \pm 8.5E-05	U
	^{106}Ru	2.4E-04 \pm 1.0E-03	U		^{106}Ru	-6.3E-04 \pm 1.9E-03	U
	^{125}Sb	7.3E-05 \pm 2.8E-04	U		^{125}Sb	1.8E-04 \pm 4.1E-04	U
	^{113}Sn	-1.3E-04 \pm 1.3E-04	U		^{113}Sn	-1.2E-04 \pm 1.8E-04	U
	^{90}Sr	-1.3E-05 \pm 1.2E-04	U		^{90}Sr	2.1E-04 \pm 2.4E-04	
	^{234}U	1.6E-05 \pm 1.1E-05			^{234}U	1.5E-05 \pm 1.3E-05	
	^{235}U	2.6E-06 \pm 3.7E-06	U		^{235}U	6.1E-06 \pm 7.4E-06	
	^{238}U	7.3E-06 \pm 7.4E-06	U		^{238}U	7.4E-06 \pm 7.6E-06	
	^{65}Zn	-1.9E-04 \pm 2.9E-04	U		^{65}Zn	4.3E-05 \pm 4.3E-04	U
N492 (100-D/DR)	^{144}Ce	-1.5E-04 \pm 9.9E-04	U	N515 (100-D/DR)	^{144}Ce	1.9E-03 \pm 2.0E-03	U
Composite Period	^{60}Co	3.6E-05 \pm 1.3E-04	U	Composite Period	^{60}Co	-1.5E-04 \pm 2.0E-04	U
09/16/03 to 12/22/03	^{134}Cs	1.7E-05 \pm 1.3E-04	U	01/07/03 to 03/17/03	^{134}Cs	-1.6E-04 \pm 2.3E-04	U
	^{137}Cs	-4.4E-05 \pm 1.1E-04	U		^{137}Cs	7.6E-06 \pm 7.6E-05	U
	^{152}Eu	-1.4E-05 \pm 1.4E-04	U		^{152}Eu	-7.8E-05 \pm 4.9E-04	U
	^{154}Eu	-2.4E-04 \pm 4.0E-04	U		^{154}Eu	-3.8E-04 \pm 6.5E-04	U
	^{155}Eu	-3.6E-04 \pm 3.7E-04	U		^{155}Eu	-1.1E-04 \pm 5.6E-04	U
	^{238}Pu	1.6E-05 \pm 2.1E-05	U		^{238}Pu	-1.9E-06 \pm 1.6E-05	U
	$^{239/240}\text{Pu}$	1.6E-06 \pm 1.7E-06	U		$^{239/240}\text{Pu}$	3.7E-06 \pm 7.5E-06	U
	^{103}Ru	-3.6E-05 \pm 1.0E-04	U		^{103}Ru	-1.7E-04 \pm 2.2E-04	U
	^{106}Ru	-3.0E-04 \pm 1.0E-03	U		^{106}Ru	-1.2E-04 \pm 1.2E-03	U
	^{125}Sb	9.1E-05 \pm 2.7E-04	U		^{125}Sb	-1.6E-04 \pm 4.8E-04	U
	^{113}Sn	-1.3E-04 \pm 1.3E-04	U		^{113}Sn	-1.9E-04 \pm 2.4E-04	U
	^{90}Sr	4.0E-05 \pm 2.4E-04	U		^{90}Sr	-8.3E-05 \pm 2.1E-04	U
	^{234}U	2.7E-05 \pm 1.5E-05			^{234}U	2.3E-05 \pm 1.6E-05	
	^{235}U	1.6E-05 \pm 1.2E-05			^{235}U	5.2E-06 \pm 7.4E-06	U
	^{238}U	1.6E-05 \pm 1.1E-05			^{238}U	7.1E-06 \pm 1.3E-05	U
	^{65}Zn	-3.5E-04 \pm 3.6E-04	U		^{65}Zn	-1.0E-04 \pm 4.3E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N515 (100-D/DR)	^{144}Ce	5.1E-04 \pm 9.1E-04	U	N515 (100-D/DR)	^{144}Ce	-7.5E-04 \pm 1.1E-03	U
Composite Period	^{60}Co	4.2E-05 \pm 9.5E-05	U	Composite Period	^{60}Co	-7.2E-05 \pm 1.7E-04	U
03/17/03 to 06/23/03	^{134}Cs	-7.3E-05 \pm 9.5E-05	U	06/23/03 to 09/16/03	^{134}Cs	-2.4E-05 \pm 1.9E-04	U
	^{137}Cs	5.5E-05 \pm 8.0E-05	U		^{137}Cs	1.2E-05 \pm 1.2E-04	U
	^{152}Eu	-1.5E-04 \pm 2.5E-04	U		^{152}Eu	1.6E-05 \pm 1.6E-04	U
	^{154}Eu	2.6E-06 \pm 2.6E-05	U		^{154}Eu	2.3E-04 \pm 4.7E-04	U
	^{155}Eu	-1.6E-04 \pm 2.5E-04	U		^{155}Eu	-2.5E-04 \pm 3.7E-04	U
	^{238}Pu	3.2E-06 \pm 1.6E-05	U		^{238}Pu	7.6E-06 \pm 1.8E-05	U
	$^{239/240}\text{Pu}$	1.6E-06 \pm 7.3E-06	U		$^{239/240}\text{Pu}$	-3.9E-06 \pm 5.5E-06	U
	^{103}Ru	1.7E-06 \pm 1.7E-05	U		^{103}Ru	-4.7E-05 \pm 1.3E-04	U
	^{106}Ru	-3.6E-04 \pm 7.3E-04	U		^{106}Ru	-8.0E-04 \pm 1.3E-03	U
	^{125}Sb	-8.1E-05 \pm 2.0E-04	U		^{125}Sb	-1.8E-04 \pm 3.6E-04	U
	^{113}Sn	2.4E-05 \pm 9.4E-05	U		^{113}Sn	-3.3E-05 \pm 2.0E-04	U
	^{90}Sr	-2.9E-04 \pm 3.0E-04	U		^{90}Sr	2.5E-04 \pm 2.1E-04	
	^{234}U	1.3E-05 \pm 1.2E-05	U		^{234}U	1.6E-05 \pm 1.3E-05	
	^{235}U	1.4E-05 \pm 1.0E-05			^{235}U	1.8E-06 \pm 3.7E-06	U
	^{238}U	1.4E-05 \pm 1.0E-05			^{238}U	2.0E-05 \pm 1.3E-05	
	^{65}Zn	-2.4E-05 \pm 2.3E-04	U		^{65}Zn	-2.2E-04 \pm 3.8E-04	U
N515 (100-D/DR)	^{144}Ce	2.2E-03 \pm 2.3E-03		N523 (100-D/DR)	^{144}Ce	1.9E-03 \pm 1.1E-02	U
Composite Period	^{60}Co	3.0E-05 \pm 1.8E-04	U	Composite Period	^{60}Co	3.6E-04 \pm 1.2E-03	U
09/16/03 to 12/22/03	^{134}Cs	-3.8E-05 \pm 1.5E-04	U	01/07/03 to 03/17/03	^{134}Cs	3.1E-04 \pm 9.6E-04	U
	^{137}Cs	-1.5E-05 \pm 1.3E-04	U		^{137}Cs	-5.2E-04 \pm 1.1E-03	U
	^{152}Eu	-9.6E-05 \pm 3.8E-04	U		^{152}Eu	8.4E-04 \pm 2.8E-03	U
	^{154}Eu	2.0E-05 \pm 2.0E-04	U		^{154}Eu	-1.9E-03 \pm 3.8E-03	U
	^{155}Eu	7.1E-05 \pm 3.3E-04	U		^{155}Eu	1.1E-03 \pm 2.3E-03	U
	^{238}Pu	1.9E-05 \pm 2.4E-05	U		^{238}Pu	9.7E-06 \pm 9.7E-06	U
	$^{239/240}\text{Pu}$	1.9E-05 \pm 1.3E-05			$^{239/240}\text{Pu}$	9.7E-06 \pm 1.9E-05	U
	^{103}Ru	7.4E-05 \pm 1.2E-04	U		^{103}Ru	6.9E-05 \pm 6.9E-04	U
	^{106}Ru	1.2E-03 \pm 1.2E-03	U		^{106}Ru	3.2E-03 \pm 9.2E-03	U
	^{125}Sb	-1.3E-04 \pm 3.2E-04	U		^{125}Sb	2.6E-03 \pm 2.3E-03	U
	^{113}Sn	3.9E-05 \pm 1.5E-04	U		^{113}Sn	3.5E-04 \pm 1.1E-03	U
	^{90}Sr	-3.9E-05 \pm 2.0E-04	U		^{90}Sr	-5.0E-04 \pm 1.3E-03	U
	^{234}U	2.2E-05 \pm 1.4E-05			^{234}U	5.7E-05 \pm 6.3E-05	U
	^{235}U	1.2E-06 \pm 1.2E-05	U		^{235}U	2.1E-05 \pm 4.2E-05	U
	^{238}U	8.3E-06 \pm 6.9E-06			^{238}U	4.8E-05 \pm 5.3E-05	U
	^{65}Zn	2.2E-04 \pm 4.0E-04	U		^{65}Zn	-8.8E-04 \pm 2.7E-03	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N523 (100-D/DR)	^{144}Ce	-1.4E-03 \pm 5.6E-03	U	N523 (100-D/DR)	^{144}Ce	7.4E-03 \pm 1.8E-02	U
Composite Period	^{60}Co	-2.1E-05 \pm 2.1E-04	U	Composite Period	^{60}Co	-1.4E-03 \pm 2.0E-03	U
03/17/03 to 06/23/03	^{134}Cs	-2.8E-04 \pm 6.2E-04	U	06/23/03 to 08/19/03	^{134}Cs	-1.1E-03 \pm 1.9E-03	U
	^{137}Cs	2.6E-04 \pm 5.4E-04	U		^{137}Cs	1.3E-03 \pm 1.8E-03	U
	^{152}Eu	-5.9E-04 \pm 1.7E-03	U		^{152}Eu	-2.0E-03 \pm 4.7E-03	U
	^{154}Eu	-1.3E-03 \pm 1.6E-03	U		^{154}Eu	1.2E-03 \pm 6.2E-03	U
	^{155}Eu	8.4E-04 \pm 1.5E-03	U		^{155}Eu	2.0E-03 \pm 5.4E-03	U
	^{238}Pu	-6.8E-05 \pm 9.6E-05	U		^{238}Pu	-2.8E-04 \pm 5.9E-04	U
	$^{239/240}\text{Pu}$	1.4E-05 \pm 3.4E-05	U		$^{239/240}\text{Pu}$	3.0E-04 \pm 2.4E-04	
	^{103}Ru	-4.0E-04 \pm 5.1E-04	U		^{103}Ru	-7.9E-05 \pm 7.9E-04	U
	^{106}Ru	1.6E-03 \pm 4.8E-03	U		^{106}Ru	-3.4E-03 \pm 1.7E-02	U
	^{125}Sb	7.3E-04 \pm 1.3E-03	U		^{125}Sb	-2.6E-03 \pm 4.1E-03	U
	^{113}Sn	1.4E-04 \pm 6.1E-04	U		^{113}Sn	-1.8E-04 \pm 1.8E-03	U
	^{90}Sr	-1.9E-04 \pm 5.7E-04	U		^{90}Sr	-1.8E-03 \pm 2.9E-03	U
	^{234}U	5.5E-05 \pm 4.1E-05			^{234}U	4.4E-05 \pm 1.4E-04	U
	^{235}U	-7.4E-06 \pm 1.5E-05	U		^{235}U	2.2E-05 \pm 2.2E-05	U
	^{238}U	2.0E-05 \pm 2.5E-05			^{238}U	6.4E-05 \pm 9.6E-05	U
	^{65}Zn	-2.2E-04 \pm 1.5E-03	U		^{65}Zn	-3.2E-03 \pm 3.7E-03	U
N523 (100-D/DR)	^{144}Ce	5.8E-05 \pm 5.8E-04	U	N494 (100-F)	^{144}Ce	4.9E-04 \pm 1.7E-03	U
Composite Period	^{60}Co	1.9E-04 \pm 3.7E-04	U	Composite Period	^{60}Co	9.7E-05 \pm 1.7E-04	U
12/09/03 to 12/22/03	^{134}Cs	2.2E-04 \pm 4.0E-04	U	01/07/03 to 03/18/03	^{134}Cs	-1.5E-04 \pm 1.8E-04	U
	^{137}Cs	-6.6E-05 \pm 3.2E-04	U		^{137}Cs	1.1E-05 \pm 1.1E-04	U
	^{152}Eu	-2.4E-04 \pm 1.0E-03	U		^{152}Eu	-1.8E-04 \pm 4.4E-04	U
	^{154}Eu	1.6E-05 \pm 1.6E-04	U		^{154}Eu	4.3E-04 \pm 4.8E-04	U
	^{155}Eu	-3.3E-04 \pm 7.4E-04	U		^{155}Eu	-1.2E-04 \pm 4.9E-04	U
	^{238}Pu	5.2E-05 \pm 1.4E-04	U		^{238}Pu	5.6E-06 \pm 1.6E-05	U
	$^{239/240}\text{Pu}$	2.5E-05 \pm 3.7E-05	U		$^{239/240}\text{Pu}$	3.6E-06 \pm 7.3E-06	U
	^{103}Ru	-1.9E-04 \pm 0.0E+00	U		^{103}Ru	3.5E-05 \pm 1.9E-04	U
	^{106}Ru	7.4E-04 \pm 2.9E-03	U		^{106}Ru	3.5E-04 \pm 1.6E-03	U
	^{125}Sb	8.4E-05 \pm 7.0E-04	U		^{125}Sb	-8.2E-05 \pm 4.2E-04	U
	^{113}Sn	-2.4E-04 \pm 3.0E-04	U		^{113}Sn	-2.3E-05 \pm 2.0E-04	U
	^{90}Sr	-7.5E-05 \pm 1.3E-04	U		^{90}Sr	-2.5E-04 \pm 2.6E-04	U
	^{234}U	2.3E-05 \pm 2.3E-05	U		^{234}U	4.0E-05 \pm 2.1E-05	
	^{235}U	1.3E-05 \pm 1.6E-05	U		^{235}U	4.0E-06 \pm 8.0E-06	U
	^{238}U	1.2E-05 \pm 1.4E-05	U		^{238}U	4.0E-05 \pm 2.0E-05	
	^{65}Zn	3.6E-04 \pm 9.7E-04	U		^{65}Zn	-5.3E-04 \pm 5.4E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N494 (100-F)	^{144}Ce	-6.4E-04 ± 1.2E-03	U	N494 (100-F)	^{144}Ce	5.2E-04 ± 1.1E-03	U
Composite Period	^{60}Co	-1.4E-04 ± 1.6E-04	U	Composite Period	^{60}Co	4.3E-05 ± 1.7E-04	U
03/18/03 to 06/24/03	^{134}Cs	-1.3E-04 ± 1.5E-04	U	06/24/03 to 09/16/03	^{134}Cs	-1.3E-04 ± 1.8E-04	U
	^{137}Cs	6.4E-05 ± 1.4E-04	U		^{137}Cs	4.3E-05 ± 1.5E-04	U
	^{152}Eu	-6.4E-05 ± 3.3E-04	U		^{152}Eu	-1.9E-05 ± 1.9E-04	U
	^{154}Eu	-1.1E-04 ± 4.9E-04	U		^{154}Eu	8.0E-04 ± 5.1E-04	U
	^{155}Eu	-7.7E-05 ± 3.1E-04	U		^{155}Eu	1.0E-04 ± 3.6E-04	U
	^{238}Pu	-1.4E-06 ± 1.4E-05	U		^{238}Pu	2.4E-05 ± 2.7E-05	U
	$^{239/240}\text{Pu}$	7.3E-06 ± 8.3E-06	U		$^{239/240}\text{Pu}$	5.0E-06 ± 9.1E-06	U
	^{103}Ru	-4.6E-05 ± 1.2E-04	U		^{103}Ru	5.1E-05 ± 1.3E-04	U
	^{106}Ru	3.1E-04 ± 1.2E-03	U		^{106}Ru	-1.9E-04 ± 1.3E-03	U
	^{125}Sb	1.1E-04 ± 3.0E-04	U		^{125}Sb	-1.7E-04 ± 3.4E-04	U
	^{113}Sn	-8.5E-06 ± 8.5E-05	U		^{113}Sn	3.1E-05 ± 1.9E-04	U
	^{90}Sr	-3.9E-05 ± 1.6E-04	U		^{90}Sr	-3.1E-04 ± 3.2E-04	U
	^{234}U	1.1E-05 ± 8.6E-06			^{234}U	2.3E-05 ± 1.6E-05	
	^{235}U	3.0E-06 ± 6.1E-06	U		^{235}U	1.8E-06 ± 6.3E-06	U
	^{238}U	1.1E-05 ± 1.0E-05	U		^{238}U	1.0E-05 ± 1.0E-05	U
	^{65}Zn	2.6E-04 ± 3.5E-04	U		^{65}Zn	-6.3E-05 ± 3.9E-04	U
N494 (100-F)	^{144}Ce	-5.8E-04 ± 1.3E-03	U	N495 (100-F)	^{144}Ce	7.4E-04 ± 1.6E-03	U
Composite Period	^{60}Co	6.1E-05 ± 1.2E-04	U	Composite Period	^{60}Co	2.7E-04 ± 2.5E-04	U
09/16/03 to 12/22/03	^{134}Cs	1.3E-04 ± 1.7E-04	U	01/07/03 to 03/18/03	^{134}Cs	7.3E-05 ± 2.3E-04	U
	^{137}Cs	3.1E-05 ± 1.2E-04	U		^{137}Cs	-6.9E-05 ± 2.0E-04	U
	^{152}Eu	-1.8E-05 ± 1.8E-04	U		^{152}Eu	3.8E-04 ± 4.4E-04	U
	^{154}Eu	-2.9E-04 ± 4.3E-04	U		^{154}Eu	-6.4E-04 ± 6.7E-04	U
	^{155}Eu	-1.4E-04 ± 3.4E-04	U		^{155}Eu	-2.7E-04 ± 4.7E-04	U
	^{238}Pu	-4.4E-06 ± 2.1E-05	U		^{238}Pu	3.5E-06 ± 1.4E-05	U
	$^{239/240}\text{Pu}$	-1.5E-06 ± 3.0E-06	U		$^{239/240}\text{Pu}$	3.5E-06 ± 7.1E-06	U
	^{103}Ru	-1.4E-05 ± 9.8E-05	U		^{103}Ru	1.1E-04 ± 2.1E-04	U
	^{106}Ru	-3.3E-04 ± 1.0E-03	U		^{106}Ru	-2.8E-04 ± 1.9E-03	U
	^{125}Sb	3.9E-05 ± 3.0E-04	U		^{125}Sb	7.9E-05 ± 4.6E-04	U
	^{113}Sn	-5.5E-05 ± 1.2E-04	U		^{113}Sn	2.4E-04 ± 2.5E-04	U
	^{90}Sr	5.3E-05 ± 2.2E-04	U		^{90}Sr	7.4E-05 ± 2.5E-04	U
	^{234}U	1.5E-05 ± 1.2E-05			^{234}U	2.2E-05 ± 1.5E-05	
	^{235}U	2.9E-06 ± 4.2E-06	U		^{235}U	2.2E-06 ± 7.8E-06	U
	^{238}U	1.3E-05 ± 9.5E-06			^{238}U	4.1E-06 ± 8.2E-06	
	^{65}Zn	-4.5E-04 ± 4.6E-04	U		^{65}Zn	-1.9E-04 ± 5.1E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N495 (100-F) Composite Period 03/18/03 to 06/24/03	¹⁴⁴ Ce	-3.4E-04 ± 1.0E-03	U	N495 (100-F) 06/24/03 to 09/16/03	¹⁴⁴ Ce	1.3E-03 ± 1.7E-03	U
	⁶⁰ Co	5.5E-05 ± 1.4E-04	U		⁶⁰ Co	8.3E-05 ± 1.6E-04	U
	¹³⁴ Cs	1.6E-04 ± 1.4E-04	U		¹³⁴ Cs	-1.7E-04 ± 2.1E-04	U
	¹³⁷ Cs	1.3E-04 ± 1.3E-04	U		¹³⁷ Cs	7.6E-05 ± 1.5E-04	U
	¹⁵² Eu	1.2E-04 ± 2.6E-04	U		¹⁵² Eu	-1.4E-04 ± 4.6E-04	U
	¹⁵⁴ Eu	-4.3E-04 ± 4.5E-04	U		¹⁵⁴ Eu	1.3E-05 ± 1.3E-04	U
	¹⁵⁵ Eu	2.0E-04 ± 2.5E-04	U		¹⁵⁵ Eu	6.8E-07 ± 6.8E-06	U
	²³⁸ Pu	1.6E-05 ± 2.4E-05	U		²³⁸ Pu	1.3E-05 ± 1.8E-05	U
	^{239/240} Pu	1.8E-05 ± 1.3E-05			^{239/240} Pu	3.7E-06 ± 9.4E-06	U
	¹⁰³ Ru	5.3E-05 ± 9.4E-05	U		¹⁰³ Ru	2.5E-05 ± 1.4E-04	U
	¹⁰⁶ Ru	-4.1E-04 ± 9.8E-04	U		¹⁰⁶ Ru	-7.9E-04 ± 1.4E-03	U
	¹²⁵ Sb	-2.7E-05 ± 2.2E-04	U		¹²⁵ Sb	6.0E-05 ± 3.7E-04	U
	¹¹³ Sn	-1.6E-06 ± 1.6E-05	U		¹¹³ Sn	8.4E-06 ± 8.4E-05	U
	⁹⁰ Sr	-1.4E-04 ± 1.5E-04	U		⁹⁰ Sr	-3.9E-04 ± 4.0E-04	U
	²³⁴ U	9.3E-06 ± 9.4E-06	U		²³⁴ U	2.9E-05 ± 1.7E-05	
	²³⁵ U	8.8E-06 ± 8.9E-06	U		²³⁵ U	2.0E-06 ± 6.9E-06	U
	²³⁸ U	9.3E-06 ± 1.0E-05	U		²³⁸ U	2.1E-05 ± 1.4E-05	
	⁶⁵ Zn	3.3E-04 ± 3.3E-04	U		⁶⁵ Zn	-4.0E-04 ± 4.1E-04	U
N495 (100-F) Composite Period 09/16/03 to 12/22/03	¹⁴⁴ Ce	6.8E-04 ± 1.2E-03	U	N519 (100-F) 01/07/03 to 04/30/03	¹⁴⁴ Ce	-5.2E-04 ± 7.8E-04	U
	⁶⁰ Co	-2.5E-05 ± 1.5E-04	U		⁶⁰ Co	-6.2E-05 ± 1.1E-04	U
	¹³⁴ Cs	-3.7E-05 ± 1.3E-04	U		¹³⁴ Cs	4.4E-05 ± 1.2E-04	U
	¹³⁷ Cs	1.3E-05 ± 1.3E-04	U		¹³⁷ Cs	1.9E-05 ± 9.6E-05	U
	¹⁵² Eu	2.2E-04 ± 3.0E-04	U		¹⁵² Eu	5.6E-05 ± 2.3E-04	U
	¹⁵⁴ Eu	1.1E-04 ± 4.4E-04	U		¹⁵⁴ Eu	6.2E-05 ± 2.9E-04	U
	¹⁵⁵ Eu	-4.2E-05 ± 3.1E-04	U		¹⁵⁵ Eu	-5.6E-05 ± 2.1E-04	U
	²³⁸ Pu	1.3E-05 ± 2.5E-05	U		²³⁸ Pu	-7.3E-06 ± 2.0E-05	U
	^{239/240} Pu	-3.3E-06 ± 1.1E-05	U		^{239/240} Pu	1.8E-06 ± 3.6E-06	U
	¹⁰³ Ru	4.2E-05 ± 1.1E-04	U		¹⁰³ Ru	1.3E-05 ± 1.2E-04	U
	¹⁰⁶ Ru	-7.6E-05 ± 7.6E-04	U		¹⁰⁶ Ru	-5.6E-05 ± 5.6E-04	U
	¹²⁵ Sb	2.2E-04 ± 2.8E-04	U		¹²⁵ Sb	5.2E-05 ± 2.1E-04	U
	¹¹³ Sn	-2.5E-05 ± 1.2E-04	U		¹¹³ Sn	-9.3E-05 ± 1.2E-04	U
	⁹⁰ Sr	4.5E-05 ± 2.0E-04	U		⁹⁰ Sr	-2.3E-05 ± 1.6E-04	U
	²³⁴ U	3.2E-05 ± 1.7E-05			²³⁴ U	9.3E-06 ± 7.0E-06	
	²³⁵ U	8.7E-06 ± 9.8E-06	U		²³⁵ U	6.8E-06 ± 6.1E-06	
	²³⁸ U	2.4E-05 ± 1.4E-05			²³⁸ U	6.1E-06 ± 5.5E-06	
	⁶⁵ Zn	-4.2E-04 ± 4.3E-04	U		⁶⁵ Zn	9.8E-05 ± 2.6E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N520 (100-F)	^{144}Ce	2.2E-04 ± 1.3E-03	U	N521 (100-F)	^{144}Ce	9.8E-04 ± 1.2E-03	U
Composite Period	^{60}Co	-3.8E-05 ± 1.6E-04	U	Composite Period	^{60}Co	4.1E-05 ± 1.2E-04	U
01/07/03 to 04/30/03	^{134}Cs	5.3E-05 ± 1.3E-04	U	01/07/03 to 04/30/03	^{134}Cs	-4.0E-05 ± 1.3E-04	U
	^{137}Cs	1.5E-04 ± 1.4E-04	U		^{137}Cs	5.3E-06 ± 5.4E-05	U
	^{152}Eu	-6.3E-05 ± 3.1E-04	U		^{152}Eu	-2.3E-04 ± 3.4E-04	U
	^{154}Eu	3.2E-04 ± 4.3E-04	U		^{154}Eu	1.9E-04 ± 3.9E-04	U
	^{155}Eu	-1.2E-04 ± 3.5E-04	U		^{155}Eu	-4.8E-04 ± 5.0E-04	U
	^{238}Pu	-5.1E-06 ± 2.1E-05	U		^{238}Pu	1.5E-06 ± 1.5E-05	U
	$^{239/240}\text{Pu}$	-3.4E-06 ± 6.8E-06	U		$^{239/240}\text{Pu}$	5.4E-05 ± 2.7E-05	
	^{103}Ru	-9.0E-05 ± 1.5E-04	U		^{103}Ru	-4.9E-05 ± 1.5E-04	U
	^{106}Ru	1.0E-03 ± 1.2E-03	U		^{106}Ru	-6.7E-04 ± 1.2E-03	U
	^{125}Sb	-1.4E-04 ± 3.0E-04	U		^{125}Sb	9.0E-05 ± 2.8E-04	U
	^{113}Sn	8.6E-05 ± 1.6E-04	U		^{113}Sn	2.1E-05 ± 1.6E-04	U
	^{90}Sr	-2.0E-04 ± 2.0E-04	U		^{90}Sr	-1.1E-04 ± 1.3E-04	U
	^{234}U	6.1E-06 ± 7.5E-06	U		^{234}U	2.5E-05 ± 1.4E-05	
	^{235}U	5.3E-06 ± 5.5E-06			^{235}U	7.6E-06 ± 6.8E-06	
	^{238}U	4.9E-06 ± 6.0E-06	U		^{238}U	5.8E-06 ± 7.1E-06	U
	^{65}Zn	-2.0E-04 ± 3.4E-04	U		^{65}Zn	-1.9E-04 ± 2.7E-04	U
N522 (100-F)	^{144}Ce	-7.7E-04 ± 1.3E-03	U	N524 (100-H)	^{144}Ce	8.6E-04 ± 1.8E-03	U
Composite Period	^{60}Co	7.8E-06 ± 7.8E-05	U	Composite Period	^{60}Co	5.2E-05 ± 2.3E-04	U
01/07/03 to 04/30/03	^{134}Cs	-4.8E-05 ± 1.2E-04	U	01/07/03 to 03/17/03	^{134}Cs	4.9E-05 ± 2.5E-04	U
	^{137}Cs	3.5E-05 ± 1.2E-04	U		^{137}Cs	4.7E-05 ± 2.1E-04	U
	^{152}Eu	1.3E-04 ± 3.2E-04	U		^{152}Eu	-2.2E-04 ± 4.7E-04	U
	^{154}Eu	1.3E-04 ± 3.1E-04	U		^{154}Eu	4.0E-04 ± 6.7E-04	U
	^{155}Eu	7.5E-06 ± 7.5E-05	U		^{155}Eu	-1.8E-04 ± 4.5E-04	U
	^{238}Pu	-3.4E-06 ± 2.6E-05	U		^{238}Pu	1.8E-06 ± 1.1E-05	U
	$^{239/240}\text{Pu}$	1.8E-06 ± 1.8E-06	U		$^{239/240}\text{Pu}$	-3.9E-06 ± 5.5E-06	U
	^{103}Ru	8.8E-06 ± 8.8E-05	U		^{103}Ru	1.3E-04 ± 2.1E-04	U
	^{106}Ru	9.7E-04 ± 1.2E-03	U		^{106}Ru	2.9E-03 ± 2.0E-03	U
	^{125}Sb	4.8E-05 ± 2.7E-04	U		^{125}Sb	1.3E-05 ± 1.3E-04	U
	^{113}Sn	-6.8E-07 ± 6.9E-06	U		^{113}Sn	3.7E-05 ± 2.1E-04	U
	^{90}Sr	3.8E-05 ± 1.4E-04	U		^{90}Sr	-2.8E-04 ± 2.8E-04	U
	^{234}U	1.2E-05 ± 8.4E-06			^{234}U	8.0E-06 ± 9.7E-06	U
	^{235}U	3.5E-06 ± 4.3E-06			^{235}U	2.0E-06 ± 2.1E-06	U
	^{238}U	7.6E-06 ± 6.4E-06			^{238}U	3.9E-06 ± 7.8E-06	U
	^{65}Zn	-2.1E-04 ± 2.7E-04	U		^{65}Zn	-1.6E-04 ± 5.3E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N524 (100-H) Composite Period 03/17/03 to 06/24/03	¹⁴⁴ Ce	4.6E-04 ± 1.0E-03	U	N524 (100-H) 06/24/03 to 09/16/03	¹⁴⁴ Ce	-8.8E-04 ± 1.6E-03	U
	⁶⁰ Co	2.4E-05 ± 1.3E-04	U		⁶⁰ Co	6.8E-05 ± 1.7E-04	U
	¹³⁴ Cs	-3.3E-06 ± 3.3E-05	U		¹³⁴ Cs	-2.8E-05 ± 1.5E-04	U
	¹³⁷ Cs	8.6E-06 ± 8.6E-05	U		¹³⁷ Cs	1.1E-03 ± 4.0E-04	
	¹⁵² Eu	6.8E-05 ± 2.5E-04	U		¹⁵² Eu	8.8E-05 ± 4.1E-04	U
	¹⁵⁴ Eu	-2.0E-04 ± 3.9E-04	U		¹⁵⁴ Eu	2.0E-04 ± 4.1E-04	U
	¹⁵⁵ Eu	5.9E-05 ± 2.7E-04	U		¹⁵⁵ Eu	-1.4E-04 ± 4.6E-04	U
	²³⁸ Pu	-6.6E-06 ± 2.3E-05	U		²³⁸ Pu	2.7E-05 ± 3.5E-05	U
	^{239/240} Pu	3.1E-05 ± 1.9E-05			^{239/240} Pu	1.6E-04 ± 6.4E-05	
	¹⁰³ Ru	-7.3E-05 ± 9.8E-05	U		¹⁰³ Ru	-9.8E-06 ± 9.8E-05	U
	¹⁰⁶ Ru	-4.0E-04 ± 9.2E-04	U		¹⁰⁶ Ru	5.4E-04 ± 1.4E-03	U
	¹²⁵ Sb	1.4E-04 ± 3.0E-04	U		¹²⁵ Sb	-7.8E-05 ± 4.1E-04	U
	¹¹³ Sn	-3.2E-05 ± 1.1E-04	U		¹¹³ Sn	7.8E-05 ± 1.8E-04	U
	⁹⁰ Sr	3.4E-04 ± 1.9E-04			⁹⁰ Sr	6.7E-04 ± 2.6E-04	
	²³⁴ U	1.6E-05 ± 1.1E-05			²³⁴ U	3.0E-05 ± 2.0E-05	
	²³⁵ U	8.8E-06 ± 7.9E-06			²³⁵ U	1.8E-06 ± 1.9E-06	U
	²³⁸ U	1.1E-05 ± 8.5E-06			²³⁸ U	2.0E-05 ± 1.4E-05	
	⁶⁵ Zn	-2.9E-06 ± 2.9E-05	U		⁶⁵ Zn	1.7E-04 ± 3.2E-04	U
N524 (100-H) Composite Period 09/16/03 to 12/22/03	¹⁴⁴ Ce	-9.8E-04 ± 1.3E-03	U	N525 (100-H) 01/07/03 to 03/17/03	¹⁴⁴ Ce	-4.4E-04 ± 1.8E-03	U
	⁶⁰ Co	-1.6E-04 ± 1.6E-04	U		⁶⁰ Co	5.2E-05 ± 1.9E-04	U
	¹³⁴ Cs	-3.3E-05 ± 1.4E-04	U		¹³⁴ Cs	1.5E-04 ± 2.0E-04	U
	¹³⁷ Cs	6.2E-04 ± 3.1E-04			¹³⁷ Cs	-2.1E-04 ± 2.2E-04	U
	¹⁵² Eu	-1.3E-04 ± 4.0E-04	U		¹⁵² Eu	-6.9E-04 ± 7.1E-04	U
	¹⁵⁴ Eu	-2.1E-04 ± 4.2E-04	U		¹⁵⁴ Eu	-3.0E-05 ± 3.0E-04	U
	¹⁵⁵ Eu	3.2E-05 ± 3.2E-04	U		¹⁵⁵ Eu	2.3E-05 ± 2.3E-04	U
	²³⁸ Pu	-6.2E-06 ± 2.1E-05	U		²³⁸ Pu	2.0E-06 ± 2.1E-06	U
	^{239/240} Pu	4.9E-05 ± 2.5E-05			^{239/240} Pu	-5.9E-06 ± 1.1E-05	U
	¹⁰³ Ru	1.8E-06 ± 1.8E-05	U		¹⁰³ Ru	2.5E-05 ± 2.3E-04	U
	¹⁰⁶ Ru	-1.1E-03 ± 1.1E-03	U		¹⁰⁶ Ru	-8.2E-04 ± 1.5E-03	U
	¹²⁵ Sb	-2.3E-05 ± 2.3E-04	U		¹²⁵ Sb	-1.4E-04 ± 4.3E-04	U
	¹¹³ Sn	3.6E-10 ± 3.6E-09	U		¹¹³ Sn	-1.3E-04 ± 2.0E-04	U
	⁹⁰ Sr	2.3E-04 ± 2.2E-04			⁹⁰ Sr	-2.2E-04 ± 2.3E-04	U
	²³⁴ U	2.8E-05 ± 1.6E-05			²³⁴ U	1.4E-05 ± 1.2E-05	
	²³⁵ U	4.2E-06 ± 6.4E-06	U		²³⁵ U	1.8E-06 ± 1.9E-06	U
	²³⁸ U	2.1E-05 ± 1.3E-05			²³⁸ U	9.1E-06 ± 1.0E-05	U
	⁶⁵ Zn	2.0E-04 ± 3.4E-04	U		⁶⁵ Zn	-2.0E-05 ± 2.0E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N525 (100-H) Composite Period 03/17/03 to 06/24/03	¹⁴⁴ Ce	2.3E-04 ± 7.5E-04	U	N525 (100-H) Composite Period 06/24/03 to 09/16/03	¹⁴⁴ Ce	-3.9E-04 ± 1.7E-03	U
	⁶⁰ Co	3.9E-05 ± 8.9E-05	U		⁶⁰ Co	-8.5E-05 ± 1.6E-04	U
	¹³⁴ Cs	-1.3E-05 ± 7.2E-05	U		¹³⁴ Cs	-8.6E-05 ± 1.7E-04	U
	¹³⁷ Cs	-5.7E-06 ± 5.7E-05	U		¹³⁷ Cs	8.1E-05 ± 1.6E-04	U
	¹⁵² Eu	-6.5E-05 ± 1.6E-04	U		¹⁵² Eu	-8.9E-05 ± 4.2E-04	U
	¹⁵⁴ Eu	-5.0E-05 ± 2.4E-04	U		¹⁵⁴ Eu	-3.3E-05 ± 3.3E-04	U
	¹⁵⁵ Eu	8.6E-05 ± 1.6E-04	U		¹⁵⁵ Eu	-1.2E-04 ± 4.6E-04	U
	²³⁸ Pu	-1.0E-05 ± 1.9E-05	U		²³⁸ Pu	-7.2E-06 ± 2.7E-05	U
	^{239/240} Pu	-1.4E-06 ± 5.0E-06	U		^{239/240} Pu	1.8E-06 ± 1.8E-06	U
	¹⁰³ Ru	3.8E-05 ± 6.2E-05	U		¹⁰³ Ru	2.3E-05 ± 1.5E-04	U
	¹⁰⁶ Ru	-7.4E-04 ± 7.7E-04	U		¹⁰⁶ Ru	-1.8E-04 ± 1.3E-03	U
	¹²⁵ Sb	-4.8E-05 ± 1.6E-04	U		¹²⁵ Sb	-7.8E-05 ± 3.9E-04	U
	¹¹³ Sn	-2.7E-05 ± 7.3E-05	U		¹¹³ Sn	6.9E-05 ± 1.8E-04	U
	⁹⁰ Sr	-1.2E-04 ± 1.6E-04	U		⁹⁰ Sr	-3.3E-05 ± 2.6E-04	U
	²³⁴ U	9.6E-06 ± 9.0E-06	U		²³⁴ U	1.9E-05 ± 1.4E-05	
	²³⁵ U	1.3E-06 ± 4.5E-06	U		²³⁵ U	3.9E-06 ± 7.9E-06	U
	²³⁸ U	1.1E-05 ± 8.2E-06			²³⁸ U	1.1E-05 ± 1.1E-05	U
	⁶⁵ Zn	1.2E-05 ± 1.2E-04	U		⁶⁵ Zn	3.5E-04 ± 3.6E-04	U
N525 (100-H) Composite Period 09/16/03 to 12/22/03	¹⁴⁴ Ce	-4.9E-04 ± 1.1E-03	U	N401 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	1.2E-05 ± 1.7E-05	U
	⁶⁰ Co	1.2E-04 ± 1.5E-04	U		¹⁴⁴ Ce	5.9E-05 ± 5.9E-04	U
	¹³⁴ Cs	1.0E-04 ± 1.2E-04	U		⁶⁰ Co	7.5E-05 ± 8.8E-05	U
	¹³⁷ Cs	4.0E-05 ± 1.2E-04	U		¹³⁴ Cs	-1.2E-05 ± 7.9E-05	U
	¹⁵² Eu	-6.9E-05 ± 2.7E-04	U		¹³⁷ Cs	-8.5E-05 ± 8.8E-05	U
	¹⁵⁴ Eu	-8.5E-05 ± 3.9E-04	U		¹⁵² Eu	6.0E-05 ± 1.9E-04	U
	¹⁵⁵ Eu	1.0E-04 ± 2.9E-04	U		¹⁵⁴ Eu	1.1E-04 ± 2.7E-04	U
	²³⁸ Pu	4.9E-06 ± 2.7E-05	U		¹⁵⁵ Eu	1.5E-05 ± 1.5E-04	U
	^{239/240} Pu	3.2E-06 ± 1.0E-05	U		²³⁸ Pu	1.1E-05 ± 3.4E-05	U
	¹⁰³ Ru	1.2E-05 ± 1.0E-04	U		^{239/240} Pu	3.8E-06 ± 7.8E-06	U
	¹⁰⁶ Ru	-3.3E-04 ± 9.3E-04	U		²⁴¹ Pu	1.7E-04 ± 1.2E-03	U
	¹²⁵ Sb	7.0E-05 ± 2.7E-04	U		¹⁰³ Ru	3.7E-05 ± 6.8E-05	U
	¹¹³ Sn	3.7E-05 ± 1.1E-04	U		¹⁰⁶ Ru	4.4E-05 ± 4.4E-04	U
	⁹⁰ Sr	-2.7E-04 ± 2.8E-04	U		¹²⁵ Sb	1.2E-04 ± 1.7E-04	U
	²³⁴ U	3.1E-05 ± 1.7E-05			¹¹³ Sn	7.6E-05 ± 8.9E-05	U
	²³⁵ U	4.0E-06 ± 5.0E-06			⁹⁰ Sr	4.5E-05 ± 9.6E-05	U
	²³⁸ U	8.7E-06 ± 7.2E-06			²³⁴ U	1.1E-05 ± 7.0E-06	
	⁶⁵ Zn	7.6E-05 ± 2.9E-04	U		²³⁵ U	5.5E-06 ± 4.7E-06	
					²³⁸ U	9.8E-06 ± 6.4E-06	
					⁶⁵ Zn	6.1E-05 ± 1.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N401 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	1.1E-05 ± 1.6E-05	U	N402 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	7.1E-06 ± 1.4E-05	U
	¹⁴⁴ Ce	8.2E-05 ± 6.8E-04	U		¹⁴⁴ Ce	-1.3E-04 ± 7.8E-04	U
	⁶⁰ Co	4.2E-05 ± 6.9E-05	U		⁶⁰ Co	-4.8E-05 ± 1.0E-04	U
	¹³⁴ Cs	-3.2E-05 ± 6.6E-05	U		¹³⁴ Cs	-2.5E-05 ± 9.8E-05	U
	¹³⁷ Cs	-2.8E-05 ± 6.8E-05	U		¹³⁷ Cs	1.0E-04 ± 9.2E-05	U
	¹⁵² Eu	-1.0E-04 ± 2.1E-04	U		¹⁵² Eu	2.5E-05 ± 2.0E-04	U
	¹⁵⁴ Eu	-1.8E-04 ± 2.3E-04	U		¹⁵⁴ Eu	2.3E-04 ± 2.9E-04	U
	¹⁵⁵ Eu	-3.1E-05 ± 1.9E-04	U		¹⁵⁵ Eu	2.2E-05 ± 2.0E-04	U
	²³⁸ Pu	-1.3E-05 ± 3.0E-05	U		²³⁸ Pu	-9.0E-06 ± 2.9E-05	U
	^{239/240} Pu	1.2E-05 ± 9.8E-06			^{239/240} Pu	1.1E-05 ± 1.1E-05	U
	²⁴¹ Pu	-6.4E-04 ± 6.6E-04	U		²⁴¹ Pu	1.1E-05 ± 1.1E-04	U
	¹⁰³ Ru	-1.9E-05 ± 5.9E-05	U		¹⁰³ Ru	7.1E-05 ± 8.9E-05	U
	¹⁰⁶ Ru	-9.8E-05 ± 5.5E-04	U		¹⁰⁶ Ru	2.8E-04 ± 7.8E-04	U
	¹²⁵ Sb	1.4E-04 ± 1.7E-04	U		¹²⁵ Sb	1.1E-04 ± 1.9E-04	U
	¹¹³ Sn	-1.4E-05 ± 6.9E-05	U		¹¹³ Sn	2.4E-05 ± 9.2E-05	U
	⁹⁰ Sr	-2.9E-05 ± 8.6E-05	U		⁹⁰ Sr	-5.7E-05 ± 8.7E-05	U
	²³⁴ U	1.5E-05 ± 8.5E-06			²³⁴ U	9.0E-06 ± 6.0E-06	
	²³⁵ U	8.0E-07 ± 1.6E-06	U		²³⁵ U	2.9E-06 ± 3.0E-06	
	²³⁸ U	1.5E-05 ± 8.9E-06			²³⁸ U	8.0E-06 ± 5.5E-06	
	⁶⁵ Zn	2.3E-04 ± 1.9E-04	U		⁶⁵ Zn	5.3E-05 ± 2.2E-04	U
N402 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	-9.5E-07 ± 9.5E-06	U	N403 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	1.9E-06 ± 1.5E-05	U
	¹⁴⁴ Ce	-6.5E-04 ± 6.7E-04	U		¹⁴⁴ Ce	-4.3E-05 ± 4.3E-04	U
	⁶⁰ Co	-6.6E-05 ± 8.1E-05	U		⁶⁰ Co	1.7E-05 ± 8.3E-05	U
	¹³⁴ Cs	-1.7E-05 ± 6.9E-05	U		¹³⁴ Cs	2.8E-05 ± 7.3E-05	U
	¹³⁷ Cs	7.7E-06 ± 6.7E-05	U		¹³⁷ Cs	5.4E-05 ± 6.5E-05	U
	¹⁵² Eu	1.4E-04 ± 1.5E-04	U		¹⁵² Eu	-2.0E-04 ± 2.1E-04	U
	¹⁵⁴ Eu	-1.4E-04 ± 2.3E-04	U		¹⁵⁴ Eu	5.6E-07 ± 5.6E-06	U
	¹⁵⁵ Eu	-2.9E-05 ± 1.5E-04	U		¹⁵⁵ Eu	1.2E-04 ± 1.5E-04	U
	²³⁸ Pu	1.2E-05 ± 2.6E-05	U		²³⁸ Pu	-1.3E-05 ± 2.0E-05	U
	^{239/240} Pu	3.5E-06 ± 7.1E-06	U		^{239/240} Pu	5.9E-06 ± 7.2E-06	
	²⁴¹ Pu	4.7E-04 ± 7.4E-04	U		²⁴¹ Pu	8.9E-04 ± 1.1E-03	U
	¹⁰³ Ru	-1.8E-06 ± 1.8E-05	U		¹⁰³ Ru	3.8E-05 ± 6.1E-05	U
	¹⁰⁶ Ru	-6.2E-04 ± 6.4E-04	U		¹⁰⁶ Ru	2.2E-04 ± 6.1E-04	U
	¹²⁵ Sb	3.0E-05 ± 1.3E-04	U		¹²⁵ Sb	-9.0E-05 ± 1.5E-04	U
	¹¹³ Sn	-2.4E-05 ± 6.3E-05	U		¹¹³ Sn	3.7E-05 ± 7.1E-05	U
	⁹⁰ Sr	-1.2E-04 ± 1.2E-04	U		⁹⁰ Sr	-3.7E-05 ± 8.2E-05	U
	²³⁴ U	1.1E-05 ± 8.5E-06			²³⁴ U	7.1E-06 ± 5.9E-06	
	²³⁵ U	8.1E-07 ± 8.4E-07	U		²³⁵ U	2.3E-06 ± 2.8E-06	
	²³⁸ U	1.8E-05 ± 1.0E-05			²³⁸ U	1.1E-05 ± 6.9E-06	
	⁶⁵ Zn	-7.4E-06 ± 7.4E-05	U		⁶⁵ Zn	-5.3E-05 ± 1.5E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N403 (100-K)	^{241}Am	7.9E-06 ± 1.5E-05	U	N404 (100-K)	^{241}Am	1.3E-05 ± 1.6E-05	U
Composite Period	^{144}Ce	2.7E-04 ± 6.8E-04	U	Composite Period	^{144}Ce	-3.6E-05 ± 3.6E-04	U
06/23/03 to 12/22/03	^{60}Co	8.1E-05 ± 9.3E-05	U	01/06/03 to 06/23/03	^{60}Co	-3.2E-05 ± 9.3E-05	U
	^{134}Cs	3.2E-05 ± 8.3E-05	U		^{134}Cs	2.2E-05 ± 8.5E-05	U
	^{137}Cs	3.1E-05 ± 7.5E-05	U		^{137}Cs	-1.2E-04 ± 1.2E-04	U
	^{152}Eu	1.2E-04 ± 1.8E-04	U		^{152}Eu	1.6E-04 ± 2.1E-04	U
	^{154}Eu	1.1E-04 ± 2.6E-04	U		^{154}Eu	3.8E-04 ± 3.1E-04	U
	^{155}Eu	6.4E-05 ± 1.7E-04	U		^{155}Eu	9.2E-05 ± 2.1E-04	U
	^{238}Pu	-1.6E-06 ± 1.6E-05	U		^{238}Pu	2.4E-05 ± 2.9E-05	U
	$^{239/240}\text{Pu}$	4.6E-06 ± 7.0E-06	U		$^{239/240}\text{Pu}$	9.7E-06 ± 1.2E-05	U
	^{241}Pu	-4.2E-04 ± 4.4E-04	U		^{241}Pu	2.8E-04 ± 1.2E-03	U
	^{103}Ru	-5.5E-05 ± 7.1E-05	U		^{103}Ru	-1.5E-05 ± 6.9E-05	U
	^{106}Ru	1.9E-04 ± 6.2E-04	U		^{106}Ru	-4.8E-04 ± 7.2E-04	U
	^{125}Sb	-8.1E-05 ± 1.7E-04	U		^{125}Sb	-3.7E-05 ± 1.9E-04	U
	^{113}Sn	2.3E-05 ± 7.8E-05	U		^{113}Sn	4.4E-05 ± 8.6E-05	U
	^{90}Sr	1.0E-04 ± 9.9E-05			^{90}Sr	1.6E-05 ± 9.9E-05	U
	^{234}U	1.6E-05 ± 9.7E-06			^{234}U	1.3E-05 ± 8.2E-06	
	^{235}U	5.2E-06 ± 5.3E-06	U		^{235}U	1.7E-06 ± 2.4E-06	U
	^{238}U	1.5E-05 ± 9.2E-06			^{238}U	4.6E-06 ± 4.2E-06	
	^{65}Zn	5.2E-05 ± 2.2E-04	U		^{65}Zn	-3.1E-05 ± 1.9E-04	U
N404 (100-K)	^{241}Am	-5.5E-06 ± 1.3E-05	U	N476 (100-K)	^{241}Am	1.1E-05 ± 1.5E-05	U
Composite Period	^{144}Ce	1.2E-04 ± 5.2E-04	U	Composite Period	^{144}Ce	7.6E-04 ± 7.9E-04	U
06/23/03 to 12/22/03	^{60}Co	1.8E-05 ± 8.7E-05	U	01/06/03 to 06/23/03	^{60}Co	4.8E-05 ± 9.9E-05	U
	^{134}Cs	-3.3E-05 ± 7.0E-05	U		^{134}Cs	-2.9E-05 ± 8.7E-05	U
	^{137}Cs	2.8E-05 ± 5.7E-05	U		^{137}Cs	-2.1E-05 ± 7.8E-05	U
	^{152}Eu	-6.1E-05 ± 1.4E-04	U		^{152}Eu	9.0E-05 ± 2.0E-04	U
	^{154}Eu	-1.5E-04 ± 2.2E-04	U		^{154}Eu	-6.7E-05 ± 2.6E-04	U
	^{155}Eu	1.5E-05 ± 1.3E-04	U		^{155}Eu	-1.3E-05 ± 1.3E-04	U
	^{238}Pu	-3.2E-06 ± 2.5E-05	U		^{238}Pu	3.8E-06 ± 3.0E-05	U
	$^{239/240}\text{Pu}$	-6.4E-06 ± 7.8E-06	U		$^{239/240}\text{Pu}$	1.9E-06 ± 3.8E-06	U
	^{241}Pu	-4.4E-04 ± 4.6E-04	U		^{241}Pu	3.6E-04 ± 1.1E-03	U
	^{103}Ru	9.2E-06 ± 5.2E-05	U		^{103}Ru	-7.0E-05 ± 8.9E-05	U
	^{106}Ru	4.0E-05 ± 4.0E-04	U		^{106}Ru	-2.0E-05 ± 2.0E-04	U
	^{125}Sb	4.6E-05 ± 1.3E-04	U		^{125}Sb	2.3E-05 ± 1.9E-04	U
	^{113}Sn	6.2E-06 ± 6.2E-05	U		^{113}Sn	-3.3E-05 ± 9.2E-05	U
	^{90}Sr	-9.1E-05 ± 9.4E-05	U		^{90}Sr	-5.3E-05 ± 7.7E-05	U
	^{234}U	1.8E-05 ± 9.8E-06			^{234}U	1.1E-05 ± 7.6E-06	
	^{235}U	-7.0E-07 ± 1.4E-06	U		^{235}U	1.6E-06 ± 4.0E-06	U
	^{238}U	6.7E-06 ± 5.3E-06			^{238}U	5.9E-06 ± 5.5E-06	U
	^{65}Zn	1.2E-05 ± 1.3E-04	U		^{65}Zn	-2.3E-04 ± 2.4E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N476 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	8.3E-06 ± 1.4E-05	U	N477 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	1.1E-06 ± 1.1E-05	U
	¹⁴⁴ Ce	2.1E-04 ± 7.9E-04	U		¹⁴⁴ Ce	2.5E-04 ± 7.7E-04	U
	⁶⁰ Co	5.9E-05 ± 9.4E-05	U		⁶⁰ Co	5.0E-05 ± 7.9E-05	U
	¹³⁴ Cs	-3.3E-05 ± 9.6E-05	U		¹³⁴ Cs	-8.6E-06 ± 7.7E-05	U
	¹³⁷ Cs	9.1E-05 ± 8.6E-05	U		¹³⁷ Cs	-2.5E-05 ± 7.5E-05	U
	¹⁵² Eu	7.1E-05 ± 2.1E-04	U		¹⁵² Eu	2.3E-05 ± 2.2E-04	U
	¹⁵⁴ Eu	-2.4E-04 ± 2.7E-04	U		¹⁵⁴ Eu	-2.5E-04 ± 2.5E-04	U
	¹⁵⁵ Eu	1.3E-04 ± 1.9E-04	U		¹⁵⁵ Eu	-8.6E-05 ± 2.2E-04	U
	²³⁸ Pu	1.1E-05 ± 2.1E-05	U		²³⁸ Pu	-6.1E-06 ± 3.3E-05	U
	^{239/240} Pu	-3.2E-06 ± 6.6E-06	U		^{239/240} Pu	-4.0E-06 ± 1.0E-05	U
	²⁴¹ Pu	3.8E-05 ± 3.8E-04	U		²⁴¹ Pu	3.1E-04 ± 1.1E-03	U
	¹⁰³ Ru	2.6E-05 ± 9.9E-05	U		¹⁰³ Ru	-2.7E-05 ± 9.0E-05	U
	¹⁰⁶ Ru	-1.3E-04 ± 7.1E-04	U		¹⁰⁶ Ru	-2.8E-04 ± 7.9E-04	U
	¹²⁵ Sb	8.8E-05 ± 1.8E-04	U		¹²⁵ Sb	-7.6E-05 ± 1.8E-04	U
	¹¹³ Sn	1.3E-05 ± 9.2E-05	U		¹¹³ Sn	-2.0E-05 ± 8.8E-05	U
	⁹⁰ Sr	-1.1E-04 ± 1.2E-04	U		⁹⁰ Sr	-6.7E-05 ± 7.6E-05	U
	²³⁴ U	1.7E-05 ± 9.9E-06	U		²³⁴ U	9.0E-06 ± 6.5E-06	U
	²³⁵ U	1.7E-06 ± 3.4E-06	U		²³⁵ U	3.2E-06 ± 4.0E-06	U
	²³⁸ U	8.3E-06 ± 5.9E-06	U		²³⁸ U	9.7E-06 ± 6.5E-06	U
	⁶⁵ Zn	-1.7E-04 ± 2.3E-04	U		⁶⁵ Zn	-1.2E-04 ± 1.7E-04	U
N477 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	5.3E-06 ± 4.9E-06	U	N478 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	1.7E-06 ± 1.1E-05	U
	¹⁴⁴ Ce	2.9E-05 ± 2.9E-04	U		¹⁴⁴ Ce	5.6E-04 ± 7.6E-04	U
	⁶⁰ Co	-3.0E-05 ± 9.3E-05	U		⁶⁰ Co	-6.0E-06 ± 6.0E-05	U
	¹³⁴ Cs	-2.1E-05 ± 6.7E-05	U		¹³⁴ Cs	1.7E-05 ± 8.7E-05	U
	¹³⁷ Cs	2.0E-05 ± 6.0E-05	U		¹³⁷ Cs	-8.7E-06 ± 7.9E-05	U
	¹⁵² Eu	2.6E-04 ± 1.8E-04	U		¹⁵² Eu	5.1E-05 ± 2.1E-04	U
	¹⁵⁴ Eu	2.0E-04 ± 2.3E-04	U		¹⁵⁴ Eu	9.1E-05 ± 2.9E-04	U
	¹⁵⁵ Eu	1.2E-05 ± 1.3E-04	U		¹⁵⁵ Eu	-3.2E-05 ± 2.0E-04	U
	²³⁸ Pu	-2.8E-06 ± 1.6E-05	U		²³⁸ Pu	2.0E-05 ± 3.0E-05	U
	^{239/240} Pu	4.2E-06 ± 7.7E-06	U		^{239/240} Pu	5.8E-06 ± 1.1E-05	U
	²⁴¹ Pu	-3.3E-04 ± 3.4E-04	U		²⁴¹ Pu	2.8E-04 ± 1.0E-03	U
	¹⁰³ Ru	-6.8E-07 ± 6.8E-06	U		¹⁰³ Ru	1.7E-05 ± 9.3E-05	U
	¹⁰⁶ Ru	-7.2E-05 ± 5.7E-04	U		¹⁰⁶ Ru	-3.4E-04 ± 7.1E-04	U
	¹²⁵ Sb	-6.9E-05 ± 1.4E-04	U		¹²⁵ Sb	5.5E-05 ± 1.8E-04	U
	¹¹³ Sn	1.6E-05 ± 6.7E-05	U		¹¹³ Sn	-2.2E-05 ± 8.6E-05	U
	⁹⁰ Sr	7.0E-06 ± 7.0E-05	U		⁹⁰ Sr	7.6E-06 ± 7.6E-05	U
	²³⁴ U	1.6E-05 ± 9.7E-06	U		²³⁴ U	9.9E-06 ± 7.6E-06	U
	²³⁵ U	7.7E-07 ± 1.6E-06	U		²³⁵ U	2.3E-06 ± 3.6E-06	U
	²³⁸ U	1.2E-05 ± 7.8E-06	U		²³⁸ U	6.4E-06 ± 5.3E-06	U
	⁶⁵ Zn	-2.6E-04 ± 2.7E-04	U		⁶⁵ Zn	8.0E-05 ± 2.1E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N478 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	1.9E-05 ± 1.5E-05	U	N479 (100-K) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	9.2E-06 ± 1.4E-05	U
	¹⁴⁴ Ce	1.6E-04 ± 1.1E-03	U		¹⁴⁴ Ce	-2.2E-04 ± 8.2E-04	U
	⁶⁰ Co	-1.2E-04 ± 1.3E-04	U		⁶⁰ Co	-7.6E-05 ± 8.1E-05	U
	¹³⁴ Cs	3.0E-05 ± 1.2E-04	U		¹³⁴ Cs	-6.2E-05 ± 8.4E-05	U
	¹³⁷ Cs	-1.2E-06 ± 1.2E-05	U		¹³⁷ Cs	1.7E-05 ± 7.5E-05	U
	¹⁵² Eu	3.0E-04 ± 3.0E-04	U		¹⁵² Eu	-1.3E-05 ± 1.3E-04	U
	¹⁵⁴ Eu	1.9E-04 ± 3.6E-04	U		¹⁵⁴ Eu	6.4E-05 ± 2.3E-04	U
	¹⁵⁵ Eu	4.3E-06 ± 4.3E-05	U		¹⁵⁵ Eu	5.7E-05 ± 2.2E-04	U
	²³⁸ Pu	1.8E-06 ± 1.9E-06	U		²³⁸ Pu	9.2E-06 ± 3.0E-05	U
	^{239/240} Pu	5.3E-06 ± 6.5E-06			^{239/240} Pu	6.7E-06 ± 1.0E-05	U
	²⁴¹ Pu	-3.7E-05 ± 3.9E-05	U		²⁴¹ Pu	3.1E-04 ± 1.2E-03	U
	¹⁰³ Ru	-2.3E-05 ± 1.3E-04	U		¹⁰³ Ru	-6.8E-05 ± 9.3E-05	U
	¹⁰⁶ Ru	9.7E-05 ± 9.7E-04	U		¹⁰⁶ Ru	-4.2E-04 ± 7.0E-04	U
	¹²⁵ Sb	-1.3E-04 ± 2.0E-04	U		¹²⁵ Sb	5.5E-05 ± 1.8E-04	U
	¹¹³ Sn	5.9E-05 ± 1.2E-04	U		¹¹³ Sn	-7.5E-05 ± 8.9E-05	U
	⁹⁰ Sr	-8.2E-05 ± 9.3E-05	U		⁹⁰ Sr	7.7E-06 ± 7.7E-05	U
	²³⁴ U	1.2E-05 ± 7.3E-06			²³⁴ U	9.2E-06 ± 7.9E-06	U
	²³⁵ U	3.8E-06 ± 3.7E-06			²³⁵ U	4.2E-06 ± 6.4E-06	U
	²³⁸ U	8.9E-06 ± 6.9E-06			²³⁸ U	7.7E-06 ± 5.6E-06	
	⁶⁵ Zn	-3.4E-04 ± 3.5E-04	U		⁶⁵ Zn	-9.7E-05 ± 1.8E-04	U
N479 (100-K) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	-8.6E-07 ± 8.6E-06	U	N528 (100-K) Composite Period 01/07/03 to 06/23/03	¹⁴⁴ Ce	-3.2E-04 ± 8.6E-04	U
	¹⁴⁴ Ce	1.1E-05 ± 1.1E-04	U		⁶⁰ Co	-5.5E-05 ± 8.1E-05	U
	⁶⁰ Co	5.4E-05 ± 8.8E-05	U		¹³⁴ Cs	6.1E-05 ± 8.5E-05	U
	¹³⁴ Cs	-8.2E-05 ± 8.9E-05	U		¹³⁷ Cs	7.2E-05 ± 7.7E-05	U
	¹³⁷ Cs	3.9E-06 ± 3.9E-05	U		¹⁵² Eu	-5.4E-05 ± 2.3E-04	U
	¹⁵² Eu	-2.9E-05 ± 2.0E-04	U		¹⁵⁴ Eu	-1.3E-04 ± 2.2E-04	U
	¹⁵⁴ Eu	7.1E-05 ± 2.6E-04	U		¹⁵⁵ Eu	-9.2E-05 ± 2.2E-04	U
	¹⁵⁵ Eu	-3.5E-05 ± 1.7E-04	U		²³⁸ Pu	-9.4E-07 ± 9.4E-06	U
	²³⁸ Pu	-3.4E-06 ± 2.7E-05	U		^{239/240} Pu	2.9E-06 ± 4.4E-06	U
	^{239/240} Pu	8.6E-06 ± 9.7E-06	U		¹⁰³ Ru	4.5E-06 ± 4.5E-05	U
	²⁴¹ Pu	3.9E-04 ± 7.2E-04	U		¹⁰⁶ Ru	-1.6E-04 ± 7.1E-04	U
	¹⁰³ Ru	-7.1E-06 ± 7.2E-05	U		¹²⁵ Sb	1.1E-04 ± 2.0E-04	U
	¹⁰⁶ Ru	-4.4E-04 ± 6.5E-04	U		¹¹³ Sn	-6.9E-05 ± 9.8E-05	U
	¹²⁵ Sb	-4.8E-05 ± 1.7E-04	U		⁹⁰ Sr	-3.6E-07 ± 3.6E-06	U
	¹¹³ Sn	-1.0E-05 ± 8.1E-05	U		²³⁴ U	1.1E-05 ± 7.1E-06	
	⁹⁰ Sr	-1.1E-04 ± 1.1E-04	U		²³⁵ U	3.3E-06 ± 3.4E-06	
	²³⁴ U	1.7E-05 ± 9.1E-06			²³⁸ U	9.4E-06 ± 6.8E-06	
	²³⁵ U	3.0E-06 ± 3.1E-06			⁶⁵ Zn	-3.2E-04 ± 3.4E-04	U
	²³⁸ U	9.3E-06 ± 6.2E-06					
	⁶⁵ Zn	-8.9E-05 ± 2.4E-04	U				

