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.

A network of continuously operating samplers at 87 near-facility monitoring locations (Table 2-1) sampled radioactivity in air during 2004. Data from several PNNL ambient air monitoring stations were utilized in 2004 to provide additional air monitoring information for several ERC remediation projects. The ERC projects and the associated PNNL stations are listed in Table 2-2.

Near-facility air monitoring location maps are provided in Figures 2-1 through 2-12. Historical air sampling results for the 100-K, 100-N, 200 and 300 Areas are represented in graph form in Figures 2-13 through 2-24.

A summary of near-facility ambient air sampling results for selected radionuclides collected during 2004 is presented in Table 2-3. The 2004 composited, sampler-specific monitoring results are provided in Table 2-4. The 2004 air monitoring results from the PNNL ambient air monitoring locations used as supplemental data for ERC projects can be found in Table 2-5. Additional discussion of the 2004 air sampling results can be found in Section 8.2 of PNNL-15222.

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

Near-facility environmental air samplers operate at a flow rate of 0.057 m^3/min (2 ft^3/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 (DCG), 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, 2004.

Site	Number of Samplers	EDP Code [a]	Analyses	
			Bi-weekly	Composite [b]
100-B/C Remedial Action project[c]	5	N464, N465, N466, N496, N497	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-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[d], 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[c]	6	N528, N529, N530, N403[e], N404[e], N477[e]	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
100-NR-1 Remedial Action project[c] and 100-N Surveillance, Maintenance/Transition project	4	N102, N103, 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[d], 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
224-B Demolition project (200 East Area)	3	N541, N542, N543	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
Integrated Disposal Facility (200 East Area)	1	N532	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
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
233-S Demolition project (200 West Area)	3	N441, N442, N963	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
U-Ancillary Decontamination & Demolition project (200 West Area)	2	N550, N551	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
300-FF-2 Remedial Action project[c] (300 Area)	10	N130, N527, N537, N538 N539, N540, N546, N547, N548 N549	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
Environmental Restoration Disposal Facility[c]	3	N482[d], N517, N518,	Gross α, β	GEA, Sr-90, Pu-iso, U-iso
600 Area	1	N981[f]	Gross α, β	GEA, Sr-90, Pu-iso, U-iso

[a]EDP Code = Sampler location code.

[b]GEA = Gamma energy analysis; Pu-iso = isotopic plutonium-238 and plutonium-239/240; U-iso = isotopic uranium-234, uranium-235, and uranium-238.

[c]PNNL air sampling station(s) provide supplemental air monitoring data. See Table 2-2 for a listing of locations.

[d]Collocated sampling location with Washington State Department of Health.

[e]Data from these three 100-K Spent Nuclear Fuel air samplers was used to provide additional air monitoring for the 100-KR-1 project.

[f]Collocated sampling location with Washington State Department of Health and PNNL.

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

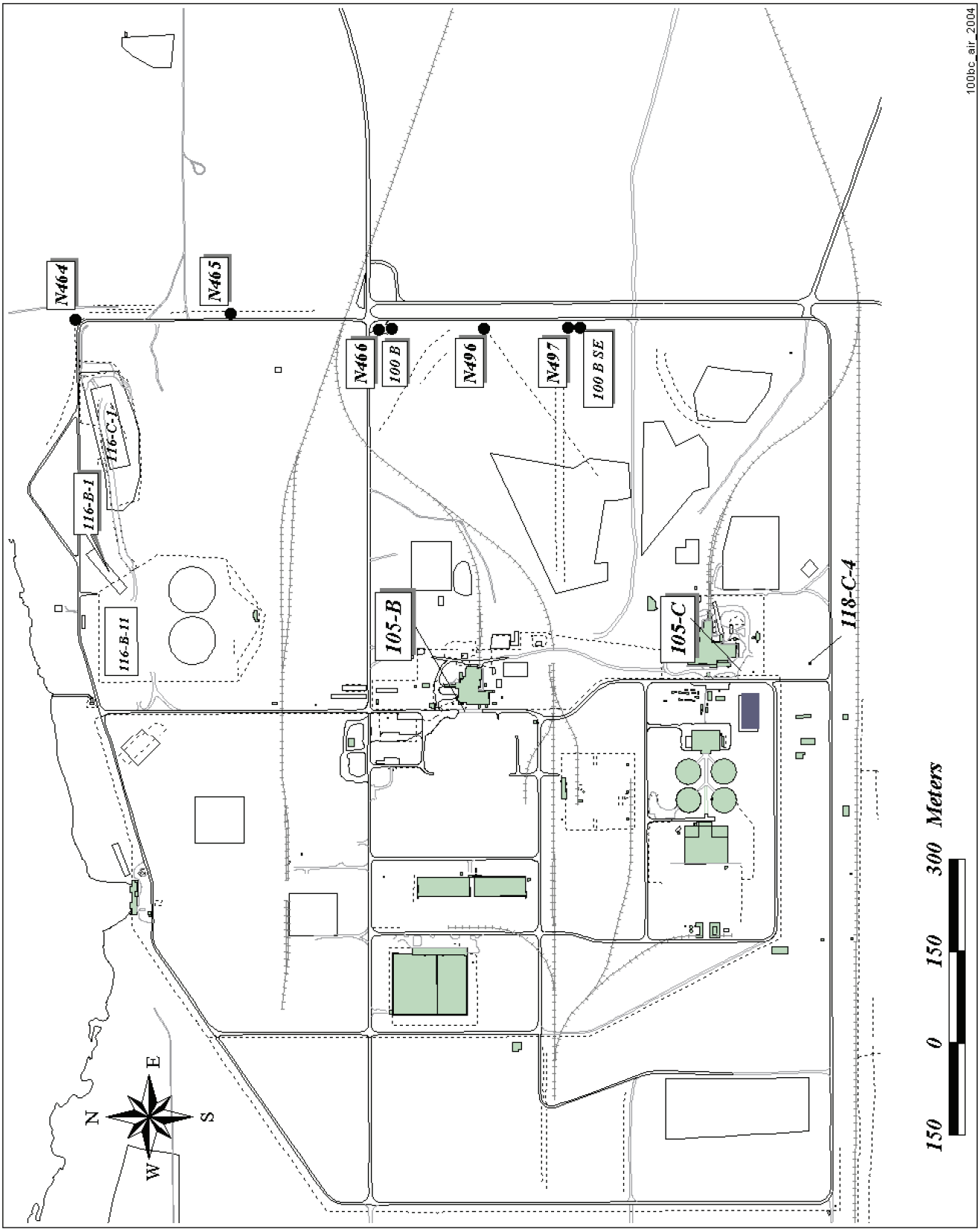

Figure 2-2. 100-D/DR Area Air Sampler Locations.

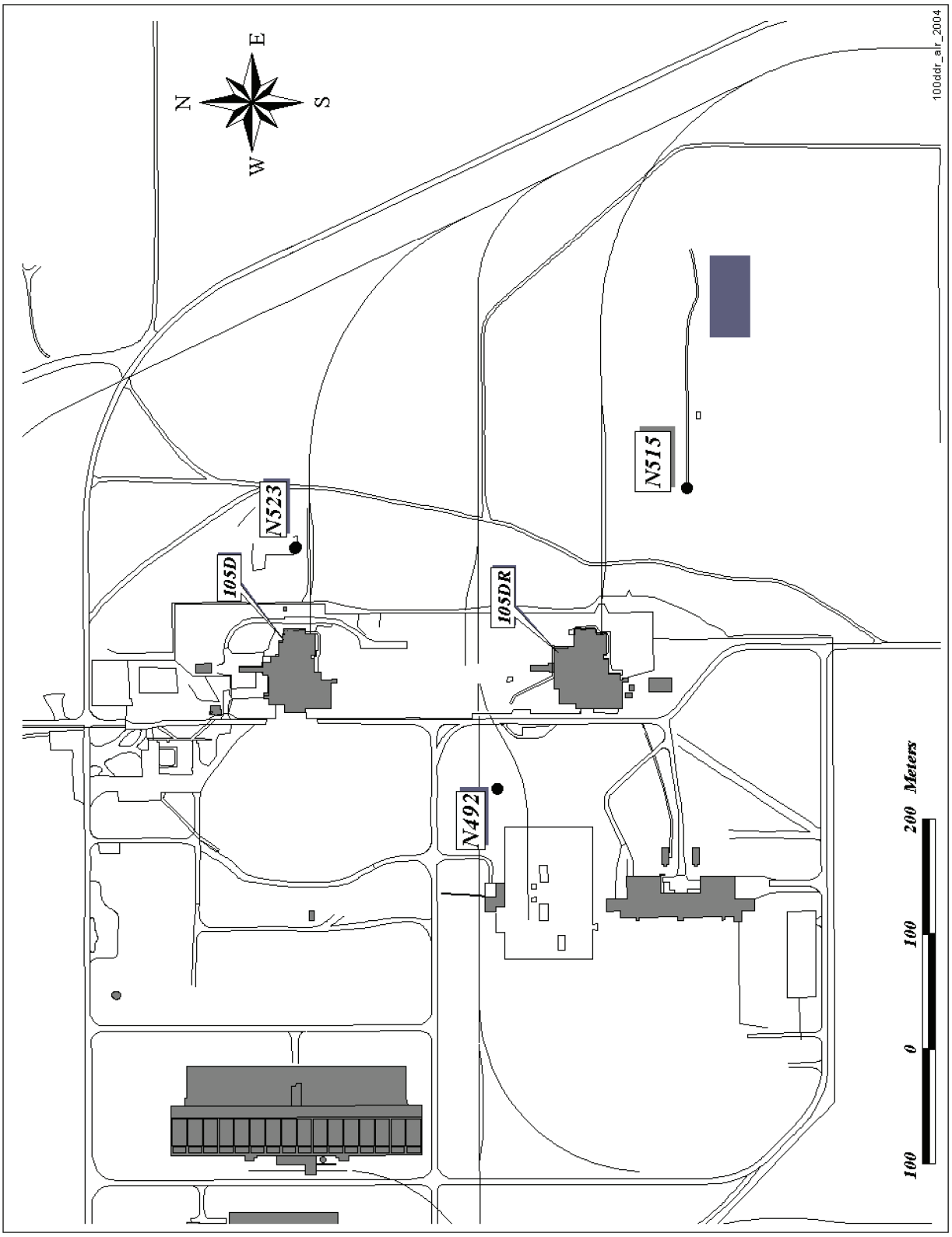

Figure 2-3. 100-F Area Air Sampler Locations.

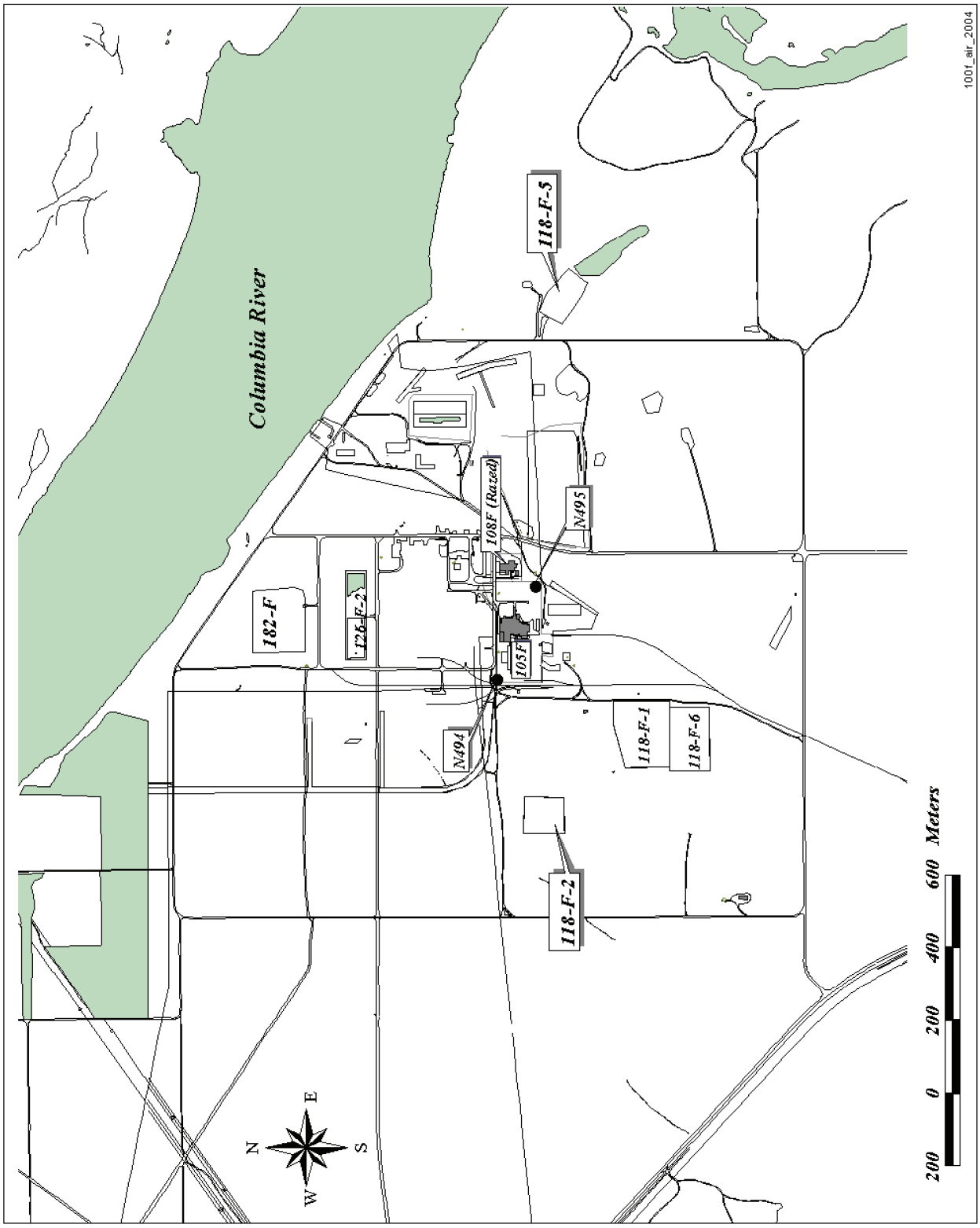

Figure 2-4. 100-H Area Air Sampler Locations.

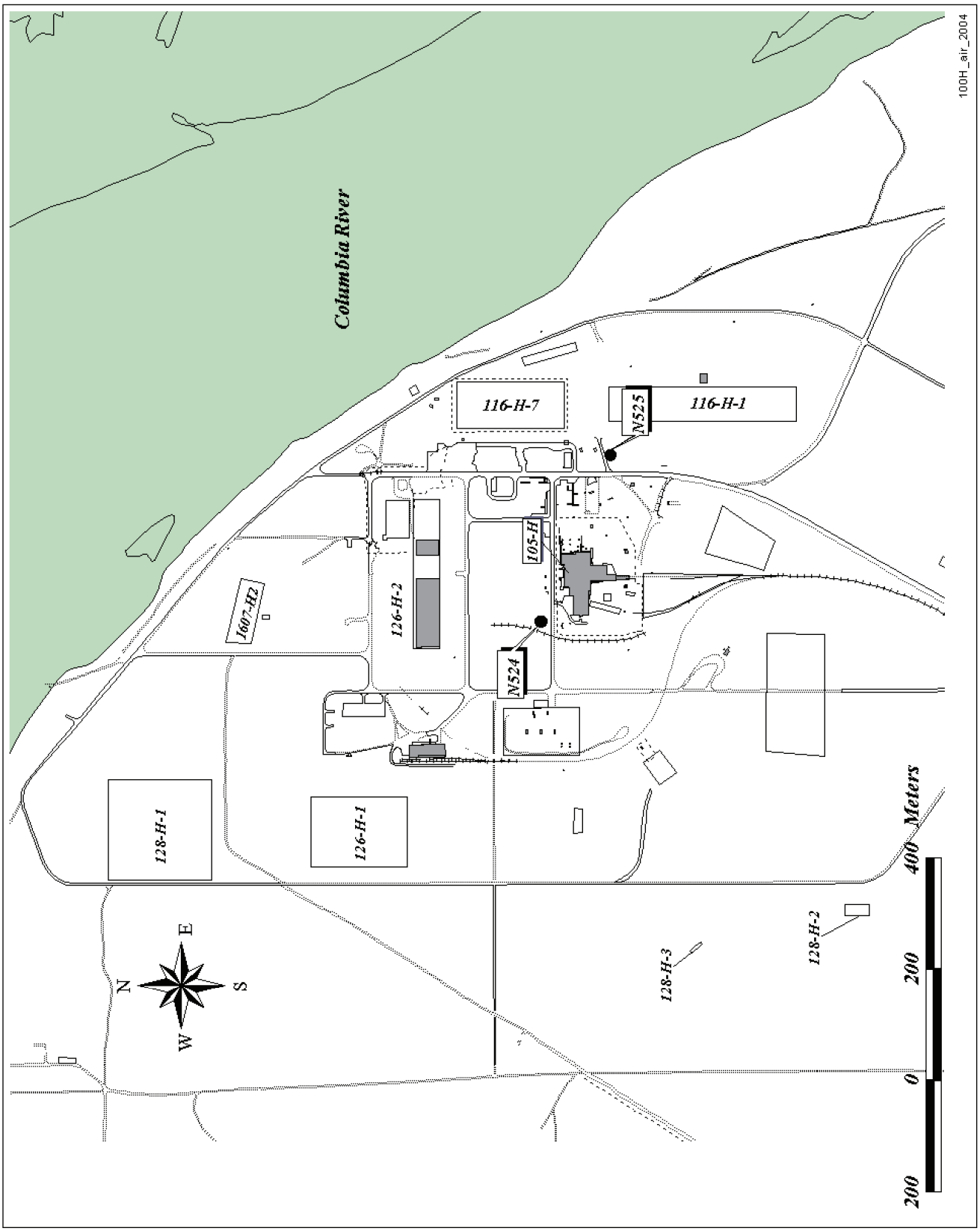

Figure 2-5. 100-K Area Air Sampler Locations.

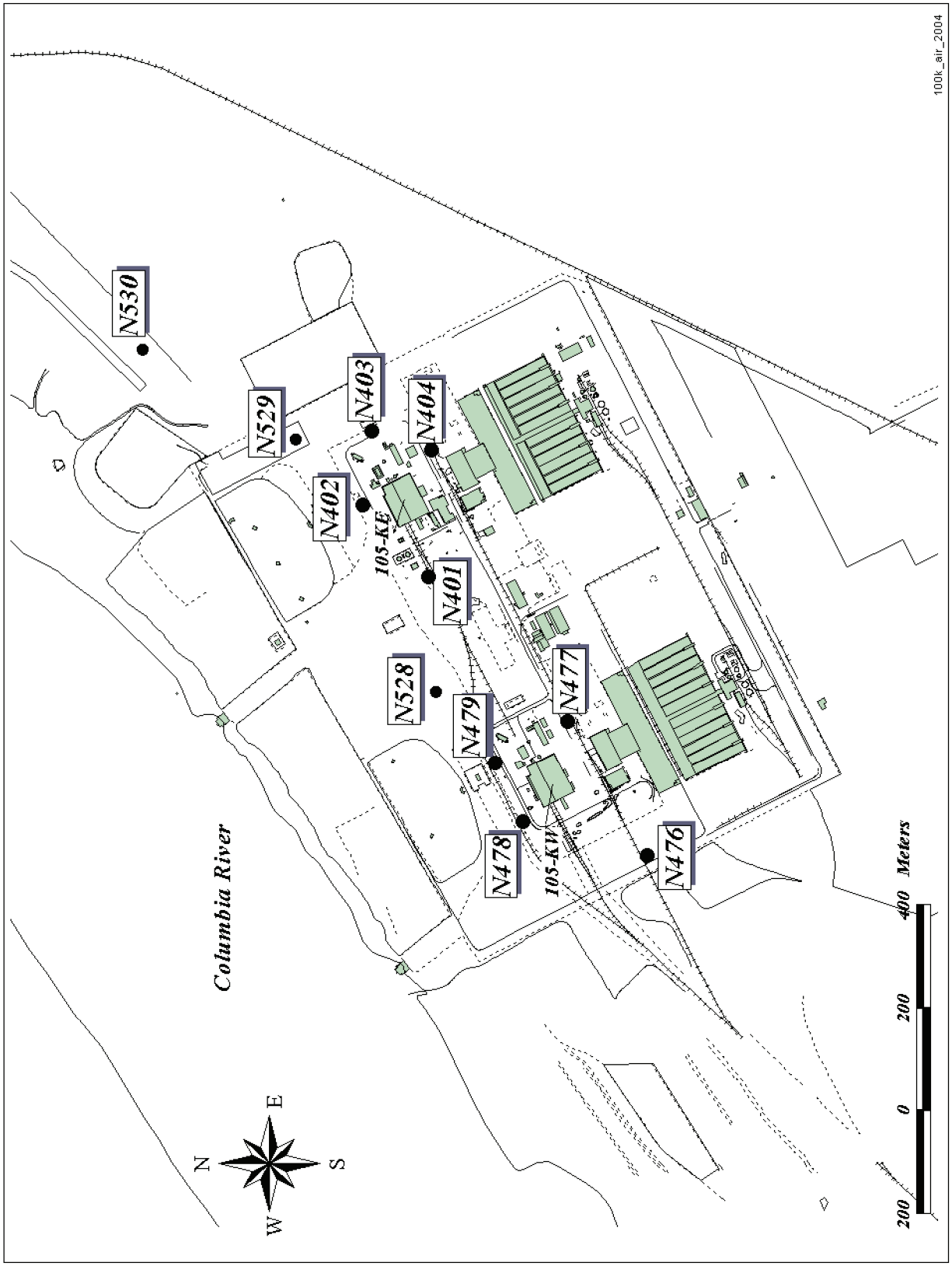

Figure 2-6. 100-N Area Air Sampler Locations.

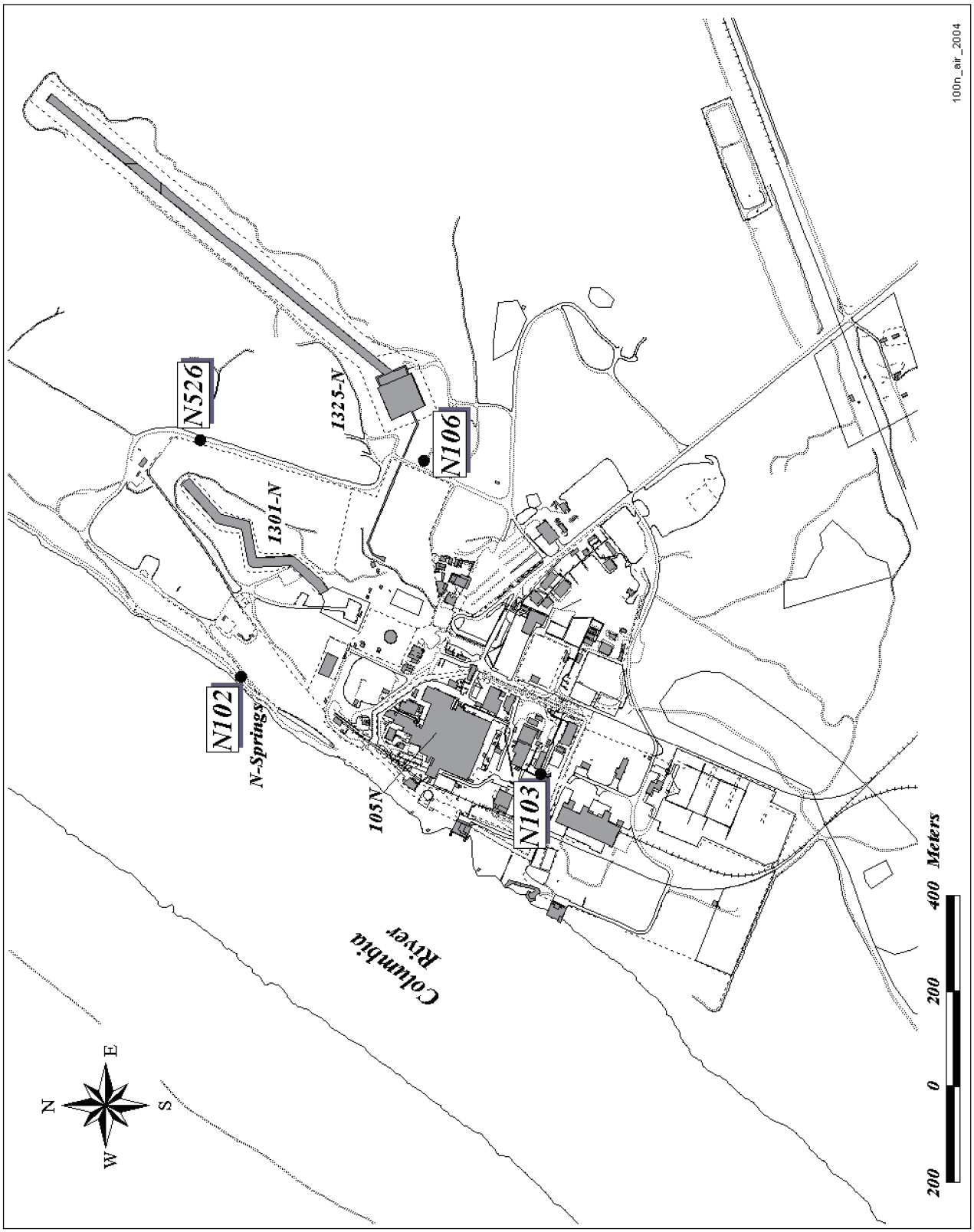

Figure 2-7. 200 East Area Air Sampler Locations.

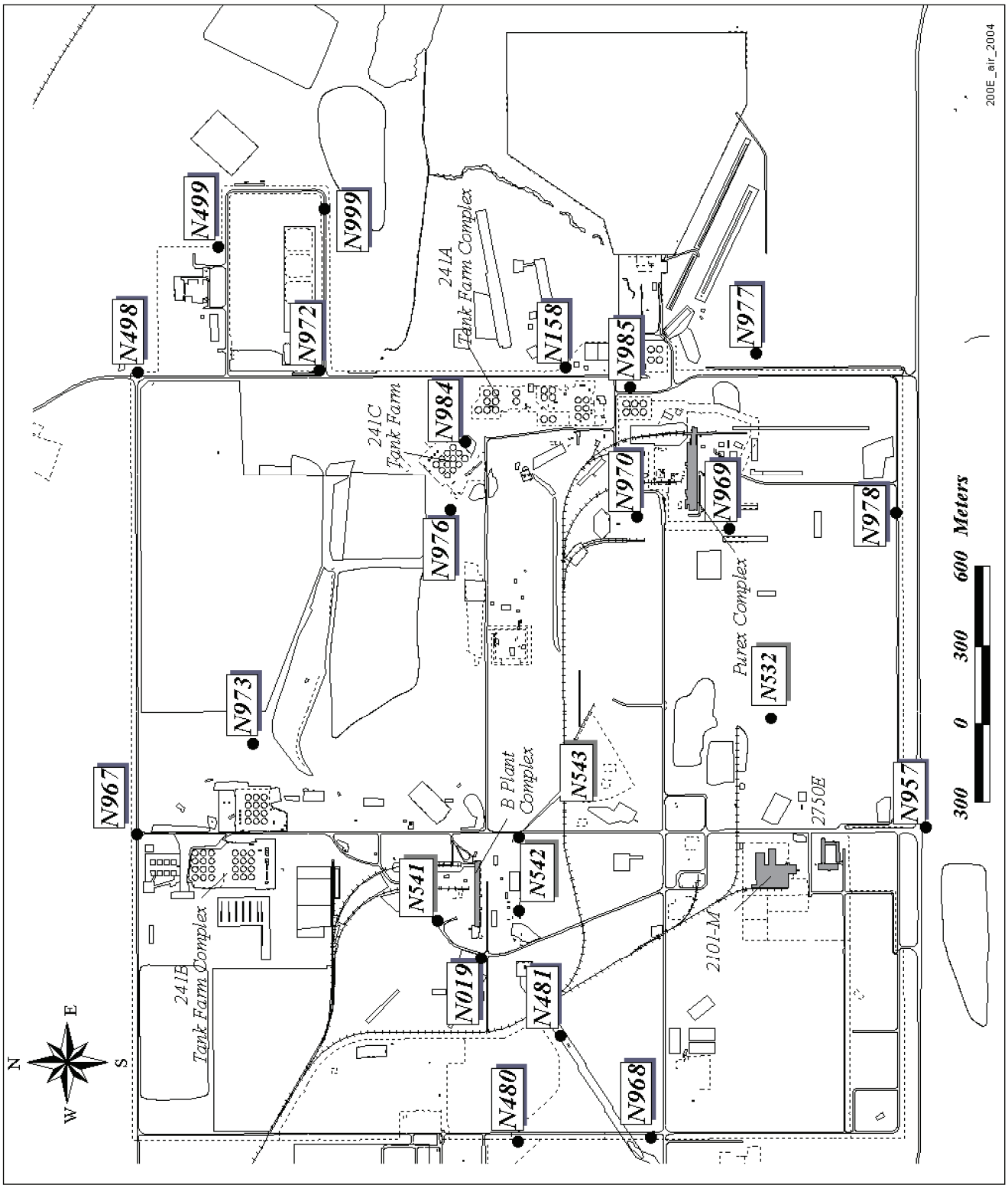

Figure 2-8. 200 West Area Air Sampler Locations.

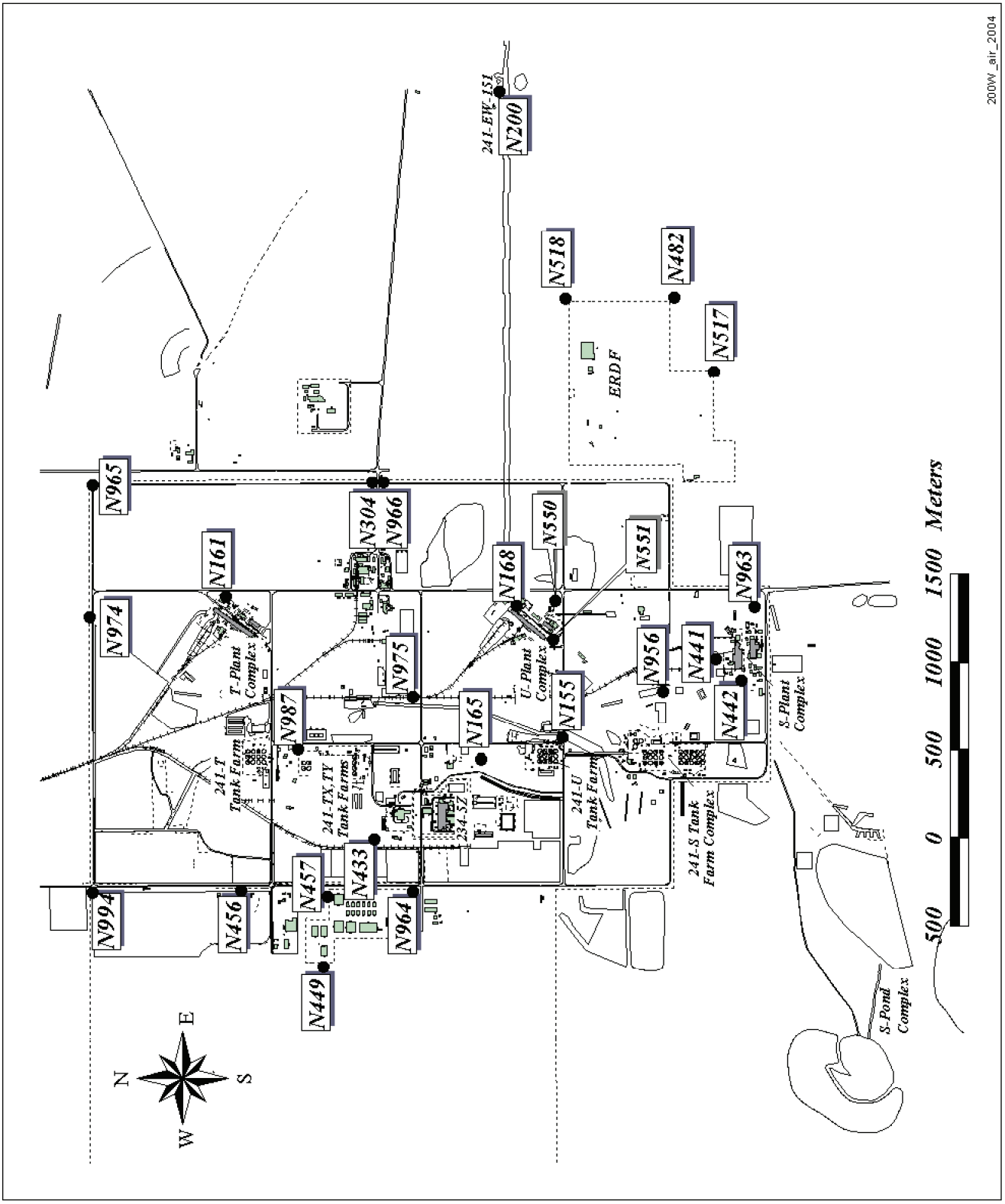

Figure 2-9. 300 Area Air Sampler Locations.

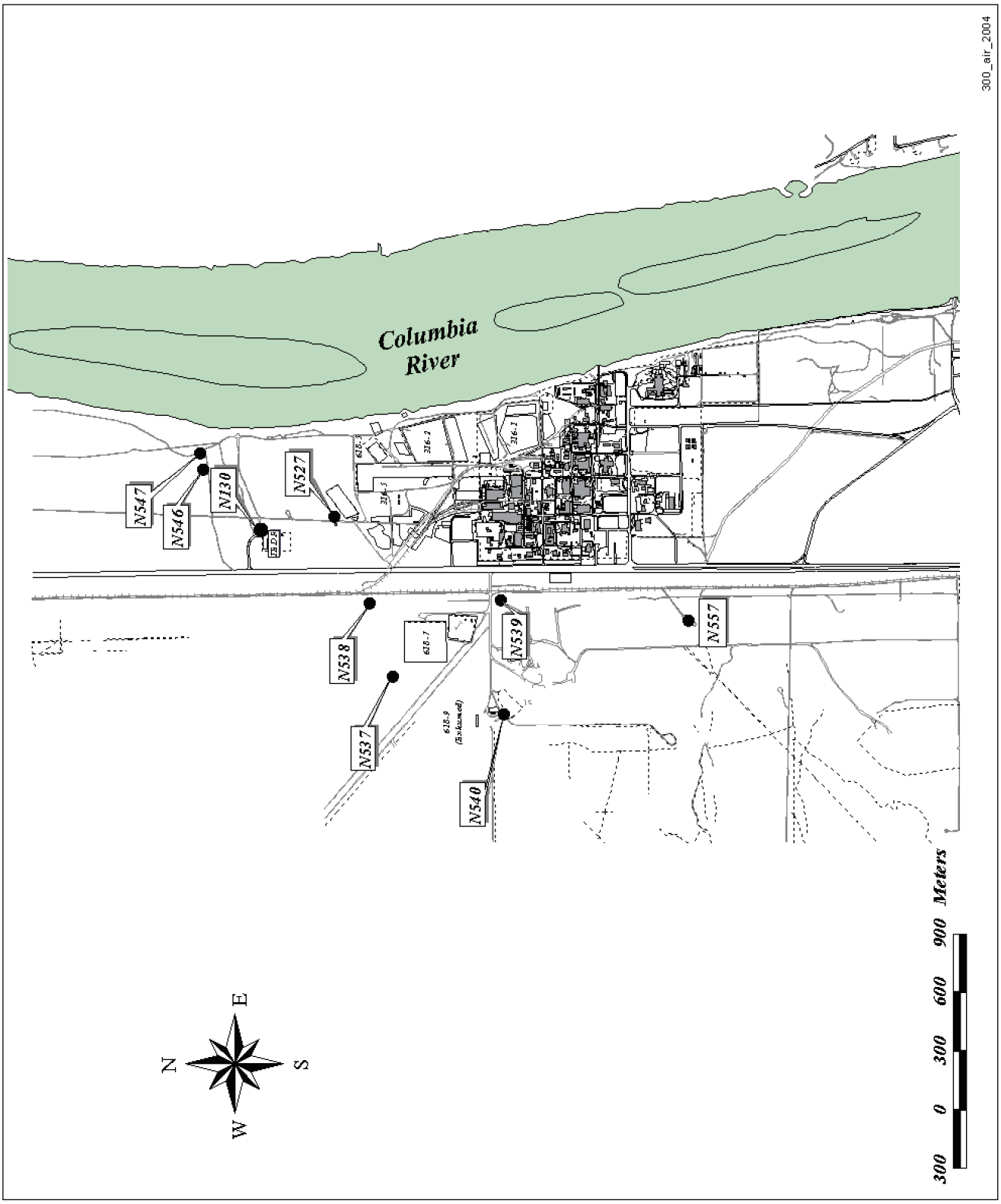

Figure 2-10. 300 Area (North) Air Sampler Locations.

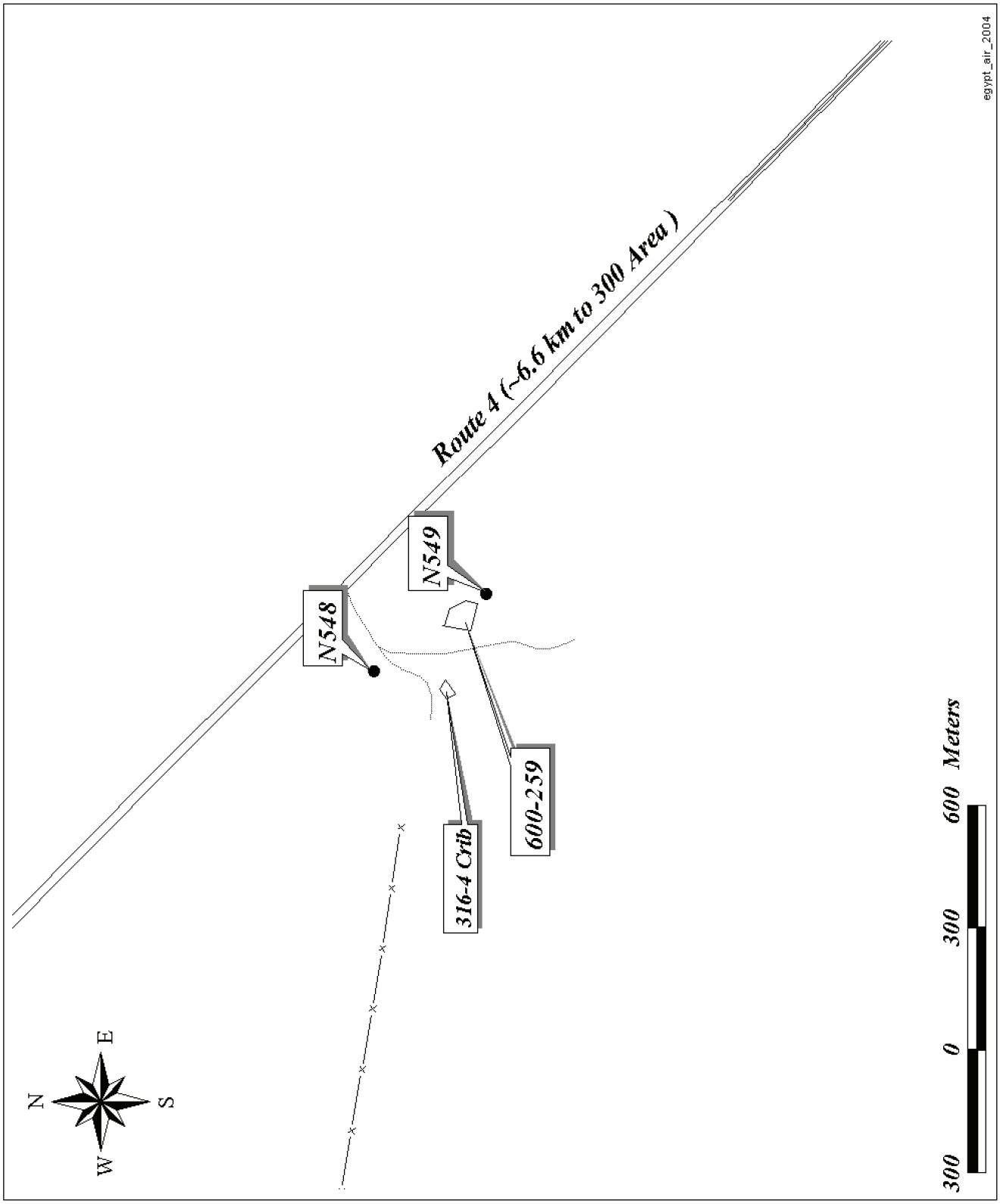

Figure 2-11. Environmental Restoration Disposal Facility Air Sampler Locations.

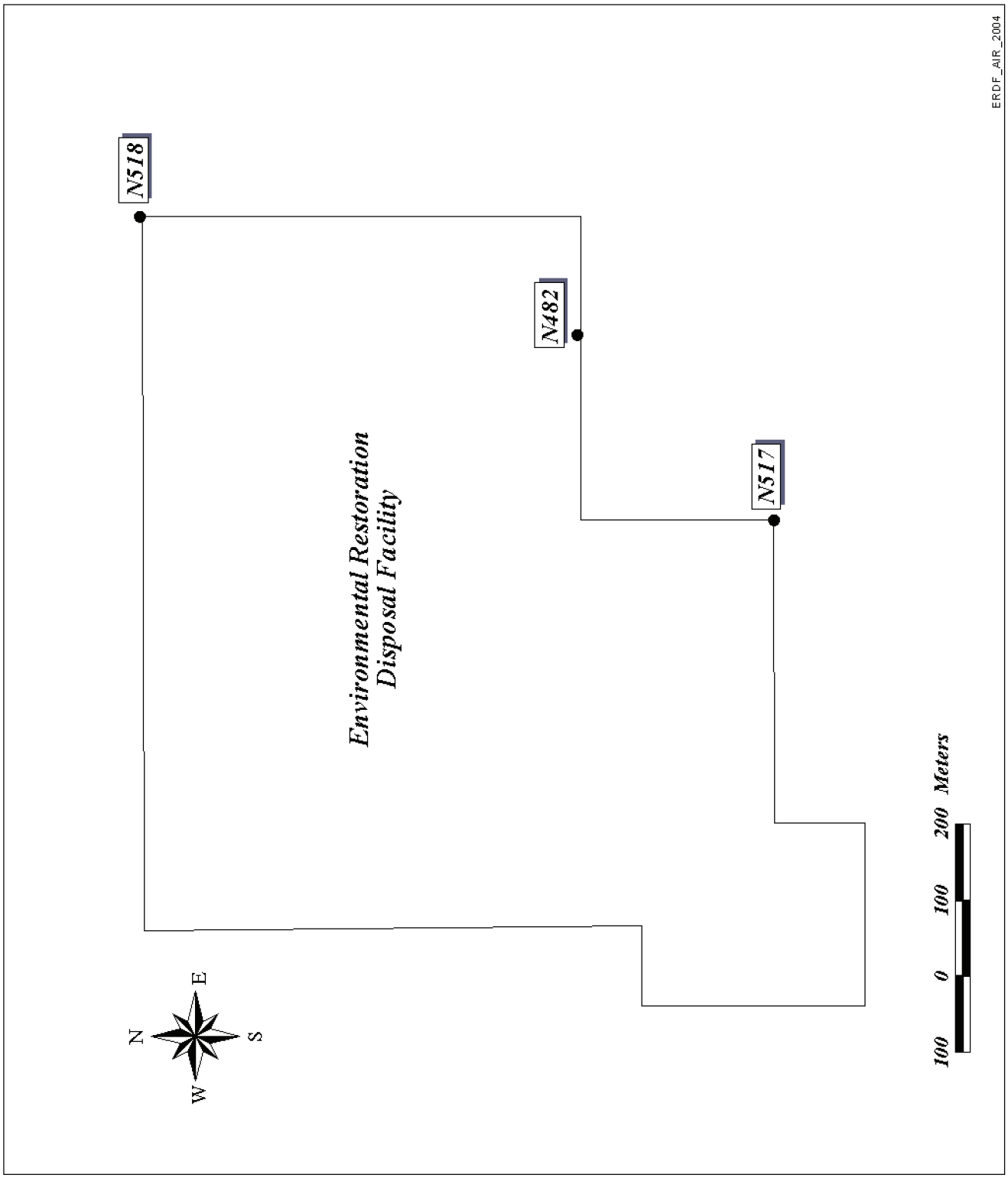

Figure 2-12. 600 Area Air Sampler Location.

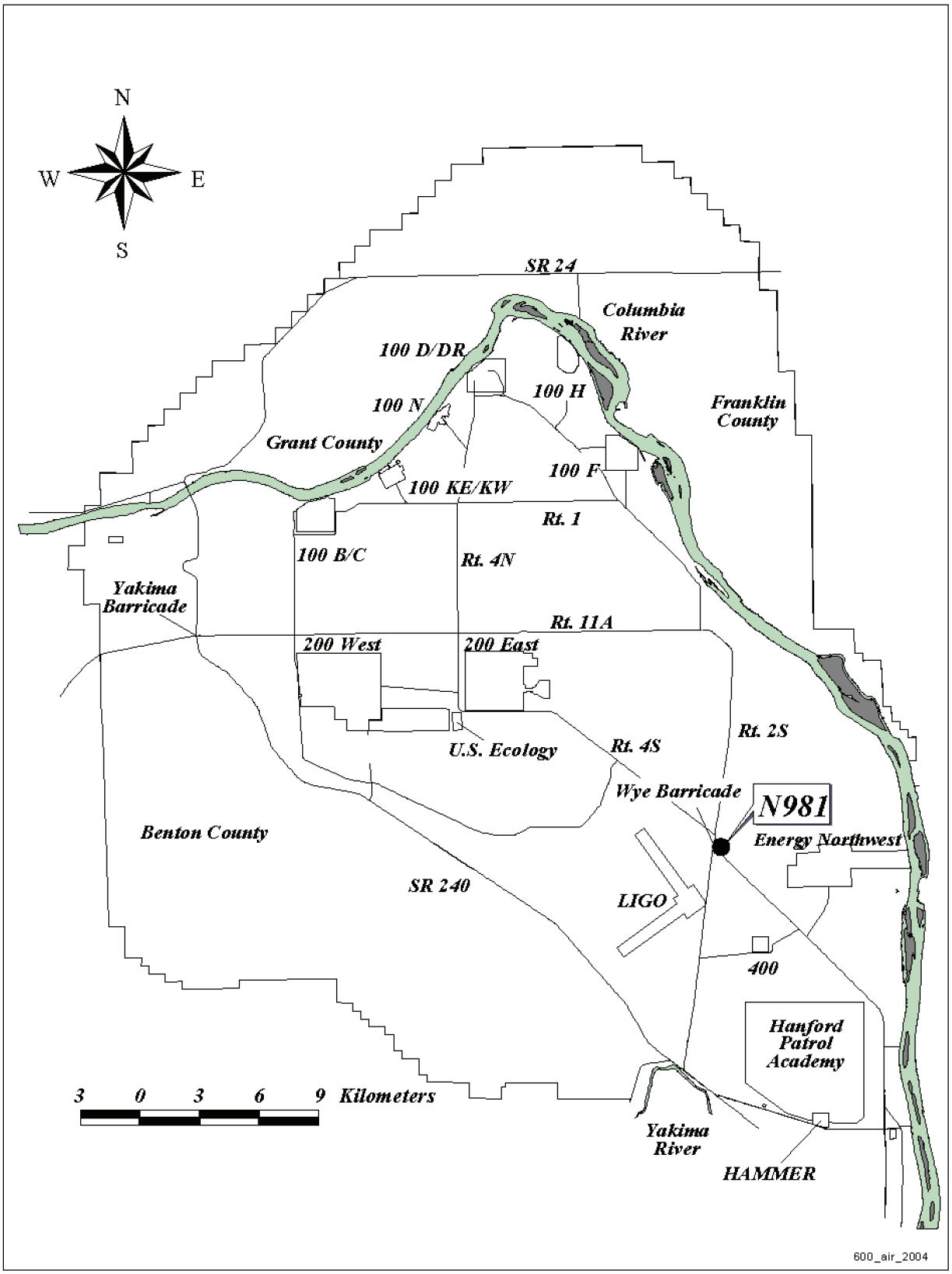

Figure 2-13. Annual Average Strontium-90 Concentrations in Air, 100-K Area.

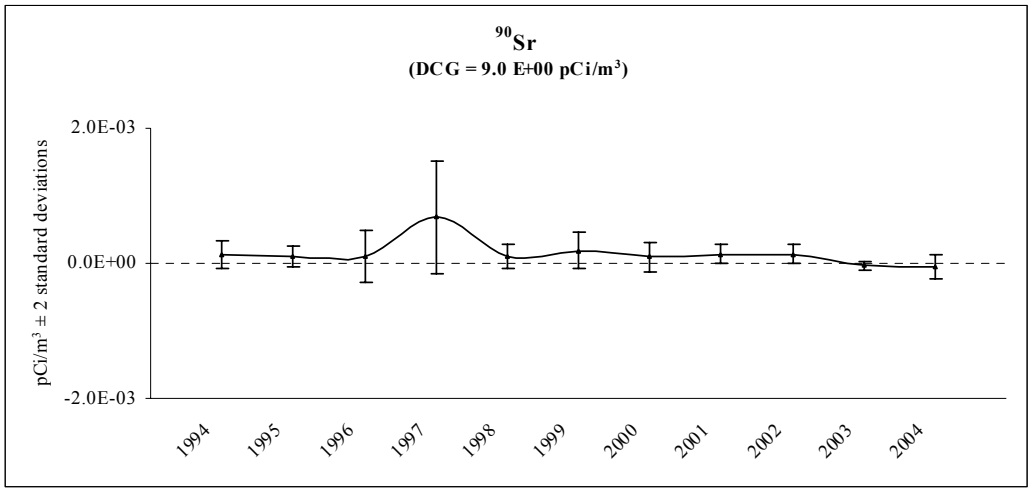

Figure 2-14. Annual Average Plutonium-239/240 Concentrations in Air, 100-K Area.