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N528 (100-K) Composite Period 06/23/03 to 12/22/03	^{144}Ce	-5.2E-04 \pm 6.7E-04	U	N529 (100-K) Composite Period 01/07/03 to 06/23/03	^{144}Ce	3.8E-04 \pm 8.0E-04	U
	^{60}Co	-7.0E-05 \pm 1.0E-04	U		^{60}Co	-4.8E-05 \pm 1.0E-04	U
	^{134}Cs	-1.1E-05 \pm 7.7E-05	U		^{134}Cs	-2.5E-06 \pm 2.5E-05	U
	^{137}Cs	-5.8E-06 \pm 5.8E-05	U		^{137}Cs	2.3E-04 \pm 1.7E-04	
	^{152}Eu	-1.8E-05 \pm 1.6E-04	U		^{152}Eu	4.8E-05 \pm 2.0E-04	U
	^{154}Eu	-1.3E-04 \pm 2.5E-04	U		^{154}Eu	5.6E-05 \pm 2.5E-04	U
	^{155}Eu	-1.3E-04 \pm 1.7E-04	U		^{155}Eu	1.3E-04 \pm 2.0E-04	U
	^{238}Pu	-7.9E-06 \pm 1.5E-05	U		^{238}Pu	1.4E-05 \pm 1.5E-05	U
	$^{239/240}\text{Pu}$	7.1E-06 \pm 6.7E-06	U		$^{239/240}\text{Pu}$	8.3E-07 \pm 8.6E-07	U
	^{103}Ru	-1.1E-05 \pm 8.6E-05	U		^{103}Ru	-4.0E-06 \pm 4.0E-05	U
	^{106}Ru	-4.0E-04 \pm 6.0E-04	U		^{106}Ru	-2.8E-04 \pm 7.4E-04	U
	^{125}Sb	3.1E-05 \pm 1.6E-04	U		^{125}Sb	4.7E-05 \pm 1.9E-04	U
	^{113}Sn	-3.9E-06 \pm 3.9E-05	U		^{113}Sn	2.8E-05 \pm 8.8E-05	U
	^{90}Sr	-2.0E-04 \pm 2.0E-04	U		^{90}Sr	-2.6E-06 \pm 2.6E-05	U
	^{234}U	2.2E-05 \pm 1.2E-05			^{234}U	7.1E-06 \pm 6.3E-06	U
	^{235}U	2.5E-06 \pm 3.8E-06	U		^{235}U	7.6E-07 \pm 2.7E-06	U
	^{238}U	9.5E-06 \pm 6.8E-06			^{238}U	9.1E-06 \pm 6.1E-06	
	^{65}Zn	2.6E-05 \pm 2.0E-04	U		^{65}Zn	-5.3E-05 \pm 2.2E-04	U
N529 (100-K) Composite Period 06/23/03 to 12/22/03	^{144}Ce	7.8E-05 \pm 7.1E-04	U	N530 (100-K) Composite Period 01/07/03 to 06/23/03	^{144}Ce	2.5E-04 \pm 7.7E-04	U
	^{60}Co	1.1E-04 \pm 8.4E-05	U		^{60}Co	5.1E-05 \pm 8.1E-05	U
	^{134}Cs	-4.1E-05 \pm 6.6E-05	U		^{134}Cs	4.3E-05 \pm 7.9E-05	U
	^{137}Cs	1.7E-05 \pm 6.1E-05	U		^{137}Cs	1.2E-07 \pm 1.2E-06	U
	^{152}Eu	2.6E-04 \pm 2.2E-04	U		^{152}Eu	-6.8E-05 \pm 1.9E-04	U
	^{154}Eu	-4.5E-05 \pm 1.9E-04	U		^{154}Eu	1.0E-04 \pm 2.2E-04	U
	^{155}Eu	3.2E-05 \pm 1.9E-04	U		^{155}Eu	1.2E-04 \pm 2.2E-04	U
	^{238}Pu	-1.3E-05 \pm 1.4E-05	U		^{238}Pu	2.9E-06 \pm 1.7E-05	U
	$^{239/240}\text{Pu}$	9.9E-06 \pm 8.6E-06	U		$^{239/240}\text{Pu}$	4.9E-06 \pm 5.5E-06	U
	^{103}Ru	-9.2E-06 \pm 8.0E-05	U		^{103}Ru	-5.1E-08 \pm 5.1E-07	U
	^{106}Ru	1.9E-04 \pm 5.6E-04	U		^{106}Ru	-3.4E-06 \pm 3.4E-05	U
	^{125}Sb	-9.3E-05 \pm 1.6E-04	U		^{125}Sb	6.3E-05 \pm 2.1E-04	U
	^{113}Sn	2.9E-05 \pm 9.5E-05	U		^{113}Sn	-2.7E-05 \pm 8.3E-05	U
	^{90}Sr	-2.7E-05 \pm 9.4E-05	U		^{90}Sr	-1.5E-05 \pm 9.0E-05	U
	^{234}U	2.0E-05 \pm 1.0E-05			^{234}U	6.7E-06 \pm 5.9E-06	U
	^{235}U	2.8E-06 \pm 3.5E-06	U		^{235}U	2.4E-06 \pm 3.0E-06	
	^{238}U	1.5E-05 \pm 8.5E-06			^{238}U	8.2E-06 \pm 5.9E-06	
	^{65}Zn	-4.8E-05 \pm 1.8E-04	U		^{65}Zn	-3.5E-07 \pm 3.5E-06	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N530 (100-K)	^{144}Ce	-7.7E-05 ± 6.2E-04	U	N102 (100-N)	^{144}Ce	-1.0E-04 ± 8.2E-04	U
Composite Period	^{60}Co	-2.2E-05 ± 7.8E-05	U	Composite Period	^{60}Co	1.1E-05 ± 7.9E-05	U
06/23/03 to 12/22/03	^{134}Cs	-1.4E-05 ± 6.5E-05	U	01/07/03 to 06/23/03	^{134}Cs	2.5E-05 ± 8.3E-05	U
	^{137}Cs	-4.3E-06 ± 4.3E-05	U		^{137}Cs	3.7E-05 ± 7.6E-05	U
	^{152}Eu	2.6E-05 ± 1.5E-04	U		^{152}Eu	-4.1E-05 ± 2.3E-04	U
	^{154}Eu	-7.2E-06 ± 7.2E-05	U		^{154}Eu	-5.9E-05 ± 2.3E-04	U
	^{155}Eu	8.4E-05 ± 1.8E-04	U		^{155}Eu	-1.7E-04 ± 2.3E-04	U
	^{238}Pu	1.7E-06 ± 1.3E-05	U		^{238}Pu	-3.9E-06 ± 1.2E-05	U
	$^{239/240}\text{Pu}$	2.5E-06 ± 3.1E-06			$^{239/240}\text{Pu}$	1.2E-05 ± 8.0E-06	
	^{103}Ru	-1.6E-05 ± 7.3E-05	U		^{103}Ru	-4.6E-05 ± 8.7E-05	U
	^{106}Ru	-2.8E-04 ± 5.5E-04	U		^{106}Ru	3.7E-04 ± 6.8E-04	U
	^{125}Sb	5.5E-06 ± 5.6E-05	U		^{125}Sb	-4.0E-05 ± 1.9E-04	U
	^{113}Sn	4.4E-05 ± 6.8E-05	U		^{113}Sn	2.0E-05 ± 9.4E-05	U
	^{90}Sr	-1.2E-04 ± 1.3E-04	U		^{90}Sr	-9.3E-05 ± 9.6E-05	U
	^{234}U	1.6E-05 ± 9.4E-06			^{234}U	9.3E-06 ± 6.5E-06	
	^{235}U	1.5E-06 ± 3.1E-06	U		^{235}U	7.6E-07 ± 2.7E-06	U
	^{238}U	1.0E-05 ± 6.6E-06			^{238}U	6.2E-06 ± 4.7E-06	
	^{65}Zn	-3.8E-04 ± 3.9E-04	U		^{65}Zn	3.0E-05 ± 2.0E-04	U
N102 (100-N)	^{144}Ce	1.0E-04 ± 6.4E-04	U	N103 (100-N)	^{144}Ce	3.2E-06 ± 3.2E-05	U
Composite Period	^{60}Co	1.1E-04 ± 9.4E-05	U	Composite Period	^{60}Co	3.8E-05 ± 9.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	-3.9E-05 ± 7.0E-05	U	01/07/03 to 06/23/03	^{134}Cs	-9.6E-06 ± 8.6E-05	U
	^{137}Cs	8.0E-05 ± 7.1E-05	U		^{137}Cs	-3.5E-05 ± 7.7E-05	U
	^{152}Eu	3.0E-05 ± 1.6E-04	U		^{152}Eu	-1.9E-05 ± 1.9E-04	U
	^{154}Eu	2.1E-05 ± 2.1E-04	U		^{154}Eu	-1.9E-04 ± 3.4E-04	U
	^{155}Eu	9.6E-05 ± 1.7E-04	U		^{155}Eu	-9.9E-05 ± 2.0E-04	U
	^{238}Pu	-1.4E-05 ± 1.4E-05	U		^{238}Pu	-1.3E-05 ± 1.6E-05	U
	$^{239/240}\text{Pu}$	3.5E-06 ± 4.4E-06	U		$^{239/240}\text{Pu}$	3.0E-06 ± 6.7E-06	U
	^{103}Ru	-2.8E-05 ± 6.5E-05	U		^{103}Ru	7.2E-06 ± 7.2E-05	U
	^{106}Ru	-2.2E-04 ± 5.5E-04	U		^{106}Ru	-2.8E-04 ± 6.7E-04	U
	^{125}Sb	-1.1E-04 ± 1.7E-04	U		^{125}Sb	-4.0E-05 ± 2.3E-04	U
	^{113}Sn	-6.9E-05 ± 7.1E-05	U		^{113}Sn	4.1E-05 ± 9.4E-05	U
	^{90}Sr	-2.3E-04 ± 2.4E-04	U		^{90}Sr	4.5E-04 ± 1.8E-04	
	^{234}U	1.5E-05 ± 8.8E-06			^{234}U	1.4E-05 ± 8.6E-06	
	^{235}U	-8.3E-07 ± 2.9E-06	U		^{235}U	1.5E-06 ± 4.3E-06	U
	^{238}U	1.5E-05 ± 8.8E-06			^{238}U	8.5E-06 ± 5.8E-06	
	^{65}Zn	-8.3E-06 ± 8.3E-05	U		^{65}Zn	2.1E-04 ± 2.3E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N103 (100-N) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-3.1E-05 ± 3.1E-04	U	N105 (100-N) Composite Period 01/07/03 to 06/23/03	¹⁴⁴ Ce	-1.5E-04 ± 7.8E-04	U
	⁶⁰ Co	4.7E-05 ± 8.0E-05	U		⁶⁰ Co	2.2E-04 ± 9.8E-05	U
	¹³⁴ Cs	3.7E-05 ± 7.0E-05	U		¹³⁴ Cs	-5.5E-05 ± 8.4E-05	U
	¹³⁷ Cs	-5.6E-06 ± 5.7E-05	U		¹³⁷ Cs	3.6E-04 ± 1.7E-04	U
	¹⁵² Eu	-2.0E-04 ± 2.1E-04	U		¹⁵² Eu	-2.0E-04 ± 2.1E-04	U
	¹⁵⁴ Eu	2.2E-05 ± 1.9E-04	U		¹⁵⁴ Eu	7.2E-05 ± 2.0E-04	U
	¹⁵⁵ Eu	-9.5E-05 ± 2.0E-04	U		¹⁵⁵ Eu	4.6E-05 ± 2.2E-04	U
	²³⁸ Pu	-9.0E-06 ± 1.5E-05	U		²³⁸ Pu	-1.9E-06 ± 1.1E-05	U
	^{239/240} Pu	5.2E-06 ± 5.9E-06	U		^{239/240} Pu	6.8E-06 ± 6.4E-06	U
	¹⁰³ Ru	-2.4E-05 ± 7.2E-05	U		¹⁰³ Ru	1.5E-05 ± 8.5E-05	U
	¹⁰⁶ Ru	-1.9E-04 ± 5.6E-04	U		¹⁰⁶ Ru	5.0E-04 ± 7.2E-04	U
	¹²⁵ Sb	7.7E-05 ± 1.5E-04	U		¹²⁵ Sb	3.9E-05 ± 1.9E-04	U
	¹¹³ Sn	3.0E-06 ± 3.0E-05	U		¹¹³ Sn	3.9E-05 ± 9.5E-05	U
	⁹⁰ Sr	-1.4E-04 ± 1.5E-04	U		⁹⁰ Sr	-5.4E-05 ± 5.6E-05	U
	²³⁴ U	1.7E-05 ± 1.0E-05			²³⁴ U	1.1E-05 ± 7.4E-06	
	²³⁵ U	7.5E-07 ± 1.5E-06	U		²³⁵ U	1.6E-06 ± 3.2E-06	U
	²³⁸ U	1.2E-05 ± 7.6E-06			²³⁸ U	2.2E-06 ± 2.7E-06	
	⁶⁵ Zn	-1.6E-04 ± 1.7E-04	U		⁶⁵ Zn	1.1E-04 ± 1.7E-04	U
N105 (100-N) Composite Period 06/23/03 to 09/30/03	¹⁴⁴ Ce	4.7E-04 ± 1.1E-03	U	N106 (100-N) Composite Period 01/07/03 to 06/23/03	¹⁴⁴ Ce	-1.4E-05 ± 1.4E-04	U
	⁶⁰ Co	5.4E-04 ± 2.3E-04			⁶⁰ Co	5.1E-05 ± 8.2E-05	U
	¹³⁴ Cs	3.5E-05 ± 1.2E-04	U		¹³⁴ Cs	3.0E-05 ± 6.9E-05	U
	¹³⁷ Cs	2.8E-04 ± 2.1E-04			¹³⁷ Cs	-3.7E-06 ± 3.7E-05	U
	¹⁵² Eu	-1.4E-04 ± 2.7E-04	U		¹⁵² Eu	8.4E-05 ± 1.7E-04	U
	¹⁵⁴ Eu	2.1E-04 ± 4.0E-04	U		¹⁵⁴ Eu	7.2E-06 ± 7.2E-05	U
	¹⁵⁵ Eu	2.1E-05 ± 2.1E-04	U		¹⁵⁵ Eu	8.4E-05 ± 1.5E-04	U
	²³⁸ Pu	-1.2E-05 ± 2.7E-05	U		²³⁸ Pu	7.3E-06 ± 1.4E-05	U
	^{239/240} Pu	5.0E-06 ± 1.0E-05	U		^{239/240} Pu	-3.7E-06 ± 4.5E-06	U
	¹⁰³ Ru	-8.3E-05 ± 1.2E-04	U		¹⁰³ Ru	-6.4E-05 ± 7.6E-05	U
	¹⁰⁶ Ru	-3.3E-04 ± 1.0E-03	U		¹⁰⁶ Ru	6.2E-04 ± 7.0E-04	U
	¹²⁵ Sb	9.8E-05 ± 2.6E-04	U		¹²⁵ Sb	-7.2E-05 ± 1.5E-04	U
	¹¹³ Sn	-2.3E-05 ± 1.2E-04	U		¹¹³ Sn	1.8E-05 ± 7.6E-05	U
	⁹⁰ Sr	-1.3E-04 ± 1.7E-04	U		⁹⁰ Sr	-8.3E-05 ± 8.6E-05	U
	²³⁴ U	2.4E-05 ± 1.4E-05			²³⁴ U	8.3E-06 ± 6.3E-06	
	²³⁵ U	3.2E-06 ± 4.5E-06	U		²³⁵ U	2.3E-06 ± 3.4E-06	U
	²³⁸ U	1.4E-05 ± 1.1E-05			²³⁸ U	6.3E-06 ± 4.8E-06	
	⁶⁵ Zn	-1.9E-04 ± 3.4E-04	U		⁶⁵ Zn	6.3E-05 ± 1.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N106 (100-N) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-5.8E-04 ± 8.4E-04	U	N526 (100-N) Composite Period 01/07/03 to 06/23/03	¹⁴⁴ Ce	-3.7E-04 ± 8.4E-04	U
	⁶⁰ Co	1.1E-04 ± 1.0E-04	U		⁶⁰ Co	4.2E-04 ± 1.8E-04	U
	¹³⁴ Cs	-7.8E-06 ± 7.8E-05	U		¹³⁴ Cs	3.1E-05 ± 9.0E-05	U
	¹³⁷ Cs	1.1E-05 ± 8.5E-05	U		¹³⁷ Cs	2.5E-03 ± 7.9E-04	U
	¹⁵² Eu	2.8E-05 ± 1.9E-04	U		¹⁵² Eu	9.0E-05 ± 2.2E-04	U
	¹⁵⁴ Eu	5.6E-06 ± 5.6E-05	U		¹⁵⁴ Eu	1.3E-04 ± 2.1E-04	U
	¹⁵⁵ Eu	-1.8E-04 ± 2.1E-04	U		¹⁵⁵ Eu	-1.6E-04 ± 2.3E-04	U
	²³⁸ Pu	4.0E-06 ± 1.2E-05	U		²³⁸ Pu	-5.1E-06 ± 1.8E-05	U
	^{239/240} Pu	4.8E-06 ± 6.4E-06	U		^{239/240} Pu	2.0E-05 ± 1.2E-05	U
	¹⁰³ Ru	3.3E-05 ± 1.1E-04	U		¹⁰³ Ru	2.6E-05 ± 1.0E-04	U
	¹⁰⁶ Ru	-8.9E-05 ± 8.5E-04	U		¹⁰⁶ Ru	-1.4E-04 ± 7.0E-04	U
	¹²⁵ Sb	1.3E-04 ± 2.0E-04	U		¹²⁵ Sb	6.2E-05 ± 2.0E-04	U
	¹¹³ Sn	-1.7E-05 ± 9.3E-05	U		¹¹³ Sn	3.5E-05 ± 9.9E-05	U
	⁹⁰ Sr	-1.8E-04 ± 1.8E-04	U		⁹⁰ Sr	7.7E-05 ± 1.0E-04	U
	²³⁴ U	1.3E-05 ± 8.7E-06			²³⁴ U	6.4E-06 ± 5.3E-06	
	²³⁵ U	-1.5E-06 ± 3.9E-06	U		²³⁵ U	1.5E-06 ± 3.1E-06	U
	²³⁸ U	1.0E-05 ± 7.4E-06			²³⁸ U	8.4E-06 ± 6.1E-06	
	⁶⁵ Zn	-3.9E-05 ± 2.0E-04	U		⁶⁵ Zn	4.6E-05 ± 1.6E-04	U
N526 (100-N) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-1.4E-04 ± 9.0E-04	U	N482 (ERDF) Composite Period 01/08/03 to 06/24/03	¹⁴⁴ Ce	1.1E-04 ± 7.2E-04	U
	⁶⁰ Co	3.3E-04 ± 1.6E-04			⁶⁰ Co	5.1E-05 ± 9.9E-05	U
	¹³⁴ Cs	-4.6E-05 ± 7.7E-05	U		¹³⁴ Cs	-1.4E-04 ± 1.5E-04	U
	¹³⁷ Cs	8.4E-04 ± 3.3E-04			¹³⁷ Cs	8.4E-05 ± 7.7E-05	U
	¹⁵² Eu	-8.9E-05 ± 2.2E-04	U		¹⁵² Eu	-1.5E-04 ± 1.9E-04	U
	¹⁵⁴ Eu	9.0E-06 ± 9.0E-05	U		¹⁵⁴ Eu	6.6E-05 ± 2.8E-04	U
	¹⁵⁵ Eu	-2.5E-05 ± 2.0E-04	U		¹⁵⁵ Eu	4.0E-05 ± 2.0E-04	U
	²³⁸ Pu	4.5E-06 ± 1.3E-05	U		²³⁸ Pu	-9.3E-07 ± 8.9E-06	U
	^{239/240} Pu	5.4E-06 ± 6.1E-06	U		^{239/240} Pu	1.9E-06 ± 2.7E-06	U
	¹⁰³ Ru	-1.8E-05 ± 8.0E-05	U		¹⁰³ Ru	-1.7E-05 ± 9.2E-05	U
	¹⁰⁶ Ru	-1.5E-04 ± 6.2E-04	U		¹⁰⁶ Ru	4.8E-05 ± 4.8E-04	U
	¹²⁵ Sb	-9.6E-05 ± 1.6E-04	U		¹²⁵ Sb	-3.8E-05 ± 1.9E-04	U
	¹¹³ Sn	8.0E-05 ± 8.5E-05	U		¹¹³ Sn	-3.8E-05 ± 9.0E-05	U
	⁹⁰ Sr	2.2E-05 ± 9.3E-05	U		⁹⁰ Sr	-8.5E-05 ± 8.8E-05	U
	²³⁴ U	9.7E-06 ± 6.8E-06			²³⁴ U	1.1E-05 ± 7.6E-06	
	²³⁵ U	5.7E-06 ± 4.8E-06			²³⁵ U	1.8E-06 ± 3.6E-06	
	²³⁸ U	1.6E-05 ± 9.1E-06			²³⁸ U	4.0E-06 ± 3.9E-06	
	⁶⁵ Zn	-2.2E-04 ± 2.2E-04	U		⁶⁵ Zn	-1.9E-04 ± 2.2E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N482 (ERDF) Composite Period 06/24/03 to 12/22/03	¹⁴⁴ Ce	1.4E-05 \pm 1.4E-04	U	N517 (ERDF) Composite Period 01/08/03 to 06/24/03	¹⁴⁴ Ce	6.3E-04 \pm 6.1E-04	U
	⁶⁰ Co	-5.8E-05 \pm 8.0E-05	U		⁶⁰ Co	-6.8E-05 \pm 8.8E-05	U
	¹³⁴ Cs	1.3E-06 \pm 1.3E-05	U		¹³⁴ Cs	-1.7E-06 \pm 1.7E-05	U
	¹³⁷ Cs	2.8E-05 \pm 6.4E-05	U		¹³⁷ Cs	2.4E-05 \pm 7.8E-05	U
	¹⁵² Eu	-3.7E-05 \pm 1.6E-04	U		¹⁵² Eu	-5.7E-05 \pm 1.6E-04	U
	¹⁵⁴ Eu	-1.0E-04 \pm 2.1E-04	U		¹⁵⁴ Eu	7.2E-05 \pm 2.5E-04	U
	¹⁵⁵ Eu	1.5E-07 \pm 1.5E-06	U		¹⁵⁵ Eu	-1.6E-05 \pm 1.5E-04	U
	²³⁸ Pu	1.1E-05 \pm 1.3E-05	U		²³⁸ Pu	-5.5E-06 \pm 1.7E-05	U
	^{239/240} Pu	3.2E-06 \pm 4.5E-06	U		^{239/240} Pu	2.2E-06 \pm 3.2E-06	U
	¹⁰³ Ru	1.2E-06 \pm 1.2E-05	U		¹⁰³ Ru	-2.4E-05 \pm 7.9E-05	U
	¹⁰⁶ Ru	8.7E-05 \pm 6.4E-04	U		¹⁰⁶ Ru	-8.2E-05 \pm 6.3E-04	U
	¹²⁵ Sb	1.2E-04 \pm 1.4E-04	U		¹²⁵ Sb	-2.2E-05 \pm 1.6E-04	U
	¹¹³ Sn	3.5E-05 \pm 6.9E-05	U		¹¹³ Sn	4.4E-05 \pm 8.7E-05	U
	⁹⁰ Sr	1.0E-04 \pm 1.1E-04			⁹⁰ Sr	-1.4E-04 \pm 1.4E-04	U
	²³⁴ U	2.2E-05 \pm 1.2E-05			²³⁴ U	2.1E-05 \pm 1.2E-05	
	²³⁵ U	2.4E-06 \pm 3.7E-06	U		²³⁵ U	3.8E-06 \pm 4.7E-06	U
	²³⁸ U	2.7E-05 \pm 1.4E-05			²³⁸ U	1.2E-05 \pm 8.1E-06	
	⁶⁵ Zn	7.9E-05 \pm 1.6E-04	U		⁶⁵ Zn	4.6E-06 \pm 4.6E-05	U
N517 (ERDF) Composite Period 06/24/03 to 12/22/03	¹⁴⁴ Ce	3.3E-04 \pm 6.5E-04	U	N518 (ERDF) Composite Period 01/08/03 to 06/24/03	¹⁴⁴ Ce	-1.5E-04 \pm 8.0E-04	U
	⁶⁰ Co	1.5E-05 \pm 7.7E-05	U		⁶⁰ Co	5.4E-05 \pm 9.4E-05	U
	¹³⁴ Cs	5.6E-05 \pm 7.1E-05	U		¹³⁴ Cs	3.3E-05 \pm 8.8E-05	U
	¹³⁷ Cs	7.6E-05 \pm 5.9E-05	U		¹³⁷ Cs	1.8E-05 \pm 8.0E-05	U
	¹⁵² Eu	1.7E-05 \pm 1.6E-04	U		¹⁵² Eu	-5.0E-05 \pm 2.0E-04	U
	¹⁵⁴ Eu	7.2E-05 \pm 2.3E-04	U		¹⁵⁴ Eu	7.8E-06 \pm 7.8E-05	U
	¹⁵⁵ Eu	-5.3E-05 \pm 1.5E-04	U		¹⁵⁵ Eu	-7.1E-06 \pm 7.1E-05	U
	²³⁸ Pu	3.2E-06 \pm 1.3E-05	U		²³⁸ Pu	-9.3E-07 \pm 9.3E-06	U
	^{239/240} Pu	4.8E-06 \pm 5.4E-06	U		^{239/240} Pu	-9.3E-07 \pm 5.0E-06	U
	¹⁰³ Ru	1.8E-05 \pm 6.6E-05	U		¹⁰³ Ru	-9.3E-06 \pm 9.3E-05	U
	¹⁰⁶ Ru	-2.2E-04 \pm 5.8E-04	U		¹⁰⁶ Ru	-1.8E-05 \pm 1.8E-04	U
	¹²⁵ Sb	-1.8E-05 \pm 1.3E-04	U		¹²⁵ Sb	-1.2E-05 \pm 1.2E-04	U
	¹¹³ Sn	1.7E-05 \pm 7.1E-05	U		¹¹³ Sn	8.5E-05 \pm 1.0E-04	U
	⁹⁰ Sr	6.8E-05 \pm 1.1E-04	U		⁹⁰ Sr	-1.2E-04 \pm 1.2E-04	U
	²³⁴ U	2.6E-05 \pm 1.3E-05			²³⁴ U	2.7E-05 \pm 1.4E-05	
	²³⁵ U	3.8E-06 \pm 4.3E-06	U		²³⁵ U	5.8E-06 \pm 5.2E-06	
	²³⁸ U	1.8E-05 \pm 9.8E-06			²³⁸ U	1.9E-05 \pm 1.1E-05	
	⁶⁵ Zn	1.6E-04 \pm 1.6E-04	U		⁶⁵ Zn	-2.0E-04 \pm 2.1E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N518 (ERDF) Composite Period 06/24/03 to 12/22/03	¹⁴⁴ Ce	2.3E-04 \pm 7.1E-04	U	N019 (200-East) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-1.0E-05 \pm 1.1E-04	U
	⁶⁰ Co	-3.1E-05 \pm 9.3E-05	U		⁶⁰ Co	-8.5E-06 \pm 8.6E-05	U
	¹³⁴ Cs	3.3E-05 \pm 9.7E-05	U		¹³⁴ Cs	1.3E-05 \pm 7.3E-05	U
	¹³⁷ Cs	7.1E-05 \pm 8.5E-05	U		¹³⁷ Cs	-1.6E-05 \pm 9.2E-05	U
	¹⁵² Eu	1.4E-04 \pm 2.2E-04	U		¹⁵² Eu	-4.7E-06 \pm 4.7E-05	U
	¹⁵⁴ Eu	-1.8E-04 \pm 2.8E-04	U		¹⁵⁴ Eu	9.9E-06 \pm 9.9E-05	U
	¹⁵⁵ Eu	-1.2E-04 \pm 1.9E-04	U		¹⁵⁵ Eu	1.3E-05 \pm 1.3E-04	U
	²³⁸ Pu	-1.2E-05 \pm 1.6E-05	U		²³⁸ Pu	1.0E-05 \pm 1.5E-05	U
	^{239/240} Pu	4.6E-06 \pm 5.6E-06	U		^{239/240} Pu	9.2E-07 \pm 9.6E-07	U
	¹⁰³ Ru	-7.7E-05 \pm 8.1E-05	U		¹⁰³ Ru	9.6E-06 \pm 6.4E-05	U
	¹⁰⁶ Ru	-8.3E-07 \pm 8.3E-06	U		¹⁰⁶ Ru	1.3E-04 \pm 7.0E-04	U
	¹²⁵ Sb	-1.7E-04 \pm 1.9E-04	U		¹²⁵ Sb	-2.1E-04 \pm 2.1E-04	U
	¹¹³ Sn	-3.4E-05 \pm 8.6E-05	U		¹¹³ Sn	-9.7E-06 \pm 9.1E-05	U
	⁹⁰ Sr	3.9E-05 \pm 1.0E-04	U		⁹⁰ Sr	1.5E-05 \pm 1.2E-04	U
N019 (200-East) Composite Period 06/23/03 to 12/22/03	²³⁴ U	1.3E-05 \pm 8.1E-06			²³⁴ U	6.2E-06 \pm 5.9E-06	U
	²³⁵ U	4.3E-06 \pm 4.2E-06			²³⁵ U	2.5E-06 \pm 3.1E-06	
	²³⁸ U	1.7E-05 \pm 9.8E-06			²³⁸ U	3.2E-06 \pm 3.9E-06	U
	⁶⁵ Zn	-1.5E-05 \pm 1.5E-04	U		⁶⁵ Zn	-1.4E-04 \pm 2.2E-04	U
	¹⁴⁴ Ce	1.7E-04 \pm 6.0E-04	U	N158 (200-East) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-4.3E-04 \pm 7.1E-04	U
	⁶⁰ Co	1.1E-05 \pm 7.9E-05	U		⁶⁰ Co	-2.3E-05 \pm 8.9E-05	U
	¹³⁴ Cs	6.0E-05 \pm 6.9E-05	U		¹³⁴ Cs	1.1E-04 \pm 1.1E-04	U
	¹³⁷ Cs	2.0E-05 \pm 6.8E-05	U		¹³⁷ Cs	1.4E-04 \pm 1.3E-04	
	¹⁵² Eu	2.5E-05 \pm 1.5E-04	U		¹⁵² Eu	3.7E-05 \pm 1.8E-04	U
	¹⁵⁴ Eu	2.2E-05 \pm 2.1E-04	U		¹⁵⁴ Eu	5.2E-05 \pm 2.7E-04	U
	¹⁵⁵ Eu	-8.4E-05 \pm 1.6E-04	U		¹⁵⁵ Eu	-7.1E-05 \pm 1.9E-04	U
	²³⁸ Pu	-1.1E-05 \pm 1.5E-05	U		²³⁸ Pu	6.6E-06 \pm 1.4E-05	U
	^{239/240} Pu	4.3E-06 \pm 6.1E-06	U		^{239/240} Pu	9.1E-07 \pm 9.4E-07	U
	¹⁰³ Ru	8.2E-05 \pm 6.0E-05	U		¹⁰³ Ru	1.0E-05 \pm 6.7E-05	U
	¹⁰⁶ Ru	3.1E-04 \pm 5.2E-04	U		¹⁰⁶ Ru	1.1E-04 \pm 6.2E-04	U
	¹²⁵ Sb	-2.7E-05 \pm 1.4E-04	U		¹²⁵ Sb	-6.5E-05 \pm 1.9E-04	U
	¹¹³ Sn	-2.2E-05 \pm 6.5E-05	U		¹¹³ Sn	-1.2E-05 \pm 8.1E-05	U
	⁹⁰ Sr	-2.3E-04 \pm 1.1E-04	U		⁹⁰ Sr	-1.2E-04 \pm 1.3E-04	U
	²³⁴ U	1.8E-05 \pm 1.0E-05			²³⁴ U	1.2E-05 \pm 7.6E-06	
	²³⁵ U	1.7E-06 \pm 4.2E-06	U		²³⁵ U	7.6E-07 \pm 2.7E-06	U
	²³⁸ U	1.7E-05 \pm 9.5E-06			²³⁸ U	5.0E-06 \pm 4.7E-06	U
	⁶⁵ Zn	-2.3E-04 \pm 2.4E-04	U		⁶⁵ Zn	-1.0E-04 \pm 1.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N158 (200-East) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-1.3E-04 ± 7.9E-04	U	N480 (200-East) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	4.0E-06 ± 1.2E-05	U
	⁶⁰ Co	7.6E-05 ± 8.5E-05	U		¹⁴⁴ Ce	3.8E-05 ± 3.8E-04	U
	¹³⁴ Cs	3.0E-05 ± 8.1E-05	U		⁶⁰ Co	-8.1E-05 ± 1.0E-04	U
	¹³⁷ Cs	1.7E-04 ± 1.7E-04			¹³⁴ Cs	-2.8E-05 ± 8.2E-05	U
	¹⁵² Eu	-1.2E-04 ± 1.9E-04	U		¹³⁷ Cs	3.7E-05 ± 8.1E-05	U
	¹⁵⁴ Eu	-3.6E-06 ± 3.6E-05	U		¹⁵² Eu	3.0E-05 ± 2.0E-04	U
	¹⁵⁵ Eu	-1.5E-04 ± 2.2E-04	U		¹⁵⁴ Eu	-5.6E-05 ± 3.4E-04	U
	²³⁸ Pu	-1.1E-06 ± 1.1E-05	U		¹⁵⁵ Eu	6.7E-05 ± 1.9E-04	U
	^{239/240} Pu	1.1E-06 ± 1.1E-06	U		²³⁸ Pu	3.7E-05 ± 2.8E-05	
	¹⁰³ Ru	-2.3E-05 ± 6.6E-05	U		^{239/240} Pu	2.0E-06 ± 4.0E-06	U
	¹⁰⁶ Ru	-6.7E-04 ± 7.0E-04	U		²⁴¹ Pu	1.2E-04 ± 1.2E-03	U
	¹²⁵ Sb	1.3E-04 ± 1.7E-04	U		¹⁰³ Ru	3.3E-05 ± 8.8E-05	U
	¹¹³ Sn	2.3E-05 ± 7.8E-05	U		¹⁰⁶ Ru	-1.9E-05 ± 1.9E-04	U
	⁹⁰ Sr	-1.3E-04 ± 1.3E-04	U		¹²⁵ Sb	2.7E-05 ± 1.9E-04	U
	²³⁴ U	1.8E-05 ± 1.0E-05			¹¹³ Sn	4.3E-05 ± 9.3E-05	U
	²³⁵ U	8.1E-07 ± 8.4E-07	U		⁹⁰ Sr	-1.5E-05 ± 8.2E-05	U
	²³⁸ U	9.7E-06 ± 7.0E-06			²³⁴ U	1.3E-05 ± 8.3E-06	
	⁶⁵ Zn	6.5E-05 ± 1.9E-04	U		²³⁵ U	4.9E-06 ± 4.4E-06	
					²³⁸ U	1.2E-05 ± 7.5E-06	
					⁶⁵ Zn	-1.6E-04 ± 2.0E-04	U
N480 (200-East) Composite Period 06/23/03 to 12/22/03	²⁴¹ Am	5.0E-06 ± 7.6E-06	U	N481 (200-East) Composite Period 01/06/03 to 06/23/03	²⁴¹ Am	6.7E-06 ± 1.0E-05	U
	¹⁴⁴ Ce	-3.0E-04 ± 5.6E-04	U		¹⁴⁴ Ce	-1.7E-04 ± 7.8E-04	U
	⁶⁰ Co	-8.1E-06 ± 8.1E-05	U		⁶⁰ Co	2.6E-05 ± 7.2E-05	U
	¹³⁴ Cs	-6.7E-06 ± 6.7E-05	U		¹³⁴ Cs	-5.7E-05 ± 7.9E-05	U
	¹³⁷ Cs	-5.2E-05 ± 6.3E-05	U		¹³⁷ Cs	6.8E-06 ± 6.8E-05	U
	¹⁵² Eu	-5.9E-05 ± 1.5E-04	U		¹⁵² Eu	-5.3E-05 ± 1.9E-04	U
	¹⁵⁴ Eu	-8.8E-05 ± 2.4E-04	U		¹⁵⁴ Eu	1.8E-05 ± 1.8E-04	U
	¹⁵⁵ Eu	1.2E-04 ± 1.5E-04	U		¹⁵⁵ Eu	3.4E-05 ± 2.2E-04	U
	²³⁸ Pu	-1.5E-05 ± 2.4E-05	U		²³⁸ Pu	1.2E-05 ± 3.1E-05	U
	^{239/240} Pu	3.6E-06 ± 9.0E-06	U		^{239/240} Pu	2.1E-05 ± 1.6E-05	
	²⁴¹ Pu	-2.2E-04 ± 2.3E-04	U		²⁴¹ Pu	-8.4E-04 ± 8.4E-03	U
	¹⁰³ Ru	-8.3E-06 ± 6.7E-05	U		¹⁰³ Ru	-1.9E-05 ± 9.8E-05	U
	¹⁰⁶ Ru	-2.1E-04 ± 5.7E-04	U		¹⁰⁶ Ru	-1.0E-04 ± 6.8E-04	U
	¹²⁵ Sb	-2.7E-05 ± 1.3E-04	U		¹²⁵ Sb	-1.4E-04 ± 1.9E-04	U
	¹¹³ Sn	-8.1E-06 ± 6.9E-05	U		¹¹³ Sn	-1.0E-05 ± 8.9E-05	U
	⁹⁰ Sr	-1.2E-04 ± 1.2E-04	U		⁹⁰ Sr	-7.6E-06 ± 7.6E-05	U
	²³⁴ U	1.2E-05 ± 7.2E-06			²³⁴ U	8.4E-06 ± 6.6E-06	
	²³⁵ U	1.5E-06 ± 3.1E-06	U		²³⁵ U	8.4E-06 ± 6.9E-06	
	²³⁸ U	5.6E-06 ± 4.4E-06			²³⁸ U	9.2E-06 ± 6.9E-06	
	⁶⁵ Zn	-4.4E-05 ± 1.8E-04	U		⁶⁵ Zn	8.7E-05 ± 1.8E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N481 (200-East)	^{241}Am	-2.9E-06 ± 1.0E-05	U	N498 (200-East)	^{144}Ce	-2.5E-04 ± 7.4E-04	U
Composite Period	^{144}Ce	6.6E-05 ± 6.7E-04	U	Composite Period	^{60}Co	3.8E-05 ± 9.1E-05	U
06/23/03 to 12/22/03	^{60}Co	1.9E-05 ± 7.3E-05	U	01/06/03 to 06/23/03	^{134}Cs	3.5E-05 ± 8.1E-05	U
	^{134}Cs	-4.4E-05 ± 7.2E-05	U		^{137}Cs	3.3E-05 ± 8.3E-05	U
	^{137}Cs	-8.4E-06 ± 6.6E-05	U		^{152}Eu	7.6E-05 ± 1.9E-04	U
	^{152}Eu	-1.1E-04 ± 1.9E-04	U		^{154}Eu	-3.2E-04 ± 3.3E-04	U
	^{154}Eu	-1.5E-04 ± 2.3E-04	U		^{155}Eu	-1.4E-04 ± 2.0E-04	U
	^{155}Eu	3.6E-05 ± 2.2E-04	U		^{238}Pu	-9.1E-06 ± 1.5E-05	U
	^{238}Pu	6.7E-06 ± 2.3E-05	U		$^{239/240}\text{Pu}$	9.9E-07 ± 5.2E-06	U
	$^{239/240}\text{Pu}$	3.3E-06 ± 8.3E-06	U		^{103}Ru	-5.1E-06 ± 5.1E-05	U
	^{241}Pu	3.6E-04 ± 6.7E-04	U		^{106}Ru	-5.4E-04 ± 7.1E-04	U
	^{103}Ru	4.9E-06 ± 4.9E-05	U		^{125}Sb	-1.6E-05 ± 1.6E-04	U
	^{106}Ru	2.3E-04 ± 6.1E-04	U		^{113}Sn	-1.1E-05 ± 8.0E-05	U
	^{125}Sb	3.2E-06 ± 3.2E-05	U		^{90}Sr	4.5E-04 ± 1.8E-04	
	^{113}Sn	1.9E-05 ± 7.8E-05	U		^{234}U	1.6E-05 ± 9.1E-06	
	^{90}Sr	3.0E-05 ± 1.2E-04	U		^{235}U	2.5E-06 ± 3.1E-06	
	^{234}U	7.3E-06 ± 5.8E-06			^{238}U	7.6E-06 ± 6.3E-06	
	^{235}U	5.0E-06 ± 4.2E-06			^{65}Zn	1.7E-05 ± 1.7E-04	U
	^{238}U	9.0E-06 ± 6.3E-06					
	^{65}Zn	2.9E-05 ± 1.7E-04	U				
N498 (200-East)	^{144}Ce	-2.6E-04 ± 7.0E-04	U	N499 (200-East)	^{144}Ce	-1.5E-04 ± 7.5E-04	U
Composite Period	^{60}Co	-1.5E-05 ± 7.2E-05	U	Composite Period	^{60}Co	1.4E-05 ± 9.8E-05	U
06/23/03 to 12/22/03	^{134}Cs	-2.5E-05 ± 6.9E-05	U	01/06/03 to 06/23/03	^{134}Cs	-1.0E-04 ± 1.1E-04	U
	^{137}Cs	-5.1E-05 ± 6.6E-05	U		^{137}Cs	-2.0E-06 ± 2.0E-05	U
	^{152}Eu	-1.2E-04 ± 1.8E-04	U		^{152}Eu	7.3E-05 ± 2.0E-04	U
	^{154}Eu	-2.2E-05 ± 2.1E-04	U		^{154}Eu	1.3E-04 ± 2.8E-04	U
	^{155}Eu	3.1E-05 ± 1.9E-04	U		^{155}Eu	-8.4E-05 ± 1.9E-04	U
	^{238}Pu	-7.0E-06 ± 1.1E-05	U		^{238}Pu	-6.9E-06 ± 1.2E-05	U
	$^{239/240}\text{Pu}$	1.4E-05 ± 9.0E-06			$^{239/240}\text{Pu}$	8.6E-07 ± 3.0E-06	U
	^{103}Ru	-3.7E-05 ± 7.1E-05	U		^{103}Ru	-3.1E-05 ± 8.5E-05	U
	^{106}Ru	-4.4E-05 ± 4.4E-04	U		^{106}Ru	-3.4E-04 ± 8.3E-04	U
	^{125}Sb	5.4E-05 ± 1.6E-04	U		^{125}Sb	-5.5E-05 ± 1.8E-04	U
	^{113}Sn	-8.4E-05 ± 8.7E-05	U		^{113}Sn	5.2E-05 ± 9.0E-05	U
	^{90}Sr	5.8E-05 ± 1.0E-04	U		^{90}Sr	6.3E-05 ± 9.3E-05	U
	^{234}U	1.7E-05 ± 9.3E-06			^{234}U	1.0E-05 ± 6.9E-06	
	^{235}U	1.4E-06 ± 2.9E-06	U		^{235}U	4.8E-06 ± 4.3E-06	
	^{238}U	1.1E-05 ± 7.0E-06			^{238}U	8.6E-06 ± 5.9E-06	
	^{65}Zn	-3.9E-05 ± 1.8E-04	U		^{65}Zn	7.6E-05 ± 2.2E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N499 (200-East)	^{144}Ce	-1.7E-04 \pm 6.4E-04	U	N57 (200-East)	^{144}Ce	-7.3E-04 \pm 8.3E-04	U
Composite Period	^{60}Co	1.9E-06 \pm 1.9E-05	U	Composite Period	^{60}Co	-4.1E-05 \pm 7.6E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.6E-05 \pm 7.4E-05	U	01/06/03 to 06/23/03	^{134}Cs	-4.5E-05 \pm 7.4E-05	U
	^{137}Cs	1.8E-05 \pm 5.9E-05	U		^{137}Cs	7.2E-05 \pm 7.6E-05	U
	^{152}Eu	-2.2E-04 \pm 2.3E-04	U		^{152}Eu	-1.0E-04 \pm 1.9E-04	U
	^{154}Eu	-7.8E-05 \pm 2.2E-04	U		^{154}Eu	1.2E-05 \pm 1.2E-04	U
	^{155}Eu	1.6E-05 \pm 1.6E-04	U		^{155}Eu	-1.2E-04 \pm 2.2E-04	U
	^{238}Pu	-6.5E-06 \pm 1.4E-05	U		^{238}Pu	-7.2E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	3.2E-06 \pm 3.9E-06			$^{239/240}\text{Pu}$	8.4E-06 \pm 7.0E-06	U
	^{103}Ru	5.1E-06 \pm 5.1E-05	U		^{103}Ru	8.9E-06 \pm 7.7E-05	U
	^{106}Ru	8.9E-05 \pm 5.9E-04	U		^{106}Ru	1.8E-05 \pm 1.8E-04	U
	^{125}Sb	4.1E-05 \pm 1.5E-04	U		^{125}Sb	-2.7E-05 \pm 1.9E-04	U
	^{113}Sn	8.8E-05 \pm 9.0E-05	U		^{113}Sn	-4.5E-05 \pm 9.1E-05	U
	^{90}Sr	-1.3E-04 \pm 1.4E-04	U		^{90}Sr	2.1E-04 \pm 1.2E-04	
	^{234}U	2.6E-05 \pm 1.4E-05			^{234}U	8.4E-06 \pm 7.6E-06	U
	^{235}U	7.8E-06 \pm 5.9E-06			^{235}U	2.2E-06 \pm 4.9E-06	U
	^{238}U	1.6E-05 \pm 9.0E-06			^{238}U	3.4E-06 \pm 3.9E-06	U
	^{65}Zn	-2.1E-05 \pm 2.0E-04	U		^{65}Zn	4.9E-05 \pm 1.7E-04	U
N957 (200-East)	^{144}Ce	-2.6E-05 \pm 2.6E-04	U	N967 (200-East)	^{144}Ce	-1.0E-04 \pm 8.0E-04	U
Composite Period	^{60}Co	-2.3E-05 \pm 6.8E-05	U	Composite Period	^{60}Co	6.9E-05 \pm 7.7E-05	U
06/23/03 to 12/23/03	^{134}Cs	-6.4E-06 \pm 6.4E-05	U	01/06/03 to 06/23/03	^{134}Cs	3.9E-05 \pm 8.2E-05	U
	^{137}Cs	5.8E-05 \pm 6.4E-05	U		^{137}Cs	2.1E-04 \pm 1.4E-04	
	^{152}Eu	-2.3E-04 \pm 2.4E-04	U		^{152}Eu	-2.2E-04 \pm 2.3E-04	U
	^{154}Eu	4.7E-05 \pm 2.1E-04	U		^{154}Eu	-3.2E-05 \pm 2.2E-04	U
	^{155}Eu	1.9E-04 \pm 2.2E-04	U		^{155}Eu	-2.3E-04 \pm 2.4E-04	U
	^{238}Pu	7.4E-06 \pm 9.1E-06	U		^{238}Pu	-2.8E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	3.7E-06 \pm 3.8E-06			$^{239/240}\text{Pu}$	4.6E-06 \pm 6.5E-06	U
	^{103}Ru	-7.0E-06 \pm 6.7E-05	U		^{103}Ru	8.3E-06 \pm 7.7E-05	U
	^{106}Ru	3.6E-04 \pm 5.9E-04	U		^{106}Ru	-1.1E-04 \pm 6.9E-04	U
	^{125}Sb	-1.8E-06 \pm 1.8E-05	U		^{125}Sb	2.6E-07 \pm 2.6E-06	U
	^{113}Sn	1.6E-05 \pm 7.3E-05	U		^{113}Sn	-1.6E-06 \pm 1.6E-05	U
	^{90}Sr	-7.4E-05 \pm 9.5E-05	U		^{90}Sr	-9.8E-05 \pm 1.0E-04	U
	^{234}U	1.5E-05 \pm 8.7E-06			^{234}U	6.5E-06 \pm 6.1E-06	U
	^{235}U	4.2E-06 \pm 4.7E-06	U		^{235}U	4.7E-06 \pm 4.3E-06	
	^{238}U	1.2E-05 \pm 7.4E-06			^{238}U	4.3E-06 \pm 4.4E-06	U
	^{65}Zn	1.6E-04 \pm 1.8E-04	U		^{65}Zn	-2.5E-04 \pm 2.6E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N967 (200-East) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	6.3E-05 \pm 6.0E-04	U	N968 (200-East) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	8.9E-05 \pm 7.8E-04	U
	⁶⁰ Co	5.5E-05 \pm 7.9E-05	U		⁶⁰ Co	5.1E-05 \pm 7.9E-05	U
	¹³⁴ Cs	-2.0E-05 \pm 7.5E-05	U		¹³⁴ Cs	-5.8E-05 \pm 1.1E-04	U
	¹³⁷ Cs	1.1E-04 \pm 8.3E-05	U		¹³⁷ Cs	4.4E-05 \pm 7.8E-05	U
	¹⁵² Eu	-1.1E-04 \pm 1.4E-04	U		¹⁵² Eu	6.9E-07 \pm 6.9E-06	U