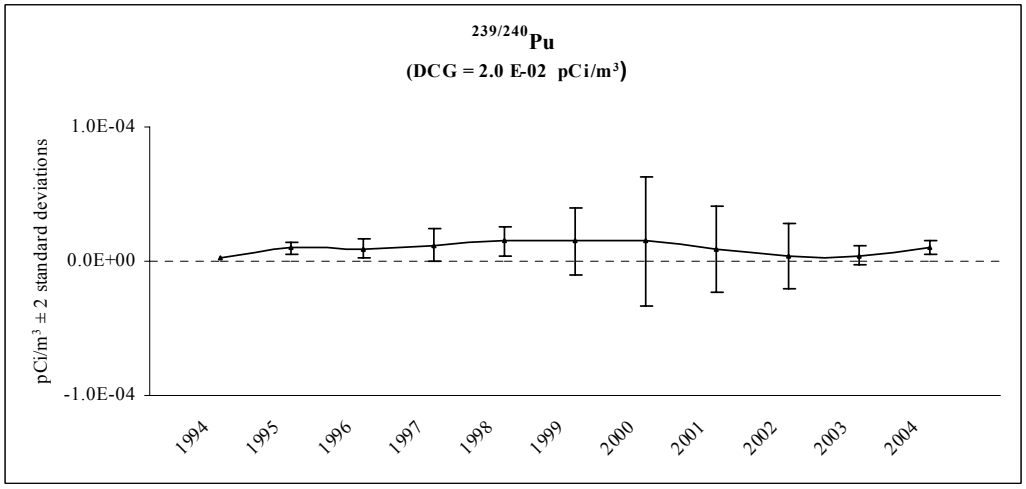

Figure 2-15. Annual Average Americium-241 Concentrations in Air, 100-K Area.

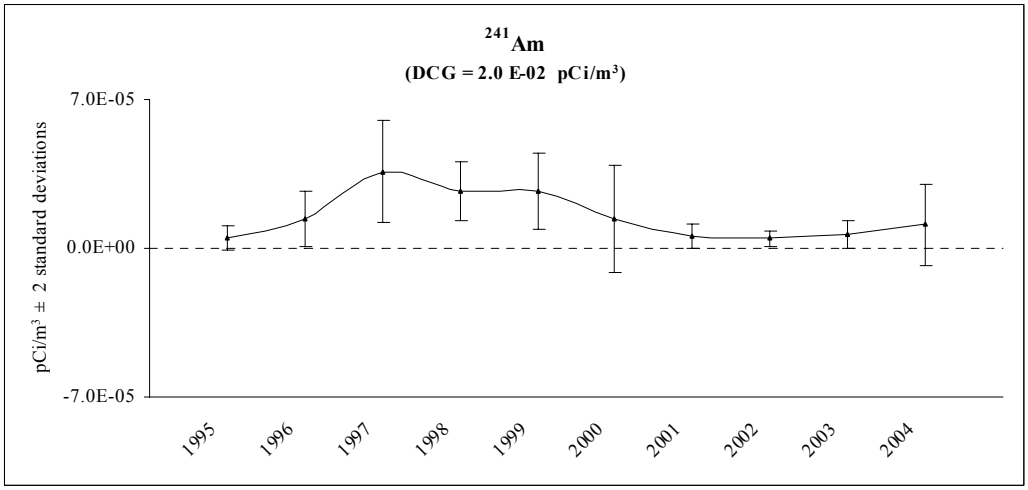

Figure 2-16. Annual Average Cobalt-60 Concentrations in Air, 100-N.

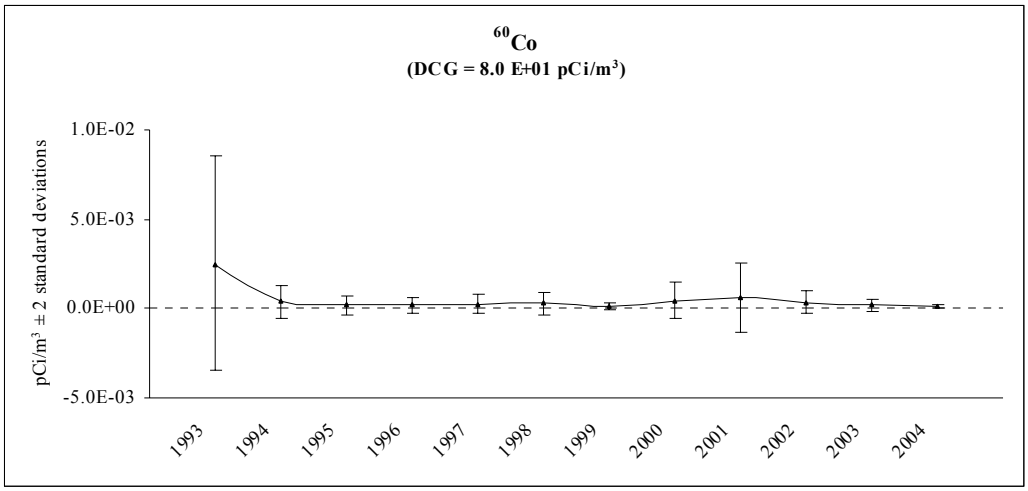

Figure 2-17. Annual Average Strontium-90 Concentrations in Air, 100-N.

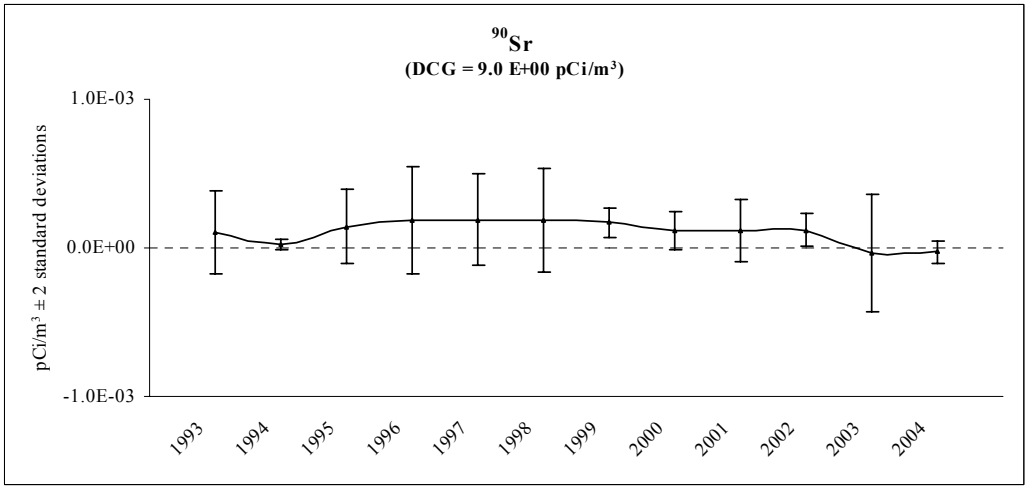

Figure 2-18. Annual Average Cesium-137 Concentrations in Air, 100-N.

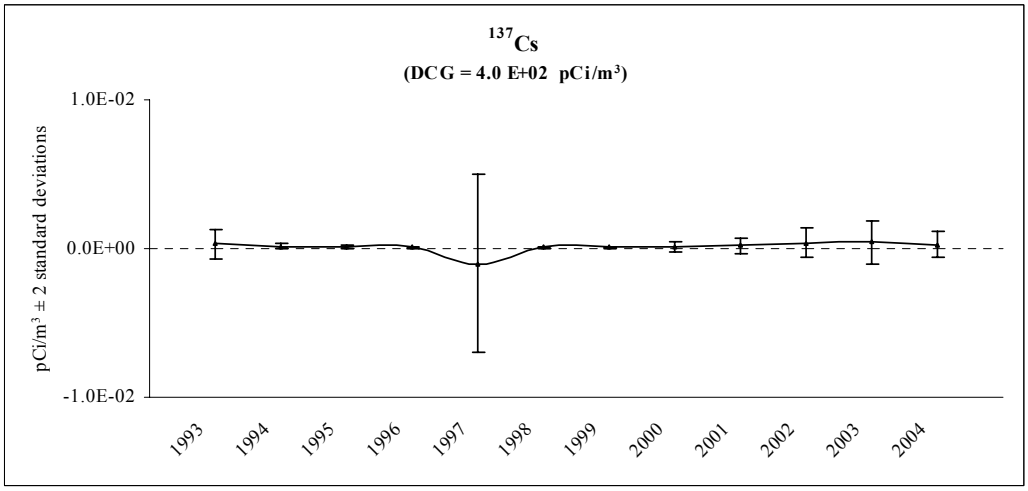

Figure 2-19. Annual Average Plutonium-239/240 Concentrations in Air, 100-N Area.

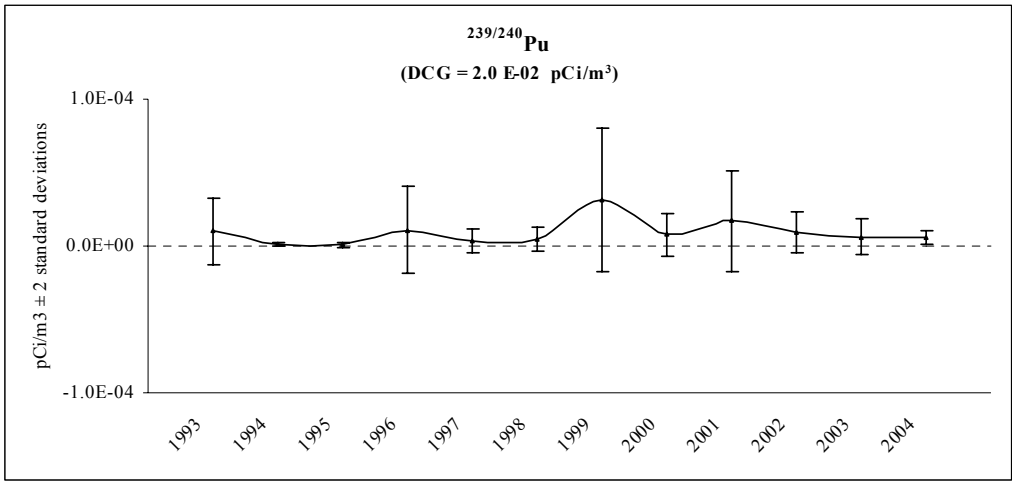

Figure 2-20. Annual Average Strontium-90 Concentrations in Air, 200 Areas.

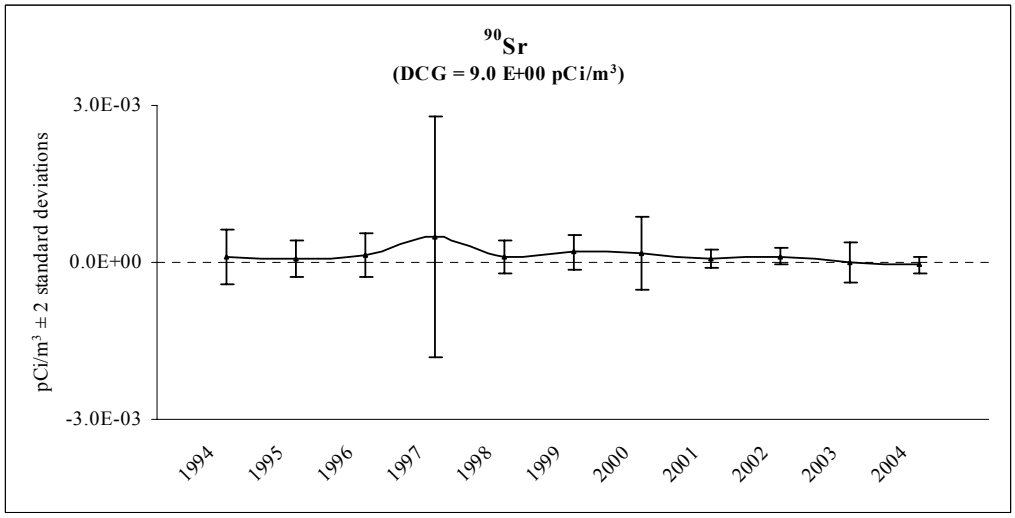

Figure 2-21. Annual Average Cesium-137 Concentrations in Air, 200 Areas.

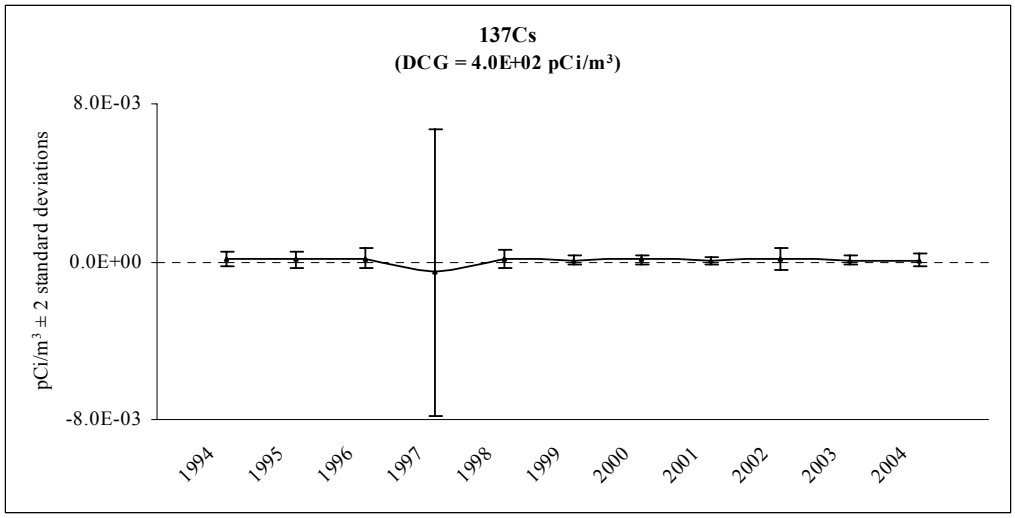

Figure 2-22. Annual Average Plutonium-239/240 Concentrations in Air, 200 Areas.

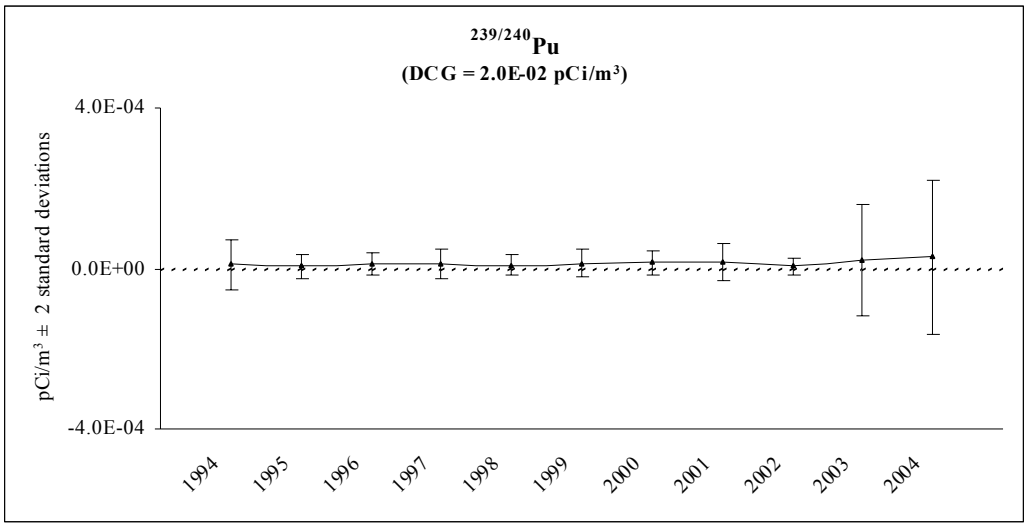

Figure 2-23. Annual Average Uranium-234 Concentrations in Air, 300 Area.

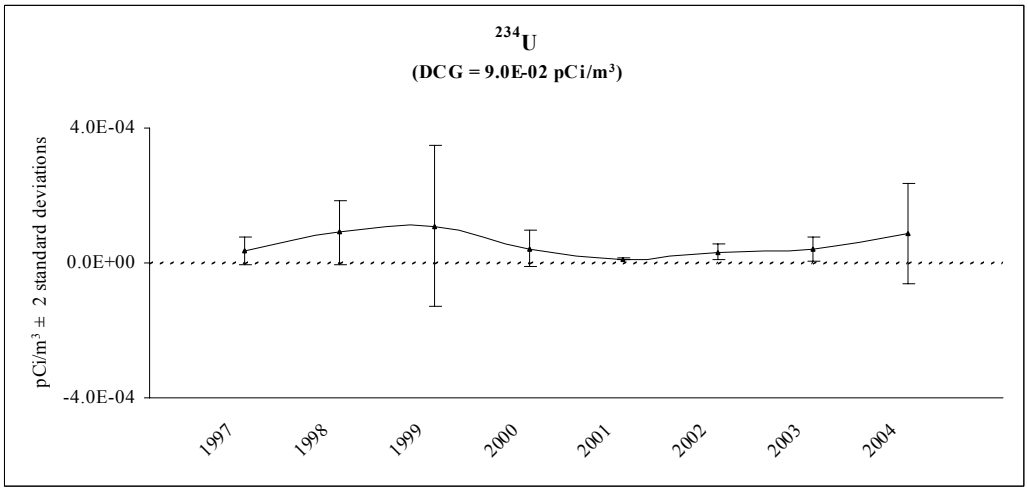

Figure 2-24. Annual Average Uranium-238 Concentrations in Air, 300 Area.

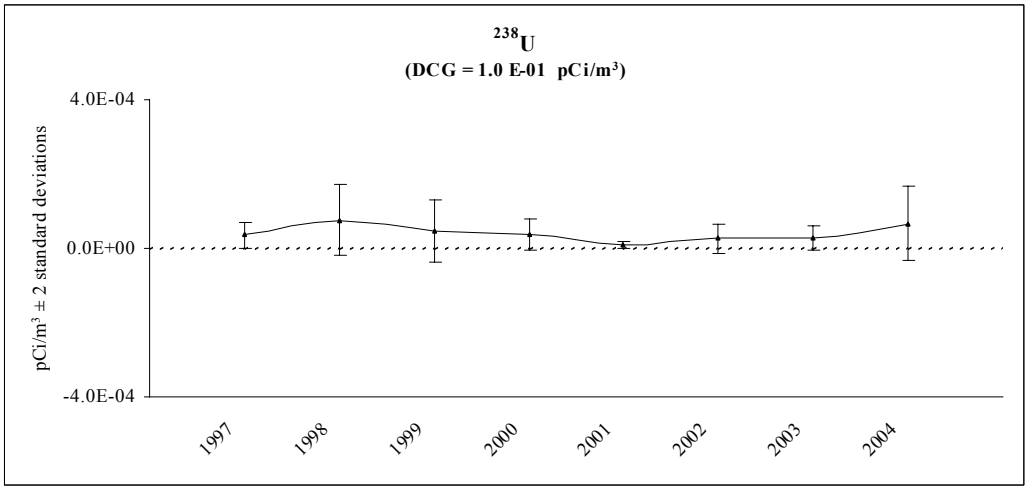

Table 2-2. PNNL Supplemental Air Sampling Locations[a], 2004.

Site	Sampling Location
100-B/C Remedial Action project	100 B, 100 B SE, Yakima Barricade
100-KR-1 Remedial Action project	Yakima Barricade
100-NR-1 Remedial Action project	Yakima Barricade
300-FF-2 Remedial Action project	300 Water Intake, 300 Trench, 300 NE
Environmental Restoration Disposal Facility	200 W SE

[a]Maps showing specific locations are available in PNNL-15222.

Table 2-3. Summary of Near-Facility Ambient Air Sampling Results (pCi/m^3) for Selected Radionuclides, 2004.

Isotope	Number of Detects	Number of Samples	Mean[a]	Maximum[b]	Location	Sampler
^{60}Co	2	159	8.7E-06 ± 1.9E-04	5.6E-04 ± 1.3E-03	105-D	N515
^{137}Cs	13	159	5.9E-05 ± 3.5E-04	1.3E-03 ± 5.1E-04	200 West	N155
$^{239/240}Pu$	43	155	1.8E-05 ± 1.5E-04	5.4E-04 ± 2.1E-04	200 West	N165
^{90}Sr	2	152	-6.0E-05 ± 2.3E-04	3.6E-04 ± 1.6E-04	200 East	N984
^{234}U	143	159	1.9E-05 ± 5.2E-05	1.9E-04 ± 9.7E-05	100-K	N538
^{235}U	34	159	4.6E-06 ± 1.5E-05	6.7E-05 ± 6.8E-05	105-D	N515
^{238}U	136	159	1.5E-05 ± 3.8E-05	1.3E-04 ± 7.9E-05	100-K	N537