	¹⁵⁴ Eu	-1.2E-04 \pm 2.0E-04	U		¹⁵⁴ Eu	-4.6E-05 \pm 2.1E-04	U
	¹⁵⁵ Eu	7.9E-05 \pm 1.4E-04	U		¹⁵⁵ Eu	-6.7E-05 \pm 2.2E-04	U
	²³⁸ Pu	1.1E-05 \pm 1.6E-05	U		²³⁸ Pu	-6.8E-06 \pm 1.4E-05	U
	^{239/240} Pu	2.6E-05 \pm 1.4E-05			^{239/240} Pu	1.7E-06 \pm 3.5E-06	U
	¹⁰³ Ru	-9.2E-06 \pm 5.9E-05	U		¹⁰³ Ru	-7.8E-05 \pm 1.0E-04	U
	¹⁰⁶ Ru	-1.8E-04 \pm 5.1E-04	U		¹⁰⁶ Ru	-4.6E-04 \pm 6.9E-04	U
	¹²⁵ Sb	-8.0E-05 \pm 1.3E-04	U		¹²⁵ Sb	1.3E-05 \pm 1.3E-04	U
	¹¹³ Sn	3.8E-05 \pm 6.5E-05	U		¹¹³ Sn	1.7E-05 \pm 1.0E-04	U
	⁹⁰ Sr	7.1E-04 \pm 2.4E-04			⁹⁰ Sr	-8.6E-05 \pm 8.9E-05	U
	²³⁴ U	5.8E-06 \pm 8.8E-06	U		²³⁴ U	1.2E-05 \pm 8.3E-06	
	²³⁵ U	-3.2E-06 \pm 5.7E-06	U		²³⁵ U	7.8E-07 \pm 2.7E-06	U
	²³⁸ U	6.5E-06 \pm 6.8E-06	U		²³⁸ U	8.6E-06 \pm 6.4E-06	
	⁶⁵ Zn	-6.4E-05 \pm 1.7E-04	U		⁶⁵ Zn	5.2E-06 \pm 5.2E-05	U
N968 (200-East) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-2.3E-04 \pm 6.8E-04	U	N969 (200-East) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-6.6E-04 \pm 7.9E-04	U
	⁶⁰ Co	3.7E-05 \pm 6.6E-05	U		⁶⁰ Co	1.6E-05 \pm 9.6E-05	U
	¹³⁴ Cs	-8.6E-06 \pm 7.2E-05	U		¹³⁴ Cs	8.8E-05 \pm 1.0E-04	U
	¹³⁷ Cs	4.8E-06 \pm 4.8E-05	U		¹³⁷ Cs	3.3E-05 \pm 9.1E-05	U
	¹⁵² Eu	2.1E-05 \pm 1.7E-04	U		¹⁵² Eu	-2.4E-05 \pm 2.0E-04	U
	¹⁵⁴ Eu	-6.9E-05 \pm 2.0E-04	U		¹⁵⁴ Eu	-1.5E-06 \pm 1.5E-05	U
	¹⁵⁵ Eu	2.6E-06 \pm 2.6E-05	U		¹⁵⁵ Eu	-5.4E-05 \pm 2.0E-04	U
	²³⁸ Pu	9.4E-06 \pm 1.3E-05	U		²³⁸ Pu	8.3E-06 \pm 1.8E-05	U
	^{239/240} Pu	2.3E-06 \pm 3.5E-06	U		^{239/240} Pu	3.2E-06 \pm 3.9E-06	
	¹⁰³ Ru	1.8E-05 \pm 7.0E-05	U		¹⁰³ Ru	2.0E-05 \pm 9.1E-05	U
	¹⁰⁶ Ru	-3.9E-04 \pm 5.6E-04	U		¹⁰⁶ Ru	-5.4E-04 \pm 8.7E-04	U
	¹²⁵ Sb	3.6E-05 \pm 1.5E-04	U		¹²⁵ Sb	-1.1E-04 \pm 2.0E-04	U
	¹¹³ Sn	-1.1E-05 \pm 7.1E-05	U		¹¹³ Sn	-5.5E-05 \pm 9.6E-05	U
	⁹⁰ Sr	-4.4E-05 \pm 1.1E-04	U		⁹⁰ Sr	-3.3E-05 \pm 1.1E-04	U
	²³⁴ U	2.0E-05 \pm 1.1E-05			²³⁴ U	1.2E-05 \pm 8.7E-06	
	²³⁵ U	-7.3E-07 \pm 3.3E-06	U		²³⁵ U	7.1E-06 \pm 6.2E-06	
	²³⁸ U	1.3E-05 \pm 7.9E-06			²³⁸ U	1.2E-05 \pm 7.9E-06	
	⁶⁵ Zn	-9.2E-05 \pm 1.5E-04	U		⁶⁵ Zn	-1.6E-06 \pm 1.6E-05	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N969 (200-East)	^{144}Ce	-4.7E-04 \pm 6.1E-04	U	N970 (200-East)	^{144}Ce	-1.4E-04 \pm 5.3E-04	U
Composite Period	^{60}Co	4.1E-05 \pm 6.6E-05	U	Composite Period	^{60}Co	9.3E-05 \pm 9.1E-05	U
06/23/03 to 12/23/03	^{134}Cs	-6.9E-05 \pm 7.2E-05	U	01/06/03 to 06/23/03	^{134}Cs	-1.3E-05 \pm 7.0E-05	U
	^{137}Cs	-3.0E-05 \pm 6.3E-05	U		^{137}Cs	-6.9E-06 \pm 6.7E-05	U
	^{152}Eu	-7.4E-06 \pm 7.4E-05	U		^{152}Eu	4.2E-05 \pm 1.6E-04	U
	^{154}Eu	-1.2E-05 \pm 1.2E-04	U		^{154}Eu	-9.8E-05 \pm 2.1E-04	U
	^{155}Eu	3.7E-05 \pm 1.5E-04	U		^{155}Eu	5.8E-05 \pm 1.5E-04	U
	^{238}Pu	4.0E-06 \pm 1.0E-05	U		^{238}Pu	-7.5E-07 \pm 7.3E-06	U
	$^{239/240}\text{Pu}$	1.2E-05 \pm 8.5E-06			$^{239/240}\text{Pu}$	2.3E-06 \pm 3.6E-06	U
	^{103}Ru	-4.5E-05 \pm 6.3E-05	U		^{103}Ru	9.1E-06 \pm 7.1E-05	U
	^{106}Ru	-8.9E-05 \pm 5.2E-04	U		^{106}Ru	-2.1E-04 \pm 6.5E-04	U
	^{125}Sb	8.9E-05 \pm 1.4E-04	U		^{125}Sb	1.4E-04 \pm 1.6E-04	U
	^{113}Sn	-2.8E-05 \pm 6.2E-05	U		^{113}Sn	2.0E-05 \pm 7.6E-05	U
	^{90}Sr	-5.1E-05 \pm 1.0E-04	U		^{90}Sr	-6.8E-05 \pm 1.0E-04	U
	^{234}U	1.5E-05 \pm 8.8E-06			^{234}U	6.5E-06 \pm 5.1E-06	
	^{235}U	6.8E-07 \pm 7.0E-07	U		^{235}U	2.1E-06 \pm 3.9E-06	U
	^{238}U	6.8E-06 \pm 5.7E-06			^{238}U	6.5E-06 \pm 4.8E-06	
	^{65}Zn	-1.1E-04 \pm 1.7E-04	U		^{65}Zn	-1.3E-05 \pm 1.3E-04	U
N970 (200-East)	^{144}Ce	-3.8E-04 \pm 6.8E-04	U	N972 (200-East)	^{144}Ce	4.2E-04 \pm 7.8E-04	U
Composite Period	^{60}Co	7.2E-05 \pm 8.1E-05	U	Composite Period	^{60}Co	-6.1E-05 \pm 7.6E-05	U
06/23/03 to 12/22/03	^{134}Cs	-7.4E-05 \pm 9.0E-05	U	01/06/03 to 06/23/03	^{134}Cs	-3.8E-05 \pm 7.8E-05	U
	^{137}Cs	-1.9E-05 \pm 6.9E-05	U		^{137}Cs	7.8E-05 \pm 8.4E-05	U
	^{152}Eu	-1.0E-04 \pm 1.8E-04	U		^{152}Eu	-9.6E-05 \pm 1.9E-04	U
	^{154}Eu	1.0E-04 \pm 2.5E-04	U		^{154}Eu	2.8E-04 \pm 2.3E-04	U
	^{155}Eu	-1.6E-04 \pm 1.8E-04	U		^{155}Eu	-2.4E-04 \pm 2.5E-04	U
	^{238}Pu	-1.8E-06 \pm 9.6E-06	U		^{238}Pu	8.3E-07 \pm 7.6E-06	U
	$^{239/240}\text{Pu}$	8.6E-07 \pm 3.9E-06	U		$^{239/240}\text{Pu}$	1.7E-06 \pm 3.4E-06	U
	^{103}Ru	2.5E-07 \pm 2.5E-06	U		^{103}Ru	1.5E-05 \pm 7.8E-05	U
	^{106}Ru	-4.4E-04 \pm 6.4E-04	U		^{106}Ru	3.0E-04 \pm 6.9E-04	U
	^{125}Sb	-1.8E-05 \pm 1.7E-04	U		^{125}Sb	6.9E-05 \pm 1.8E-04	U
	^{113}Sn	-3.3E-05 \pm 8.2E-05	U		^{113}Sn	3.0E-05 \pm 8.6E-05	U
	^{90}Sr	-5.8E-05 \pm 9.6E-05	U		^{90}Sr	1.5E-07 \pm 1.5E-06	U
	^{234}U	1.6E-05 \pm 9.3E-06			^{234}U	8.3E-06 \pm 6.3E-06	
	^{235}U	4.5E-06 \pm 4.1E-06			^{235}U	6.7E-07 \pm 7.0E-07	U
	^{238}U	1.2E-05 \pm 7.6E-06			^{238}U	4.7E-06 \pm 3.9E-06	
	^{65}Zn	1.8E-04 \pm 2.2E-04	U		^{65}Zn	-3.5E-05 \pm 1.5E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N972 (200-East)	^{144}Ce	2.7E-05 \pm 2.7E-04	U	N973 (200-East)	^{144}Ce	1.3E-04 \pm 8.1E-04	U
Composite Period	^{60}Co	7.1E-06 \pm 7.1E-05	U	Composite Period	^{60}Co	3.6E-05 \pm 9.9E-05	U
06/23/03 to 12/22/03	^{134}Cs	-3.6E-06 \pm 3.6E-05	U	01/06/03 to 06/23/03	^{134}Cs	-2.6E-05 \pm 8.7E-05	U
	^{137}Cs	-1.3E-05 \pm 6.4E-05	U		^{137}Cs	3.0E-04 \pm 1.5E-04	
	^{152}Eu	-5.4E-05 \pm 1.4E-04	U		^{152}Eu	-1.1E-04 \pm 2.0E-04	U
	^{154}Eu	2.7E-07 \pm 2.7E-06	U		^{154}Eu	-9.0E-05 \pm 3.3E-04	U
	^{155}Eu	8.8E-05 \pm 1.5E-04	U		^{155}Eu	-1.3E-04 \pm 1.9E-04	U
	^{238}Pu	-3.7E-06 \pm 1.2E-05	U		^{238}Pu	-3.1E-06 \pm 1.6E-05	U
	$^{239/240}\text{Pu}$	1.2E-06 \pm 2.4E-06	U		$^{239/240}\text{Pu}$	1.1E-06 \pm 3.7E-06	U
	^{103}Ru	-6.0E-05 \pm 6.3E-05	U		^{103}Ru	6.5E-05 \pm 8.9E-05	U
	^{106}Ru	-4.9E-04 \pm 5.6E-04	U		^{106}Ru	1.3E-04 \pm 7.6E-04	U
	^{125}Sb	-3.7E-05 \pm 1.4E-04	U		^{125}Sb	6.6E-05 \pm 1.7E-04	U
	^{113}Sn	-1.1E-05 \pm 6.8E-05	U		^{113}Sn	-2.3E-05 \pm 9.6E-05	U
	^{90}Sr	7.1E-05 \pm 9.4E-05	U		^{90}Sr	4.0E-05 \pm 1.1E-04	U
	^{234}U	8.5E-06 \pm 6.1E-06			^{234}U	1.3E-05 \pm 7.9E-06	
	^{235}U	1.6E-06 \pm 3.1E-06	U		^{235}U	3.3E-06 \pm 3.4E-06	
	^{238}U	9.2E-06 \pm 6.5E-06			^{238}U	1.5E-05 \pm 8.5E-06	
	^{65}Zn	-3.1E-05 \pm 2.0E-04	U		^{65}Zn	-1.9E-04 \pm 2.0E-04	U
N973 (200-East)	^{144}Ce	1.1E-04 \pm 7.0E-04	U	N976 (200-East)	^{144}Ce	-1.4E-05 \pm 1.4E-04	U
Composite Period	^{60}Co	2.7E-05 \pm 7.8E-05	U	Composite Period	^{60}Co	-1.4E-05 \pm 7.6E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.3E-05 \pm 7.1E-05	U	01/06/03 to 06/23/03	^{134}Cs	-6.2E-05 \pm 7.7E-05	U
	^{137}Cs	4.3E-05 \pm 7.4E-05	U		^{137}Cs	6.4E-05 \pm 7.9E-05	U
	^{152}Eu	-8.4E-05 \pm 1.9E-04	U		^{152}Eu	-2.5E-05 \pm 1.8E-04	U
	^{154}Eu	9.0E-05 \pm 2.3E-04	U		^{154}Eu	1.1E-04 \pm 2.3E-04	U
	^{155}Eu	1.3E-05 \pm 1.3E-04	U		^{155}Eu	-2.0E-05 \pm 2.0E-04	U
	^{238}Pu	7.4E-06 \pm 1.4E-05	U		^{238}Pu	4.6E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	1.9E-06 \pm 4.9E-06	U		$^{239/240}\text{Pu}$	-2.3E-06 \pm 4.2E-06	U
	^{103}Ru	-3.0E-05 \pm 6.7E-05	U		^{103}Ru	-8.7E-05 \pm 9.0E-05	U
	^{106}Ru	-1.4E-04 \pm 6.1E-04	U		^{106}Ru	5.1E-04 \pm 7.1E-04	U
	^{125}Sb	1.3E-04 \pm 1.6E-04	U		^{125}Sb	2.3E-05 \pm 1.8E-04	U
	^{113}Sn	3.2E-05 \pm 7.8E-05	U		^{113}Sn	-5.2E-05 \pm 8.5E-05	U
	^{90}Sr	2.2E-05 \pm 1.1E-04	U		^{90}Sr	-2.3E-05 \pm 8.7E-05	U
	^{234}U	1.1E-05 \pm 7.4E-06			^{234}U	1.5E-05 \pm 9.0E-06	
	^{235}U	1.6E-06 \pm 2.2E-06	U		^{235}U	5.1E-06 \pm 4.8E-06	U
	^{238}U	5.8E-06 \pm 4.6E-06			^{238}U	2.0E-05 \pm 1.1E-05	
	^{65}Zn	1.2E-05 \pm 1.2E-04	U		^{65}Zn	1.3E-04 \pm 1.7E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N976 (200-East)	^{144}Ce	5.2E-04 \pm 6.3E-04	U	N977 (200-East)	^{144}Ce	-2.7E-04 \pm 7.6E-04	U
Composite Period	^{60}Co	5.6E-05 \pm 8.9E-05	U	Composite Period	^{60}Co	-2.5E-05 \pm 1.0E-04	U
06/23/03 to 12/22/03	^{134}Cs	1.3E-05 \pm 7.0E-05	U	01/06/03 to 06/23/03	^{134}Cs	-1.6E-05 \pm 8.4E-05	U
	^{137}Cs	1.4E-04 \pm 1.3E-04			^{137}Cs	-2.2E-05 \pm 8.0E-05	U
	^{152}Eu	3.0E-05 \pm 1.4E-04	U		^{152}Eu	1.8E-04 \pm 2.0E-04	U
	^{154}Eu	5.2E-04 \pm 3.5E-04			^{154}Eu	9.7E-06 \pm 9.7E-05	U
	^{155}Eu	4.4E-05 \pm 1.5E-04	U		^{155}Eu	1.7E-04 \pm 1.9E-04	U
	^{238}Pu	6.1E-06 \pm 1.1E-05	U		^{238}Pu	-2.5E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	4.4E-06 \pm 4.2E-06			$^{239/240}\text{Pu}$	4.1E-06 \pm 4.6E-06	U
	^{103}Ru	4.0E-05 \pm 6.2E-05	U		^{103}Ru	-6.2E-07 \pm 6.2E-06	U
	^{106}Ru	3.1E-04 \pm 5.4E-04	U		^{106}Ru	-2.0E-05 \pm 2.0E-04	U
	^{125}Sb	9.3E-05 \pm 1.4E-04	U		^{125}Sb	1.2E-04 \pm 1.8E-04	U
	^{113}Sn	1.2E-05 \pm 6.9E-05	U		^{113}Sn	-1.9E-05 \pm 8.9E-05	U
	^{90}Sr	1.6E-04 \pm 1.1E-04			^{90}Sr	-1.8E-04 \pm 1.9E-04	U
	^{234}U	2.9E-05 \pm 1.4E-05			^{234}U	5.9E-06 \pm 5.5E-06	U
	^{235}U	4.2E-06 \pm 4.8E-06	U		^{235}U	1.6E-06 \pm 3.3E-06	U
	^{238}U	4.0E-05 \pm 1.9E-05			^{238}U	5.9E-06 \pm 5.5E-06	U
	^{65}Zn	1.2E-04 \pm 1.6E-04	U		^{65}Zn	-1.0E-04 \pm 2.0E-04	U
N977 (200-East)	^{144}Ce	7.2E-05 \pm 6.9E-04	U	N978 (200-East)	^{144}Ce	3.4E-04 \pm 7.1E-04	U
Composite Period	^{60}Co	-3.3E-05 \pm 7.0E-05	U	Composite Period	^{60}Co	1.5E-06 \pm 1.5E-05	U
06/23/03 to 12/22/03	^{134}Cs	2.7E-05 \pm 6.3E-05	U	01/06/03 to 06/23/03	^{134}Cs	-4.3E-05 \pm 9.1E-05	U
	^{137}Cs	-8.5E-05 \pm 8.9E-05	U		^{137}Cs	-4.9E-06 \pm 4.9E-05	U
	^{152}Eu	6.6E-05 \pm 1.5E-04	U		^{152}Eu	4.3E-05 \pm 1.8E-04	U
	^{154}Eu	-1.2E-04 \pm 2.4E-04	U		^{154}Eu	2.5E-05 \pm 2.5E-04	U
	^{155}Eu	-2.7E-05 \pm 1.5E-04	U		^{155}Eu	1.4E-04 \pm 1.9E-04	U
	^{238}Pu	4.8E-06 \pm 9.2E-06	U		^{238}Pu	6.1E-06 \pm 1.4E-05	U
	$^{239/240}\text{Pu}$	-4.8E-06 \pm 5.0E-06	U		$^{239/240}\text{Pu}$	1.8E-05 \pm 1.1E-05	
	^{103}Ru	1.2E-05 \pm 6.2E-05	U		^{103}Ru	1.9E-05 \pm 8.2E-05	U
	^{106}Ru	-4.3E-05 \pm 4.3E-04	U		^{106}Ru	-2.8E-04 \pm 7.6E-04	U
	^{125}Sb	-9.8E-05 \pm 1.4E-04	U		^{125}Sb	2.2E-05 \pm 1.7E-04	U
	^{113}Sn	3.2E-05 \pm 6.4E-05	U		^{113}Sn	-3.2E-05 \pm 8.7E-05	U
	^{90}Sr	1.5E-05 \pm 8.2E-05	U		^{90}Sr	7.5E-05 \pm 9.6E-05	U
	^{234}U	1.2E-05 \pm 7.9E-06			^{234}U	1.3E-05 \pm 7.5E-06	
	^{235}U	3.5E-06 \pm 3.7E-06			^{235}U	3.8E-06 \pm 4.6E-06	U
	^{238}U	1.5E-05 \pm 8.9E-06			^{238}U	1.0E-05 \pm 6.7E-06	
	^{65}Zn	-6.0E-05 \pm 1.8E-04	U		^{65}Zn	2.3E-05 \pm 2.1E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N978 (200-East)	^{144}Ce	1.3E-05 \pm 1.3E-04	U	N984 (200-East)	^{144}Ce	-2.2E-05 \pm 2.2E-04	U
Composite Period	^{60}Co	4.5E-05 \pm 9.4E-05	U	Composite Period	^{60}Co	6.3E-05 \pm 9.4E-05	U
06/23/03 to 12/23/03	^{134}Cs	-5.7E-05 \pm 9.2E-05	U	01/06/03 to 06/23/03	^{134}Cs	6.4E-05 \pm 9.3E-05	U
	^{137}Cs	1.3E-05 \pm 7.8E-05	U		^{137}Cs	2.8E-04 \pm 1.6E-04	
	^{152}Eu	-8.7E-05 \pm 2.1E-04	U		^{152}Eu	1.3E-04 \pm 1.9E-04	U
	^{154}Eu	8.9E-05 \pm 2.8E-04	U		^{154}Eu	-3.4E-05 \pm 2.8E-04	U
	^{155}Eu	-6.8E-05 \pm 1.7E-04	U		^{155}Eu	4.4E-05 \pm 2.0E-04	U
	^{238}Pu	-2.4E-06 \pm 1.0E-05	U		^{238}Pu	2.0E-06 \pm 1.5E-05	U
	$^{239/240}\text{Pu}$	2.4E-06 \pm 4.8E-06	U		$^{239/240}\text{Pu}$	2.9E-06 \pm 3.6E-06	
	^{103}Ru	1.0E-05 \pm 7.8E-05	U		^{103}Ru	-1.9E-05 \pm 8.8E-05	U
	^{106}Ru	-6.0E-04 \pm 7.0E-04	U		^{106}Ru	-7.1E-06 \pm 7.1E-05	U
	^{125}Sb	-4.6E-05 \pm 1.7E-04	U		^{125}Sb	2.5E-05 \pm 2.0E-04	U
	^{113}Sn	3.3E-05 \pm 8.2E-05	U		^{113}Sn	1.2E-05 \pm 8.9E-05	U
	^{90}Sr	7.5E-06 \pm 7.5E-05			^{90}Sr	6.5E-04 \pm 2.3E-04	
	^{234}U	1.4E-05 \pm 8.9E-06			^{234}U	1.0E-05 \pm 6.6E-06	
	^{235}U	5.1E-06 \pm 5.2E-06	U		^{235}U	8.4E-07 \pm 1.7E-06	U
	^{238}U	1.9E-05 \pm 1.1E-05			^{238}U	1.2E-05 \pm 7.6E-06	
	^{65}Zn	6.0E-05 \pm 2.2E-04	U		^{65}Zn	1.6E-05 \pm 1.6E-04	U
N984 (200-East)	^{144}Ce	-1.8E-04 \pm 7.5E-04	U	N985 (200-East)	^{144}Ce	-2.7E-05 \pm 2.7E-04	U
Composite Period	^{60}Co	-8.8E-05 \pm 9.1E-05	U	Composite Period	^{60}Co	-8.7E-05 \pm 9.3E-05	U
06/23/03 to 12/22/03	^{134}Cs	-1.7E-05 \pm 6.9E-05	U	01/06/03 to 06/23/03	^{134}Cs	-4.2E-05 \pm 8.0E-05	U
	^{137}Cs	8.5E-05 \pm 8.3E-05	U		^{137}Cs	2.0E-04 \pm 1.3E-04	
	^{152}Eu	-2.3E-04 \pm 2.4E-04	U		^{152}Eu	-2.4E-05 \pm 1.6E-04	U
	^{154}Eu	5.9E-06 \pm 5.9E-05	U		^{154}Eu	-7.5E-05 \pm 2.2E-04	U
	^{155}Eu	-1.2E-04 \pm 2.1E-04	U		^{155}Eu	2.0E-05 \pm 1.6E-04	U
	^{238}Pu	1.8E-06 \pm 9.4E-06	U		^{238}Pu	5.3E-06 \pm 1.3E-05	U
	$^{239/240}\text{Pu}$	2.2E-05 \pm 1.2E-05			$^{239/240}\text{Pu}$	9.2E-07 \pm 9.5E-07	U
	^{103}Ru	-4.6E-06 \pm 4.6E-05	U		^{103}Ru	-4.8E-05 \pm 8.6E-05	U
	^{106}Ru	-3.2E-04 \pm 6.3E-04	U		^{106}Ru	2.1E-04 \pm 6.5E-04	U
	^{125}Sb	-5.4E-05 \pm 1.5E-04	U		^{125}Sb	1.3E-04 \pm 1.7E-04	U
	^{113}Sn	-6.5E-06 \pm 6.5E-05	U		^{113}Sn	-1.4E-05 \pm 7.8E-05	U
	^{90}Sr	1.0E-03 \pm 3.3E-04			^{90}Sr	3.0E-05 \pm 8.9E-05	U
	^{234}U	1.3E-05 \pm 8.1E-06			^{234}U	9.2E-06 \pm 7.1E-06	
	^{235}U	3.6E-06 \pm 3.8E-06			^{235}U	7.6E-07 \pm 3.4E-06	U
	^{238}U	1.0E-05 \pm 7.2E-06			^{238}U	1.2E-05 \pm 7.7E-06	
	^{65}Zn	4.8E-05 \pm 1.5E-04	U		^{65}Zn	1.2E-04 \pm 1.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N985 (200-East)	^{144}Ce	5.4E-05 \pm 5.4E-04	U	N999 (200-East)	^{144}Ce	5.7E-04 \pm 7.7E-04	U
Composite Period	^{60}Co	-4.7E-05 \pm 7.8E-05	U	Composite Period	^{60}Co	2.8E-05 \pm 8.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	4.0E-05 \pm 6.9E-05	U	01/06/03 to 06/23/03	^{134}Cs	6.1E-06 \pm 6.2E-05	U
	^{137}Cs	1.3E-04 \pm 9.8E-05			^{137}Cs	4.5E-05 \pm 8.4E-05	U
	^{152}Eu	-7.4E-05 \pm 1.5E-04	U		^{152}Eu	-1.5E-04 \pm 1.8E-04	U
	^{154}Eu	1.0E-04 \pm 2.2E-04	U		^{154}Eu	7.5E-05 \pm 2.3E-04	U
	^{155}Eu	-1.7E-05 \pm 1.6E-04	U		^{155}Eu	7.3E-05 \pm 2.0E-04	U
	^{238}Pu	5.6E-06 \pm 1.0E-05	U		^{238}Pu	9.0E-07 \pm 9.0E-06	U
	$^{239/240}\text{Pu}$	5.6E-06 \pm 6.3E-06	U		$^{239/240}\text{Pu}$	1.7E-06 \pm 2.5E-06	U
	^{103}Ru	1.7E-05 \pm 6.3E-05	U		^{103}Ru	-6.6E-05 \pm 8.6E-05	U
	^{106}Ru	-1.5E-04 \pm 5.2E-04	U		^{106}Ru	-5.7E-04 \pm 7.7E-04	U
	^{125}Sb	-4.6E-06 \pm 4.6E-05	U		^{125}Sb	-4.8E-05 \pm 2.0E-04	U
	^{113}Sn	1.6E-06 \pm 1.6E-05	U		^{113}Sn	-2.8E-05 \pm 8.4E-05	U
	^{90}Sr	1.5E-04 \pm 9.7E-05			^{90}Sr	-2.2E-05 \pm 1.1E-04	U
	^{234}U	2.4E-05 \pm 1.2E-05			^{234}U	6.4E-06 \pm 6.1E-06	U
	^{235}U	3.3E-06 \pm 4.7E-06	U		^{235}U	7.0E-06 \pm 5.8E-06	
	^{238}U	1.5E-05 \pm 8.9E-06			^{238}U	9.7E-06 \pm 6.3E-06	
	^{65}Zn	-1.2E-04 \pm 1.6E-04	U		^{65}Zn	1.2E-04 \pm 2.0E-04	U
N999 (200-East)	^{144}Ce	-5.5E-04 \pm 8.0E-04	U	N155 (200-West)	^{144}Ce	-2.5E-04 \pm 7.2E-04	U
Composite Period	^{60}Co	8.8E-05 \pm 7.9E-05	U	Composite Period	^{60}Co	-4.7E-06 \pm 4.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	-2.4E-05 \pm 7.1E-05	U	01/06/03 to 06/23/03	^{134}Cs	2.7E-05 \pm 7.9E-05	U
	^{137}Cs	8.4E-05 \pm 7.5E-05	U		^{137}Cs	5.1E-04 \pm 2.1E-04	
	^{152}Eu	1.5E-05 \pm 1.5E-04	U		^{152}Eu	-1.4E-04 \pm 2.0E-04	U
	^{154}Eu	-7.9E-05 \pm 2.1E-04	U		^{154}Eu	1.0E-04 \pm 1.9E-04	U
	^{155}Eu	2.4E-05 \pm 1.8E-04	U		^{155}Eu	-1.3E-04 \pm 2.1E-04	U
	^{238}Pu	-5.9E-06 \pm 1.2E-05	U		^{238}Pu	-9.0E-07 \pm 9.0E-06	U
	$^{239/240}\text{Pu}$	8.5E-07 \pm 8.8E-07	U		$^{239/240}\text{Pu}$	9.7E-06 \pm 7.3E-06	
	^{103}Ru	3.7E-06 \pm 3.7E-05	U		^{103}Ru	-5.8E-05 \pm 7.2E-05	U
	^{106}Ru	1.2E-05 \pm 1.2E-04	U		^{106}Ru	-6.2E-05 \pm 6.2E-04	U
	^{125}Sb	1.7E-04 \pm 1.5E-04	U		^{125}Sb	1.1E-04 \pm 1.9E-04	U
	^{113}Sn	3.7E-05 \pm 7.6E-05	U		^{113}Sn	3.1E-05 \pm 8.7E-05	U
	^{90}Sr	8.5E-05 \pm 9.7E-05	U		^{90}Sr	-3.0E-05 \pm 9.8E-05	U
	^{234}U	1.6E-05 \pm 9.3E-06			^{234}U	2.7E-06 \pm 4.4E-06	U
	^{235}U	2.6E-06 \pm 3.1E-06			^{235}U	2.2E-06 \pm 3.4E-06	U
	^{238}U	1.5E-05 \pm 9.0E-06			^{238}U	6.1E-06 \pm 4.6E-06	
	^{65}Zn	2.0E-04 \pm 2.5E-04	U		^{65}Zn	-1.2E-04 \pm 1.7E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N155 (200-West)	^{144}Ce	9.0E-05 \pm 5.7E-04	U	N161 (200-West)	^{144}Ce	3.4E-04 \pm 5.9E-04	U
Composite Period	^{60}Co	-2.8E-05 \pm 7.7E-05	U	Composite Period	^{60}Co	5.2E-05 \pm 8.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	3.0E-05 \pm 7.3E-05	U	01/06/03 to 06/23/03	^{134}Cs	-2.9E-06 \pm 2.9E-05	U
	^{137}Cs	4.5E-04 \pm 1.9E-04			^{137}Cs	4.9E-05 \pm 7.7E-05	U
	^{152}Eu	8.7E-05 \pm 1.5E-04	U		^{152}Eu	-3.4E-05 \pm 1.6E-04	U
	^{154}Eu	-2.6E-05 \pm 2.5E-04	U		^{154}Eu	1.1E-04 \pm 1.9E-04	U
	^{155}Eu	-1.2E-05 \pm 1.2E-04	U		^{155}Eu	4.8E-05 \pm 1.5E-04	U
	^{238}Pu	-1.0E-05 \pm 2.3E-05	U		^{238}Pu	-2.6E-06 \pm 6.8E-06	U
	$^{239/240}\text{Pu}$	2.0E-05 \pm 1.3E-05			$^{239/240}\text{Pu}$	6.2E-06 \pm 5.2E-06	
	^{103}Ru	-1.3E-06 \pm 1.3E-05	U		^{103}Ru	-1.2E-05 \pm 6.3E-05	U
	^{106}Ru	-2.0E-04 \pm 5.3E-04	U		^{106}Ru	-2.7E-04 \pm 6.2E-04	U
	^{125}Sb	6.6E-06 \pm 6.6E-05	U		^{125}Sb	-7.0E-05 \pm 1.6E-04	U
	^{113}Sn	-9.9E-06 \pm 6.6E-05	U		^{113}Sn	3.0E-05 \pm 7.0E-05	U
	^{90}Sr	-1.5E-05 \pm 8.7E-05	U		^{90}Sr	-1.5E-05 \pm 1.4E-04	U
	^{234}U	1.3E-05 \pm 8.1E-06			^{234}U	1.7E-05 \pm 9.5E-06	
	^{235}U	2.2E-06 \pm 3.4E-06	U		^{235}U	3.9E-06 \pm 4.5E-06	U
	^{238}U	1.0E-05 \pm 6.4E-06			^{238}U	8.5E-06 \pm 6.1E-06	
	^{65}Zn	1.6E-05 \pm 1.6E-04	U		^{65}Zn	-2.0E-04 \pm 2.0E-04	U
N161 (200-West)	^{144}Ce	6.7E-04 \pm 7.2E-04	U	N165 (200-West)	^{144}Ce	-6.4E-04 \pm 7.8E-04	U
Composite Period	^{60}Co	5.7E-05 \pm 9.8E-05	U	Composite Period	^{60}Co	1.6E-04 \pm 9.0E-05	U
06/23/03 to 12/22/03	^{134}Cs	-5.3E-05 \pm 9.2E-05	U	01/06/03 to 06/23/03	^{134}Cs	-3.6E-05 \pm 7.5E-05	U
	^{137}Cs	1.6E-05 \pm 8.2E-05	U		^{137}Cs	1.5E-04 \pm 8.8E-05	U
	^{152}Eu	6.7E-05 \pm 2.2E-04	U		^{152}Eu	1.9E-05 \pm 1.8E-04	U
	^{154}Eu	1.1E-04 \pm 2.6E-04	U		^{154}Eu	-1.5E-04 \pm 2.1E-04	U
	^{155}Eu	-5.2E-05 \pm 2.0E-04	U		^{155}Eu	1.9E-05 \pm 1.9E-04	U
	^{238}Pu	-4.3E-06 \pm 1.6E-05	U		^{238}Pu	8.2E-06 \pm 1.0E-05	U
	$^{239/240}\text{Pu}$	6.5E-06 \pm 7.4E-06	U		$^{239/240}\text{Pu}$	2.8E-04 \pm 1.1E-04	
	^{103}Ru	-3.4E-05 \pm 7.1E-05	U		^{103}Ru	1.6E-05 \pm 6.9E-05	U
	^{106}Ru	-9.0E-05 \pm 6.5E-04	U		^{106}Ru	4.9E-04 \pm 6.4E-04	U
	^{125}Sb	-7.0E-05 \pm 1.7E-04	U		^{125}Sb	-4.8E-05 \pm 1.9E-04	U
	^{113}Sn	-5.8E-05 \pm 8.3E-05	U		^{113}Sn	-1.0E-04 \pm 1.1E-04	U
	^{90}Sr	-6.1E-05 \pm 1.1E-04	U		^{90}Sr	-1.3E-04 \pm 1.3E-04	U
	^{234}U	1.4E-05 \pm 8.4E-06			^{234}U	1.2E-05 \pm 7.5E-06	
	^{235}U	8.3E-07 \pm 1.7E-06	U		^{235}U	5.1E-06 \pm 4.7E-06	U
	^{238}U	1.1E-05 \pm 7.2E-06			^{238}U	6.6E-06 \pm 4.8E-06	
	^{65}Zn	2.2E-04 \pm 2.2E-04	U		^{65}Zn	-1.2E-04 \pm 1.5E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N165 (200-West)	^{144}Ce	3.2E-04 \pm 5.3E-04	U	N168 (200-West)	^{144}Ce	-3.4E-04 \pm 7.2E-04	U
Composite Period	^{60}Co	3.0E-05 \pm 7.4E-05	U	Composite Period	^{60}Co	-1.5E-05 \pm 9.3E-05	U
06/23/03 to 12/22/03	^{134}Cs	7.4E-05 \pm 6.1E-05	U	01/06/03 to 06/23/03	^{134}Cs	3.8E-06 \pm 3.8E-05	U
	^{137}Cs	7.6E-05 \pm 7.3E-05	U		^{137}Cs	6.4E-05 \pm 9.4E-05	U
	^{152}Eu	-4.6E-05 \pm 1.4E-04	U		^{152}Eu	5.1E-05 \pm 1.9E-04	U
	^{154}Eu	-1.4E-04 \pm 2.2E-04	U		^{154}Eu	-2.1E-05 \pm 2.1E-04	U
	^{155}Eu	-4.7E-05 \pm 1.4E-04	U		^{155}Eu	2.1E-04 \pm 2.0E-04	U
	^{238}Pu	-1.1E-06 \pm 1.1E-05	U		^{238}Pu	-3.4E-06 \pm 1.4E-05	U
	$^{239/240}\text{Pu}$	5.0E-04 \pm 1.9E-04			$^{239/240}\text{Pu}$	5.1E-06 \pm 4.6E-06	
	^{103}Ru	3.1E-05 \pm 5.6E-05	U		^{103}Ru	3.2E-05 \pm 7.6E-05	U
	^{106}Ru	-5.9E-04 \pm 6.2E-04	U		^{106}Ru	4.5E-04 \pm 7.4E-04	U
	^{125}Sb	-1.0E-05 \pm 1.1E-04	U		^{125}Sb	-1.2E-05 \pm 1.2E-04	U
	^{113}Sn	-9.2E-07 \pm 9.2E-06	U		^{113}Sn	1.4E-05 \pm 8.3E-05	U
	^{90}Sr	-5.7E-05 \pm 8.9E-05	U		^{90}Sr	-6.9E-05 \pm 1.1E-04	U
	^{234}U	1.2E-05 \pm 7.3E-06			^{234}U	2.0E-05 \pm 1.1E-05	
	^{235}U	2.1E-06 \pm 3.9E-06	U		^{235}U	5.6E-06 \pm 4.7E-06	
	^{238}U	1.6E-05 \pm 8.9E-06			^{238}U	1.2E-05 \pm 7.7E-06	
	^{65}Zn	4.5E-06 \pm 4.5E-05	U		^{65}Zn	-1.0E-04 \pm 2.2E-04	U
N168 (200-West)	^{144}Ce	-7.2E-04 \pm 8.0E-04	U	N200 (200-West)	^{144}Ce	-2.1E-04 \pm 8.5E-04	U
Composite Period	^{60}Co	4.4E-06 \pm 4.4E-05	U	Composite Period	^{60}Co	-2.8E-05 \pm 1.2E-04	U
06/23/03 to 12/22/03	^{134}Cs	-1.5E-05 \pm 7.3E-05	U	02/25/03 to 06/24/03	^{134}Cs	-1.2E-04 \pm 1.2E-04	U
	^{137}Cs	1.9E-05 \pm 7.2E-05	U		^{137}Cs	8.2E-05 \pm 1.1E-04	U
	^{152}Eu	-7.9E-05 \pm 2.0E-04	U		^{152}Eu	1.8E-04 \pm 2.7E-04	U
	^{154}Eu	9.9E-06 \pm 9.9E-05	U		^{154}Eu	2.3E-04 \pm 3.0E-04	U
	^{155}Eu	-1.1E-05 \pm 1.1E-04	U		^{155}Eu	-1.8E-04 \pm 2.5E-04	U
	^{238}Pu	-8.6E-06 \pm 1.2E-05	U		^{238}Pu	1.3E-05 \pm 2.6E-05	U
	$^{239/240}\text{Pu}$	4.1E-06 \pm 6.2E-06	U		$^{239/240}\text{Pu}$	1.5E-06 \pm 3.1E-06	U
	^{103}Ru	2.3E-05 \pm 6.5E-05	U		^{103}Ru	4.8E-05 \pm 9.4E-05	U
	^{106}Ru	-2.4E-05 \pm 2.4E-04	U		^{106}Ru	2.7E-04 \pm 9.5E-04	U
	^{125}Sb	9.3E-05 \pm 1.7E-04	U		^{125}Sb	-1.1E-05 \pm 1.1E-04	U
	^{113}Sn	1.7E-05 \pm 7.8E-05	U		^{113}Sn	-3.6E-05 \pm 1.2E-04	U
	^{90}Sr	8.6E-06 \pm 8.6E-05	U		^{90}Sr	-1.9E-04 \pm 1.9E-04	U
	^{234}U	1.9E-05 \pm 1.1E-05			^{234}U	9.6E-06 \pm 7.2E-06	
	^{235}U	3.3E-06 \pm 3.4E-06			^{235}U	5.9E-06 \pm 5.6E-06	
	^{238}U	1.9E-05 \pm 1.0E-05			^{238}U	5.4E-06 \pm 6.6E-06	
	^{65}Zn	6.3E-05 \pm 1.9E-04	U		^{65}Zn	-2.8E-04 \pm 3.0E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N200 (200-West)	^{144}Ce	1.9E-04 \pm 6.9E-04	U	N304 (200-West)	^{144}Ce	-1.4E-04 \pm 7.6E-04	U
Composite Period	^{60}Co	7.3E-05 \pm 9.1E-05	U	Composite Period	^{60}Co	-1.5E-05 \pm 7.0E-05	U
06/24/03 to 12/22/03	^{134}Cs	-1.6E-05 \pm 9.3E-05	U	01/06/03 to 06/23/03	^{134}Cs	1.9E-05 \pm 7.8E-05	U
	^{137}Cs	2.0E-05 \pm 8.9E-05	U		^{137}Cs	-6.4E-06 \pm 6.4E-05	U
	^{152}Eu	-3.4E-05 \pm 1.8E-04	U		^{152}Eu	1.3E-04 \pm 2.1E-04	U
	^{154}Eu	5.4E-05 \pm 2.6E-04	U		^{154}Eu	-1.6E-05 \pm 1.6E-04	U
	^{155}Eu	-1.2E-04 \pm 2.0E-04	U		^{155}Eu	-6.6E-05 \pm 2.1E-04	U
	^{238}Pu	1.6E-06 \pm 1.1E-05	U		^{238}Pu	-1.1E-06 \pm 1.1E-05	U
	$^{239/240}\text{Pu}$	4.0E-06 \pm 3.9E-06			$^{239/240}\text{Pu}$	7.0E-06 \pm 6.3E-06	
	^{103}Ru	4.3E-05 \pm 7.3E-05	U		^{103}Ru	-1.0E-05 \pm 7.3E-05	U
	^{106}Ru	-2.6E-04 \pm 6.9E-04	U		^{106}Ru	-4.7E-04 \pm 6.7E-04	U
	^{125}Sb	-1.1E-04 \pm 1.8E-04	U		^{125}Sb	1.9E-05 \pm 1.9E-04	U
	^{113}Sn	2.2E-05 \pm 7.9E-05	U		^{113}Sn	-6.3E-06 \pm 6.3E-05	U
	^{90}Sr	-7.4E-05 \pm 1.2E-04	U		^{90}Sr	-2.3E-05 \pm 9.6E-05	U
	^{234}U	1.6E-05 \pm 9.4E-06			^{234}U	2.7E-05 \pm 1.8E-05	
	^{235}U	8.2E-07 \pm 1.6E-06	U		^{235}U	1.3E-05 \pm 1.5E-05	U
	^{238}U	1.8E-05 \pm 9.8E-06			^{238}U	1.5E-05 \pm 1.3E-05	
	^{65}Zn	2.4E-05 \pm 1.9E-04	U		^{65}Zn	-1.5E-06 \pm 1.5E-05	U
N304 (200-West)	^{144}Ce	5.3E-05 \pm 5.3E-04	U	N433 (200-West)	^{144}Ce	5.8E-04 \pm 7.2E-04	U
Composite Period	^{60}Co	-3.0E-05 \pm 7.5E-05	U	Composite Period	^{60}Co	6.6E-06 \pm 6.6E-05	U
06/23/03 to 12/22/03	^{134}Cs	4.7E-06 \pm 4.7E-05	U	01/06/03 to 06/23/03	^{134}Cs	-1.6E-05 \pm 9.2E-05	U
	^{137}Cs	3.1E-05 \pm 6.5E-05	U		^{137}Cs	7.1E-05 \pm 8.8E-05	U
	^{152}Eu	1.3E-04 \pm 1.5E-04	U		^{152}Eu	-5.2E-06 \pm 5.2E-05	U
	^{154}Eu	-9.2E-05 \pm 2.6E-04	U		^{154}Eu	-8.4E-06 \pm 8.4E-05	U
	^{155}Eu	4.4E-05 \pm 1.5E-04	U		^{155}Eu	1.2E-04 \pm 1.9E-04	U
	^{238}Pu	-2.6E-06 \pm 1.2E-05	U		^{238}Pu	-2.0E-05 \pm 2.1E-05	U
	$^{239/240}\text{Pu}$	6.9E-06 \pm 6.0E-06			$^{239/240}\text{Pu}$	2.3E-04 \pm 9.4E-05	
	^{103}Ru	-2.9E-05 \pm 5.7E-05	U		^{103}Ru	4.8E-05 \pm 7.6E-05	U
	^{106}Ru	4.6E-04 \pm 6.0E-04	U		^{106}Ru	-3.4E-04 \pm 9.0E-04	U
	^{125}Sb	7.3E-05 \pm 1.3E-04	U		^{125}Sb	3.2E-05 \pm 1.7E-04	U
	^{113}Sn	2.7E-06 \pm 2.7E-05	U		^{113}Sn	1.8E-05 \pm 8.5E-05	U
	^{90}Sr	-1.3E-04 \pm 1.4E-04	U		^{90}Sr	-1.3E-04 \pm 1.4E-04	U
	^{234}U	1.3E-05 \pm 8.0E-06			^{234}U	2.2E-05 \pm 1.1E-05	
	^{235}U	1.6E-06 \pm 2.3E-06	U		^{235}U	5.0E-06 \pm 4.5E-06	
	^{238}U	1.7E-05 \pm 9.4E-06			^{238}U	1.9E-05 \pm 1.0E-05	
	^{65}Zn	6.8E-05 \pm 1.8E-04	U		^{65}Zn	-1.3E-04 \pm 2.0E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N433 (200-West)	^{144}Ce	4.1E-04 \pm 8.7E-04	U	N441 (200-West)	^{144}Ce	-1.7E-04 \pm 5.5E-04	U
Composite Period	^{60}Co	3.1E-06 \pm 3.1E-05	U	Composite Period	^{60}Co	-1.4E-05 \pm 7.4E-05	U
06/23/03 to 12/22/03	^{134}Cs	2.3E-05 \pm 8.3E-05	U	01/06/03 to 06/23/03	^{134}Cs	3.5E-05 \pm 7.8E-05	U
	^{137}Cs	4.6E-05 \pm 7.5E-05	U		^{137}Cs	1.2E-04 \pm 8.3E-05	U
	^{152}Eu	-3.7E-05 \pm 2.3E-04	U		^{152}Eu	-9.4E-05 \pm 1.6E-04	U
	^{154}Eu	-2.1E-04 \pm 3.1E-04	U		^{154}Eu	2.6E-05 \pm 2.1E-04	U
	^{155}Eu	-6.2E-05 \pm 2.3E-04	U		^{155}Eu	-1.8E-05 \pm 1.4E-04	U
	^{238}Pu	-3.9E-06 \pm 1.5E-05	U		^{238}Pu	5.4E-06 \pm 1.5E-05	U
	$^{239/240}\text{Pu}$	2.5E-05 \pm 1.4E-05			$^{239/240}\text{Pu}$	4.5E-06 \pm 6.4E-06	U
	^{103}Ru	-1.1E-05 \pm 7.6E-05	U		^{103}Ru	-2.9E-05 \pm 5.9E-05	U
	^{106}Ru	-1.3E-04 \pm 6.5E-04	U		^{106}Ru	-3.5E-04 \pm 6.1E-04	U
	^{125}Sb	-1.5E-04 \pm 1.9E-04	U		^{125}Sb	-2.3E-06 \pm 2.3E-05	U
	^{113}Sn	-3.4E-05 \pm 8.6E-05	U		^{113}Sn	-2.1E-06 \pm 2.1E-05	U
	^{90}Sr	-4.9E-05 \pm 1.0E-04	U		^{90}Sr	-7.5E-05 \pm 1.1E-04	U
	^{234}U	2.1E-05 \pm 1.2E-05			^{234}U	1.4E-05 \pm 7.9E-06	
	^{235}U	3.6E-06 \pm 4.4E-06	U		^{235}U	3.8E-06 \pm 3.7E-06	
	^{238}U	2.7E-05 \pm 1.4E-05			^{238}U	9.0E-06 \pm 6.0E-06	
	^{65}Zn	3.0E-04 \pm 2.3E-04	U		^{65}Zn	-1.4E-04 \pm 1.5E-04	U
N441 (200-West)	^{144}Ce	9.8E-04 \pm 9.5E-04	U	N442 (200-West)	^{144}Ce	-2.6E-05 \pm 2.6E-04	U
Composite Period	^{60}Co	-4.7E-05 \pm 8.5E-05	U	Composite Period	^{60}Co	2.9E-06 \pm 2.9E-05	U
06/23/03 to 12/22/03	^{134}Cs	-3.8E-05 \pm 9.0E-05	U	01/06/03 to 06/23/03	^{134}Cs	-1.4E-05 \pm 7.7E-05	U
	^{137}Cs	1.0E-04 \pm 8.2E-05	U		^{137}Cs	1.5E-04 \pm 9.1E-05	U
	^{152}Eu	9.0E-05 \pm 1.6E-04	U		^{152}Eu	-3.3E-05 \pm 1.8E-04	U
	^{154}Eu	1.6E-04 \pm 2.5E-04	U		^{154}Eu	-1.8E-05 \pm 1.8E-04	U
	^{155}Eu	2.7E-05 \pm 1.6E-04	U		^{155}Eu	-2.4E-04 \pm 2.5E-04	U
	^{238}Pu	5.3E-06 \pm 1.3E-05	U		^{238}Pu	1.1E-06 \pm 1.1E-06	U
	$^{239/240}\text{Pu}$	1.9E-05 \pm 1.0E-05			$^{239/240}\text{Pu}$	5.4E-06 \pm 6.7E-06	U
	^{103}Ru	4.6E-05 \pm 6.4E-05	U		^{103}Ru	2.8E-06 \pm 2.8E-05	U
	^{106}Ru	-5.3E-04 \pm 7.6E-04	U		^{106}Ru	-8.3E-04 \pm 8.6E-04	U
	^{125}Sb	-7.0E-05 \pm 1.6E-04	U		^{125}Sb	8.2E-05 \pm 1.8E-04	U
	^{113}Sn	2.3E-05 \pm 7.6E-05	U		^{113}Sn	-3.4E-05 \pm 7.6E-05	U
	^{90}Sr	1.4E-04 \pm 1.1E-04			^{90}Sr	6.8E-05 \pm 1.0E-04	U
	^{234}U	2.4E-05 \pm 1.3E-05			^{234}U	4.9E-06 \pm 4.1E-06	
	^{235}U	4.8E-06 \pm 4.3E-06			^{235}U	1.5E-06 \pm 2.2E-06	U
	^{238}U	1.6E-05 \pm 9.2E-06			^{238}U	7.5E-06 \pm 5.3E-06	
	^{65}Zn	7.3E-05 \pm 1.7E-04	U		^{65}Zn	-1.2E-04 \pm 1.8E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N442 (200-West)	^{144}Ce	7.3E-05 \pm 5.1E-04	U	N449 (200-West)	^{144}Ce	-1.0E-03 \pm 1.1E-03	U
Composite Period	^{60}Co	9.7E-05 \pm 8.5E-05	U	Composite Period	^{60}Co	9.7E-06 \pm 9.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	3.7E-05 \pm 7.1E-05	U	01/06/03 to 06/23/03	^{134}Cs	9.0E-05 \pm 8.4E-05	U
	^{137}Cs	8.3E-05 \pm 6.5E-05	U		^{137}Cs	-3.4E-05 \pm 9.2E-05	U
	^{152}Eu	-7.0E-06 \pm 7.0E-05	U		^{152}Eu	1.3E-04 \pm 2.0E-04	U
	^{154}Eu	2.6E-04 \pm 2.2E-04	U		^{154}Eu	5.0E-05 \pm 2.6E-04	U
	^{155}Eu	4.7E-05 \pm 1.4E-04	U		^{155}Eu	7.1E-05 \pm 1.9E-04	U
	^{238}Pu	9.2E-06 \pm 1.3E-05	U		^{238}Pu	-1.3E-05 \pm 1.6E-05	U
	$^{239/240}\text{Pu}$	1.1E-04 \pm 4.6E-05			$^{239/240}\text{Pu}$	3.5E-06 \pm 4.3E-06	
	^{103}Ru	-3.8E-05 \pm 5.3E-05	U		^{103}Ru	-4.1E-05 \pm 7.3E-05	U
	^{106}Ru	5.7E-05 \pm 5.4E-04	U		^{106}Ru	-2.8E-04 \pm 7.6E-04	U
	^{125}Sb	3.2E-04 \pm 2.6E-04			^{125}Sb	7.7E-05 \pm 1.7E-04	U
	^{113}Sn	1.4E-05 \pm 6.0E-05	U		^{113}Sn	4.7E-05 \pm 9.1E-05	U
	^{90}Sr	4.9E-05 \pm 1.0E-04	U		^{90}Sr	-4.8E-05 \pm 1.0E-04	U
	^{234}U	1.2E-05 \pm 9.6E-06	U		^{234}U	1.4E-05 \pm 8.5E-06	
	^{235}U	-2.7E-06 \pm 5.4E-06	U		^{235}U	3.4E-06 \pm 4.2E-06	U
	^{238}U	1.1E-05 \pm 7.6E-06			^{238}U	9.5E-06 \pm 7.2E-06	
	^{65}Zn	2.9E-05 \pm 1.5E-04	U		^{65}Zn	-9.9E-05 \pm 2.5E-04	U
N449 (200-West)	^{144}Ce	3.5E-04 \pm 8.3E-04	U	N456 (200-West)	^{144}Ce	-6.6E-05 \pm 6.6E-04	U
Composite Period	^{60}Co	1.6E-05 \pm 1.3E-04	U	Composite Period	^{60}Co	-3.5E-05 \pm 9.4E-05	U
06/23/03 to 12/22/03	^{134}Cs	2.0E-05 \pm 8.9E-05	U	01/06/03 to 06/23/03	^{134}Cs	-7.1E-05 \pm 1.0E-04	U
	^{137}Cs	7.6E-05 \pm 8.0E-05	U		^{137}Cs	1.1E-04 \pm 9.4E-05	U
	^{152}Eu	1.7E-04 \pm 2.0E-04	U		^{152}Eu	6.5E-05 \pm 1.8E-04	U
	^{154}Eu	-5.3E-05 \pm 2.8E-04	U		^{154}Eu	5.2E-05 \pm 2.3E-04	U
	^{155}Eu	-4.3E-05 \pm 2.1E-04	U		^{155}Eu	1.1E-06 \pm 1.1E-05	U
	^{238}Pu	2.1E-05 \pm 2.0E-05	U		^{238}Pu	8.5E-06 \pm 1.8E-05	U
	$^{239/240}\text{Pu}$	8.7E-06 \pm 7.2E-06			$^{239/240}\text{Pu}$	6.3E-06 \pm 6.4E-06	
	^{103}Ru	-6.7E-05 \pm 7.8E-05	U		^{103}Ru	-8.9E-06 \pm 8.5E-05	U
	^{106}Ru	4.5E-04 \pm 7.7E-04	U		^{106}Ru	-6.0E-04 \pm 8.5E-04	U
	^{125}Sb	5.2E-05 \pm 1.8E-04	U		^{125}Sb	-8.6E-05 \pm 1.8E-04	U
	^{113}Sn	-1.5E-05 \pm 9.2E-05	U		^{113}Sn	-1.0E-06 \pm 1.0E-05	U
	^{90}Sr	-2.4E-04 \pm 2.5E-04	U		^{90}Sr	-6.9E-05 \pm 1.0E-04	U
	^{234}U	1.5E-05 \pm 1.0E-05			^{234}U	1.3E-05 \pm 8.1E-06	
	^{235}U	1.0E-06 \pm 5.4E-06	U		^{235}U	4.0E-06 \pm 4.5E-06	U
	^{238}U	1.5E-05 \pm 9.4E-06			^{238}U	1.4E-05 \pm 8.4E-06	
	^{65}Zn	-1.5E-04 \pm 2.1E-04	U		^{65}Zn	-9.5E-05 \pm 2.1E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N456 (200-West) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	3.3E-04 \pm 6.1E-04	U	N457 (200-West) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-3.8E-04 \pm 7.8E-04	U
	⁶⁰ Co	1.3E-05 \pm 7.8E-05	U		⁶⁰ Co	-4.1E-05 \pm 7.8E-05	U
	¹³⁴ Cs	-3.1E-05 \pm 6.1E-05	U		¹³⁴ Cs	-7.1E-05 \pm 8.1E-05	U
	¹³⁷ Cs	5.5E-05 \pm 6.6E-05	U		¹³⁷ Cs	7.9E-05 \pm 7.9E-05	U
	¹⁵² Eu	5.8E-05 \pm 1.4E-04	U		¹⁵² Eu	-1.9E-05 \pm 1.9E-04	U
	¹⁵⁴ Eu	-3.6E-05 \pm 2.2E-04	U		¹⁵⁴ Eu	-4.0E-05 \pm 2.1E-04	U
	¹⁵⁵ Eu	1.1E-04 \pm 1.6E-04	U		¹⁵⁵ Eu	-8.4E-05 \pm 2.1E-04	U
	²³⁸ Pu	4.0E-06 \pm 1.5E-05	U		²³⁸ Pu	8.5E-06 \pm 1.8E-05	U
	^{239/240} Pu	2.0E-06 \pm 5.0E-06	U		^{239/240} Pu	7.2E-06 \pm 6.8E-06	U
	¹⁰³ Ru	1.2E-06 \pm 1.2E-05	U		¹⁰³ Ru	-6.7E-05 \pm 8.4E-05	U
	¹⁰⁶ Ru	-1.8E-04 \pm 5.0E-04	U		¹⁰⁶ Ru	-1.4E-04 \pm 7.0E-04	U
	¹²⁵ Sb	3.8E-05 \pm 1.4E-04	U		¹²⁵ Sb	-7.4E-05 \pm 1.9E-04	U
	¹¹³ Sn	-2.6E-05 \pm 6.5E-05	U		¹¹³ Sn	3.9E-05 \pm 8.6E-05	U
	⁹⁰ Sr	-1.1E-04 \pm 1.2E-04	U		⁹⁰ Sr	7.7E-06 \pm 7.7E-05	U
	²³⁴ U	1.7E-05 \pm 1.0E-05			²³⁴ U	7.2E-06 \pm 5.7E-06	
	²³⁵ U	1.8E-06 \pm 2.5E-06	U		²³⁵ U	3.9E-06 \pm 3.8E-06	
	²³⁸ U	1.8E-05 \pm 1.1E-05			²³⁸ U	5.7E-06 \pm 4.6E-06	
	⁶⁵ Zn	1.3E-04 \pm 1.7E-04	U		⁶⁵ Zn	-1.5E-04 \pm 1.7E-04	U
N457 (200-West) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-6.8E-05 \pm 6.1E-04	U	N956 (200-West) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-6.0E-04 \pm 7.9E-04	U
	⁶⁰ Co	-1.7E-05 \pm 7.9E-05	U		⁶⁰ Co	2.9E-05 \pm 9.9E-05	U
	¹³⁴ Cs	4.8E-05 \pm 6.9E-05	U		¹³⁴ Cs	2.4E-05 \pm 8.5E-05	U
	¹³⁷ Cs	9.3E-05 \pm 7.1E-05	U		¹³⁷ Cs	4.2E-04 \pm 1.9E-04	
	¹⁵² Eu	3.0E-06 \pm 3.0E-05	U		¹⁵² Eu	-1.1E-04 \pm 1.9E-04	U
	¹⁵⁴ Eu	-3.6E-05 \pm 2.5E-04	U		¹⁵⁴ Eu	-7.5E-06 \pm 7.5E-05	U
	¹⁵⁵ Eu	-5.6E-05 \pm 1.6E-04	U		¹⁵⁵ Eu	-2.4E-05 \pm 1.9E-04	U
	²³⁸ Pu	3.7E-06 \pm 5.3E-06	U		²³⁸ Pu	3.3E-06 \pm 1.4E-05	U
	^{239/240} Pu	2.8E-06 \pm 3.4E-06			^{239/240} Pu	6.7E-06 \pm 5.8E-06	
	¹⁰³ Ru	-1.3E-05 \pm 6.2E-05	U		¹⁰³ Ru	6.3E-06 \pm 6.3E-05	U
	¹⁰⁶ Ru	1.2E-04 \pm 5.6E-04	U		¹⁰⁶ Ru	-8.6E-04 \pm 8.9E-04	U
	¹²⁵ Sb	-2.4E-06 \pm 2.4E-05	U		¹²⁵ Sb	-5.3E-05 \pm 1.8E-04	U
	¹¹³ Sn	3.0E-05 \pm 6.7E-05	U		¹¹³ Sn	5.9E-05 \pm 9.6E-05	U
	⁹⁰ Sr	-1.4E-05 \pm 9.4E-05	U		⁹⁰ Sr	-1.1E-04 \pm 1.1E-04	U
	²³⁴ U	1.3E-05 \pm 8.0E-06			²³⁴ U	2.0E-05 \pm 1.1E-05	
	²³⁵ U	2.2E-06 \pm 2.7E-06			²³⁵ U	7.3E-07 \pm 7.3E-06	U
	²³⁸ U	1.5E-05 \pm 8.6E-06			²³⁸ U	1.2E-05 \pm 7.5E-06	
	⁶⁵ Zn	1.3E-04 \pm 1.8E-04	U		⁶⁵ Zn	1.5E-05 \pm 1.5E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N956 (200-West) Composite Period 06/23/03 to 12/22/03	¹⁴⁴ Ce	-3.7E-04 \pm 5.7E-04	U	N963 (200-West) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	-1.1E-05 \pm 1.1E-04	U
	⁶⁰ Co	3.8E-05 \pm 7.7E-05	U		⁶⁰ Co	6.2E-05 \pm 9.2E-05	U
	¹³⁴ Cs	5.1E-06 \pm 5.1E-05	U		¹³⁴ Cs	1.3E-05 \pm 8.2E-05	U
	¹³⁷ Cs	2.3E-04 \pm 1.4E-04			¹³⁷ Cs	5.9E-05 \pm 7.9E-05	U
	¹⁵² Eu	3.3E-05 \pm 1.5E-04	U		¹⁵² Eu	-7.6E-06 \pm 7.6E-05	U
	¹⁵⁴ Eu	2.1E-04 \pm 2.4E-04	U		¹⁵⁴ Eu	-1.9E-05 \pm 1.9E-04	U
	¹⁵⁵ Eu	-5.0E-05 \pm 1.5E-04	U		¹⁵⁵ Eu	3.1E-05 \pm 1.9E-04	U
	²³⁸ Pu	8.1E-06 \pm 1.1E-05	U		²³⁸ Pu	8.4E-07 \pm 8.7E-07	U
	^{239/240} Pu	4.6E-06 \pm 5.3E-06	U		^{239/240} Pu	1.6E-05 \pm 9.6E-06	
	¹⁰³ Ru	4.0E-05 \pm 6.8E-05	U		¹⁰³ Ru	4.6E-05 \pm 7.7E-05	U
	¹⁰⁶ Ru	-1.8E-04 \pm 5.5E-04	U		¹⁰⁶ Ru	-4.2E-04 \pm 7.6E-04	U
	¹²⁵ Sb	-7.7E-05 \pm 1.5E-04	U		¹²⁵ Sb	9.8E-05 \pm 1.8E-04	U
	¹¹³ Sn	2.3E-05 \pm 6.7E-05	U		¹¹³ Sn	-4.4E-05 \pm 8.9E-05	U
	⁹⁰ Sr	-7.4E-06 \pm 7.4E-05	U		⁹⁰ Sr	-1.5E-05 \pm 7.7E-05	U
N963 (200-West) Composite Period 06/23/03 to 12/22/03	²³⁴ U	1.7E-05 \pm 9.9E-06			²³⁴ U	1.4E-05 \pm 8.0E-06	
	²³⁵ U	4.6E-06 \pm 4.1E-06			²³⁵ U	1.5E-06 \pm 2.1E-06	U
	²³⁸ U	2.2E-05 \pm 1.2E-05			²³⁸ U	4.1E-06 \pm 3.7E-06	
	⁶⁵ Zn	1.5E-04 \pm 1.9E-04	U		⁶⁵ Zn	-3.9E-05 \pm 1.8E-04	U
	¹⁴⁴ Ce	8.1E-05 \pm 5.8E-04	U	N964 (200-West) Composite Period 01/06/03 to 06/23/03	¹⁴⁴ Ce	2.3E-04 \pm 7.2E-04	U
	⁶⁰ Co	8.8E-05 \pm 8.9E-05	U		⁶⁰ Co	1.2E-05 \pm 9.2E-05	U
	¹³⁴ Cs	-4.0E-05 \pm 7.7E-05	U		¹³⁴ Cs	5.4E-05 \pm 9.6E-05	U
	¹³⁷ Cs	2.4E-05 \pm 6.6E-05	U		¹³⁷ Cs	1.1E-05 \pm 8.5E-05	U
	¹⁵² Eu	-2.1E-05 \pm 1.4E-04	U		¹⁵² Eu	3.6E-06 \pm 3.6E-05	U
	¹⁵⁴ Eu	-8.6E-05 \pm 2.1E-04	U		¹⁵⁴ Eu	1.0E-04 \pm 2.9E-04	U
	¹⁵⁵ Eu	1.3E-05 \pm 1.3E-04	U		¹⁵⁵ Eu	9.2E-06 \pm 9.2E-05	U
	²³⁸ Pu	8.8E-07 \pm 5.0E-07	U		²³⁸ Pu	1.4E-05 \pm 1.3E-05	U
	^{239/240} Pu	6.4E-05 \pm 2.8E-05			^{239/240} Pu	1.6E-06 \pm 4.0E-06	
	¹⁰³ Ru	-2.6E-05 \pm 6.3E-05	U		¹⁰³ Ru	3.4E-05 \pm 7.6E-05	U
	¹⁰⁶ Ru	3.2E-04 \pm 5.6E-04	U		¹⁰⁶ Ru	2.2E-04 \pm 7.8E-04	U
	¹²⁵ Sb	3.9E-05 \pm 1.4E-04	U		¹²⁵ Sb	1.6E-04 \pm 2.0E-04	U
	¹¹³ Sn	8.8E-06 \pm 6.8E-05	U		¹¹³ Sn	-3.6E-05 \pm 9.0E-05	U
	⁹⁰ Sr	-1.2E-04 \pm 1.2E-04	U		⁹⁰ Sr	7.7E-06 \pm 7.7E-05	U
	²³⁴ U	1.2E-05 \pm 7.9E-06			²³⁴ U	1.3E-05 \pm 7.6E-06	
	²³⁵ U	1.6E-06 \pm 2.3E-06	U		²³⁵ U	1.5E-06 \pm 2.2E-06	U
	²³⁸ U	1.1E-05 \pm 7.0E-06			²³⁸ U	5.6E-06 \pm 4.5E-06	
	⁶⁵ Zn	-4.9E-07 \pm 4.9E-06	U		⁶⁵ Zn	3.1E-05 \pm 2.0E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N964 (200-West)	^{144}Ce	2.4E-04 ± 8.5E-04	U	N965 (200-West)	^{144}Ce	-6.2E-04 ± 8.0E-04	U
Composite Period	^{60}Co	-2.2E-05 ± 7.2E-05	U	Composite Period	^{60}Co	2.1E-05 ± 7.6E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.4E-05 ± 7.2E-05	U	01/06/03 to 06/23/03	^{134}Cs	1.9E-05 ± 8.0E-05	U
	^{137}Cs	-1.2E-05 ± 6.7E-05	U		^{137}Cs	7.7E-05 ± 8.3E-05	U
	^{152}Eu	-1.4E-04 ± 1.7E-04	U		^{152}Eu	-8.3E-06 ± 8.3E-05	U
	^{154}Eu	9.4E-05 ± 2.0E-04	U		^{154}Eu	1.5E-04 ± 2.4E-04	U
	^{155}Eu	1.6E-05 ± 1.6E-04	U		^{155}Eu	-2.2E-05 ± 2.2E-04	U
	^{238}Pu	-3.5E-06 ± 8.8E-06	U		^{238}Pu	1.7E-06 ± 1.2E-05	U
	$^{239/240}\text{Pu}$	4.4E-06 ± 4.3E-06			$^{239/240}\text{Pu}$	1.7E-06 ± 4.3E-06	U
	^{103}Ru	-1.1E-07 ± 1.1E-06	U		^{103}Ru	5.1E-05 ± 8.0E-05	U
	^{106}Ru	1.7E-04 ± 5.4E-04	U		^{106}Ru	-1.4E-04 ± 6.5E-04	U
	^{125}Sb	-2.5E-05 ± 1.6E-04	U		^{125}Sb	-3.7E-05 ± 1.8E-04	U
	^{113}Sn	4.4E-06 ± 4.4E-05	U		^{113}Sn	-1.4E-05 ± 9.2E-05	U
	^{90}Sr	7.5E-06 ± 7.5E-05	U		^{90}Sr	-7.8E-05 ± 8.8E-05	U
	^{234}U	1.2E-05 ± 7.4E-06			^{234}U	1.2E-05 ± 7.5E-06	
	^{235}U	7.5E-07 ± 2.6E-06	U		^{235}U	4.6E-06 ± 4.1E-06	
	^{238}U	1.4E-05 ± 7.9E-06			^{238}U	6.3E-06 ± 4.8E-06	
	^{65}Zn	-5.9E-05 ± 1.6E-04	U		^{65}Zn	-1.6E-04 ± 2.0E-04	U
N965 (200-West)	^{144}Ce	9.9E-05 ± 5.9E-04	U	N966 (200-West)	^{144}Ce	-4.8E-05 ± 4.8E-04	U
Composite Period	^{60}Co	-8.7E-06 ± 6.8E-05	U	Composite Period	^{60}Co	-2.8E-05 ± 9.3E-05	U
06/23/03 to 12/22/03	^{134}Cs	5.4E-05 ± 6.8E-05	U	01/06/03 to 06/23/03	^{134}Cs	4.7E-05 ± 7.9E-05	U
	^{137}Cs	7.2E-06 ± 5.8E-05	U		^{137}Cs	1.1E-07 ± 1.1E-06	U
	^{152}Eu	-1.0E-04 ± 1.5E-04	U		^{152}Eu	1.5E-04 ± 2.0E-04	U
	^{154}Eu	-6.8E-05 ± 2.6E-04	U		^{154}Eu	8.0E-05 ± 2.6E-04	U
	^{155}Eu	8.4E-05 ± 1.5E-04	U		^{155}Eu	4.5E-05 ± 1.8E-04	U
	^{238}Pu	3.5E-06 ± 6.4E-06	U		^{238}Pu	-5.2E-06 ± 9.5E-06	U
	$^{239/240}\text{Pu}$	2.6E-06 ± 4.0E-06	U		$^{239/240}\text{Pu}$	2.6E-06 ± 4.0E-06	U
	^{103}Ru	-1.9E-06 ± 1.9E-05	U		^{103}Ru	3.4E-05 ± 7.7E-05	U
	^{106}Ru	9.5E-05 ± 4.9E-04	U		^{106}Ru	3.7E-04 ± 6.7E-04	U
	^{125}Sb	-1.1E-05 ± 1.1E-04	U		^{125}Sb	-1.4E-04 ± 1.9E-04	U
	^{113}Sn	2.4E-04 ± 2.0E-04	U		^{113}Sn	-3.9E-05 ± 8.1E-05	U
	^{90}Sr	-2.9E-05 ± 1.1E-04	U		^{90}Sr	-2.2E-05 ± 9.0E-05	U
	^{234}U	9.4E-06 ± 6.8E-06			^{234}U	9.7E-06 ± 6.7E-06	
	^{235}U	8.0E-07 ± 8.3E-07	U		^{235}U	-7.3E-07 ± 1.5E-06	U
	^{238}U	9.4E-06 ± 6.5E-06			^{238}U	7.4E-06 ± 5.9E-06	
	^{65}Zn	1.4E-04 ± 2.2E-04	U		^{65}Zn	-1.5E-04 ± 1.8E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N966 (200-West)	^{144}Ce	7.9E-05 \pm 6.6E-04	U	N974 (200-West)	^{144}Ce	-3.5E-04 \pm 7.6E-04	U
Composite Period	^{60}Co	-1.2E-04 \pm 1.3E-04	U	Composite Period	^{60}Co	4.7E-06 \pm 4.7E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.4E-05 \pm 8.6E-05	U	01/06/03 to 06/23/03	^{134}Cs	5.6E-06 \pm 5.7E-05	U
	^{137}Cs	-1.4E-05 \pm 7.5E-05	U		^{137}Cs	8.1E-05 \pm 9.4E-05	U
	^{152}Eu	7.4E-05 \pm 1.8E-04	U		^{152}Eu	3.3E-05 \pm 1.9E-04	U
	^{154}Eu	2.2E-04 \pm 2.4E-04	U		^{154}Eu	1.2E-05 \pm 1.2E-04	U
	^{155}Eu	-1.2E-04 \pm 1.7E-04	U		^{155}Eu	4.0E-05 \pm 2.1E-04	U
	^{238}Pu	7.8E-07 \pm 2.7E-06	U		^{238}Pu	-4.7E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	4.0E-06 \pm 4.6E-06	U		$^{239/240}\text{Pu}$	3.1E-06 \pm 4.4E-06	U
	^{103}Ru	-1.8E-05 \pm 7.5E-05	U		^{103}Ru	-2.0E-05 \pm 8.3E-05	U
	^{106}Ru	-2.5E-04 \pm 6.0E-04	U		^{106}Ru	-1.8E-04 \pm 7.9E-04	U
	^{125}Sb	-5.8E-05 \pm 1.7E-04	U		^{125}Sb	4.4E-05 \pm 2.0E-04	U
	^{113}Sn	-2.1E-05 \pm 7.1E-05	U		^{113}Sn	-5.8E-05 \pm 9.7E-05	U
	^{90}Sr	-5.7E-05 \pm 9.2E-05	U		^{90}Sr	-1.2E-04 \pm 1.2E-04	U
	^{234}U	1.4E-05 \pm 9.4E-06			^{234}U	7.7E-06 \pm 5.8E-06	
	^{235}U	8.5E-07 \pm 8.9E-07	U		^{235}U	7.0E-07 \pm 7.3E-07	U
	^{238}U	1.5E-05 \pm 9.0E-06			^{238}U	5.6E-06 \pm 4.9E-06	
	^{65}Zn	5.0E-05 \pm 2.0E-04	U		^{65}Zn	2.4E-04 \pm 2.3E-04	U
N974 (200-West)	^{144}Ce	2.4E-04 \pm 6.2E-04	U	N975 (200-West)	^{144}Ce	3.6E-04 \pm 5.6E-04	U
Composite Period	^{60}Co	-3.9E-05 \pm 8.1E-05	U	Composite Period	^{60}Co	-7.3E-06 \pm 7.3E-05	U
06/23/03 to 12/22/03	^{134}Cs	-2.2E-05 \pm 7.0E-05	U	01/06/03 to 06/23/03	^{134}Cs	-8.4E-06 \pm 7.6E-05	U
	^{137}Cs	-2.2E-05 \pm 6.1E-05	U		^{137}Cs	5.3E-05 \pm 7.2E-05	U
	^{152}Eu	-6.7E-05 \pm 1.6E-04	U		^{152}Eu	1.0E-04 \pm 1.6E-04	U
	^{154}Eu	2.5E-04 \pm 2.4E-04	U		^{154}Eu	-8.2E-05 \pm 2.7E-04	U
	^{155}Eu	-3.0E-05 \pm 1.5E-04	U		^{155}Eu	-4.5E-06 \pm 4.5E-05	U
	^{238}Pu	9.7E-06 \pm 1.4E-05	U		^{238}Pu	7.7E-07 \pm 8.0E-07	U
	$^{239/240}\text{Pu}$	3.7E-06 \pm 6.8E-06	U		$^{239/240}\text{Pu}$	9.3E-06 \pm 6.7E-06	
	^{103}Ru	-1.8E-05 \pm 5.9E-05	U		^{103}Ru	-3.3E-05 \pm 7.0E-05	U
	^{106}Ru	1.7E-04 \pm 4.7E-04	U		^{106}Ru	3.2E-04 \pm 6.5E-04	U
	^{125}Sb	-8.3E-05 \pm 1.5E-04	U		^{125}Sb	3.9E-06 \pm 3.9E-05	U
	^{113}Sn	-4.6E-05 \pm 6.6E-05	U		^{113}Sn	-7.2E-05 \pm 8.1E-05	U
	^{90}Sr	-1.7E-04 \pm 1.8E-04	U		^{90}Sr	-3.9E-05 \pm 9.8E-05	U
	^{234}U	1.2E-05 \pm 8.1E-06			^{234}U	1.4E-05 \pm 8.3E-06	
	^{235}U	7.5E-07 \pm 1.5E-06	U		^{235}U	3.1E-06 \pm 3.2E-06	
	^{238}U	1.3E-05 \pm 8.1E-06			^{238}U	4.9E-06 \pm 4.6E-06	
	^{65}Zn	3.8E-05 \pm 1.6E-04	U		^{65}Zn	-1.8E-04 \pm 1.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N975 (200-West)	^{144}Ce	3.8E-05 \pm 3.8E-04	U	N987 (200-West)	^{144}Ce	3.0E-04 \pm 8.0E-04	U
Composite Period	^{60}Co	-4.3E-05 \pm 9.0E-05	U	Composite Period	^{60}Co	-3.9E-05 \pm 9.2E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.5E-05 \pm 8.8E-05	U	01/06/03 to 06/23/03	^{134}Cs	-3.5E-05 \pm 8.0E-05	U
	^{137}Cs	2.5E-05 \pm 7.5E-05	U		^{137}Cs	5.8E-05 \pm 8.1E-05	U
	^{152}Eu	-6.5E-05 \pm 2.1E-04	U		^{152}Eu	-1.2E-04 \pm 2.4E-04	U
	^{154}Eu	4.3E-05 \pm 2.6E-04	U		^{154}Eu	1.6E-04 \pm 2.1E-04	U
	^{155}Eu	6.2E-05 \pm 1.8E-04	U		^{155}Eu	-1.7E-04 \pm 2.2E-04	U
	^{238}Pu	8.8E-06 \pm 1.3E-05	U		^{238}Pu	-5.7E-06 \pm 1.2E-05	U
	$^{239/240}\text{Pu}$	3.3E-05 \pm 1.7E-05			$^{239/240}\text{Pu}$	3.2E-06 \pm 3.9E-06	U
	^{103}Ru	1.4E-05 \pm 7.9E-05	U		^{103}Ru	1.1E-05 \pm 8.1E-05	U
	^{106}Ru	6.4E-04 \pm 6.8E-04	U		^{106}Ru	2.9E-04 \pm 6.9E-04	U
	^{125}Sb	-2.5E-04 \pm 2.6E-04	U		^{125}Sb	-7.8E-05 \pm 1.8E-04	U
	^{113}Sn	-3.9E-05 \pm 7.9E-05	U		^{113}Sn	-4.6E-05 \pm 9.3E-05	U
	^{90}Sr	-6.6E-05 \pm 1.0E-04	U		^{90}Sr	-3.1E-05 \pm 9.7E-05	U
	^{234}U	1.8E-05 \pm 1.0E-05			^{234}U	9.2E-06 \pm 6.5E-06	
	^{235}U	5.2E-06 \pm 4.4E-06			^{235}U	-7.6E-07 \pm 3.4E-06	U
	^{238}U	7.4E-06 \pm 6.1E-06			^{238}U	7.2E-06 \pm 5.7E-06	
	^{65}Zn	1.0E-04 \pm 2.1E-04	U		^{65}Zn	-7.0E-05 \pm 1.8E-04	U
N987 (200-West)	^{144}Ce	6.2E-04 \pm 7.6E-04	U	N994 (200-West)	^{144}Ce	3.0E-04 \pm 7.7E-04	U
Composite Period	^{60}Co	8.1E-07 \pm 8.1E-06	U	Composite Period	^{60}Co	-6.8E-05 \pm 9.5E-05	U
06/23/03 to 12/22/03	^{134}Cs	-4.0E-05 \pm 9.1E-05	U	01/06/03 to 06/23/03	^{134}Cs	5.5E-05 \pm 5.8E-05	U
	^{137}Cs	8.1E-05 \pm 8.3E-05	U		^{137}Cs	-1.5E-05 \pm 7.6E-05	U
	^{152}Eu	1.2E-04 \pm 2.0E-04	U		^{152}Eu	2.4E-05 \pm 1.8E-04	U
	^{154}Eu	2.3E-04 \pm 2.8E-04	U		^{154}Eu	-2.4E-04 \pm 2.6E-04	U
	^{155}Eu	5.7E-05 \pm 1.8E-04	U		^{155}Eu	2.9E-05 \pm 1.9E-04	U
	^{238}Pu	1.3E-06 \pm 1.3E-06	U		^{238}Pu	-7.1E-06 \pm 1.4E-05	U
	$^{239/240}\text{Pu}$	3.8E-06 \pm 8.4E-06	U		$^{239/240}\text{Pu}$	9.1E-07 \pm 3.2E-06	U
	^{103}Ru	1.5E-05 \pm 7.9E-05	U		^{103}Ru	-6.1E-06 \pm 6.1E-05	U
	^{106}Ru	-1.0E-04 \pm 6.6E-04	U		^{106}Ru	-5.0E-04 \pm 7.4E-04	U
	^{125}Sb	-8.9E-06 \pm 8.9E-05	U		^{125}Sb	2.8E-04 \pm 2.1E-04	U
	^{113}Sn	5.7E-06 \pm 5.7E-05	U		^{113}Sn	3.6E-05 \pm 9.2E-05	U
	^{90}Sr	-1.1E-04 \pm 1.2E-04	U		^{90}Sr	-3.8E-05 \pm 9.6E-05	U
	^{234}U	1.1E-05 \pm 8.5E-06			^{234}U	5.2E-06 \pm 4.9E-06	U
	^{235}U	5.2E-06 \pm 4.7E-06			^{235}U	4.9E-06 \pm 4.5E-06	
	^{238}U	1.4E-05 \pm 8.5E-06			^{238}U	7.5E-06 \pm 5.9E-06	
	^{65}Zn	1.2E-04 \pm 2.2E-04	U		^{65}Zn	-2.2E-04 \pm 2.3E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N994 (200-West)	^{144}Ce	-3.2E-04 \pm 6.0E-04	U	N485 (300-FF-1&2)	^{144}Ce	-8.0E-05 \pm 8.0E-04	U
Composite Period	^{60}Co	-5.5E-05 \pm 7.8E-05	U	Composite Period	^{60}Co	1.3E-05 \pm 8.3E-05	U
06/23/03 to 12/22/03	^{134}Cs	-1.8E-05 \pm 7.4E-05	U	01/07/03 to 06/24/03	^{134}Cs	-5.3E-05 \pm 8.6E-05	U
	^{137}Cs	-1.6E-05 \pm 6.0E-05	U		^{137}Cs	8.4E-05 \pm 8.7E-05	U
	^{152}Eu	9.2E-05 \pm 1.6E-04	U		^{152}Eu	-1.6E-04 \pm 2.5E-04	U
	^{154}Eu	-2.3E-04 \pm 2.7E-04	U		^{154}Eu	3.3E-04 \pm 3.3E-04	U
	^{155}Eu	-1.9E-05 \pm 1.5E-04	U		^{155}Eu	-2.1E-05 \pm 2.1E-04	U
	^{238}Pu	-1.2E-06 \pm 1.0E-05	U		^{103}Ru	3.4E-05 \pm 8.9E-05	U
	$^{239/240}\text{Pu}$	1.2E-06 \pm 1.3E-06	U		^{106}Ru	2.2E-04 \pm 6.6E-04	U
	^{103}Ru	5.3E-05 \pm 6.7E-05	U		^{125}Sb	4.0E-05 \pm 1.8E-04	U
	^{106}Ru	-1.8E-04 \pm 5.6E-04	U		^{113}Sn	-2.5E-05 \pm 9.5E-05	U
	^{125}Sb	-6.8E-05 \pm 1.6E-04	U		^{234}U	3.6E-05 \pm 1.7E-05	
	^{113}Sn	-1.9E-05 \pm 6.7E-05	U		^{235}U	4.1E-06 \pm 4.2E-06	U
	^{90}Sr	-1.3E-04 \pm 1.3E-04	U		^{238}U	3.8E-05 \pm 1.8E-05	
	^{234}U	1.4E-05 \pm 8.9E-06			^{65}Zn	-2.1E-04 \pm 2.2E-04	U
	^{235}U	1.6E-06 \pm 3.2E-06	U				
	^{238}U	1.5E-05 \pm 8.8E-06					
	^{65}Zn	-1.4E-04 \pm 1.8E-04	U				
N485 (300-FF-1&2)	^{144}Ce	-9.2E-04 \pm 1.1E-03	U	N486 (300-FF-1&2)	^{144}Ce	4.5E-04 \pm 8.3E-04	U
Composite Period	^{60}Co	3.0E-04 \pm 1.3E-04	U	Composite Period	^{60}Co	-1.4E-05 \pm 7.5E-05	U
06/24/03 to 09/30/03	^{134}Cs	4.7E-05 \pm 1.3E-04	U	01/07/03 to 06/24/03	^{134}Cs	-7.5E-05 \pm 9.0E-05	U
	^{137}Cs	-9.9E-06 \pm 9.9E-05	U		^{137}Cs	3.7E-05 \pm 7.1E-05	U
	^{152}Eu	-7.6E-05 \pm 2.5E-04	U		^{152}Eu	-6.8E-05 \pm 1.9E-04	U
	^{154}Eu	-1.9E-04 \pm 3.9E-04	U		^{154}Eu	-1.0E-04 \pm 2.2E-04	U
	^{155}Eu	-4.5E-05 \pm 2.5E-04	U		^{155}Eu	-2.7E-04 \pm 2.8E-04	U
	^{103}Ru	-6.0E-05 \pm 1.2E-04	U		^{103}Ru	-2.9E-05 \pm 8.6E-05	U
	^{106}Ru	-3.2E-04 \pm 1.0E-03	U		^{106}Ru	6.0E-04 \pm 6.7E-04	U
	^{125}Sb	-2.1E-04 \pm 2.6E-04	U		^{125}Sb	1.6E-04 \pm 1.8E-04	U
	^{113}Sn	-8.1E-05 \pm 1.2E-04	U		^{113}Sn	-3.2E-06 \pm 3.2E-05	U
	^{234}U	3.6E-05 \pm 1.9E-05			^{234}U	2.4E-05 \pm 1.2E-05	
	^{235}U	4.3E-06 \pm 5.2E-06			^{235}U	-7.6E-07 \pm 2.7E-06	U
	^{238}U	2.0E-05 \pm 1.2E-05			^{238}U	1.3E-05 \pm 7.8E-06	
	^{65}Zn	4.9E-04 \pm 3.9E-04	U		^{65}Zn	1.1E-04 \pm 1.7E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result \pm Uncertainty	RQ*	Location	Isotope	Result \pm Uncertainty	RQ*
N486 (300-FF-1&2) Composite Period 06/24/03 to 09/30/03	¹⁴⁴ Ce	1.3E-03 \pm 1.1E-03	U	N487 (300-FF-1&2) Composite Period 01/07/03 to 06/24/03	¹⁴⁴ Ce	4.3E-04 \pm 8.1E-04	U
	⁶⁰ Co	-1.5E-05 \pm 1.4E-04	U		⁶⁰ Co	4.3E-05 \pm 9.2E-05	U
	¹³⁴ Cs	-8.2E-06 \pm 8.2E-05	U		¹³⁴ Cs	-2.6E-05 \pm 8.5E-05	U
	¹³⁷ Cs	-5.0E-05 \pm 1.1E-04	U		¹³⁷ Cs	2.2E-05 \pm 8.1E-05	U
	¹⁵² Eu	-1.0E-04 \pm 2.7E-04	U		¹⁵² Eu	1.3E-04 \pm 2.0E-04	U
	¹⁵⁴ Eu	-6.1E-05 \pm 3.5E-04	U		¹⁵⁴ Eu	1.7E-04 \pm 2.6E-04	U
	¹⁵⁵ Eu	-2.2E-06 \pm 2.2E-05	U		¹⁵⁵ Eu	-1.2E-04 \pm 1.9E-04	U
	¹⁰³ Ru	-5.5E-07 \pm 5.5E-06	U		¹⁰³ Ru	-1.1E-04 \pm 1.1E-04	U
	¹⁰⁶ Ru	1.2E-03 \pm 1.0E-03	U		¹⁰⁶ Ru	-2.8E-04 \pm 6.8E-04	U
	¹²⁵ Sb	2.0E-04 \pm 2.6E-04	U		¹²⁵ Sb	6.7E-05 \pm 1.8E-04	U
	¹¹³ Sn	-3.9E-05 \pm 1.4E-04	U		¹¹³ Sn	1.0E-04 \pm 1.0E-04	U
	²³⁴ U	4.4E-05 \pm 2.2E-05			²³⁴ U	4.2E-05 \pm 1.9E-05	
	²³⁵ U	2.9E-06 \pm 4.1E-06	U		²³⁵ U	5.0E-06 \pm 4.5E-06	
	²³⁸ U	3.4E-05 \pm 1.8E-05			²³⁸ U	4.0E-05 \pm 1.8E-05	
	⁶⁵ Zn	3.2E-04 \pm 3.6E-04	U		⁶⁵ Zn	-2.0E-05 \pm 2.0E-04	U
N487 (300-FF-1&2) Composite Period 06/24/03 to 09/30/03	¹⁴⁴ Ce	5.5E-04 \pm 1.2E-03	U	N527 (300-FF-1&2) Composite Period 01/07/03 to 06/24/03	¹⁴⁴ Ce	-4.0E-04 \pm 7.9E-04	U
	⁶⁰ Co	-4.0E-05 \pm 1.6E-04	U		⁶⁰ Co	-1.9E-05 \pm 9.5E-05	U
	¹³⁴ Cs	1.1E-04 \pm 1.5E-04	U		¹³⁴ Cs	-4.3E-05 \pm 8.7E-05	U
	¹³⁷ Cs	-1.4E-05 \pm 1.3E-04	U		¹³⁷ Cs	6.9E-05 \pm 7.9E-05	U
	¹⁵² Eu	-8.7E-05 \pm 2.6E-04	U		¹⁵² Eu	-3.6E-05 \pm 1.9E-04	U
	¹⁵⁴ Eu	3.8E-05 \pm 3.8E-04	U		¹⁵⁴ Eu	1.5E-04 \pm 2.7E-04	U
	¹⁵⁵ Eu	-1.1E-05 \pm 1.1E-04	U		¹⁵⁵ Eu	1.0E-04 \pm 1.8E-04	U
	¹⁰³ Ru	-5.1E-06 \pm 5.1E-05	U		¹⁰³ Ru	-5.8E-05 \pm 9.5E-05	U
	¹⁰⁶ Ru	5.8E-04 \pm 1.0E-03	U		¹⁰⁶ Ru	-5.8E-06 \pm 5.8E-05	U
	¹²⁵ Sb	-2.0E-04 \pm 2.9E-04	U		¹²⁵ Sb	-6.8E-05 \pm 1.8E-04	U
	¹¹³ Sn	-9.2E-05 \pm 1.3E-04	U		¹¹³ Sn	5.1E-05 \pm 8.6E-05	U
	²³⁴ U	6.9E-05 \pm 2.8E-05			²³⁴ U	6.9E-05 \pm 3.0E-05	
	²³⁵ U	7.1E-06 \pm 6.7E-06			²³⁵ U	5.1E-06 \pm 4.6E-06	
	²³⁸ U	4.2E-05 \pm 1.9E-05			²³⁸ U	5.8E-05 \pm 2.5E-05	
	⁶⁵ Zn	-1.9E-04 \pm 3.4E-04	U		⁶⁵ Zn	-4.3E-06 \pm 4.3E-05	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-3. Near-Facility Air Sampling Results, 2003 ($\text{pCi/m}^3 \pm$ total analytical uncertainty).
(cont)