[a] ± 2 standard deviations

[b] ± total analytical uncertainty

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N464 (100-B/C) Composite Period 10/21/04 to 12/21/04	^{144}Ce	1.8E-03 ± 1.8E-03	U
	^{60}Co	-1.6E-05 ± 1.6E-04	U
	^{134}Cs	-3.7E-05 ± 2.2E-04	U
	^{137}Cs	1.5E-04 ± 2.0E-04	U
	^{152}Eu	-1.0E-04 ± 4.6E-04	U
	^{154}Eu	-1.7E-04 ± 7.6E-04	U
	^{155}Eu	2.3E-04 ± 4.4E-04	U
	^{238}Pu	-2.2E-06 ± 2.2E-05	U
	$^{239/240}$Pu	2.2E-06 ± 1.1E-05	U
	^{103}Ru	-8.9E-05 ± 1.6E-04	U
	^{106}Ru	1.0E-03 ± 1.8E-03	U
	^{125}Sb	-1.2E-04 ± 4.6E-04	U
	^{113}Sn	6.3E-05 ± 2.0E-04	U
	^{90}Sr	-1.1E-04 ± 2.5E-04	U
	^{234}U	3.6E-05 ± 2.1E-05	
	^{235}U	1.4E-05 ± 1.4E-05	U
	^{238}U	1.5E-05 ± 1.4E-05	U
	^{65}Zn	4.1E-04 ± 5.5E-04	U
N465 (100-B/C) Composite Period 10/21/04 to 12/21/04	^{144}Ce	1.6E-03 ± 2.2E-03	U
	^{60}Co	4.3E-05 ± 2.5E-04	U
	^{134}Cs	6.2E-05 ± 2.6E-04	U
	^{137}Cs	-1.9E-06 ± 1.9E-05	U
	^{152}Eu	-3.2E-04 ± 6.0E-04	U
	^{154}Eu	1.7E-04 ± 6.4E-04	U
	^{155}Eu	-3.1E-04 ± 6.2E-04	U
	^{238}Pu	-7.0E-06 ± 4.2E-05	U
	$^{239/240}$Pu	1.9E-05 ± 1.6E-05	
	^{103}Ru	1.1E-04 ± 1.8E-04	U
	^{106}Ru	-7.7E-04 ± 1.7E-03	U
	^{125}Sb	-2.5E-04 ± 5.0E-04	U
	^{113}Sn	5.5E-05 ± 2.1E-04	U
	^{90}Sr	-5.2E-04 ± 5.3E-04	U
	^{234}U	7.3E-06 ± 1.3E-05	U
	^{235}U	2.1E-05 ± 1.6E-05	
	^{238}U	1.7E-05 ± 1.6E-05	U
	^{65}Zn	3.1E-04 ± 5.2E-04	U
N466 (100-B/C) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-2.7E-04 ± 6.1E-04	U
	^{60}Co	-2.4E-05 ± 6.9E-05	U
	^{134}Cs	-1.4E-06 ± 1.4E-05	U
	^{137}Cs	-1.3E-05 ± 5.7E-05	U
	^{152}Eu	-2.3E-05 ± 1.3E-04	U
	^{154}Eu	-1.3E-04 ± 2.1E-04	U
	^{155}Eu	-2.3E-05 ± 1.4E-04	U
	^{238}Pu	2.4E-06 ± 8.7E-06	U
	$^{239/240}$Pu	2.4E-06 ± 4.4E-06	U
	^{103}Ru	-6.9E-06 ± 6.3E-05	U
	^{106}Ru	-2.4E-04 ± 5.0E-04	U
	^{125}Sb	1.5E-04 ± 1.8E-04	U
	^{113}Sn	6.8E-06 ± 6.3E-05	U
	^{90}Sr	-2.8E-05 ± 1.0E-04	U
	^{234}U	1.4E-05 ± 8.5E-06	
	^{235}U	4.2E-06 ± 4.1E-06	
	^{238}U	1.3E-05 ± 8.1E-06	
	^{65}Zn	-5.0E-05 ± 1.5E-04	U
N466 (100-B/C) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-2.4E-04 ± 7.6E-04	U
	^{60}Co	2.4E-05 ± 6.4E-05	U
	^{134}Cs	-2.2E-05 ± 6.3E-05	U
	^{137}Cs	-9.0E-06 ± 6.4E-05	U
	^{152}Eu	-2.5E-04 ± 2.6E-04	U
	^{154}Eu	2.0E-04 ± 2.0E-04	U
	^{155}Eu	-2.4E-05 ± 1.6E-04	U
	^{238}Pu	-7.6E-06 ± 2.1E-05	U
	$^{239/240}$Pu	3.2E-06 ± 4.9E-06	U
	^{103}Ru	-5.9E-06 ± 5.9E-05	U
	^{106}Ru	-3.1E-04 ± 5.5E-04	U
	^{125}Sb	8.2E-05 ± 1.4E-04	U
	^{113}Sn	3.0E-07 ± 3.0E-06	U
	^{90}Sr	-8.3E-05 ± 8.6E-05	U
	^{234}U	1.1E-05 ± 7.6E-06	
	^{235}U	5.8E-06 ± 4.6E-06	
	^{238}U	1.4E-05 ± 7.9E-06	
	^{65}Zn	-1.1E-04 ± 1.4E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N496 (100-B/C) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-5.5E-04 ± 7.0E-04	U
	^{60}Co	-6.5E-06 ± 6.4E-05	U
	^{134}Cs	7.1E-05 ± 7.3E-05	U
	^{137}Cs	-9.4E-07 ± 9.4E-06	U
	^{152}Eu	9.5E-06 ± 9.5E-05	U
	^{154}Eu	-1.2E-04 ± 2.0E-04	U
	^{155}Eu	-1.2E-04 ± 1.7E-04	U
	^{238}Pu	-4.9E-06 ± 1.0E-05	U
	$^{239/240}$Pu	-8.3E-07 ± 4.4E-06	U
	^{103}Ru	-4.1E-05 ± 8.4E-05	U
	^{106}Ru	1.6E-04 ± 5.8E-04	U
	^{125}Sb	6.7E-06 ± 6.7E-05	U
	^{113}Sn	-1.7E-05 ± 7.6E-05	U
	^{90}Sr	-4.8E-05 ± 9.5E-05	U
	^{234}U	8.9E-06 ± 6.9E-06	
	^{235}U	1.5E-06 ± 2.1E-06	U
	^{238}U	6.5E-06 ± 5.2E-06	
	^{65}Zn	-5.4E-05 ± 1.4E-04	U
N497 (100-B/C) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-2.4E-04 ± 7.0E-04	U
	^{60}Co	7.3E-05 ± 8.1E-05	U
	^{134}Cs	-9.4E-06 ± 8.3E-05	U
	^{137}Cs	3.0E-05 ± 6.1E-05	U
	^{152}Eu	-6.1E-05 ± 1.6E-04	U
	^{154}Eu	5.2E-05 ± 2.0E-04	U
	^{155}Eu	-2.8E-05 ± 1.8E-04	U
	^{238}Pu	4.5E-06 ± 7.2E-06	U
	$^{239/240}$Pu	7.5E-07 ± 2.7E-06	U
	^{103}Ru	3.1E-05 ± 7.6E-05	U
	^{106}Ru	-5.4E-05 ± 5.4E-04	U
	^{125}Sb	9.6E-05 ± 1.5E-04	U
	^{113}Sn	2.2E-08 ± 2.2E-07	U
	^{90}Sr	-1.0E-04 ± 1.1E-04	U
	^{234}U	1.4E-05 ± 8.4E-06	
	^{235}U	6.9E-07 ± 3.1E-06	U
	^{238}U	8.2E-06 ± 6.3E-06	
	^{65}Zn	2.0E-04 ± 1.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N496 (100-B/C) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-8.6E-04 ± 8.9E-04	U
	^{60}Co	-3.6E-05 ± 1.0E-04	U
	^{134}Cs	7.2E-05 ± 1.0E-04	U
	^{137}Cs	1.1E-05 ± 8.7E-05	U
	^{152}Eu	4.5E-05 ± 2.3E-04	U
	^{154}Eu	-1.5E-04 ± 2.8E-04	U
	^{155}Eu	-1.6E-04 ± 1.7E-04	U
	^{238}Pu	2.1E-06 ± 1.4E-05	U
	$^{239/240}$Pu	1.0E-05 ± 6.8E-06	
	^{103}Ru	1.4E-05 ± 1.1E-04	U
	^{106}Ru	9.8E-06 ± 9.8E-05	U
	^{125}Sb	-4.4E-05 ± 2.4E-04	U
	^{113}Sn	2.1E-05 ± 1.1E-04	U
	^{90}Sr	-1.5E-04 ± 1.6E-04	U
	^{234}U	1.4E-05 ± 8.0E-06	
	^{235}U	1.5E-06 ± 2.1E-06	U
	^{238}U	8.4E-06 ± 5.6E-06	
	^{65}Zn	-3.2E-04 ± 3.3E-04	U
N497 (100-B/C) Composite Period 06/21/04 to 12/21/04	^{144}Ce	9.8E-06 ± 9.8E-05	U
	^{60}Co	6.2E-05 ± 7.4E-05	U
	^{134}Cs	-2.3E-05 ± 6.5E-05	U
	^{137}Cs	3.2E-06 ± 3.2E-05	U
	^{152}Eu	-2.0E-05 ± 1.3E-04	U
	^{154}Eu	4.0E-05 ± 1.9E-04	U
	^{155}Eu	5.0E-05 ± 1.4E-04	U
	^{238}Pu	-2.9E-06 ± 1.8E-05	U
	$^{239/240}$Pu	-9.8E-07 ± 4.4E-06	U
	^{103}Ru	-2.4E-05 ± 7.1E-05	U
	^{106}Ru	-8.0E-05 ± 5.0E-04	U
	^{125}Sb	-4.0E-05 ± 1.3E-04	U
	^{113}Sn	1.6E-05 ± 6.2E-05	U
	^{90}Sr	-4.2E-05 ± 8.1E-05	U
	^{234}U	9.8E-06 ± 7.6E-06	
	^{235}U	5.9E-06 ± 5.0E-06	
	^{238}U	7.7E-06 ± 6.1E-06	
	^{65}Zn	-1.6E-04 ± 1.6E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N492 (100-D/DR) Composite Period 12/22/03 to 03/29/04	^{144}Ce	-1.1E-03 ± 1.2E-03	U
	^{60}Co	9.8E-05 ± 1.7E-04	U
	^{134}Cs	1.8E-05 ± 1.5E-04	U
	^{137}Cs	4.3E-05 ± 1.2E-04	U
	^{152}Eu	2.0E-05 ± 2.0E-04	U
	^{154}Eu	-2.9E-04 ± 4.4E-04	U
	^{155}Eu	1.9E-04 ± 3.1E-04	U
	^{238}Pu	-6.8E-06 ± 1.8E-05	U
	$^{239/240}$Pu	6.8E-06 ± 7.7E-06	U
	^{103}Ru	-3.5E-05 ± 1.0E-04	U
	^{106}Ru	-2.5E-05 ± 2.6E-04	U
	^{125}Sb	4.1E-05 ± 2.8E-04	U
	^{113}Sn	-6.9E-05 ± 1.2E-04	U
	^{90}Sr	-3.3E-04 ± 3.4E-04	U
	^{234}U	1.8E-05 ± 1.3E-05	
	^{235}U	2.9E-06 ± 7.3E-06	U
	^{238}U	1.0E-05 ± 8.3E-06	
	^{65}Zn	-2.5E-04 ± 3.1E-04	U
N492 (100-D/DR) Composite Period 03/29/04 to 06/22/04	^{144}Ce	4.4E-04 ± 1.1E-03	U
	^{60}Co	1.2E-04 ± 1.7E-04	U
	^{134}Cs	7.8E-05 ± 1.4E-04	U
	^{137}Cs	-2.2E-05 ± 1.2E-04	U
	^{152}Eu	-1.5E-04 ± 3.1E-04	U
	^{154}Eu	5.4E-05 ± 4.1E-04	U
	^{155}Eu	3.7E-05 ± 2.9E-04	U
	^{238}Pu	2.2E-05 ± 3.0E-05	U
	$^{239/240}$Pu	-1.8E-06 ± 8.1E-06	U
	^{103}Ru	-2.9E-05 ± 1.1E-04	U
	^{106}Ru	-8.7E-04 ± 1.2E-03	U
	^{125}Sb	-2.0E-04 ± 3.1E-04	U
	^{113}Sn	-2.5E-05 ± 1.3E-04	U
	^{90}Sr	-3.0E-05 ± 1.8E-04	U
	^{234}U	9.7E-06 ± 8.1E-06	
	^{235}U	1.5E-06 ± 5.2E-06	U
	^{238}U	1.4E-05 ± 1.1E-05	
	^{65}Zn	2.2E-04 ± 3.2E-04	U
N492 (100-D/DR) Composite Period 06/22/04 to 09/28/04	^{144}Ce	4.8E-04 ± 1.3E-03	U
	^{60}Co	-9.3E-05 ± 1.6E-04	U
	^{134}Cs	4.0E-06 ± 4.0E-05	U
	^{137}Cs	-8.1E-05 ± 1.4E-04	U
	^{152}Eu	-3.5E-05 ± 3.5E-04	U
	^{154}Eu	-5.5E-04 ± 5.3E-04	U
	^{155}Eu	2.5E-04 ± 3.4E-04	U
	^{238}Pu	-1.3E-06 ± 1.3E-05	U
	$^{239/240}$Pu	7.6E-06 ± 6.8E-06	
	^{103}Ru	7.3E-05 ± 1.2E-04	U
	^{106}Ru	-6.4E-04 ± 1.2E-03	U
	^{125}Sb	2.7E-04 ± 3.3E-04	U
	^{113}Sn	-1.7E-04 ± 1.7E-04	U
	^{90}Sr	1.4E-04 ± 1.6E-04	U
	^{234}U	2.2E-05 ± 1.5E-05	
	^{235}U	1.2E-05 ± 9.6E-06	
	^{238}U	2.6E-05 ± 1.5E-05	
	^{65}Zn	4.5E-04 ± 4.0E-04	U
N492 (100-D/DR) Composite Period 09/28/04 to 12/22/04	^{144}Ce	-6.5E-04 ± 1.4E-03	U
	^{60}Co	7.7E-06 ± 7.7E-05	U
	^{134}Cs	1.2E-04 ± 1.6E-04	U
	^{137}Cs	-1.0E-04 ± 1.4E-04	U
	^{152}Eu	3.0E-04 ± 3.4E-04	U
	^{154}Eu	-3.2E-04 ± 4.9E-04	U
	^{155}Eu	-9.5E-05 ± 3.5E-04	U
	^{238}Pu	1.6E-06 ± 1.6E-05	U
	$^{239/240}$Pu	-1.6E-06 ± 7.2E-06	U
	^{103}Ru	1.7E-05 ± 1.1E-04	U
	^{106}Ru	5.3E-04 ± 1.2E-03	U
	^{125}Sb	5.3E-05 ± 3.1E-04	U
	^{113}Sn	-1.1E-04 ± 1.3E-04	U
	^{90}Sr	-3.0E-04 ± 3.1E-04	U
	^{234}U	2.2E-05 ± 1.8E-05	
	^{235}U	3.5E-06 ± 5.0E-06	U
	^{238}U	1.6E-05 ± 1.3E-05	
	^{65}Zn	8.9E-05 ± 3.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N494 (100-F)	^{144}Ce	-2.5E-03 ± 2.7E-03	U
Composite Period	^{60}Co	-5.1E-05 ± 3.1E-04	U
12/22/03 to 02/03/04	^{134}Cs	5.3E-05 ± 2.9E-04	U
	^{137}Cs	3.7E-05 ± 2.6E-04	U
	^{152}Eu	-2.8E-04 ± 6.4E-04	U
	^{154}Eu	2.8E-04 ± 8.8E-04	U
	^{155}Eu	6.6E-05 ± 6.6E-04	U
	^{238}Pu	-1.3E-05 ± 6.0E-05	U
	$^{239/240}$Pu	3.3E-06 ± 3.4E-06	U
	^{103}Ru	3.8E-04 ± 2.4E-04	U
	^{106}Ru	1.5E-03 ± 2.5E-03	U
	^{125}Sb	-1.9E-04 ± 5.9E-04	U
	^{113}Sn	-2.8E-05 ± 2.6E-04	U
	^{90}Sr	1.2E-04 ± 4.0E-04	U
	^{234}U	4.2E-05 ± 2.7E-05	
	^{235}U	3.3E-06 ± 3.4E-06	U
	^{238}U	1.3E-05 ± 1.6E-05	U
	^{65}Zn	-5.7E-05 ± 5.7E-04	U
N515 (100-D/DR)	^{144}Ce	7.5E-03 ± 9.4E-03	U
Composite Period	^{60}Co	5.6E-04 ± 1.3E-03	U
12/22/03 to 01/08/04	^{134}Cs	4.5E-04 ± 1.1E-03	U
	^{137}Cs	-3.0E-04 ± 1.3E-03	U
	^{152}Eu	-1.8E-04 ± 1.8E-03	U
	^{154}Eu	3.4E-03 ± 3.6E-03	U
	^{155}Eu	3.3E-05 ± 3.3E-04	U
	^{238}Pu	1.1E-04 ± 1.9E-04	U
	$^{239/240}$Pu	6.7E-05 ± 6.3E-05	
	^{103}Ru	-2.3E-04 ± 8.9E-04	U
	^{106}Ru	-5.2E-03 ± 9.6E-03	U
	^{125}Sb	9.2E-04 ± 2.4E-03	U
	^{113}Sn	-8.4E-04 ± 1.0E-03	U
	^{90}Sr	-7.5E-04 ± 1.6E-03	U
	^{234}U	6.3E-05 ± 7.5E-05	U
	^{235}U	6.7E-05 ± 6.8E-05	
	^{238}U	7.8E-05 ± 7.3E-05	
	^{65}Zn	2.4E-03 ± 3.2E-03	U

Location	Isotope	Result ± Uncertainty	RQ*
N495 (100-F)	^{144}Ce	-1.9E-03 ± 3.9E-03	U
Composite Period	^{60}Co	-2.0E-04 ± 3.4E-04	U
12/22/03 to 02/03/04	^{134}Cs	2.4E-04 ± 3.5E-04	U
	^{137}Cs	-6.9E-05 ± 3.5E-04	U
	^{152}Eu	-7.8E-04 ± 1.1E-03	U
	^{154}Eu	-6.4E-04 ± 1.1E-03	U
	^{155}Eu	1.1E-03 ± 1.1E-03	U
	^{238}Pu	-6.7E-06 ± 4.9E-05	U
	$^{239/240}$Pu	1.4E-05 ± 1.4E-05	
	^{103}Ru	-6.9E-05 ± 3.3E-04	U
	^{106}Ru	-2.2E-03 ± 3.3E-03	U
	^{125}Sb	1.6E-04 ± 8.4E-04	U
	^{113}Sn	7.5E-05 ± 3.9E-04	U
	^{90}Sr	-4.7E-04 ± 4.8E-04	U
	^{234}U	5.0E-05 ± 3.0E-05	
	^{235}U	7.0E-06 ± 1.0E-05	U
	^{238}U	1.9E-05 ± 1.9E-05	U
	^{65}Zn	5.4E-04 ± 7.9E-04	U
N523 (100-D/DR)	^{144}Ce	-9.1E-04 ± 1.7E-03	U
Composite Period	^{60}Co	1.3E-04 ± 2.0E-04	U
12/22/03 to 03/29/04	^{134}Cs	2.1E-05 ± 1.7E-04	U
	^{137}Cs	2.7E-04 ± 1.9E-04	U
	^{152}Eu	-9.6E-05 ± 4.2E-04	U
	^{154}Eu	1.8E-04 ± 4.8E-04	U
	^{155}Eu	4.1E-05 ± 4.2E-04	U
	^{238}Pu	-2.2E-06 ± 2.2E-05	U
	$^{239/240}$Pu	8.4E-06 ± 8.6E-06	
	^{103}Ru	-2.2E-05 ± 1.5E-04	U
	^{106}Ru	-8.9E-04 ± 1.5E-03	U
	^{125}Sb	-2.2E-04 ± 3.9E-04	U
	^{113}Sn	5.5E-05 ± 1.6E-04	U
	^{90}Sr	-1.5E-04 ± 2.1E-04	U
	^{234}U	4.8E-05 ± 2.6E-05	
	^{235}U	7.3E-06 ± 1.3E-05	U
	^{238}U	3.5E-05 ± 2.3E-05	
	^{65}Zn	-2.0E-04 ± 3.9E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N523 (100-D/DR) Composite Period 03/29/04 to 06/22/04	^{144}Ce	-9.3E-05 ± 9.3E-04	U
	^{60}Co	2.6E-05 ± 1.6E-04	U
	^{134}Cs	3.4E-06 ± 3.4E-05	U
	^{137}Cs	1.4E-04 ± 1.8E-04	U
	^{152}Eu	1.4E-04 ± 2.9E-04	U
	^{154}Eu	1.4E-04 ± 4.1E-04	U
	^{155}Eu	-3.7E-05 ± 3.2E-04	U
	^{238}Pu	9.6E-06 ± 2.0E-05	U
	$^{239/240}$Pu	8.0E-06 ± 9.8E-06	U
	^{103}Ru	-2.1E-05 ± 1.0E-04	U
	^{106}Ru	-9.0E-04 ± 1.1E-03	U
	^{125}Sb	-1.2E-05 ± 1.2E-04	U
	^{113}Sn	1.1E-05 ± 1.1E-04	U
	^{90}Sr	-1.1E-04 ± 2.0E-04	U
	^{234}U	1.9E-05 ± 1.3E-05	
	^{235}U	3.2E-06 ± 6.5E-06	U
	^{238}U	9.0E-06 ± 9.0E-06	U
	^{65}Zn	-2.5E-04 ± 4.0E-04	U
N523 (100-D/DR) Composite Period 09/28/04 to 12/22/04	^{144}Ce	5.9E-04 ± 1.7E-03	U
	^{60}Co	1.1E-04 ± 2.3E-04	U
	^{134}Cs	8.9E-05 ± 2.4E-04	U
	^{137}Cs	-1.7E-05 ± 1.7E-04	U
	^{152}Eu	4.5E-05 ± 4.5E-04	U
	^{154}Eu	-3.3E-04 ± 7.3E-04	U
	^{155}Eu	-3.2E-04 ± 3.9E-04	U
	^{238}Pu	1.3E-05 ± 2.4E-05	U
	$^{239/240}$Pu	-2.6E-06 ± 7.3E-06	U
	^{103}Ru	-2.1E-04 ± 2.1E-04	U
	^{106}Ru	6.3E-04 ± 1.7E-03	U
	^{125}Sb	-2.8E-04 ± 5.3E-04	U
	^{113}Sn	3.9E-05 ± 2.3E-04	U
	^{90}Sr	3.1E-05 ± 1.7E-04	U
	^{234}U	1.1E-05 ± 1.1E-05	U
	^{235}U	3.4E-06 ± 4.8E-06	U
	^{238}U	1.2E-05 ± 9.5E-06	
	^{65}Zn	1.1E-04 ± 5.3E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N523 (100-D/DR) Composite Period 06/22/04 to 09/28/04	^{144}Ce	2.0E-04 ± 1.0E-03	U
	^{60}Co	-6.5E-05 ± 1.4E-04	U
	^{134}Cs	-3.5E-06 ± 3.5E-05	U
	^{137}Cs	1.2E-04 ± 1.3E-04	U
	^{152}Eu	-2.0E-04 ± 3.1E-04	U
	^{154}Eu	-1.8E-04 ± 4.2E-04	U
	^{155}Eu	1.4E-04 ± 2.9E-04	U
	^{238}Pu	-5.1E-06 ± 1.3E-05	U
	$^{239/240}$Pu	3.9E-06 ± 4.8E-06	
	^{103}Ru	1.1E-04 ± 1.2E-04	U
	^{106}Ru	7.2E-04 ± 1.1E-03	U
	^{125}Sb	-1.7E-05 ± 1.7E-04	U
	^{113}Sn	-1.0E-04 ± 1.2E-04	U
	^{90}Sr	-7.9E-05 ± 1.4E-04	U
	^{234}U	2.2E-05 ± 1.5E-05	
	^{235}U	8.1E-06 ± 9.1E-06	U
	^{238}U	8.9E-06 ± 9.0E-06	U
	^{65}Zn	2.3E-04 ± 3.5E-04	U
N524 (100-H) Composite Period 12/22/03 to 03/29/04	^{144}Ce	-4.3E-04 ± 1.2E-03	U
	^{60}Co	1.6E-05 ± 1.3E-04	U
	^{134}Cs	6.8E-05 ± 1.3E-04	U
	^{137}Cs	1.6E-04 ± 1.3E-04	U
	^{152}Eu	2.2E-04 ± 2.5E-04	U
	^{154}Eu	1.6E-04 ± 3.8E-04	U
	^{155}Eu	9.1E-05 ± 2.8E-04	U
	^{238}Pu	1.5E-06 ± 1.5E-05	U
	$^{239/240}$Pu	1.2E-05 ± 1.0E-05	
	^{103}Ru	1.8E-05 ± 9.7E-05	U
	^{106}Ru	-5.8E-04 ± 9.9E-04	U
	^{125}Sb	-1.6E-04 ± 2.4E-04	U
	^{113}Sn	-7.1E-05 ± 1.0E-04	U
	^{90}Sr	-8.0E-05 ± 1.5E-04	U
	^{234}U	1.7E-05 ± 1.3E-05	
	^{235}U	5.8E-06 ± 6.0E-06	
	^{238}U	1.9E-05 ± 1.2E-05	
	^{65}Zn	-1.2E-04 ± 2.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N524 (100-H) Composite Period 03/29/04 to 06/22/04	^{144}Ce	-1.3E-04 ± 1.3E-03	U
	^{60}Co	-6.4E-05 ± 1.8E-04	U
	^{134}Cs	-4.0E-06 ± 4.0E-05	U
	^{137}Cs	6.3E-05 ± 1.5E-04	U
	^{152}Eu	1.3E-04 ± 3.6E-04	U
	^{154}Eu	-2.4E-04 ± 5.2E-04	U
	^{155}Eu	3.7E-04 ± 3.6E-04	U
	^{238}Pu	2.1E-05 ± 2.8E-05	U
	$^{239/240}$Pu	1.7E-06 ± 1.7E-06	U
	^{103}Ru	-2.5E-05 ± 1.2E-04	U
	^{106}Ru	6.6E-04 ± 1.4E-03	U
	^{125}Sb	-2.3E-04 ± 3.9E-04	U
	^{113}Sn	-8.8E-05 ± 1.4E-04	U
	^{90}Sr	-3.0E-05 ± 2.6E-04	U
	^{234}U	1.1E-05 ± 1.1E-05	U
	^{235}U	6.5E-06 ± 6.7E-06	
	^{238}U	1.7E-05 ± 1.2E-05	
	^{65}Zn	-2.1E-04 ± 3.6E-04	U
N524 (100-H) Composite Period 09/28/04 to 12/22/04	^{144}Ce	-5.7E-04 ± 1.9E-03	U
	^{60}Co	9.4E-05 ± 3.2E-04	U
	^{134}Cs	-1.2E-04 ± 2.6E-04	U
	^{137}Cs	-2.1E-04 ± 2.4E-04	U
	^{152}Eu	-2.0E-04 ± 5.9E-04	U
	^{154}Eu	4.9E-05 ± 5.0E-04	U
	^{155}Eu	-2.6E-05 ± 2.6E-04	U
	^{238}Pu	-1.6E-06 ± 1.6E-05	U
	$^{239/240}$Pu	4.7E-06 ± 7.2E-06	U
	^{103}Ru	-1.3E-04 ± 2.0E-04	U
	^{106}Ru	1.9E-04 ± 1.9E-03	U
	^{125}Sb	3.5E-04 ± 5.7E-04	U
	^{113}Sn	-4.3E-05 ± 2.4E-04	U
	^{90}Sr	-2.6E-04 ± 2.7E-04	U
	^{234}U	2.0E-05 ± 1.4E-05	
	^{235}U	1.6E-06 ± 1.7E-06	U
	^{238}U	1.2E-05 ± 1.1E-05	U
	^{65}Zn	5.1E-04 ± 5.7E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N524 (100-H) Composite Period 06/22/04 to 09/28/04	^{144}Ce	2.3E-04 ± 1.3E-03	U
	^{60}Co	1.1E-04 ± 1.4E-04	U
	^{134}Cs	-8.6E-05 ± 1.1E-04	U
	^{137}Cs	5.1E-04 ± 3.0E-04	
	^{152}Eu	-1.2E-04 ± 3.7E-04	U
	^{154}Eu	-7.4E-05 ± 3.4E-04	U
	^{155}Eu	8.2E-05 ± 3.5E-04	U
	^{238}Pu	-5.1E-06 ± 1.8E-05	U
	$^{239/240}$Pu	3.8E-06 ± 5.8E-06	U
	^{103}Ru	8.3E-05 ± 1.1E-04	U
	^{106}Ru	5.4E-05 ± 5.4E-04	U
	^{125}Sb	-3.9E-05 ± 2.9E-04	U
	^{113}Sn	-1.2E-04 ± 1.5E-04	U
	^{90}Sr	-1.3E-05 ± 1.1E-04	U
	^{234}U	2.9E-05 ± 1.6E-05	
	^{235}U	6.1E-06 ± 7.5E-06	U
	^{238}U	3.2E-05 ± 1.9E-05	
	^{65}Zn	-3.5E-05 ± 3.1E-04	U
N525 (100-H) Composite Period 12/22/03 to 03/29/04	^{144}Ce	1.9E-04 ± 1.1E-03	U
	^{60}Co	-4.3E-05 ± 1.5E-04	U
	^{134}Cs	-9.0E-06 ± 9.0E-05	U
	^{137}Cs	-1.3E-06 ± 1.3E-05	U
	^{152}Eu	6.0E-04 ± 4.2E-04	
	^{154}Eu	-4.0E-04 ± 4.5E-04	U
	^{155}Eu	-1.2E-04 ± 3.1E-04	U
	^{238}Pu	3.3E-06 ± 1.8E-05	U
	$^{239/240}$Pu	-1.6E-06 ± 5.5E-06	U
	^{103}Ru	5.2E-05 ± 1.0E-04	U
	^{106}Ru	-2.4E-04 ± 1.1E-03	U
	^{125}Sb	1.6E-04 ± 2.8E-04	U
	^{113}Sn	-4.4E-05 ± 1.2E-04	U
	^{90}Sr	-2.6E-05 ± 1.2E-04	U
	^{234}U	2.1E-05 ± 1.5E-05	
	^{235}U	4.1E-06 ± 5.8E-06	U
	^{238}U	5.5E-06 ± 8.4E-06	U
	^{65}Zn	-3.7E-06 ± 3.7E-05	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N525 (100-H) Composite Period 03/29/04 to 06/22/04	^{144}Ce	2.2E-04 ± 1.2E-03	U
	^{60}Co	1.1E-04 ± 1.7E-04	U
	^{134}Cs	3.5E-05 ± 1.5E-04	U
	^{137}Cs	1.1E-05 ± 1.1E-04	U
	^{152}Eu	-9.6E-05 ± 2.9E-04	U
	^{154}Eu	3.7E-06 ± 3.8E-05	U
	^{155}Eu	-7.5E-05 ± 3.1E-04	U
	^{238}Pu	3.3E-06 ± 2.5E-05	U
	$^{239/240}$Pu	1.5E-06 ± 1.5E-05	U
	^{103}Ru	-3.3E-05 ± 1.1E-04	U
	^{106}Ru	-7.7E-04 ± 1.2E-03	U
	^{125}Sb	-2.5E-04 ± 3.2E-04	U
	^{113}Sn	1.7E-05 ± 1.3E-04	U
	^{90}Sr	-1.7E-04 ± 2.2E-04	U
	^{234}U	1.5E-05 ± 1.0E-05	
	^{235}U	3.2E-06 ± 4.5E-06	U
	^{238}U	1.5E-05 ± 1.0E-05	
	^{65}Zn	-6.2E-05 ± 3.1E-04	U
N525 (100-H) Composite Period 09/28/04 to 12/22/04	^{144}Ce	-6.2E-04 ± 1.4E-03	U
	^{60}Co	2.9E-05 ± 1.6E-04	U
	^{134}Cs	-1.1E-04 ± 1.4E-04	U
	^{137}Cs	6.9E-05 ± 1.4E-04	U
	^{152}Eu	8.4E-06 ± 8.4E-05	U
	^{154}Eu	-2.7E-04 ± 4.9E-04	U
	^{155}Eu	1.4E-04 ± 3.3E-04	U
	^{238}Pu	1.4E-05 ± 2.2E-05	U
	$^{239/240}$Pu	4.5E-06 ± 6.8E-06	U
	^{103}Ru	-3.1E-06 ± 3.1E-05	U
	^{106}Ru	-5.4E-04 ± 1.2E-03	U
	^{125}Sb	-2.9E-04 ± 3.7E-04	U
	^{113}Sn	-4.3E-05 ± 1.6E-04	U
	^{90}Sr	-2.1E-04 ± 2.1E-04	U
	^{234}U	2.6E-05 ± 1.6E-05	
	^{235}U	6.4E-06 ± 6.6E-06	
	^{238}U	1.8E-05 ± 1.2E-05	
	^{65}Zn	-3.5E-05 ± 3.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N525 (100-H) Composite Period 06/22/04 to 09/28/04	^{144}Ce	-1.4E-04 ± 1.4E-03	U
	^{60}Co	4.9E-05 ± 2.3E-04	U
	^{134}Cs	-1.8E-04 ± 2.1E-04	U
	^{137}Cs	-4.1E-05 ± 1.8E-04	U
	^{152}Eu	-4.4E-05 ± 4.4E-04	U
	^{154}Eu	1.5E-04 ± 5.8E-04	U
	^{155}Eu	-2.5E-04 ± 3.5E-04	U
	^{238}Pu	1.9E-05 ± 1.8E-05	U
	$^{239/240}$Pu	1.3E-06 ± 7.0E-06	U
	^{103}Ru	-6.8E-05 ± 1.6E-04	U
	^{106}Ru	-4.4E-04 ± 1.6E-03	U
	^{125}Sb	6.9E-05 ± 4.4E-04	U
	^{113}Sn	6.0E-05 ± 2.2E-04	U
	^{90}Sr	-3.2E-04 ± 3.3E-04	U
	^{234}U	2.3E-05 ± 1.6E-05	
	^{235}U	1.1E-05 ± 1.1E-05	U
	^{238}U	1.2E-05 ± 1.1E-05	U
	^{65}Zn	9.4E-05 ± 4.4E-04	U
N401 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	6.1E-06 ± 9.8E-06	U
	^{144}Ce	2.5E-04 ± 6.6E-04	U
	^{60}Co	4.4E-05 ± 7.5E-05	U
	^{134}Cs	4.9E-05 ± 7.1E-05	U
	^{137}Cs	5.8E-05 ± 6.5E-05	U
	^{152}Eu	-1.9E-05 ± 1.5E-04	U
	^{154}Eu	8.0E-05 ± 2.1E-04	U
	^{155}Eu	4.2E-06 ± 4.2E-05	U
	^{238}Pu	3.0E-05 ± 3.7E-05	U
	$^{239/240}$Pu	1.7E-06 ± 1.7E-05	U
	^{241}Pu	-7.0E-04 ± 7.3E-04	U
	^{103}Ru	1.5E-05 ± 6.3E-05	U
	^{106}Ru	4.2E-04 ± 5.9E-04	U
	^{125}Sb	-4.4E-05 ± 1.4E-04	U
	^{113}Sn	1.5E-05 ± 6.6E-05	U
	^{90}Sr	1.4E-05 ± 1.4E-04	U
	^{234}U	2.2E-05 ± 1.1E-05	
	^{235}U	7.0E-07 ± 7.0E-06	U
	^{238}U	7.0E-06 ± 5.1E-06	
	^{65}Zn	1.2E-04 ± 1.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N401 (100-K) Composite Period 06/21/04 to 12/21/04	^{60}Co	-2.0E-05 ± 7.8E-05	U
	^{134}Cs	-1.8E-05 ± 7.2E-05	U
	^{137}Cs	-3.1E-05 ± 6.8E-05	U
	^{152}Eu	-7.4E-05 ± 1.7E-04	U
	^{154}Eu	-4.7E-05 ± 2.1E-04	U
	^{155}Eu	-2.4E-04 ± 2.5E-04	U
	^{238}Pu	-2.0E-05 ± 3.0E-05	U
	$^{239/240}$Pu	1.0E-05 ± 1.4E-05	U
	^{241}Pu	1.4E-03 ± 7.9E-04	
	^{103}Ru	-3.6E-05 ± 6.2E-05	U
	^{106}Ru	-1.3E-04 ± 5.4E-04	U
	^{125}Sb	2.0E-05 ± 1.6E-04	U
	^{113}Sn	1.9E-05 ± 7.2E-05	U
	^{90}Sr	4.4E-05 ± 8.4E-05	U
	^{234}U	1.5E-05 ± 9.0E-06	
	^{235}U	3.4E-06 ± 3.5E-06	
	^{238}U	7.0E-06 ± 5.4E-06	
	^{65}Zn	-1.7E-04 ± 1.7E-04	U
N402 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	3.6E-05 ± 1.9E-05	
	^{144}Ce	-1.4E-04 ± 6.1E-04	U
	^{60}Co	-3.0E-05 ± 8.4E-05	U
	^{134}Cs	6.0E-05 ± 7.2E-05	U
	^{137}Cs	1.2E-04 ± 8.8E-05	
	^{152}Eu	-9.7E-06 ± 9.7E-05	U
	^{154}Eu	-4.3E-06 ± 4.3E-05	U
	^{155}Eu	4.0E-05 ± 1.7E-04	U
	^{238}Pu	-3.1E-06 ± 2.4E-05	U
	$^{239/240}$Pu	4.1E-05 ± 2.4E-05	
	^{241}Pu	1.3E-03 ± 7.4E-04	
	^{103}Ru	3.4E-06 ± 3.4E-05	U
	^{106}Ru	-1.6E-04 ± 5.9E-04	U
	^{125}Sb	1.1E-04 ± 1.5E-04	U
	^{113}Sn	-1.8E-05 ± 7.0E-05	U
	^{90}Sr	-4.3E-05 ± 7.1E-05	U
	^{234}U	9.3E-06 ± 6.6E-06	
	^{235}U	3.2E-06 ± 3.3E-06	
	^{238}U	6.6E-06 ± 5.0E-06	
	^{65}Zn	-4.3E-05 ± 1.8E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N402 (100-K) Composite Period 12/22/03 to 06/21/04	^{60}Co	4.7E-05 ± 1.2E-04	U
	^{134}Cs	-6.4E-05 ± 9.8E-05	U
	^{137}Cs	3.9E-05 ± 9.1E-05	U
	^{152}Eu	2.1E-04 ± 2.7E-04	U
	^{154}Eu	2.6E-04 ± 3.2E-04	U
	^{155}Eu	-9.2E-07 ± 9.2E-06	U
	^{238}Pu	-1.7E-06 ± 1.7E-05	U
	$^{239/240}$Pu	8.5E-06 ± 9.7E-06	U
	^{241}Pu	-1.4E-03 ± 1.4E-02	U
	^{103}Ru	-5.7E-05 ± 9.9E-05	U
	^{106}Ru	-3.7E-04 ± 8.3E-04	U
	^{125}Sb	1.7E-04 ± 2.2E-04	U
	^{113}Sn	-2.4E-05 ± 1.0E-04	U
	^{90}Sr	-1.4E-04 ± 2.0E-04	U
	^{234}U	2.9E-06 ± 4.2E-06	U
	^{235}U	7.8E-07 ± 1.6E-06	U
	^{238}U	5.8E-06 ± 4.7E-06	
	^{65}Zn	-1.6E-04 ± 2.1E-04	U
N403 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	4.0E-06 ± 7.8E-06	U
	^{144}Ce	-1.2E-04 ± 6.2E-04	U
	^{60}Co	7.0E-05 ± 8.3E-05	U
	^{134}Cs	-4.1E-06 ± 4.1E-05	U
	^{137}Cs	3.4E-05 ± 6.6E-05	U
	^{152}Eu	2.2E-05 ± 1.6E-04	U
	^{154}Eu	7.2E-05 ± 2.1E-04	U
	^{155}Eu	-3.4E-05 ± 1.7E-04	U
	^{238}Pu	3.1E-06 ± 2.6E-05	U
	$^{239/240}$Pu	1.2E-05 ± 1.0E-05	
	^{241}Pu	-1.2E-05 ± 1.2E-04	U
	^{103}Ru	-7.3E-05 ± 7.6E-05	U
	^{106}Ru	-3.8E-04 ± 6.3E-04	U
	^{125}Sb	-8.6E-05 ± 1.5E-04	U
	^{113}Sn	-8.9E-06 ± 7.0E-05	U
	^{90}Sr	6.3E-05 ± 2.0E-04	U
	^{234}U	1.2E-05 ± 7.4E-06	
	^{235}U	2.1E-06 ± 2.6E-06	
	^{238}U	7.7E-06 ± 5.6E-06	
	^{65}Zn	1.8E-04 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N403 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	2.6E-05 ± 1.8E-05	
	^{144}Ce	-1.8E-04 ± 5.0E-04	U
	^{60}Co	-1.2E-05 ± 8.7E-05	U
	^{134}Cs	1.3E-05 ± 6.9E-05	U
	^{137}Cs	1.4E-04 ± 1.3E-04	
	^{152}Eu	-1.2E-05 ± 1.2E-04	U
	^{154}Eu	2.3E-05 ± 2.2E-04	U
	^{155}Eu	7.2E-05 ± 1.4E-04	U
	^{238}Pu	1.1E-05 ± 3.1E-05	U
	$^{239/240}$Pu	2.9E-05 ± 1.9E-05	
	^{241}Pu	7.9E-04 ± 7.8E-04	U
	^{103}Ru	1.1E-05 ± 5.6E-05	U
	^{106}Ru	-3.6E-04 ± 5.7E-04	U
	^{125}Sb	3.1E-05 ± 1.3E-04	U
	^{113}Sn	-2.8E-05 ± 6.7E-05	U
	^{90}Sr	-7.2E-05 ± 8.1E-05	U
	^{234}U	1.8E-05 ± 9.9E-06	
	^{235}U	4.1E-06 ± 4.0E-06	
	^{238}U	1.7E-05 ± 9.7E-06	
	^{65}Zn	-2.9E-05 ± 1.6E-04	U
N404 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	9.4E-06 ± 1.5E-05	U
	^{144}Ce	3.5E-04 ± 8.6E-04	U
	^{60}Co	5.2E-05 ± 1.2E-04	U
	^{134}Cs	2.0E-05 ± 1.2E-04	U
	^{137}Cs	4.6E-05 ± 1.1E-04	U
	^{152}Eu	1.7E-04 ± 2.6E-04	U
	^{154}Eu	3.4E-05 ± 3.0E-04	U
	^{155}Eu	-6.3E-05 ± 1.9E-04	U
	^{238}Pu	-1.7E-06 ± 1.7E-05	U
	$^{239/240}$Pu	1.6E-05 ± 1.6E-05	U
	^{241}Pu	1.2E-03 ± 8.8E-04	
	^{103}Ru	-4.0E-05 ± 1.1E-04	U
	^{106}Ru	4.0E-04 ± 8.9E-04	U
	^{125}Sb	2.7E-05 ± 2.5E-04	U
	^{113}Sn	-8.8E-05 ± 1.3E-04	U
	^{90}Sr	3.1E-05 ± 7.6E-05	U
	^{234}U	1.3E-05 ± 9.0E-06	
	^{235}U	1.7E-06 ± 2.5E-06	U
	^{238}U	1.1E-05 ± 7.8E-06	
	^{65}Zn	-3.2E-04 ± 3.3E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N404 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	1.0E-05 ± 7.2E-06	
	^{144}Ce	-2.2E-04 ± 8.9E-04	U
	^{60}Co	1.4E-06 ± 1.4E-05	U
	^{134}Cs	5.5E-05 ± 1.4E-04	U
	^{137}Cs	6.1E-05 ± 1.2E-04	U
	^{152}Eu	-1.8E-04 ± 2.6E-04	U
	^{154}Eu	9.0E-05 ± 3.9E-04	U
	^{155}Eu	1.1E-05 ± 1.1E-04	U
	^{238}Pu	-1.2E-05 ± 3.6E-05	U
	$^{239/240}$Pu	4.2E-06 ± 1.1E-05	U
	^{241}Pu	-1.1E-03 ± 1.2E-03	U
	^{103}Ru	-3.0E-05 ± 1.2E-04	U
	^{106}Ru	2.8E-04 ± 9.7E-04	U
	^{125}Sb	1.0E-04 ± 2.7E-04	U
	^{113}Sn	-1.3E-04 ± 1.4E-04	U
	^{90}Sr	-8.8E-05 ± 2.4E-04	U
	^{234}U	1.1E-05 ± 7.8E-06	
	^{235}U	3.3E-06 ± 4.1E-06	U
	^{238}U	7.6E-06 ± 5.5E-06	
	^{65}Zn	-4.0E-04 ± 4.2E-04	U
N476 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	1.3E-05 ± 9.2E-06	
	^{144}Ce	1.1E-04 ± 5.5E-04	U
	^{60}Co	2.3E-06 ± 2.4E-05	U
	^{134}Cs	1.6E-05 ± 6.3E-05	U
	^{137}Cs	1.5E-05 ± 5.7E-05	U
	^{152}Eu	3.9E-05 ± 1.3E-04	U
	^{154}Eu	-1.4E-04 ± 2.0E-04	U
	^{155}Eu	9.6E-05 ± 1.4E-04	U
	^{238}Pu	7.5E-06 ± 2.1E-05	U
	$^{239/240}$Pu	7.5E-06 ± 7.3E-06	
	^{241}Pu	-1.0E-03 ± 1.0E-02	U
	^{103}Ru	-2.4E-05 ± 7.7E-05	U
	^{106}Ru	3.8E-04 ± 5.4E-04	U
	^{125}Sb	-6.6E-05 ± 1.3E-04	U
	^{113}Sn	-7.4E-06 ± 6.4E-05	U
	^{90}Sr	-5.5E-05 ± 1.1E-04	U
	^{234}U	8.2E-06 ± 5.7E-06	
	^{235}U	1.3E-06 ± 2.6E-06	U
	^{238}U	8.2E-06 ± 5.9E-06	
	^{65}Zn	5.9E-05 ± 1.6E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N476 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	3.4E-06 ± 9.5E-06	U
	^{144}Ce	7.6E-04 ± 6.9E-04	U
	^{60}Co	3.6E-05 ± 1.1E-04	U
	^{134}Cs	-4.1E-05 ± 7.0E-05	U
	^{137}Cs	8.6E-05 ± 7.1E-05	U
	^{152}Eu	-1.1E-04 ± 1.6E-04	U
	^{154}Eu	3.3E-05 ± 2.3E-04	U
	^{155}Eu	7.3E-06 ± 7.3E-05	U
	^{238}Pu	5.8E-06 ± 2.6E-05	U
	$^{239/240}$Pu	4.4E-06 ± 8.0E-06	U
	^{241}Pu	1.3E-03 ± 7.4E-04	
	^{103}Ru	1.4E-05 ± 7.7E-05	U
	^{106}Ru	-5.6E-05 ± 5.6E-04	U
	^{125}Sb	5.9E-06 ± 5.9E-05	U
	^{113}Sn	-4.4E-05 ± 7.5E-05	U
	^{90}Sr	-1.4E-04 ± 1.5E-04	U
	^{234}U	1.2E-05 ± 7.6E-06	
	^{235}U	7.9E-07 ± 3.6E-06	U
	^{238}U	1.3E-05 ± 7.6E-06	
	^{65}Zn	-1.9E-04 ± 2.0E-04	U
N477 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	9.9E-06 ± 1.1E-05	U
	^{144}Ce	1.2E-04 ± 5.3E-04	U
	^{60}Co	-5.0E-06 ± 5.0E-05	U
	^{134}Cs	9.9E-07 ± 9.9E-06	U
	^{137}Cs	-4.7E-07 ± 4.7E-06	U
	^{152}Eu	-3.8E-06 ± 3.8E-05	U
	^{154}Eu	-1.1E-04 ± 2.1E-04	U
	^{155}Eu	-2.5E-05 ± 1.4E-04	U
	^{238}Pu	-1.1E-05 ± 2.7E-05	U
	$^{239/240}$Pu	1.5E-06 ± 1.2E-05	U
	^{241}Pu	1.1E-03 ± 7.5E-04	
	^{103}Ru	3.6E-05 ± 7.1E-05	U
	^{106}Ru	-2.2E-04 ± 5.7E-04	U
	^{125}Sb	3.3E-05 ± 1.4E-04	U
	^{113}Sn	-3.5E-05 ± 7.1E-05	U
	^{90}Sr	4.7E-07 ± 4.7E-06	U
	^{234}U	8.5E-06 ± 6.1E-06	
	^{235}U	2.6E-06 ± 3.1E-06	
	^{238}U	1.3E-05 ± 7.8E-06	
	^{65}Zn	-1.2E-04 ± 1.8E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N477 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	6.7E-06 ± 5.8E-06	
	^{144}Ce	-3.4E-04 ± 6.9E-04	U
	^{60}Co	8.3E-06 ± 7.2E-05	U
	^{134}Cs	-4.4E-05 ± 6.6E-05	U
	^{137}Cs	1.6E-05 ± 5.5E-05	U
	^{152}Eu	-7.6E-05 ± 1.9E-04	U
	^{154}Eu	-1.7E-04 ± 2.0E-04	U
	^{155}Eu	-1.7E-06 ± 1.7E-05	U
	^{238}Pu	-6.8E-06 ± 2.1E-05	U
	$^{239/240}$Pu	8.3E-06 ± 9.4E-06	U
	^{241}Pu	-1.3E-03 ± 1.3E-02	U
	^{103}Ru	-4.6E-06 ± 4.6E-05	U
	^{106}Ru	8.3E-05 ± 5.3E-04	U
	^{125}Sb	3.0E-05 ± 1.4E-04	U
	^{113}Sn	7.0E-05 ± 7.8E-05	U
	^{90}Sr	-1.7E-04 ± 1.8E-04	U
	^{234}U	9.6E-06 ± 6.7E-06	
	^{235}U	3.3E-06 ± 3.2E-06	
	^{238}U	8.3E-06 ± 6.2E-06	
	^{65}Zn	-4.8E-05 ± 1.7E-04	U
N478 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	9.1E-06 ± 7.5E-06	
	^{144}Ce	-5.0E-05 ± 5.0E-04	U
	^{60}Co	-8.5E-05 ± 9.3E-05	U
	^{134}Cs	4.8E-05 ± 1.0E-04	U
	^{137}Cs	-1.5E-05 ± 9.4E-05	U
	^{152}Eu	-1.6E-04 ± 2.1E-04	U
	^{154}Eu	-1.1E-04 ± 2.6E-04	U
	^{155}Eu	-1.9E-05 ± 1.5E-04	U
	^{238}Pu	1.7E-05 ± 3.1E-05	U
	$^{239/240}$Pu	3.4E-06 ± 6.8E-06	U
	^{241}Pu	-9.8E-04 ± 9.8E-03	U
	^{103}Ru	1.5E-04 ± 1.6E-04	U
	^{106}Ru	2.8E-04 ± 8.2E-04	U
	^{125}Sb	1.4E-06 ± 1.4E-05	U
	^{113}Sn	-7.3E-05 ± 1.1E-04	U
	^{90}Sr	-4.2E-05 ± 1.7E-04	U
	^{234}U	1.0E-05 ± 6.9E-06	
	^{235}U	4.1E-06 ± 3.7E-06	
	^{238}U	9.1E-06 ± 5.9E-06	
	^{65}Zn	-2.3E-04 ± 2.4E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N478 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	6.7E-06 ± 1.3E-05	U
	^{144}Ce	-2.1E-04 ± 6.7E-04	U
	^{60}Co	1.2E-04 ± 8.5E-05	U
	^{134}Cs	6.5E-05 ± 8.2E-05	U
	^{137}Cs	-1.7E-05 ± 6.1E-05	U
	^{152}Eu	-1.2E-04 ± 1.6E-04	U
	^{154}Eu	1.6E-04 ± 2.2E-04	U
	^{155}Eu	3.5E-05 ± 1.8E-04	U
	^{238}Pu	-1.6E-06 ± 1.6E-05	U
	$^{239/240}$Pu	1.6E-06 ± 5.5E-06	U
	^{241}Pu	1.7E-03 ± 8.3E-04	
	^{103}Ru	-5.7E-05 ± 8.1E-05	U
	^{106}Ru	-1.1E-04 ± 5.8E-04	U
	^{125}Sb	-3.3E-06 ± 3.3E-05	U
	^{113}Sn	-1.4E-05 ± 7.5E-05	U
	^{90}Sr	-5.0E-05 ± 6.7E-05	U
	^{234}U	9.3E-06 ± 7.1E-06	
	^{235}U	3.4E-06 ± 3.5E-06	
	^{238}U	6.1E-06 ± 5.8E-06	U
	^{65}Zn	-5.4E-06 ± 5.4E-05	U
N479 (100-K) Composite Period 06/21/04 to 12/21/04	^{241}Am	-5.0E-06 ± 1.3E-05	U
	^{144}Ce	2.5E-04 ± 7.8E-04	U
	^{60}Co	7.4E-06 ± 7.4E-05	U
	^{134}Cs	-3.9E-05 ± 1.1E-04	U
	^{137}Cs	4.7E-05 ± 9.9E-05	U
	^{152}Eu	5.0E-05 ± 2.3E-04	U
	^{154}Eu	1.4E-04 ± 3.0E-04	U
	^{155}Eu	6.3E-05 ± 1.7E-04	U
	^{238}Pu	-6.7E-06 ± 2.3E-05	U
	$^{239/240}$Pu	4.0E-06 ± 6.1E-06	U
	^{241}Pu	1.6E-03 ± 7.9E-04	
	^{103}Ru	-3.9E-05 ± 1.2E-04	U
	^{106}Ru	2.9E-04 ± 8.0E-04	U
	^{125}Sb	-2.4E-04 ± 2.5E-04	U
	^{113}Sn	6.2E-05 ± 1.1E-04	U
	^{90}Sr	7.0E-05 ± 7.4E-05	U
	^{234}U	5.0E-06 ± 5.1E-06	U
	^{235}U	7.7E-07 ± 1.6E-06	U
	^{238}U	8.4E-06 ± 6.4E-06	
	^{65}Zn	2.5E-05 ± 2.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N479 (100-K) Composite Period 12/22/03 to 06/21/04	^{241}Am	3.9E-06 ± 1.0E-05	U
	^{144}Ce	-1.2E-04 ± 5.7E-04	U
	^{60}Co	3.8E-05 ± 7.5E-05	U
	^{134}Cs	-5.0E-05 ± 6.3E-05	U
	^{137}Cs	5.7E-05 ± 6.3E-05	U
	^{152}Eu	9.0E-05 ± 1.4E-04	U
	^{154}Eu	7.9E-05 ± 2.0E-04	U
	^{155}Eu	1.0E-04 ± 1.5E-04	U
	^{238}Pu	-3.0E-06 ± 2.6E-05	U
	$^{239/240}$Pu	1.5E-06 ± 1.5E-05	U
	^{241}Pu	-5.1E-04 ± 5.3E-04	U
	^{103}Ru	1.3E-05 ± 7.1E-05	U
	^{106}Ru	-3.6E-04 ± 5.4E-04	U
	^{125}Sb	3.5E-05 ± 1.3E-04	U
	^{113}Sn	-4.4E-05 ± 6.9E-05	U
	^{90}Sr	-2.1E-04 ± 2.2E-04	U
	^{234}U	6.0E-06 ± 5.0E-06	
	^{235}U	2.6E-06 ± 2.7E-06	
	^{238}U	1.0E-05 ± 6.4E-06	
	^{65}Zn	-1.2E-04 ± 1.8E-04	U
N528 (100-K) Composite Period 12/22/03 to 06/21/04	^{144}Ce	6.6E-04 ± 6.2E-04	U
	^{60}Co	4.9E-05 ± 8.5E-05	U
	^{134}Cs	7.5E-06 ± 6.7E-05	U
	^{137}Cs	-6.7E-05 ± 7.0E-05	U
	^{152}Eu	-2.1E-07 ± 2.1E-06	U
	^{154}Eu	2.2E-04 ± 2.5E-04	U
	^{155}Eu	-8.2E-05 ± 1.5E-04	U
	^{238}Pu	-1.4E-06 ± 1.3E-05	U
	$^{239/240}$Pu	4.1E-06 ± 6.2E-06	U
	^{103}Ru	5.5E-05 ± 7.6E-05	U
	^{106}Ru	1.5E-04 ± 5.8E-04	U
	^{125}Sb	1.9E-05 ± 1.3E-04	U
	^{113}Sn	8.4E-08 ± 8.4E-07	U
	^{90}Sr	-1.0E-04 ± 1.0E-04	U
	^{234}U	1.2E-05 ± 8.7E-06	
	^{235}U	2.4E-06 ± 3.5E-06	U
	^{238}U	7.9E-06 ± 8.9E-06	U
	^{65}Zn	5.1E-05 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N528 (100-K) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-6.6E-04 ± 7.2E-04	U
	^{60}Co	-5.3E-05 ± 7.7E-05	U
	^{134}Cs	-3.6E-05 ± 6.6E-05	U
	^{137}Cs	-2.6E-07 ± 2.6E-06	U
	^{152}Eu	4.5E-05 ± 1.7E-04	U
	^{154}Eu	2.5E-06 ± 2.5E-05	U
	^{155}Eu	-1.4E-04 ± 1.9E-04	U
	^{238}Pu	6.8E-07 ± 6.8E-06	U
	$^{239/240}$Pu	6.8E-07 ± 3.1E-06	U
	^{103}Ru	2.8E-05 ± 7.3E-05	U
	^{106}Ru	4.6E-04 ± 6.2E-04	U
	^{125}Sb	-1.8E-05 ± 1.6E-04	U
	^{113}Sn	-3.6E-05 ± 7.8E-05	U
	^{90}Sr	-1.3E-04 ± 1.3E-04	U
	^{234}U	8.5E-06 ± 5.7E-06	
	^{235}U	-6.8E-07 ± 6.8E-06	U
	^{238}U	1.1E-05 ± 6.7E-06	
	^{65}Zn	1.1E-04 ± 1.5E-04	U
N529 (100-K) Composite Period 06/21/04 to 12/21/04	^{144}Ce	4.8E-04 ± 6.9E-04	U
	^{60}Co	-1.6E-05 ± 1.1E-04	U
	^{134}Cs	-5.1E-05 ± 7.7E-05	U
	^{137}Cs	7.4E-05 ± 7.8E-05	U
	^{152}Eu	-1.4E-04 ± 1.7E-04	U
	^{154}Eu	9.1E-05 ± 2.3E-04	U
	^{155}Eu	-8.2E-05 ± 1.7E-04	U
	^{238}Pu	-6.8E-06 ± 1.3E-05	U
	$^{239/240}$Pu	6.1E-06 ± 5.7E-06	U
	^{103}Ru	-2.2E-05 ± 7.9E-05	U
	^{106}Ru	2.6E-04 ± 6.3E-04	U
	^{125}Sb	2.5E-04 ± 1.7E-04	U
	^{113}Sn	2.4E-05 ± 7.3E-05	U
	^{90}Sr	-9.9E-05 ± 1.0E-04	U
	^{234}U	1.5E-05 ± 8.9E-06	
	^{235}U	2.2E-06 ± 2.7E-06	
	^{238}U	1.5E-05 ± 8.7E-06	
	^{65}Zn	1.5E-04 ± 1.9E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N529 (100-K) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-6.1E-04 ± 7.2E-04	U
	^{60}Co	-6.7E-05 ± 7.3E-05	U
	^{134}Cs	-4.2E-06 ± 4.2E-05	U
	^{137}Cs	5.7E-05 ± 6.3E-05	U
	^{152}Eu	-1.1E-04 ± 1.6E-04	U
	^{154}Eu	9.4E-05 ± 2.3E-04	U
	^{155}Eu	-3.5E-05 ± 1.8E-04	U
	^{238}Pu	-4.3E-06 ± 1.3E-05	U
	$^{239/240}$Pu	1.7E-06 ± 2.5E-06	U
	^{103}Ru	-2.0E-06 ± 2.0E-05	U
	^{106}Ru	1.8E-04 ± 5.8E-04	U
	^{125}Sb	-3.9E-05 ± 1.8E-04	U
	^{113}Sn	-3.9E-05 ± 7.6E-05	U
	^{90}Sr	3.5E-05 ± 9.2E-05	U
	^{234}U	1.1E-05 ± 7.5E-06	
	^{235}U	7.7E-07 ± 1.5E-06	U
	^{238}U	5.6E-06 ± 5.6E-06	U
	^{65}Zn	-8.4E-05 ± 1.6E-04	U
N530 (100-K) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-3.1E-04 ± 7.9E-04	U
	^{60}Co	4.4E-05 ± 9.9E-05	U
	^{134}Cs	8.8E-05 ± 1.1E-04	U
	^{137}Cs	2.6E-05 ± 9.8E-05	U
	^{152}Eu	2.5E-05 ± 2.1E-04	U
	^{154}Eu	-5.7E-05 ± 2.8E-04	U
	^{155}Eu	3.8E-05 ± 1.5E-04	U
	^{238}Pu	-8.7E-07 ± 8.7E-06	U
	$^{239/240}$Pu	8.7E-07 ± 3.9E-06	U
	^{103}Ru	9.4E-05 ± 1.2E-04	U
	^{106}Ru	-3.3E-04 ± 8.0E-04	U
	^{125}Sb	1.2E-04 ± 2.2E-04	U
	^{113}Sn	-3.7E-05 ± 1.1E-04	U
	^{90}Sr	-1.4E-04 ± 1.4E-04	U
	^{234}U	1.5E-05 ± 9.3E-06	
	^{235}U	3.4E-06 ± 3.5E-06	
	^{238}U	9.4E-06 ± 6.8E-06	
	^{65}Zn	-1.6E-04 ± 2.3E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N530 (100-K)	^{144}Ce	-2.8E-04 ± 5.5E-04	U
Composite Period	^{60}Co	4.5E-05 ± 8.5E-05	U
06/21/04 to 12/21/04	^{134}Cs	-5.5E-06 ± 5.5E-05	U
	^{137}Cs	3.0E-05 ± 6.3E-05	U
	^{152}Eu	-5.8E-05 ± 1.3E-04	U
	^{154}Eu	3.5E-05 ± 2.3E-04	U
	^{155}Eu	-7.8E-05 ± 1.3E-04	U
	^{238}Pu	-9.8E-06 ± 1.5E-05	U
	$^{239/240}$Pu	6.7E-06 ± 5.4E-06	
	^{103}Ru	2.4E-05 ± 6.8E-05	U
	^{106}Ru	-4.5E-04 ± 6.2E-04	U
	^{125}Sb	1.3E-04 ± 1.4E-04	U
	^{113}Sn	6.5E-07 ± 6.5E-06	U
	^{90}Sr	3.5E-06 ± 3.5E-05	U
	^{234}U	1.0E-05 ± 7.2E-06	
	^{235}U	4.2E-06 ± 4.1E-06	
	^{238}U	9.1E-06 ± 6.3E-06	
	^{65}Zn	-2.0E-04 ± 2.1E-04	U
N102 (100-N)	^{144}Ce	-4.4E-04 ± 6.3E-04	U
Composite Period	^{60}Co	1.8E-04 ± 1.0E-04	
06/22/04 to 12/22/04	^{134}Cs	1.4E-05 ± 7.1E-05	U
	^{137}Cs	1.8E-04 ± 1.1E-04	
	^{152}Eu	-1.6E-04 ± 1.7E-04	U
	^{154}Eu	7.6E-05 ± 2.2E-04	U
	^{155}Eu	-5.2E-05 ± 1.6E-04	U
	^{238}Pu	-2.0E-05 ± 2.1E-05	U
	$^{239/240}$Pu	7.2E-06 ± 5.9E-06	
	^{103}Ru	4.5E-05 ± 6.6E-05	U
	^{106}Ru	4.8E-04 ± 6.6E-04	U
	^{125}Sb	2.1E-05 ± 1.4E-04	U
	^{113}Sn	-3.1E-06 ± 3.1E-05	U
	^{90}Sr	-2.9E-05 ± 6.6E-05	U
	^{234}U	1.8E-05 ± 1.0E-05	
	^{235}U	8.1E-07 ± 1.6E-06	U
	^{238}U	1.5E-05 ± 9.5E-06	
	^{65}Zn	-9.2E-06 ± 9.2E-05	U