Location	Isotope	Result ± Uncertainty	RQ*	Location	Isotope	Result ± Uncertainty	RQ*
N130 (300 TEDF)	^{144}Ce	-1.6E-04 ± 8.1E-04	U	N130 (300 TEDF)	^{144}Ce	1.4E-04 ± 6.4E-04	U
Composite Period	^{60}Co	-5.5E-05 ± 7.3E-05	U	Composite Period	^{60}Co	5.8E-05 ± 8.6E-05	U
01/07/03 to 06/24/03	^{134}Cs	7.5E-05 ± 8.5E-05	U	06/24/03 to 12/22/03	^{134}Cs	3.9E-06 ± 3.9E-05	U
	^{137}Cs	-5.5E-06 ± 5.6E-05	U		^{137}Cs	-1.8E-05 ± 7.3E-05	U
	^{152}Eu	-1.7E-04 ± 2.1E-04	U		^{152}Eu	4.4E-05 ± 1.7E-04	U
	^{154}Eu	2.4E-04 ± 2.6E-04	U		^{154}Eu	-8.6E-05 ± 2.5E-04	U
	^{155}Eu	-7.1E-05 ± 2.1E-04	U		^{155}Eu	-1.2E-04 ± 1.9E-04	U
	^{238}Pu	9.9E-06 ± 2.4E-05	U		^{238}Pu	1.6E-06 ± 1.2E-05	U
	$^{239/240}\text{Pu}$	4.1E-06 ± 8.3E-06	U		$^{239/240}\text{Pu}$	1.6E-06 ± 4.5E-06	U
	^{103}Ru	6.0E-05 ± 7.4E-05	U		^{103}Ru	-3.3E-05 ± 6.5E-05	U
	^{106}Ru	2.0E-04 ± 6.7E-04	U		^{106}Ru	4.6E-04 ± 6.6E-04	U
	^{125}Sb	-2.7E-05 ± 1.9E-04	U		^{125}Sb	-1.8E-06 ± 1.8E-05	U
	^{113}Sn	-2.8E-05 ± 8.8E-05	U		^{113}Sn	4.3E-05 ± 7.5E-05	U
	^{90}Sr	-2.6E-04 ± 2.7E-04	U		^{90}Sr	-7.0E-06 ± 6.5E-05	U
	^{234}U	1.5E-05 ± 8.9E-06			^{234}U	2.5E-05 ± 1.2E-05	
	^{235}U	2.4E-06 ± 3.0E-06			^{235}U	5.5E-06 ± 4.4E-06	
	^{238}U	6.6E-06 ± 5.5E-06			^{238}U	1.3E-05 ± 7.6E-06	
	^{65}Zn	1.4E-05 ± 1.4E-04	U		^{65}Zn	7.6E-05 ± 2.1E-04	U
N981 (WYE Barricade)	^{144}Ce	-2.3E-04 ± 5.7E-04	U	N981 (WYE Barricade)	^{144}Ce	-9.7E-05 ± 5.4E-04	U
Composite Period	^{60}Co	5.2E-06 ± 5.2E-05	U	Composite Period	^{60}Co	-1.6E-05 ± 7.5E-05	U
01/07/03 to 06/24/03	^{134}Cs	-4.8E-05 ± 6.7E-05	U	06/24/03 to 12/22/03	^{134}Cs	3.8E-05 ± 7.3E-05	U
	^{137}Cs	-1.6E-05 ± 6.7E-05	U		^{137}Cs	5.0E-05 ± 7.3E-05	U
	^{152}Eu	-1.9E-05 ± 1.5E-04	U		^{152}Eu	8.6E-06 ± 8.6E-05	U
	^{154}Eu	-1.2E-04 ± 2.0E-04	U		^{154}Eu	2.8E-04 ± 2.3E-04	U
	^{155}Eu	3.9E-05 ± 1.5E-04	U		^{155}Eu	-1.2E-04 ± 1.4E-04	U
	^{238}Pu	-5.6E-06 ± 1.6E-05	U		^{238}Pu	1.0E-05 ± 1.6E-05	U
	$^{239/240}\text{Pu}$	2.8E-06 ± 3.4E-06			$^{239/240}\text{Pu}$	3.7E-05 ± 1.9E-05	
	^{103}Ru	-6.2E-05 ± 7.1E-05	U		^{103}Ru	-6.2E-06 ± 6.2E-05	U
	^{106}Ru	-1.5E-04 ± 6.2E-04	U		^{106}Ru	-3.3E-05 ± 3.3E-04	U
	^{125}Sb	7.3E-05 ± 1.5E-04	U		^{125}Sb	-7.5E-05 ± 1.4E-04	U
	^{113}Sn	1.5E-05 ± 7.8E-05	U		^{113}Sn	-3.9E-05 ± 6.7E-05	U
	^{90}Sr	1.3E-04 ± 1.1E-04			^{90}Sr	2.9E-05 ± 1.2E-04	
	^{234}U	5.8E-06 ± 5.4E-06	U		^{234}U	1.1E-05 ± 7.1E-06	
	^{235}U	5.5E-06 ± 5.1E-06	U		^{235}U	2.6E-06 ± 3.9E-06	U
	^{238}U	5.8E-06 ± 4.6E-06			^{238}U	6.3E-06 ± 5.5E-06	
	^{65}Zn	-9.1E-05 ± 1.6E-04	U		^{65}Zn	2.2E-04 ± 1.8E-04	

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-4. Pacific Northwest National Laboratory Air Sampling Data, 2003
 (pCi/m³ ± total analytical uncertainty).

Sampler	Isotope	Result ± Uncertainty	RQ*	Sampler	Isotope	Result ± Uncertainty	RQ*
200 W SE	⁶⁰ Co	-3.1E-04 ± 6.9E-04	U	200 W SE	⁶⁰ Co	-2.6E-04 ± 5.5E-04	U
Composite Period	¹³⁴ Cs	-3.0E-04 ± 6.8E-04	U	Composite Period	¹³⁴ Cs	2.5E-04 ± 3.8E-04	U
12/31/02 - 04/08/03	¹³⁷ Cs	2.2E-04 ± 4.7E-04	U	04/08/03 - 06/30/03	¹³⁷ Cs	1.6E-04 ± 4.5E-04	U
	¹⁵² Eu	-4.2E-04 ± 1.3E-03	U		¹⁵² Eu	-1.4E-04 ± 1.1E-03	U
	¹⁵⁴ Eu	-4.8E-04 ± 1.8E-03	U		¹⁵⁴ Eu	-1.1E-03 ± 1.5E-03	U
	¹⁵⁵ Eu	3.7E-04 ± 9.3E-04	U		¹⁵⁵ Eu	-3.6E-05 ± 6.9E-04	U
	²³⁸ Pu	-5.1E-07 ± 1.5E-06	U		²³⁸ Pu	-5.9E-07 ± 2.5E-06	U
	^{239,240} Pu	2.0E-06 ± 2.2E-06	U		^{239,240} Pu	2.7E-06 ± 3.4E-06	U
	¹⁰⁶ Ru	-1.8E-03 ± 5.4E-03	U		¹⁰⁶ Ru	-7.9E-04 ± 3.9E-03	U
	¹²⁵ Sb	-8.3E-04 ± 1.2E-03	U		¹²⁵ Sb	4.1E-04 ± 1.1E-03	U
	⁹⁰ Sr	1.3E-04 ± 9.2E-05	U		⁹⁰ Sr	-4.5E-05 ± 1.1E-04	U
					²³⁴ U	1.5E-05 ± 8.3E-06	
					²³⁵ U	-4.5E-07 ± 2.1E-06	U
					²³⁸ U	2.7E-05 ± 1.1E-05	
200 W SE	⁶⁰ Co	1.4E-04 ± 6.4E-04	U	200 W SE	⁶⁰ Co	-5.0E-04 ± 8.3E-04	U
Composite Period	¹³⁴ Cs	2.3E-05 ± 6.7E-04	U	Composite Period	¹³⁴ Cs	3.8E-05 ± 7.7E-04	U
06/30/03 - 10/07/03	¹³⁷ Cs	8.5E-06 ± 6.1E-04	U	10/07/03 - 12/30/03	¹³⁷ Cs	3.2E-06 ± 5.7E-04	U
	¹⁵² Eu	4.9E-04 ± 1.6E-03	U		¹⁵² Eu	5.5E-04 ± 1.5E-03	U
	¹⁵⁴ Eu	1.3E-03 ± 1.9E-03	U		¹⁵⁴ Eu	7.0E-04 ± 1.5E-03	U
	¹⁵⁵ Eu	5.3E-04 ± 1.6E-03	U		¹⁵⁵ Eu	-6.8E-06 ± 9.4E-04	U
	²³⁸ Pu	5.0E-07 ± 1.6E-06	U		²³⁸ Pu	9.0E-07 ± 2.2E-06	U
	^{239,240} Pu	5.3E-06 ± 3.4E-06			^{239,240} Pu	2.0E-06 ± 3.3E-06	U
	¹⁰⁶ Ru	4.0E-03 ± 7.7E-03	U		¹⁰⁶ Ru	-3.3E-04 ± 6.3E-03	U
	¹²⁵ Sb	-2.5E-04 ± 1.3E-03	U		¹²⁵ Sb	-5.4E-04 ± 1.5E-03	U
	⁹⁰ Sr	2.1E-05 ± 4.3E-05	U		⁹⁰ Sr	8.3E-05 ± 5.5E-05	
	²³⁴ U	2.2E-05 ± 9.3E-06			²³⁴ U	4.5E-05 ± 1.6E-05	
	²³⁵ U	-4.4E-07 ± 2.5E-06	U		²³⁵ U	-2.1E-07 ± 4.3E-06	U
	²³⁸ U	2.7E-05 ± 1.0E-05			²³⁸ U	1.6E-04 ± 3.7E-05	
300 NE	⁶⁰ Co	1.5E-04 ± 6.3E-04	U	300 NE	⁶⁰ Co	4.7E-04 ± 6.4E-04	U
Composite Period	¹³⁴ Cs	-4.8E-05 ± 5.4E-04	U	Composite Period	¹³⁴ Cs	1.5E-04 ± 5.7E-04	U
01/08/03 - 04/02/03	¹³⁷ Cs	9.7E-05 ± 5.2E-04	U	04/02/03 - 07/10/03	¹³⁷ Cs	2.1E-04 ± 4.5E-04	U
	¹⁵² Eu	9.6E-04 ± 1.3E-03	U		¹⁵² Eu	-5.8E-04 ± 1.3E-03	U
	¹⁵⁴ Eu	8.7E-04 ± 1.4E-03	U		¹⁵⁴ Eu	-1.1E-03 ± 2.1E-03	U
	¹⁵⁵ Eu	-9.1E-04 ± 8.3E-04	U		¹⁵⁵ Eu	9.0E-04 ± 1.2E-03	U
	²³⁸ Pu	-3.3E-07 ± 1.1E-06	U		²³⁸ Pu	-8.0E-07 ± 1.1E-06	U
	^{239,240} Pu	6.2E-07 ± 1.1E-06	U		^{239,240} Pu	-6.2E-07 ± 1.1E-06	U
	¹⁰⁶ Ru	7.1E-04 ± 5.1E-03	U		¹⁰⁶ Ru	4.0E-03 ± 5.8E-03	U
	¹²⁵ Sb	1.1E-03 ± 1.7E-03	U		¹²⁵ Sb	1.8E-03 ± 1.5E-03	U
	⁹⁰ Sr	2.5E-05 ± 5.7E-05	U		⁹⁰ Sr	-9.1E-06 ± 5.2E-05	U
	²³⁴ U	4.1E-05 ± 1.7E-05			²³⁴ U	2.1E-05 ± 1.5E-05	
	²³⁵ U	1.1E-06 ± 5.5E-06	U		²³⁵ U	4.0E-06 ± 8.0E-06	U
	²³⁸ U	1.5E-05 ± 1.2E-05			²³⁸ U	2.7E-05 ± 1.8E-05	