Location	Isotope	Result ± Uncertainty	RQ*
N102 (100-N)	^{144}Ce	-3.9E-04 ± 6.4E-04	U
Composite Period	^{60}Co	2.0E-04 ± 1.1E-04	
12/22/03 to 06/22/04	^{134}Cs	-4.8E-05 ± 7.7E-05	U
	^{137}Cs	2.9E-05 ± 6.9E-05	U
	^{152}Eu	-1.2E-04 ± 1.6E-04	U
	^{154}Eu	-4.9E-06 ± 4.9E-05	U
	^{155}Eu	1.9E-05 ± 1.6E-04	U
	^{238}Pu	1.0E-05 ± 1.6E-05	U
	$^{239/240}$Pu	3.5E-06 ± 5.1E-06	U
	^{103}Ru	-3.7E-05 ± 8.6E-05	U
	^{106}Ru	1.9E-04 ± 6.1E-04	U
	^{125}Sb	-2.1E-05 ± 1.4E-04	U
	^{113}Sn	-4.0E-05 ± 7.7E-05	U
	^{90}Sr	2.8E-05 ± 8.7E-05	U
	^{234}U	8.3E-06 ± 6.0E-06	
	^{235}U	3.3E-06 ± 3.5E-06	
	^{238}U	7.7E-06 ± 6.4E-06	
	^{65}Zn	3.2E-04 ± 2.5E-04	
N103 (100-N)	^{144}Ce	4.3E-04 ± 7.4E-04	U
Composite Period	^{60}Co	9.9E-05 ± 7.4E-05	U
12/22/03 to 06/22/04	^{134}Cs	2.3E-05 ± 6.6E-05	U
	^{137}Cs	5.7E-06 ± 5.7E-05	U
	^{152}Eu	-5.3E-06 ± 5.3E-05	U
	^{154}Eu	-6.9E-05 ± 2.0E-04	U
	^{155}Eu	-8.6E-05 ± 1.8E-04	U
	^{238}Pu	5.2E-06 ± 1.4E-05	U
	$^{239/240}$Pu	6.9E-06 ± 5.6E-06	
	^{103}Ru	-4.4E-05 ± 7.9E-05	U
	^{106}Ru	1.5E-04 ± 5.6E-04	U
	^{125}Sb	-5.3E-05 ± 1.4E-04	U
	^{113}Sn	-3.1E-05 ± 9.2E-05	U
	^{90}Sr	-5.6E-05 ± 8.6E-05	U
	^{234}U	1.5E-05 ± 9.5E-06	
	^{235}U	5.0E-06 ± 4.6E-06	
	^{238}U	1.0E-05 ± 7.2E-06	
	^{65}Zn	-3.1E-05 ± 1.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N103 (100-N) Composite Period 06/22/04 to 12/22/04	^{144}Ce	3.0E-04 ± 7.4E-04	U
	^{60}Co	5.8E-05 ± 7.4E-05	U
	^{134}Cs	6.4E-05 ± 8.1E-05	U
	^{137}Cs	2.6E-05 ± 6.3E-05	U
	^{152}Eu	-1.5E-04 ± 1.7E-04	U
	^{154}Eu	-5.0E-05 ± 2.0E-04	U
	^{155}Eu	8.3E-05 ± 1.9E-04	U
	^{238}Pu	-5.0E-06 ± 1.3E-05	U
	$^{239/240}$Pu	3.5E-06 ± 5.1E-06	U
	^{103}Ru	6.3E-05 ± 7.8E-05	U
	^{106}Ru	-5.0E-04 ± 6.0E-04	U
	^{125}Sb	5.3E-05 ± 1.4E-04	U
	^{113}Sn	4.7E-05 ± 8.2E-05	U
	^{90}Sr	-1.5E-05 ± 1.0E-04	U
	^{234}U	1.6E-05 ± 1.0E-05	
	^{235}U	4.3E-06 ± 4.1E-06	
	^{238}U	1.5E-05 ± 9.2E-06	
	^{65}Zn	2.7E-06 ± 2.7E-05	U
N106 (100-N) Composite Period 06/22/04 to 12/22/04	^{144}Ce	-2.2E-04 ± 7.2E-04	U
	^{60}Co	8.8E-05 ± 8.7E-05	U
	^{134}Cs	1.9E-05 ± 8.4E-05	U
	^{137}Cs	1.7E-04 ± 1.1E-04	
	^{152}Eu	-1.0E-04 ± 1.7E-04	U
	^{154}Eu	-2.7E-05 ± 2.1E-04	U
	^{155}Eu	-1.1E-05 ± 1.1E-04	U
	^{238}Pu	-2.2E-06 ± 1.2E-05	U
	$^{239/240}$Pu	6.6E-06 ± 5.9E-06	U
	^{103}Ru	-3.4E-05 ± 8.0E-05	U
	^{106}Ru	-4.1E-04 ± 6.2E-04	U
	^{125}Sb	7.3E-06 ± 7.3E-05	U
	^{113}Sn	1.7E-05 ± 7.3E-05	U
	^{90}Sr	-8.9E-05 ± 9.2E-05	U
	^{234}U	1.5E-05 ± 8.9E-06	
	^{235}U	1.8E-06 ± 2.5E-06	U
	^{238}U	1.2E-05 ± 7.7E-06	
	^{65}Zn	-4.0E-05 ± 1.7E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N106 (100-N) Composite Period 12/22/03 to 06/22/04	^{144}Ce	-8.5E-05 ± 7.2E-04	U
	^{60}Co	4.6E-06 ± 4.7E-05	U
	^{134}Cs	3.5E-05 ± 9.2E-05	U
	^{137}Cs	1.6E-05 ± 8.4E-05	U
	^{152}Eu	-1.7E-04 ± 2.1E-04	U
	^{154}Eu	-2.8E-05 ± 2.7E-04	U
	^{155}Eu	1.1E-04 ± 1.6E-04	U
	^{238}Pu	6.3E-06 ± 1.6E-05	U
	$^{239/240}$Pu	4.2E-06 ± 6.0E-06	U
	^{103}Ru	-7.7E-07 ± 7.7E-06	U
	^{106}Ru	7.6E-04 ± 7.2E-04	U
	^{125}Sb	4.9E-05 ± 1.9E-04	U
	^{113}Sn	5.7E-05 ± 1.0E-04	U
	^{90}Sr	-1.4E-05 ± 9.4E-05	U
	^{234}U	1.6E-05 ± 1.1E-05	
	^{235}U	8.9E-07 ± 9.3E-07	U
	^{238}U	5.4E-06 ± 4.9E-06	
	^{65}Zn	-1.9E-04 ± 2.3E-04	U
N526 (100-N) Composite Period 12/22/03 to 06/22/04	^{144}Ce	1.7E-04 ± 6.9E-04	U
	^{60}Co	1.5E-04 ± 9.7E-05	U
	^{134}Cs	5.4E-05 ± 7.5E-05	U
	^{137}Cs	4.3E-04 ± 1.9E-04	
	^{152}Eu	4.0E-05 ± 1.5E-04	U
	^{154}Eu	1.3E-05 ± 1.3E-04	U
	^{155}Eu	6.7E-05 ± 1.8E-04	U
	^{238}Pu	-3.3E-06 ± 1.3E-05	U
	$^{239/240}$Pu	8.3E-06 ± 7.0E-06	
	^{103}Ru	2.6E-05 ± 8.1E-05	U
	^{106}Ru	-4.5E-04 ± 5.5E-04	U
	^{125}Sb	1.5E-05 ± 1.5E-04	U
	^{113}Sn	-4.7E-05 ± 8.2E-05	U
	^{90}Sr	-4.8E-05 ± 8.8E-05	U
	^{234}U	9.0E-06 ± 6.5E-06	
	^{235}U	-6.9E-07 ± 1.4E-06	U
	^{238}U	5.9E-06 ± 4.5E-06	
	^{65}Zn	-6.5E-05 ± 1.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N526 (100-N)	^{144}Ce	2.3E-04 ± 6.3E-04	U
Composite Period	^{60}Co	1.1E-04 ± 1.2E-04	U
06/22/04 to 12/22/04	^{134}Cs	-2.7E-05 ± 6.7E-05	U
	^{137}Cs	1.3E-03 ± 4.8E-04	
	^{152}Eu	-2.5E-05 ± 1.5E-04	U
	^{154}Eu	2.3E-04 ± 2.2E-04	U
	^{155}Eu	-1.2E-05 ± 1.2E-04	U
	^{238}Pu	5.6E-06 ± 1.2E-05	U
	$^{239/240}$Pu	9.7E-06 ± 6.3E-06	
	^{103}Ru	-6.5E-05 ± 8.1E-05	U
	^{106}Ru	7.0E-05 ± 5.9E-04	U
	^{125}Sb	7.8E-05 ± 1.5E-04	U
	^{113}Sn	-3.7E-05 ± 7.0E-05	U
	^{90}Sr	1.5E-05 ± 8.1E-05	U
	^{234}U	1.2E-05 ± 7.7E-06	
	^{235}U	3.4E-06 ± 3.5E-06	
	^{238}U	1.3E-05 ± 8.2E-06	
	^{65}Zn	1.7E-04 ± 1.8E-04	U
N482 (ERDF)	^{144}Ce	-2.1E-04 ± 6.7E-04	U
Composite Period	^{60}Co	6.2E-05 ± 1.0E-04	U
06/22/04 to 12/22/04	^{134}Cs	1.3E-04 ± 9.5E-05	U
	^{137}Cs	1.3E-05 ± 8.0E-05	U
	^{152}Eu	1.4E-06 ± 1.4E-05	U
	^{154}Eu	-1.3E-04 ± 2.6E-04	U
	^{155}Eu	-3.6E-05 ± 1.6E-04	U
	^{238}Pu	5.8E-06 ± 1.5E-05	U
	$^{239/240}$Pu	1.6E-06 ± 4.6E-06	U
	^{103}Ru	-2.6E-05 ± 8.7E-05	U
	^{106}Ru	-4.1E-04 ± 6.5E-04	U
	^{125}Sb	4.5E-05 ± 1.6E-04	U
	^{113}Sn	1.2E-05 ± 8.2E-05	U
	^{90}Sr	2.0E-06 ± 2.0E-05	U
	^{234}U	3.2E-05 ± 1.5E-05	
	^{235}U	3.3E-06 ± 3.4E-06	
	^{238}U	2.8E-05 ± 1.4E-05	
	^{65}Zn	2.1E-04 ± 2.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N482 (ERDF)	^{144}Ce	-2.5E-04 ± 7.8E-04	U
Composite Period	^{60}Co	-1.2E-04 ± 1.2E-04	U
12/22/03 to 06/22/04	^{134}Cs	-2.2E-05 ± 7.8E-05	U
	^{137}Cs	3.8E-05 ± 7.0E-05	U
	^{152}Eu	-1.3E-04 ± 2.0E-04	U
	^{154}Eu	-6.6E-05 ± 2.2E-04	U
	^{155}Eu	-5.5E-05 ± 1.9E-04	U
	^{238}Pu	8.4E-07 ± 8.7E-07	U
	$^{239/240}$Pu	8.4E-06 ± 6.6E-06	
	^{103}Ru	2.9E-05 ± 8.7E-05	U
	^{106}Ru	-9.5E-05 ± 6.4E-04	U
	^{125}Sb	-6.2E-05 ± 1.6E-04	U
	^{113}Sn	-4.9E-06 ± 4.9E-05	U
	^{90}Sr	-3.8E-05 ± 8.5E-05	U
	^{234}U	1.9E-05 ± 1.0E-05	
	^{235}U	1.5E-06 ± 2.2E-06	U
	^{238}U	2.0E-05 ± 1.0E-05	
	^{65}Zn	-1.2E-04 ± 1.8E-04	U
N517 (ERDF)	^{144}Ce	-4.6E-04 ± 6.9E-04	U
Composite Period	^{60}Co	2.6E-05 ± 9.1E-05	U
12/22/03 to 06/22/04	^{134}Cs	-1.5E-05 ± 8.8E-05	U
	^{137}Cs	5.6E-05 ± 7.4E-05	U
	^{152}Eu	-2.0E-05 ± 1.9E-04	U
	^{154}Eu	3.5E-05 ± 2.4E-04	U
	^{155}Eu	6.8E-05 ± 1.8E-04	U
	^{238}Pu	8.5E-07 ± 8.8E-07	U
	$^{239/240}$Pu	-2.4E-06 ± 3.6E-06	U
	^{103}Ru	2.7E-05 ± 9.0E-05	U
	^{106}Ru	-1.2E-04 ± 6.6E-04	U
	^{125}Sb	-8.5E-05 ± 1.6E-04	U
	^{113}Sn	-1.2E-05 ± 8.4E-05	U
	^{90}Sr	1.2E-04 ± 1.3E-04	U
	^{234}U	1.4E-05 ± 8.3E-06	
	^{235}U	7.3E-07 ± 1.5E-06	U
	^{238}U	1.5E-05 ± 8.6E-06	
	^{65}Zn	1.5E-04 ± 2.0E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N517 (ERDF)	^{144}Ce	-2.8E-04 ± 8.9E-04	U
Composite Period	^{60}Co	6.9E-05 ± 1.2E-04	U
06/22/04 to 12/22/04	^{134}Cs	-7.1E-06 ± 7.1E-05	U
	^{137}Cs	8.9E-06 ± 8.3E-05	U
	^{152}Eu	-3.6E-05 ± 2.4E-04	U
	^{154}Eu	-1.1E-04 ± 2.7E-04	U
	^{155}Eu	-6.9E-05 ± 2.1E-04	U
	^{238}Pu	2.6E-06 ± 1.7E-05	U
	$^{239/240}$Pu	5.1E-06 ± 6.8E-06	U
	^{103}Ru	-1.1E-05 ± 9.3E-05	U
	^{106}Ru	1.8E-04 ± 6.8E-04	U
	^{125}Sb	-1.1E-05 ± 1.1E-04	U
	^{113}Sn	-6.4E-05 ± 9.3E-05	U
	^{90}Sr	-1.4E-04 ± 1.4E-04	U
	^{234}U	4.8E-05 ± 2.2E-05	
	^{235}U	4.3E-06 ± 6.1E-06	U
	^{238}U	4.9E-05 ± 2.2E-05	
	^{65}Zn	-1.2E-04 ± 2.3E-04	U
N518 (ERDF)	^{144}Ce	6.0E-04 ± 8.1E-04	U
Composite Period	^{60}Co	-7.5E-06 ± 7.5E-05	U
06/22/04 to 12/22/04	^{134}Cs	1.8E-05 ± 1.1E-04	U
	^{137}Cs	5.6E-05 ± 9.9E-05	U
	^{152}Eu	-9.4E-07 ± 9.4E-06	U
	^{154}Eu	-2.6E-04 ± 3.1E-04	U
	^{155}Eu	3.6E-05 ± 1.7E-04	U
	^{238}Pu	-3.9E-06 ± 1.6E-05	U
	$^{239/240}$Pu	2.3E-06 ± 3.6E-06	U
	^{103}Ru	-1.0E-05 ± 1.0E-04	U
	^{106}Ru	4.1E-04 ± 8.1E-04	U
	^{125}Sb	-1.7E-04 ± 2.3E-04	U
	^{113}Sn	-4.8E-05 ± 1.1E-04	U
	^{90}Sr	-6.9E-06 ± 6.9E-05	U
	^{234}U	1.7E-05 ± 9.7E-06	
	^{235}U	7.6E-07 ± 1.5E-06	U
	^{238}U	1.3E-05 ± 7.7E-06	
	^{65}Zn	-1.8E-04 ± 2.7E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N518 (ERDF)	^{144}Ce	1.9E-04 ± 5.5E-04	U
Composite Period	^{60}Co	1.2E-05 ± 7.2E-05	U
12/22/03 to 06/22/04	^{134}Cs	2.2E-05 ± 6.8E-05	U
	^{137}Cs	1.5E-05 ± 5.6E-05	U
	^{152}Eu	-1.4E-04 ± 1.7E-04	U
	^{154}Eu	5.7E-06 ± 5.7E-05	U
	^{155}Eu	1.0E-05 ± 1.0E-04	U
	^{238}Pu	-2.9E-06 ± 1.1E-05	U
	$^{239/240}$Pu	5.8E-06 ± 5.4E-06	U
	^{103}Ru	8.1E-06 ± 7.6E-05	U
	^{106}Ru	4.4E-05 ± 4.4E-04	U
	^{125}Sb	-4.6E-05 ± 1.5E-04	U
	^{113}Sn	-1.0E-05 ± 7.1E-05	U
	^{90}Sr	-6.3E-05 ± 9.7E-05	U
	^{234}U	1.9E-05 ± 1.0E-05	
	^{235}U	1.3E-06 ± 1.9E-06	U
	^{238}U	2.0E-05 ± 1.0E-05	
	^{65}Zn	1.4E-04 ± 1.5E-04	U
N019 (200 EAST)	^{144}Ce	2.8E-05 ± 2.8E-04	U
Composite Period	^{60}Co	3.4E-06 ± 3.4E-05	U
12/22/03 to 06/21/04	^{134}Cs	9.8E-06 ± 6.7E-05	U
	^{137}Cs	3.4E-05 ± 6.2E-05	U
	^{152}Eu	1.0E-07 ± 1.1E-06	U
	^{154}Eu	-1.1E-04 ± 2.0E-04	U
	^{155}Eu	-1.3E-05 ± 1.3E-04	U
	^{238}Pu	-6.8E-06 ± 1.4E-05	U
	$^{239/240}$Pu	-8.5E-07 ± 3.0E-06	U
	^{103}Ru	-3.1E-06 ± 3.1E-05	U
	^{106}Ru	2.8E-04 ± 5.6E-04	U
	^{125}Sb	-1.5E-06 ± 1.6E-05	U
	^{113}Sn	-2.9E-05 ± 7.0E-05	U
	^{90}Sr	2.9E-05 ± 3.9E-05	U
	^{234}U	9.3E-06 ± 6.5E-06	
	^{235}U	3.2E-06 ± 3.3E-06	
	^{238}U	2.2E-06 ± 4.0E-06	U
	^{65}Zn	-7.6E-05 ± 1.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N019 (200 EAST)	^{144}Ce	-3.7E-04 ± 6.6E-04	U
Composite Period	^{60}Co	-1.7E-05 ± 7.9E-05	U
06/21/04 to 12/21/04	^{134}Cs	-2.7E-05 ± 7.5E-05	U
	^{137}Cs	-2.7E-05 ± 7.0E-05	U
	^{152}Eu	1.4E-04 ± 1.7E-04	U
	^{154}Eu	2.4E-05 ± 2.5E-04	U
	^{155}Eu	-4.4E-05 ± 1.6E-04	U
	^{238}Pu	9.1E-07 ± 9.1E-06	U
	$^{239/240}$Pu	9.1E-06 ± 8.8E-06	U
	^{103}Ru	-5.6E-06 ± 5.6E-05	U
	^{106}Ru	2.7E-04 ± 6.4E-04	U
	^{125}Sb	-1.7E-04 ± 1.7E-04	U
	^{113}Sn	2.6E-05 ± 7.1E-05	U
	^{90}Sr	1.3E-04 ± 1.2E-04	
	^{234}U	8.3E-06 ± 6.1E-06	
	^{235}U	4.6E-06 ± 4.5E-06	
	^{238}U	1.4E-05 ± 8.8E-06	
	^{65}Zn	-8.1E-05 ± 1.8E-04	U
N158 (200 EAST)	^{144}Ce	-3.6E-05 ± 3.6E-04	U
Composite Period	^{60}Co	-3.0E-05 ± 7.3E-05	U
06/21/04 to 12/21/04	^{134}Cs	-3.3E-05 ± 7.1E-05	U
	^{137}Cs	4.7E-05 ± 6.7E-05	U
	^{152}Eu	-1.9E-04 ± 2.0E-04	U
	^{154}Eu	-3.4E-05 ± 2.3E-04	U
	^{155}Eu	-2.0E-04 ± 2.0E-04	U
	^{238}Pu	3.0E-06 ± 1.0E-05	U
	$^{239/240}$Pu	3.0E-06 ± 4.2E-06	U
	^{103}Ru	4.1E-06 ± 4.1E-05	U
	^{106}Ru	2.1E-04 ± 5.5E-04	U
	^{125}Sb	-3.2E-05 ± 1.5E-04	U
	^{113}Sn	2.6E-05 ± 6.8E-05	U
	^{90}Sr	5.6E-05 ± 1.0E-04	U
	^{234}U	1.6E-05 ± 9.6E-06	
	^{235}U	6.8E-06 ± 5.5E-06	
	^{238}U	1.4E-05 ± 8.6E-06	
	^{65}Zn	-1.5E-05 ± 1.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N158 (200 EAST)	^{144}Ce	-3.0E-04 ± 6.4E-04	U
Composite Period	^{60}Co	-2.6E-05 ± 8.1E-05	U
12/22/03 to 06/21/04	^{134}Cs	3.6E-05 ± 6.8E-05	U
	^{137}Cs	6.7E-05 ± 8.0E-05	U
	^{152}Eu	-1.2E-04 ± 1.6E-04	U
	^{154}Eu	1.5E-04 ± 2.1E-04	U
	^{155}Eu	-8.4E-06 ± 8.4E-05	U
	^{238}Pu	-4.4E-06 ± 1.5E-05	U
	$^{239/240}$Pu	3.5E-06 ± 6.4E-06	U
	^{103}Ru	-4.4E-05 ± 6.5E-05	U
	^{106}Ru	-1.8E-04 ± 5.8E-04	U
	^{125}Sb	5.2E-05 ± 1.6E-04	U
	^{113}Sn	-3.9E-06 ± 3.9E-05	U
	^{90}Sr	-1.4E-05 ± 4.8E-05	U
	^{234}U	6.9E-06 ± 6.1E-06	U
	^{235}U	1.6E-06 ± 2.3E-06	U
	^{238}U	6.9E-06 ± 5.7E-06	
	^{65}Zn	5.2E-05 ± 1.5E-04	U
N480 (200 EAST)	^{241}Am	3.9E-06 ± 8.7E-06	U
Composite Period	^{144}Ce	4.3E-04 ± 6.3E-04	U
12/22/03 to 06/21/04	^{60}Co	-8.5E-06 ± 8.5E-05	U
	^{134}Cs	-1.7E-05 ± 7.5E-05	U
	^{137}Cs	-1.0E-05 ± 6.5E-05	U
	^{152}Eu	-4.4E-05 ± 1.5E-04	U
	^{154}Eu	-1.6E-04 ± 2.3E-04	U
	^{155}Eu	1.7E-05 ± 1.7E-04	U
	^{238}Pu	-3.1E-06 ± 2.6E-05	U
	$^{239/240}$Pu	1.5E-06 ± 1.5E-05	U
	^{241}Pu	-1.6E-03 ± 1.6E-02	U
	^{103}Ru	-2.2E-05 ± 7.7E-05	U
	^{106}Ru	3.4E-05 ± 3.4E-04	U
	^{125}Sb	-8.0E-05 ± 1.5E-04	U
	^{113}Sn	5.9E-05 ± 7.6E-05	U
	^{90}Sr	-7.0E-06 ± 7.0E-05	U
	^{234}U	1.7E-05 ± 9.4E-06	
	^{235}U	6.2E-07 ± 6.2E-06	U
	^{238}U	8.4E-06 ± 5.8E-06	
	^{65}Zn	4.9E-05 ± 1.9E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N480 (200 EAST) Composite Period 06/21/04 to 12/21/04	^{241}Am	5.6E-06 ± 1.3E-05	U
	^{144}Ce	-4.1E-04 ± 6.2E-04	U
	^{60}Co	-3.4E-05 ± 8.3E-05	U
	^{134}Cs	1.2E-05 ± 7.0E-05	U
	^{137}Cs	4.1E-06 ± 4.1E-05	U
	^{152}Eu	7.3E-05 ± 1.5E-04	U
	^{154}Eu	1.4E-04 ± 2.3E-04	U
	^{155}Eu	9.0E-05 ± 1.6E-04	U
	^{238}Pu	1.7E-06 ± 1.7E-05	U
	$^{239/240}$Pu	5.2E-06 ± 6.4E-06	
	^{241}Pu	1.7E-03 ± 8.7E-04	
	^{103}Ru	3.2E-05 ± 7.7E-05	U
	^{106}Ru	1.8E-05 ± 1.8E-04	U
	^{125}Sb	2.9E-06 ± 2.9E-05	U
	^{113}Sn	3.0E-05 ± 7.4E-05	U
	^{90}Sr	-6.3E-05 ± 7.8E-05	U
	^{234}U	1.3E-05 ± 8.4E-06	
	^{235}U	8.7E-07 ± 1.8E-06	U
	^{238}U	7.0E-06 ± 5.3E-06	
	^{65}Zn	-1.1E-04 ± 1.7E-04	U
N481 (200 EAST) Composite Period 06/21/04 to 12/21/04	^{241}Am	4.5E-06 ± 1.4E-05	U
	^{144}Ce	-1.2E-04 ± 8.0E-04	U
	^{60}Co	-2.7E-05 ± 1.2E-04	U
	^{134}Cs	1.8E-05 ± 9.2E-05	U
	^{137}Cs	-3.7E-05 ± 8.0E-05	U
	^{152}Eu	6.6E-05 ± 2.0E-04	U
	^{154}Eu	-2.8E-04 ± 3.0E-04	U
	^{155}Eu	-1.0E-04 ± 1.9E-04	U
	^{238}Pu	1.3E-06 ± 1.3E-05	U
	$^{239/240}$Pu	1.3E-05 ± 1.4E-05	U
	^{241}Pu	1.1E-03 ± 7.3E-04	
	^{103}Ru	-6.5E-05 ± 9.4E-05	U
	^{106}Ru	1.3E-04 ± 7.7E-04	U
	^{125}Sb	-2.1E-05 ± 1.9E-04	U
	^{113}Sn	-3.3E-05 ± 9.2E-05	U
	^{90}Sr	-6.7E-05 ± 7.3E-05	U
	^{234}U	8.9E-06 ± 6.1E-06	
	^{235}U	3.1E-06 ± 3.2E-06	
	^{238}U	7.2E-06 ± 5.7E-06	
	^{65}Zn	1.3E-04 ± 2.3E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N481 (200 EAST) Composite Period 12/22/03 to 06/21/04	^{241}Am	6.4E-06 ± 5.0E-06	
	^{144}Ce	-5.0E-04 ± 7.0E-04	U
	^{60}Co	3.7E-05 ± 7.3E-05	U
	^{134}Cs	-1.4E-05 ± 6.7E-05	U
	^{137}Cs	1.9E-05 ± 5.9E-05	U
	^{152}Eu	-5.5E-06 ± 5.6E-05	U
	^{154}Eu	-6.3E-05 ± 1.9E-04	U
	^{155}Eu	-4.0E-05 ± 1.8E-04	U
	^{238}Pu	-1.1E-05 ± 2.5E-05	U
	$^{239/240}$Pu	3.3E-06 ± 1.1E-05	U
	^{241}Pu	-1.0E-03 ± 1.1E-03	U
	^{103}Ru	4.6E-05 ± 8.3E-05	U
	^{106}Ru	-5.7E-05 ± 5.4E-04	U
	^{125}Sb	3.6E-05 ± 1.5E-04	U
	^{113}Sn	-3.9E-05 ± 7.5E-05	U
	^{90}Sr	-2.0E-04 ± 2.1E-04	U
	^{234}U	1.5E-05 ± 8.8E-06	
	^{235}U	1.4E-06 ± 2.0E-06	U
	^{238}U	7.0E-06 ± 5.0E-06	
	^{65}Zn	3.5E-05 ± 1.6E-04	U
N498 (200 EAST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	7.4E-05 ± 6.4E-04	U
	^{60}Co	1.9E-05 ± 8.5E-05	U
	^{134}Cs	3.7E-05 ± 7.1E-05	U
	^{137}Cs	7.2E-05 ± 8.3E-05	U
	^{152}Eu	-8.8E-05 ± 1.7E-04	U
	^{154}Eu	1.6E-04 ± 2.5E-04	U
	^{155}Eu	3.9E-05 ± 1.6E-04	U
	^{238}Pu	2.5E-06 ± 1.3E-05	U
	$^{239/240}$Pu	5.9E-06 ± 6.7E-06	U
	^{103}Ru	-5.7E-05 ± 8.6E-05	U
	^{106}Ru	-9.0E-05 ± 6.1E-04	U
	^{125}Sb	1.9E-05 ± 1.5E-04	U
	^{113}Sn	-1.9E-05 ± 7.7E-05	U
	^{90}Sr	-2.2E-05 ± 7.4E-05	U
	^{234}U	1.2E-05 ± 7.9E-06	
	^{235}U	2.2E-06 ± 3.3E-06	U
	^{238}U	9.4E-06 ± 6.7E-06	
	^{65}Zn	-1.0E-04 ± 1.6E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N498 (200 EAST)	^{144}Ce	1.4E-04 ± 5.3E-04	U
Composite Period	^{60}Co	-5.4E-06 ± 5.4E-05	U
06/21/04 to 12/21/04	^{134}Cs	-1.9E-05 ± 7.1E-05	U
	^{137}Cs	4.5E-05 ± 6.7E-05	U
	^{152}Eu	1.9E-04 ± 1.8E-04	U
	^{154}Eu	-1.5E-04 ± 2.4E-04	U
	^{155}Eu	1.0E-04 ± 1.6E-04	U
	^{238}Pu	8.8E-06 ± 1.2E-05	U
	$^{239/240}$Pu	2.2E-06 ± 4.0E-06	U
	^{103}Ru	-1.5E-05 ± 6.7E-05	U
	^{106}Ru	-2.2E-04 ± 5.5E-04	U
	^{125}Sb	-1.0E-04 ± 1.5E-04	U
	^{113}Sn	-1.7E-05 ± 6.7E-05	U
	^{90}Sr	-1.0E-04 ± 1.1E-04	U
	^{234}U	1.3E-05 ± 1.0E-05	
	^{235}U	4.4E-06 ± 4.6E-06	
	^{238}U	1.2E-05 ± 8.6E-06	
	^{65}Zn	-4.0E-05 ± 1.9E-04	U
N499 (200 EAST)	^{144}Ce	1.8E-04 ± 7.8E-04	U
Composite Period	^{60}Co	4.8E-05 ± 1.1E-04	U
06/21/04 to 12/21/04	^{134}Cs	-2.1E-05 ± 1.1E-04	U
	^{137}Cs	1.2E-05 ± 9.6E-05	U
	^{152}Eu	4.8E-05 ± 2.4E-04	U
	^{154}Eu	-8.5E-05 ± 3.2E-04	U
	^{155}Eu	6.7E-05 ± 1.8E-04	U
	^{238}Pu	-2.1E-06 ± 6.8E-06	U
	$^{239/240}$Pu	1.4E-06 ± 2.9E-06	U
	^{103}Ru	1.2E-04 ± 1.1E-04	U
	^{106}Ru	-1.8E-04 ± 8.6E-04	U
	^{125}Sb	-2.3E-04 ± 3.0E-04	U
	^{113}Sn	2.7E-05 ± 1.1E-04	U
	^{90}Sr	1.4E-06 ± 1.4E-05	U
	^{234}U	1.2E-05 ± 8.4E-06	
	^{235}U	6.5E-06 ± 5.2E-06	
	^{238}U	1.6E-05 ± 9.3E-06	
	^{65}Zn	-2.6E-06 ± 2.6E-05	U