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-4. Pacific Northwest National Laboratory Air Sampling Data, 2003
 (pCi/m³ ± total analytical uncertainty). (cont)

Sampler	Isotope	Result ± Uncertainty	RQ*
300 NE	⁶⁰ Co	7.3E-04 ± 9.5E-04	U
Composite Period	¹³⁴ Cs	2.5E-04 ± 6.2E-04	U
07/10/03 - 09/30/03	¹³⁷ Cs	-1.5E-04 ± 7.2E-04	U
	¹⁵² Eu	5.8E-04 ± 1.6E-03	U
	¹⁵⁴ Eu	1.1E-03 ± 1.3E-03	U
	¹⁵⁵ Eu	-6.4E-04 ± 8.8E-04	U
	²³⁸ Pu	5.3E-07 ± 1.0E-06	U
	^{239,240} Pu	1.7E-07 ± 6.0E-07	U
	¹⁰⁶ Ru	-1.3E-03 ± 6.6E-03	U
	¹²⁵ Sb	-1.4E-03 ± 1.4E-03	U
	⁹⁰ Sr	2.6E-05 ± 2.9E-05	U
	²³⁴ U	6.0E-05 ± 1.8E-05	
	²³⁵ U	1.3E-06 ± 3.3E-06	U
	²³⁸ U	3.9E-05 ± 1.4E-05	

300 NE			
Sample Period			
12/26/02 - 01/22/03	³ H	8.0E+00 ± 1.4E+00	
02/19/03 - 03/20/03	³ H	7.3E+00 ± 1.5E+00	
03/20/03 - 04/15/03	³ H	6.0E+00 ± 1.2E+00	
04/15/03 - 05/13/03	³ H	7.0E+00 ± 1.3E+00	
05/13/03 - 06/12/03	³ H	8.2E+00 ± 1.6E+00	
06/12/03 - 07/10/03	³ H	1.2E+01 ± 1.2E+00	
300 TRENCH			
Composite Period	⁶⁰ Co	-1.2E-04 ± 7.0E-04	U
01/08/03 - 04/02/03	¹³⁴ Cs	8.3E-04 ± 7.5E-04	U
	¹³⁷ Cs	2.3E-04 ± 5.6E-04	U
	¹⁵² Eu	-3.9E-04 ± 1.2E-03	U
	¹⁵⁴ Eu	-1.1E-03 ± 2.0E-03	U
	¹⁵⁵ Eu	6.0E-04 ± 1.0E-03	U
	¹⁰⁶ Ru	-3.3E-03 ± 5.1E-03	U
	¹²⁵ Sb	-5.8E-04 ± 1.5E-03	U
	²³⁴ U	1.5E-05 ± 1.3E-05	U
	²³⁵ U	4.7E-06 ± 5.1E-06	U
	²³⁸ U	1.9E-05 ± 1.5E-05	U
300 TRENCH			
Composite Period	⁶⁰ Co	1.6E-04 ± 8.6E-04	U
07/10/03 - 09/30/03	¹³⁴ Cs	-4.5E-04 ± 6.2E-04	U
	¹³⁷ Cs	-2.4E-04 ± 5.9E-04	U
	¹⁵² Eu	1.2E-03 ± 1.8E-03	U
	¹⁵⁴ Eu	1.6E-03 ± 2.9E-03	U
	¹⁵⁵ Eu	-3.5E-04 ± 1.1E-03	U
	¹⁰⁶ Ru	5.5E-04 ± 6.7E-03	U
	¹²⁵ Sb	-2.4E-04 ± 1.7E-03	U
	²³⁴ U	6.2E-05 ± 2.0E-05	
	²³⁵ U	7.7E-07 ± 3.2E-06	U
	²³⁸ U	4.2E-05 ± 1.6E-05	

Sampler	Isotope	Result ± Uncertainty	RQ*
300 NE	⁶⁰ Co	6.0E-04 ± 7.5E-04	U
Composite Period	¹³⁴ Cs	7.8E-05 ± 5.3E-04	U
09/30/03 - 01/08/04	¹³⁷ Cs	-1.9E-04 ± 5.3E-04	U
	¹⁵² Eu	-3.3E-04 ± 1.4E-03	U
	¹⁵⁴ Eu	8.8E-05 ± 1.7E-03	U
	¹⁵⁵ Eu	8.9E-04 ± 9.8E-04	U
	²³⁸ Pu	1.6E-07 ± 9.5E-07	U
	^{239,240} Pu	1.7E-06 ± 1.8E-06	U
	¹⁰⁶ Ru	-2.6E-03 ± 6.4E-03	U
	¹²⁵ Sb	-5.5E-04 ± 1.2E-03	U
	⁹⁰ Sr	5.9E-05 ± 3.4E-05	
	²³⁴ U	1.2E-04 ± 3.1E-05	
	²³⁵ U	3.7E-06 ± 7.0E-06	U
	²³⁸ U	1.0E-04 ± 2.8E-05	

300 NE			
Sample Period			
07/10/03 - 08/08/03	³ H	8.5E+00 ± 1.7E+00	
08/08/03 - 09/03/03	³ H	1.2E+01 ± 2.1E+00	
09/03/03 - 09/30/03	³ H	9.0E+00 ± 1.1E+00	
09/30/03 - 10/29/03	³ H	1.4E+01 ± 2.3E+00	
10/29/03 - 11/25/03	³ H	3.8E+00 ± 7.4E-01	
11/25/03 - 12/23/03	³ H	1.1E+01 ± 1.8E+00	
300 TRENCH			
Composite Period	⁶⁰ Co	-2.8E-04 ± 6.9E-04	U
04/02/03 - 07/10/03	¹³⁴ Cs	-1.9E-04 ± 6.5E-04	U
	¹³⁷ Cs	-1.6E-04 ± 5.0E-04	U
	¹⁵² Eu	-3.3E-04 ± 1.3E-03	U
	¹⁵⁴ Eu	1.4E-03 ± 1.8E-03	U
	¹⁵⁵ Eu	2.8E-04 ± 8.7E-04	U
	¹⁰⁶ Ru	-8.7E-04 ± 5.1E-03	U
	¹²⁵ Sb	-2.6E-04 ± 1.3E-03	U
	²³⁴ U	2.1E-05 ± 1.2E-05	
	²³⁵ U	-4.3E-07 ± 4.8E-06	U
	²³⁸ U	4.3E-05 ± 1.5E-05	
300 TRENCH			
Composite Period	²³⁴ U	1.0E-04 ± 3.0E-05	
09/30/03 - 01/08/04	²³⁵ U	8.9E-05 ± 2.8E-05	

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.

Table 2-4. Pacific Northwest National Laboratory Air Sampling Data, 2003
 (pCi/m³ ± total analytical uncertainty). (cont)

Sampler	Isotope	Result ± Uncertainty RQ*
300 TRENCH		
Sample Period		
12/26/02 - 01/22/03	³ H	3.8E+00 ± 9.1E-01
01/22/03 - 02/19/03	³ H	9.7E+00 ± 1.8E+00
02/19/03 - 03/20/03	³ H	5.2E+00 ± 1.1E+00
03/20/03 - 04/15/03	³ H	4.7E+00 ± 1.0E+00
04/15/03 - 05/13/03	³ H	7.3E+00 ± 1.4E+00
05/13/03 - 06/12/03	³ H	8.0E+00 ± 1.5E+00

Sampler	Isotope	Result ± Uncertainty RQ*
300 WATER INTAKE		
Sample Period		
12/26/02 - 01/22/03	³ H	1.2E+01 ± 2.3E+00
01/22/03 - 02/19/03	³ H	6.9E+00 ± 1.4E+00
02/19/03 - 03/20/03	³ H	2.8E+00 ± 8.2E-01
03/20/03 - 04/15/03	³ H	9.4E+00 ± 1.6E+00
04/15/03 - 05/13/03	³ H	1.1E+01 ± 1.8E+00
05/13/03 - 06/12/03	³ H	9.0E+00 ± 1.7E+00

Yakima Barricade	Isotope	Result ± Uncertainty RQ*
Composite Period		
01/08/03 - 04/02/03		
⁶⁰ Co	2.3E-04 ± 3.2E-04	U
¹³⁴ Cs	-1.6E-04 ± 3.2E-04	U
¹³⁷ Cs	1.8E-04 ± 3.3E-04	U
¹⁵² Eu	5.7E-04 ± 6.4E-04	U
¹⁵⁴ Eu	5.1E-05 ± 1.0E-03	U
¹⁵⁵ Eu	-2.7E-05 ± 6.0E-04	U
²³⁸ Pu	-4.3E-07 ± 5.6E-07	U
^{239,240} Pu	7.0E-07 ± 9.0E-07	U
¹⁰⁶ Ru	-1.5E-04 ± 2.9E-03	U
¹²⁵ Sb	-1.3E-08 ± 8.5E-04	U
⁹⁰ Sr	2.5E-05 ± 2.9E-05	U

Yakima Barricade	Isotope	Result ± Uncertainty RQ*
Composite Period		
07/01/03 - 10/03/03		
⁶⁰ Co	7.8E-05 ± 3.3E-04	U
¹³⁴ Cs	-5.1E-05 ± 4.3E-04	U
¹³⁷ Cs	-2.4E-04 ± 4.3E-04	U
¹⁵² Eu	-1.1E-03 ± 1.2E-03	U
¹⁵⁴ Eu	-1.0E-03 ± 1.3E-03	U
¹⁵⁵ Eu	1.6E-05 ± 9.3E-04	U
²³⁸ Pu	2.5E-08 ± 4.7E-07	U
^{239,240} Pu	1.4E-07 ± 4.3E-07	U
¹⁰⁶ Ru	-1.3E-03 ± 3.9E-03	U
¹²⁵ Sb	-5.3E-04 ± 1.1E-03	U

Sampler	Isotope	Result ± Uncertainty RQ*
300 TRENCH		
Sample Period		
06/12/03 - 07/10/03	³ H	5.5E+00 ± 7.8E-01
07/10/03 - 08/08/03	³ H	8.8E+00 ± 1.7E+00
08/08/03 - 09/03/03	³ H	1.0E+01 ± 1.9E+00
09/03/03 - 09/30/03	³ H	6.8E+00 ± 9.2E-01
10/28/03 - 11/25/03	³ H	2.5E+00 ± 6.3E-01
11/25/03 - 12/23/03	³ H	3.8E+00 ± 8.5E-01

Sampler	Isotope	Result ± Uncertainty RQ*
300 WATER INTAKE		
Sample Period		
06/12/03 - 07/10/03	³ H	8.4E+00 ± 9.5E-01
08/08/03 - 09/03/03	³ H	1.7E+01 ± 3.2E+00
09/03/03 - 09/30/03	³ H	5.5E+00 ± 8.5E-01
09/30/03 - 10/29/03	³ H	1.0E+01 ± 1.9E+00
10/29/03 - 11/25/03	³ H	5.0E+00 ± 9.4E-01
11/25/03 - 12/23/03	³ H	6.0E+00 ± 1.1E+00

Yakima Barricade	Isotope	Result ± Uncertainty RQ*
Composite Period		
04/02/03 - 07/11/03		
⁶⁰ Co	2.0E-04 ± 3.0E-04	U
¹³⁴ Cs	-9.5E-05 ± 3.1E-04	U
¹³⁷ Cs	-2.1E-04 ± 2.4E-04	U
¹⁵² Eu	-1.7E-04 ± 6.7E-04	U
¹⁵⁴ Eu	2.7E-04 ± 7.8E-04	U
¹⁵⁵ Eu	-3.1E-04 ± 5.4E-04	U
²³⁸ Pu	2.3E-07 ± 7.8E-07	U
^{239,240} Pu	5.2E-07 ± 6.7E-07	U
¹⁰⁶ Ru	-1.4E-03 ± 2.4E-03	U
¹²⁵ Sb	-1.3E-04 ± 6.2E-04	U
⁹⁰ Sr	-1.4E-05 ± 3.4E-05	U

Yakima Barricade	Isotope	Result ± Uncertainty RQ*
Composite Period		
10/03/03 - 01/09/04		
⁶⁰ Co	-3.9E-05 ± 4.0E-04	U
¹³⁴ Cs	1.6E-04 ± 2.9E-04	U
¹³⁷ Cs	-2.2E-04 ± 2.5E-04	U
¹⁵² Eu	-2.0E-04 ± 6.9E-04	U
¹⁵⁴ Eu	1.3E-03 ± 1.0E-03	U
¹⁵⁵ Eu	2.1E-04 ± 5.9E-04	U
²³⁸ Pu	0.0E+00 ± 6.3E-07	U
^{239,240} Pu	0.0E+00 ± 6.2E-07	U
¹⁰⁶ Ru	-6.6E-04 ± 3.0E-03	U
¹²⁵ Sb	2.0E-04 ± 7.9E-04	U

RQ = Result Qualifier. U = The analyte was analyzed for but not detected.