Location	Isotope	Result ± Uncertainty	RQ*
N499 (200 EAST)	^{144}Ce	4.0E-04 ± 5.8E-04	U
Composite Period	^{60}Co	-4.6E-05 ± 7.7E-05	U
12/22/03 to 06/21/04	^{134}Cs	-4.4E-05 ± 7.0E-05	U
	^{137}Cs	-1.0E-05 ± 6.4E-05	U
	^{152}Eu	-1.8E-05 ± 1.4E-04	U
	^{154}Eu	-5.0E-05 ± 2.2E-04	U
	^{155}Eu	-1.0E-04 ± 1.5E-04	U
	^{238}Pu	5.2E-06 ± 1.4E-05	U
	$^{239/240}$Pu	1.3E-06 ± 1.3E-06	U
	^{103}Ru	-1.7E-05 ± 6.3E-05	U
	^{106}Ru	-2.0E-05 ± 2.0E-04	U
	^{125}Sb	3.1E-05 ± 1.3E-04	U
	^{113}Sn	-8.8E-06 ± 6.6E-05	U
	^{90}Sr	-7.1E-06 ± 7.1E-05	U
	^{234}U	1.1E-05 ± 7.5E-06	
	^{235}U	1.4E-06 ± 2.0E-06	U
	^{238}U	6.5E-06 ± 4.8E-06	
	^{65}Zn	1.9E-04 ± 1.8E-04	U
N957 (200 EAST)	^{144}Ce	1.7E-04 ± 6.2E-04	U
Composite Period	^{60}Co	-3.2E-05 ± 8.0E-05	U
12/23/03 to 06/21/04	^{134}Cs	-2.6E-05 ± 7.0E-05	U
	^{137}Cs	-3.7E-05 ± 5.9E-05	U
	^{152}Eu	-4.2E-05 ± 1.6E-04	U
	^{154}Eu	-5.2E-05 ± 2.1E-04	U
	^{155}Eu	-6.0E-05 ± 1.6E-04	U
	^{238}Pu	-1.8E-06 ± 6.9E-06	U
	$^{239/240}$Pu	3.7E-06 ± 4.6E-06	U
	^{103}Ru	-2.3E-05 ± 7.0E-05	U
	^{106}Ru	2.5E-04 ± 5.6E-04	U
	^{125}Sb	-7.0E-05 ± 1.4E-04	U
	^{113}Sn	-4.7E-05 ± 6.8E-05	U
	^{90}Sr	-1.5E-04 ± 1.6E-04	U
	^{234}U	8.7E-06 ± 6.2E-06	
	^{235}U	1.7E-06 ± 2.5E-06	U
	^{238}U	1.3E-05 ± 8.5E-06	
	^{65}Zn	6.8E-07 ± 6.8E-06	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N957 (200 EAST)	^{144}Ce	-3.6E-04 ± 7.7E-04	U
Composite Period	^{60}Co	-8.3E-06 ± 7.2E-05	U
06/21/04 to 12/21/04	^{134}Cs	7.3E-05 ± 7.9E-05	U
	^{137}Cs	3.6E-05 ± 6.5E-05	U
	^{152}Eu	-4.5E-05 ± 1.8E-04	U
	^{154}Eu	1.6E-04 ± 2.1E-04	U
	^{155}Eu	-5.1E-05 ± 1.9E-04	U
	^{238}Pu	2.2E-06 ± 3.3E-06	U
	$^{239/240}$Pu	6.5E-06 ± 4.9E-06	
	^{103}Ru	9.2E-06 ± 7.0E-05	U
	^{106}Ru	-1.9E-04 ± 6.2E-04	U
	^{125}Sb	4.2E-05 ± 1.5E-04	U
	^{113}Sn	2.0E-06 ± 2.0E-05	U
	^{90}Sr	-1.2E-04 ± 1.2E-04	U
	^{234}U	5.4E-06 ± 5.5E-06	U
	^{235}U	1.7E-06 ± 3.4E-06	U
	^{238}U	1.0E-05 ± 8.1E-06	
	^{65}Zn	-2.8E-04 ± 2.9E-04	U
N967 (200 EAST)	^{144}Ce	2.6E-04 ± 7.1E-04	U
Composite Period	^{60}Co	8.7E-05 ± 7.6E-05	U
06/21/04 to 12/21/04	^{134}Cs	-3.8E-05 ± 7.2E-05	U
	^{137}Cs	6.5E-06 ± 6.2E-05	U
	^{152}Eu	-1.3E-04 ± 2.0E-04	U
	^{154}Eu	-5.4E-07 ± 5.4E-06	U
	^{155}Eu	-1.2E-04 ± 2.3E-04	U
	^{238}Pu	1.1E-05 ± 1.6E-05	U
	$^{239/240}$Pu	2.0E-06 ± 2.8E-06	U
	^{103}Ru	3.5E-05 ± 6.8E-05	U
	^{106}Ru	-6.5E-04 ± 6.8E-04	U
	^{125}Sb	-2.6E-05 ± 1.5E-04	U
	^{113}Sn	4.0E-07 ± 4.0E-06	U
	^{90}Sr	-8.0E-05 ± 8.7E-05	U
	^{234}U	4.6E-06 ± 3.9E-06	
	^{235}U	1.5E-06 ± 2.1E-06	U
	^{238}U	7.3E-06 ± 5.2E-06	
	^{65}Zn	-1.2E-04 ± 1.6E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N967 (200 EAST)	^{144}Ce	5.1E-04 ± 6.4E-04	U
Composite Period	^{60}Co	1.3E-05 ± 6.6E-05	U
12/22/03 to 06/21/04	^{134}Cs	5.4E-06 ± 5.4E-05	U
	^{137}Cs	3.2E-05 ± 6.5E-05	U
	^{152}Eu	4.8E-06 ± 4.8E-05	U
	^{154}Eu	1.7E-04 ± 2.1E-04	U
	^{155}Eu	-2.3E-05 ± 1.4E-04	U
	^{238}Pu	-1.3E-05 ± 1.7E-05	U
	$^{239/240}$Pu	-4.6E-06 ± 5.2E-06	U
	^{103}Ru	1.8E-05 ± 6.5E-05	U
	^{106}Ru	-3.8E-04 ± 5.7E-04	U
	^{125}Sb	-4.2E-05 ± 1.3E-04	U
	^{113}Sn	-3.7E-05 ± 6.6E-05	U
	^{90}Sr	7.0E-06 ± 7.0E-05	U
	^{234}U	9.1E-06 ± 6.7E-06	
	^{235}U	7.0E-07 ± 7.3E-07	U
	^{238}U	9.1E-06 ± 6.7E-06	
	^{65}Zn	-1.1E-04 ± 1.4E-04	U
N968 (200 EAST)	^{144}Ce	9.4E-06 ± 9.4E-05	U
Composite Period	^{60}Co	3.8E-05 ± 7.4E-05	U
12/22/03 to 06/21/04	^{134}Cs	-1.5E-05 ± 7.1E-05	U
	^{137}Cs	4.4E-05 ± 6.5E-05	U
	^{152}Eu	-1.3E-05 ± 1.3E-04	U
	^{154}Eu	9.3E-05 ± 2.1E-04	U
	^{155}Eu	-4.8E-06 ± 4.8E-05	U
	^{238}Pu	-1.1E-05 ± 1.6E-05	U
	$^{239/240}$Pu	8.6E-07 ± 3.0E-06	U
	^{103}Ru	-2.7E-05 ± 6.9E-05	U
	^{106}Ru	-4.8E-04 ± 5.7E-04	U
	^{125}Sb	-2.6E-05 ± 1.4E-04	U
	^{113}Sn	7.6E-05 ± 9.0E-05	U
	^{90}Sr	-7.1E-05 ± 9.1E-05	U
	^{234}U	1.0E-05 ± 7.6E-06	
	^{235}U	3.5E-06 ± 3.6E-06	
	^{238}U	1.3E-05 ± 8.0E-06	
	^{65}Zn	-1.0E-04 ± 1.6E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N968 (200 EAST)	^{144}Ce	5.5E-04 ± 8.4E-04	U
Composite Period	^{60}Co	1.3E-05 ± 1.1E-04	U
06/21/04 to 12/21/04	^{134}Cs	-4.6E-05 ± 1.1E-04	U
	^{137}Cs	4.1E-05 ± 1.0E-04	U
	^{152}Eu	-1.6E-04 ± 2.4E-04	U
	^{154}Eu	-2.1E-04 ± 3.0E-04	U
	^{155}Eu	-3.2E-05 ± 1.8E-04	U
	^{238}Pu	-1.9E-06 ± 1.8E-05	U
	$^{239/240}$Pu	-1.9E-06 ± 4.9E-06	U
	^{103}Ru	2.3E-05 ± 1.1E-04	U
	^{106}Ru	-4.8E-04 ± 8.8E-04	U
	^{125}Sb	-1.7E-04 ± 2.6E-04	U
	^{113}Sn	-8.6E-05 ± 1.1E-04	U
	^{90}Sr	-5.2E-05 ± 8.7E-05	U
	^{234}U	1.1E-05 ± 7.4E-06	
	^{235}U	4.3E-06 ± 4.9E-06	U
	^{238}U	1.8E-05 ± 9.7E-06	
	^{65}Zn	-1.9E-05 ± 1.9E-04	U
N969 (200 EAST)	^{144}Ce	2.1E-04 ± 6.2E-04	U
Composite Period	^{60}Co	1.9E-06 ± 1.9E-05	U
06/21/04 to 12/21/04	^{134}Cs	1.5E-06 ± 1.5E-05	U
	^{137}Cs	7.7E-06 ± 6.4E-05	U
	^{152}Eu	-7.3E-05 ± 1.6E-04	U
	^{154}Eu	-2.5E-04 ± 2.6E-04	U
	^{155}Eu	6.6E-07 ± 6.6E-06	U
	^{238}Pu	2.8E-06 ± 1.5E-05	U
	$^{239/240}$Pu	4.6E-06 ± 5.2E-06	U
	^{103}Ru	-8.2E-06 ± 6.8E-05	U
	^{106}Ru	-6.9E-04 ± 7.1E-04	U
	^{125}Sb	6.0E-05 ± 1.4E-04	U
	^{113}Sn	-2.9E-05 ± 6.5E-05	U
	^{90}Sr	3.0E-05 ± 8.7E-05	U
	^{234}U	2.0E-05 ± 1.1E-05	
	^{235}U	8.2E-07 ± 8.5E-07	U
	^{238}U	1.4E-05 ± 8.8E-06	
	^{65}Zn	1.2E-04 ± 1.7E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N969 (200 EAST)	^{144}Ce	6.3E-05 ± 6.3E-04	U
Composite Period	^{60}Co	-3.5E-05 ± 7.4E-05	U
12/23/03 to 06/21/04	^{134}Cs	3.0E-05 ± 6.6E-05	U
	^{137}Cs	-1.7E-05 ± 5.7E-05	U
	^{152}Eu	-1.3E-04 ± 1.6E-04	U
	^{154}Eu	6.1E-05 ± 2.1E-04	U
	^{155}Eu	-3.0E-05 ± 1.9E-04	U
	^{238}Pu	-5.5E-06 ± 1.2E-05	U
	$^{239/240}$Pu	1.8E-06 ± 4.6E-06	U
	^{103}Ru	-3.9E-05 ± 7.1E-05	U
	^{106}Ru	-4.7E-05 ± 4.7E-04	U
	^{125}Sb	-1.6E-05 ± 1.6E-04	U
	^{113}Sn	5.3E-05 ± 7.7E-05	U
	^{90}Sr	-5.9E-07 ± 5.9E-06	U
	^{234}U	1.4E-05 ± 9.7E-06	
	^{235}U	3.4E-06 ± 4.2E-06	U
	^{238}U	7.1E-06 ± 6.7E-06	U
	^{65}Zn	2.8E-05 ± 1.5E-04	U
N970 (200 EAST)	^{144}Ce	-2.7E-04 ± 7.8E-04	U
Composite Period	^{60}Co	-5.4E-05 ± 1.1E-04	U
12/22/03 to 06/21/04	^{134}Cs	1.3E-04 ± 1.1E-04	U
	^{137}Cs	1.4E-05 ± 9.7E-05	U
	^{152}Eu	-2.3E-05 ± 2.2E-04	U
	^{154}Eu	2.4E-04 ± 3.1E-04	U
	^{155}Eu	-7.3E-05 ± 1.6E-04	U
	^{238}Pu	7.1E-06 ± 1.5E-05	U
	$^{239/240}$Pu	4.1E-06 ± 5.8E-06	U
	^{103}Ru	-9.9E-05 ± 1.1E-04	U
	^{106}Ru	3.2E-05 ± 3.2E-04	U
	^{125}Sb	1.2E-05 ± 1.2E-04	U
	^{113}Sn	-2.2E-05 ± 1.1E-04	U
	^{90}Sr	-5.2E-05 ± 9.9E-05	U
	^{234}U	6.3E-06 ± 7.1E-06	U
	^{235}U	3.9E-06 ± 4.8E-06	U
	^{238}U	8.9E-06 ± 7.4E-06	
	^{65}Zn	-2.3E-04 ± 2.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N970 (200 EAST)	^{144}Ce	-1.9E-04 ± 6.5E-04	U
Composite Period	^{60}Co	9.2E-05 ± 8.5E-05	U
06/21/04 to 12/21/04	^{134}Cs	-1.8E-05 ± 7.8E-05	U
	^{137}Cs	-3.9E-05 ± 7.0E-05	U
	^{152}Eu	-2.0E-05 ± 1.6E-04	U
	^{154}Eu	2.3E-05 ± 2.3E-04	U
	^{155}Eu	1.7E-05 ± 1.7E-04	U
	^{238}Pu	7.1E-07 ± 7.1E-06	U
	$^{239/240}$Pu	-7.1E-07 ± 7.1E-06	U
	^{103}Ru	1.0E-05 ± 7.3E-05	U
	^{106}Ru	-9.0E-05 ± 6.0E-04	U
	^{125}Sb	9.9E-05 ± 1.6E-04	U
	^{113}Sn	-4.1E-05 ± 7.2E-05	U
	^{90}Sr	-4.3E-05 ± 7.6E-05	U
	^{234}U	1.0E-05 ± 6.4E-06	
	^{235}U	3.0E-06 ± 3.1E-06	
	^{238}U	1.3E-05 ± 7.8E-06	
	^{65}Zn	1.7E-04 ± 2.0E-04	U
N972 (200 EAST)	^{144}Ce	4.7E-04 ± 6.8E-04	U
Composite Period	^{60}Co	6.6E-05 ± 8.1E-05	U
06/21/04 to 12/21/04	^{134}Cs	9.5E-06 ± 7.2E-05	U
	^{137}Cs	2.2E-05 ± 6.8E-05	U
	^{152}Eu	-4.8E-05 ± 1.7E-04	U
	^{154}Eu	4.0E-05 ± 2.1E-04	U
	^{155}Eu	-6.4E-05 ± 1.6E-04	U
	^{238}Pu	3.0E-06 ± 1.0E-05	U
	$^{239/240}$Pu	7.1E-07 ± 7.4E-07	U
	^{103}Ru	3.2E-05 ± 7.1E-05	U
	^{106}Ru	-2.4E-04 ± 6.1E-04	U
	^{125}Sb	5.2E-05 ± 1.6E-04	U
	^{113}Sn	2.0E-05 ± 7.3E-05	U
	^{90}Sr	1.4E-05 ± 6.6E-05	U
	^{234}U	1.0E-05 ± 7.7E-06	
	^{235}U	7.8E-07 ± 8.1E-07	U
	^{238}U	4.6E-06 ± 4.6E-06	U
	^{65}Zn	-2.2E-04 ± 2.3E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N972 (200 EAST)	^{144}Ce	7.0E-05 ± 6.0E-04	U
Composite Period	^{60}Co	-7.3E-05 ± 7.6E-05	U
12/22/03 to 06/21/04	^{134}Cs	4.9E-05 ± 7.6E-05	U
	^{137}Cs	4.5E-05 ± 6.0E-05	U
	^{152}Eu	5.7E-05 ± 1.3E-04	U
	^{154}Eu	4.3E-05 ± 1.8E-04	U
	^{155}Eu	9.8E-06 ± 9.8E-05	U
	^{238}Pu	-1.8E-06 ± 1.5E-05	U
	$^{239/240}$Pu	8.9E-07 ± 4.7E-06	U
	^{103}Ru	-2.0E-05 ± 6.1E-05	U
	^{106}Ru	9.0E-05 ± 6.2E-04	U
	^{125}Sb	-1.2E-04 ± 1.4E-04	U
	^{113}Sn	1.8E-05 ± 6.3E-05	U
	^{90}Sr	-1.4E-05 ± 7.2E-05	U
	^{234}U	8.9E-06 ± 6.6E-06	
	^{235}U	6.9E-07 ± 2.4E-06	U
	^{238}U	4.7E-06 ± 4.0E-06	
	^{65}Zn	-5.1E-05 ± 1.5E-04	U
N973 (200 EAST)	^{144}Ce	4.8E-04 ± 7.2E-04	U
Composite Period	^{60}Co	-4.1E-05 ± 7.5E-05	U
12/22/03 to 06/21/04	^{134}Cs	-3.2E-05 ± 6.9E-05	U
	^{137}Cs	7.8E-05 ± 7.4E-05	U
	^{152}Eu	3.6E-05 ± 1.9E-04	U
	^{154}Eu	3.4E-06 ± 3.4E-05	U
	^{155}Eu	-9.1E-05 ± 1.9E-04	U
	^{238}Pu	8.7E-06 ± 1.7E-05	U
	$^{239/240}$Pu	-9.4E-07 ± 3.3E-06	U
	^{103}Ru	-7.0E-05 ± 7.4E-05	U
	^{106}Ru	-1.3E-04 ± 5.9E-04	U
	^{125}Sb	8.0E-05 ± 1.6E-04	U
	^{113}Sn	2.9E-05 ± 7.7E-05	U
	^{90}Sr	-5.1E-05 ± 9.2E-05	U
	^{234}U	1.3E-05 ± 7.9E-06	
	^{235}U	1.6E-06 ± 2.3E-06	U
	^{238}U	7.2E-06 ± 5.3E-06	
	^{65}Zn	-1.7E-04 ± 1.9E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N973 (200 EAST)	^{144}Ce	-1.9E-04 ± 5.6E-04	U
Composite Period	^{60}Co	1.6E-05 ± 8.0E-05	U
06/21/04 to 12/21/04	^{134}Cs	2.1E-05 ± 7.3E-05	U
	^{137}Cs	3.0E-05 ± 7.1E-05	U
	^{152}Eu	-8.5E-05 ± 1.5E-04	U
	^{154}Eu	-2.3E-04 ± 2.4E-04	U
	^{155}Eu	9.6E-05 ± 1.4E-04	U
	^{238}Pu	6.8E-06 ± 1.2E-05	U
	$^{239/240}$Pu	7.4E-07 ± 7.6E-07	U
	^{103}Ru	1.9E-05 ± 6.4E-05	U
	^{106}Ru	3.3E-05 ± 3.3E-04	U
	^{125}Sb	-3.9E-05 ± 1.6E-04	U
	^{113}Sn	8.2E-06 ± 7.4E-05	U
	^{90}Sr	8.8E-05 ± 1.0E-04	U
	^{234}U	1.2E-05 ± 8.0E-06	
	^{235}U	4.7E-06 ± 4.3E-06	
	^{238}U	5.7E-06 ± 4.6E-06	
	^{65}Zn	-2.3E-04 ± 2.4E-04	U
N976 (200 EAST)	^{144}Ce	-2.4E-04 ± 6.5E-04	U
Composite Period	^{60}Co	-4.6E-05 ± 8.6E-05	U
06/21/04 to 12/21/04	^{134}Cs	2.7E-05 ± 7.1E-05	U
	^{137}Cs	4.6E-05 ± 6.8E-05	U
	^{152}Eu	-1.4E-04 ± 1.8E-04	U
	^{154}Eu	-1.1E-04 ± 2.1E-04	U
	^{155}Eu	-5.4E-05 ± 1.6E-04	U
	^{238}Pu	-3.6E-06 ± 1.1E-05	U
	$^{239/240}$Pu	-7.1E-07 ± 3.8E-06	U
	^{103}Ru	2.3E-05 ± 6.8E-05	U
	^{106}Ru	-5.1E-04 ± 6.5E-04	U
	^{125}Sb	-2.6E-06 ± 2.6E-05	U
	^{113}Sn	-4.9E-05 ± 7.2E-05	U
	^{90}Sr	-1.4E-05 ± 7.7E-05	U
	^{234}U	3.9E-05 ± 1.8E-05	
	^{235}U	5.3E-06 ± 4.5E-06	
	^{238}U	3.1E-05 ± 1.5E-05	
	^{65}Zn	-7.3E-06 ± 7.3E-05	U

Location	Isotope	Result ± Uncertainty	RQ*
N976 (200 EAST)	^{144}Ce	2.5E-04 ± 6.3E-04	U
Composite Period	^{60}Co	-3.4E-05 ± 8.5E-05	U
12/22/03 to 06/21/04	^{134}Cs	-3.3E-05 ± 6.5E-05	U
	^{137}Cs	9.5E-05 ± 7.0E-05	U
	^{152}Eu	-9.0E-05 ± 1.5E-04	U
	^{154}Eu	-2.6E-05 ± 2.0E-04	U
	^{155}Eu	-4.9E-05 ± 1.5E-04	U
	^{238}Pu	2.2E-06 ± 4.9E-06	U
	$^{239/240}$Pu	2.2E-06 ± 2.7E-06	
	^{103}Ru	1.1E-05 ± 6.9E-05	U
	^{106}Ru	-1.6E-04 ± 5.4E-04	U
	^{125}Sb	-5.5E-05 ± 1.4E-04	U
	^{113}Sn	4.1E-05 ± 7.0E-05	U
	^{90}Sr	5.9E-05 ± 1.0E-04	U
	^{234}U	1.5E-05 ± 1.0E-05	
	^{235}U	1.6E-06 ± 2.3E-06	U
	^{238}U	2.3E-05 ± 1.2E-05	
	^{65}Zn	1.4E-04 ± 1.7E-04	U
N977 (200 EAST)	^{144}Ce	-3.2E-04 ± 6.6E-04	U
Composite Period	^{60}Co	5.9E-05 ± 8.5E-05	U
12/22/03 to 06/21/04	^{134}Cs	-7.3E-05 ± 8.1E-05	U
	^{137}Cs	8.7E-06 ± 6.9E-05	U
	^{152}Eu	-8.8E-05 ± 1.7E-04	U
	^{154}Eu	-9.1E-05 ± 2.5E-04	U
	^{155}Eu	3.4E-05 ± 1.6E-04	U
	^{238}Pu	-4.3E-06 ± 9.6E-06	U
	$^{239/240}$Pu	-2.2E-06 ± 2.7E-06	U
	^{103}Ru	-6.6E-06 ± 6.6E-05	U
	^{106}Ru	9.3E-05 ± 6.3E-04	U
	^{125}Sb	1.9E-04 ± 1.7E-04	U
	^{113}Sn	-1.0E-04 ± 1.0E-04	U
	^{90}Sr	-1.1E-04 ± 1.1E-04	U
	^{234}U	1.2E-05 ± 7.4E-06	
	^{235}U	2.5E-06 ± 3.0E-06	
	^{238}U	9.4E-06 ± 6.3E-06	
	^{65}Zn	-1.1E-04 ± 1.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N977 (200 EAST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-2.6E-04 ± 5.7E-04	U
	^{60}Co	-4.0E-05 ± 8.0E-05	U
	^{134}Cs	7.2E-06 ± 7.2E-05	U
	^{137}Cs	6.7E-05 ± 7.0E-05	U
	^{152}Eu	-1.9E-05 ± 1.5E-04	U
	^{154}Eu	4.2E-05 ± 2.2E-04	U
	^{155}Eu	-5.0E-05 ± 1.4E-04	U
	^{238}Pu	-6.9E-06 ± 1.7E-05	U
	$^{239/240}$Pu	7.3E-06 ± 5.4E-06	
	^{103}Ru	-2.6E-05 ± 6.3E-05	U
	^{106}Ru	4.2E-04 ± 5.7E-04	U
	^{125}Sb	-6.6E-05 ± 1.5E-04	U
	^{113}Sn	1.5E-05 ± 7.0E-05	U
	^{90}Sr	-3.7E-05 ± 8.7E-05	U
	^{234}U	2.2E-05 ± 1.2E-05	
	^{235}U	1.6E-06 ± 3.2E-06	U
	^{238}U	1.7E-05 ± 9.9E-06	
	^{65}Zn	-2.1E-04 ± 2.2E-04	U
N978 (200 EAST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-3.2E-04 ± 7.9E-04	U
	^{60}Co	-1.0E-04 ± 1.0E-04	U
	^{134}Cs	4.9E-05 ± 9.9E-05	U
	^{137}Cs	2.8E-05 ± 9.7E-05	U
	^{152}Eu	6.3E-05 ± 2.3E-04	U
	^{154}Eu	2.6E-04 ± 3.1E-04	U
	^{155}Eu	2.8E-05 ± 1.7E-04	U
	^{238}Pu	-7.1E-06 ± 1.4E-05	U
	$^{239/240}$Pu	-8.5E-07 ± 3.0E-06	U
	^{103}Ru	-1.5E-04 ± 1.5E-04	U
	^{106}Ru	5.0E-04 ± 7.6E-04	U
	^{125}Sb	-6.7E-05 ± 2.3E-04	U
	^{113}Sn	1.5E-06 ± 1.5E-05	U
	^{90}Sr	-2.8E-05 ± 9.7E-05	U
	^{234}U	1.6E-05 ± 8.9E-06	
	^{235}U	7.1E-07 ± 1.4E-06	U
	^{238}U	1.1E-05 ± 7.7E-06	
	^{65}Zn	-1.1E-04 ± 2.4E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N978 (200 EAST) Composite Period 12/23/03 to 06/21/04	^{144}Ce	2.8E-04 ± 5.5E-04	U
	^{60}Co	3.0E-05 ± 7.5E-05	U
	^{134}Cs	5.2E-05 ± 6.8E-05	U
	^{137}Cs	-4.3E-05 ± 5.8E-05	U
	^{152}Eu	-1.7E-06 ± 1.7E-05	U
	^{154}Eu	-4.1E-05 ± 2.4E-04	U
	^{155}Eu	2.2E-04 ± 2.0E-04	U
	^{238}Pu	7.6E-07 ± 7.7E-06	U
	$^{239/240}$Pu	-3.8E-06 ± 4.0E-06	U
	^{103}Ru	-1.2E-05 ± 6.8E-05	U
	^{106}Ru	7.3E-05 ± 5.5E-04	U
	^{125}Sb	-7.5E-05 ± 1.3E-04	U
	^{113}Sn	4.1E-05 ± 6.6E-05	U
	^{90}Sr	4.2E-05 ± 1.9E-04	U
	^{234}U	9.7E-06 ± 7.2E-06	
	^{235}U	8.3E-07 ± 1.7E-06	U
	^{238}U	1.0E-05 ± 6.8E-06	
	^{65}Zn	-9.0E-05 ± 1.7E-04	U
N984 (200 EAST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-2.2E-04 ± 7.6E-04	U
	^{60}Co	-2.5E-05 ± 1.2E-04	U
	^{134}Cs	-1.2E-04 ± 1.3E-04	U
	^{137}Cs	1.0E-04 ± 1.3E-04	U
	^{152}Eu	5.8E-05 ± 2.1E-04	U
	^{154}Eu	-3.6E-05 ± 3.3E-04	U
	^{155}Eu	1.1E-04 ± 1.6E-04	U
	^{238}Pu	8.2E-07 ± 7.6E-06	U
	$^{239/240}$Pu	2.5E-06 ± 3.9E-06	U
	^{103}Ru	-3.0E-05 ± 1.2E-04	U
	^{106}Ru	1.6E-04 ± 8.0E-04	U
	^{125}Sb	-1.9E-04 ± 2.3E-04	U
	^{113}Sn	-4.8E-05 ± 1.1E-04	U
	^{90}Sr	3.6E-04 ± 1.6E-04	
	^{234}U	8.9E-06 ± 6.1E-06	
	^{235}U	2.9E-06 ± 3.0E-06	
	^{238}U	7.3E-06 ± 5.5E-06	
	^{65}Zn	-3.8E-04 ± 4.0E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N984 (200 EAST)	^{144}Ce	1.2E-04 ± 5.1E-04	U
Composite Period	^{60}Co	-9.5E-06 ± 7.9E-05	U
06/21/04 to 12/21/04	^{134}Cs	7.2E-07 ± 7.2E-06	U
	^{137}Cs	1.4E-04 ± 9.7E-05	
	^{152}Eu	3.4E-05 ± 1.5E-04	U
	^{154}Eu	1.1E-04 ± 2.4E-04	U
	^{155}Eu	-5.9E-05 ± 1.4E-04	U
	^{238}Pu	9.4E-06 ± 1.3E-05	U
	$^{239/240}$Pu	6.7E-07 ± 6.9E-07	U
	^{103}Ru	5.0E-05 ± 6.8E-05	U
	^{106}Ru	2.7E-04 ± 6.1E-04	U
	^{125}Sb	4.8E-06 ± 4.8E-05	U
	^{113}Sn	-7.4E-06 ± 7.1E-05	U
	^{90}Sr	2.9E-05 ± 8.4E-05	U
	^{234}U	9.4E-06 ± 6.8E-06	
	^{235}U	2.5E-06 ± 3.1E-06	
	^{238}U	6.2E-06 ± 5.4E-06	
	^{65}Zn	-1.6E-05 ± 1.6E-04	U
N985 (200 EAST)	^{144}Ce	-2.9E-04 ± 6.5E-04	U
Composite Period	^{60}Co	4.8E-05 ± 8.7E-05	U
06/21/04 to 12/21/04	^{134}Cs	-6.1E-06 ± 6.1E-05	U
	^{137}Cs	4.1E-05 ± 7.7E-05	U
	^{152}Eu	1.2E-04 ± 1.7E-04	U
	^{154}Eu	-8.8E-05 ± 2.4E-04	U
	^{155}Eu	-4.4E-05 ± 1.7E-04	U
	^{238}Pu	-1.7E-05 ± 1.7E-05	U
	$^{239/240}$Pu	1.4E-06 ± 2.0E-06	U
	^{103}Ru	-6.4E-05 ± 7.5E-05	U
	^{106}Ru	-4.5E-05 ± 4.5E-04	U
	^{125}Sb	7.1E-05 ± 1.5E-04	U
	^{113}Sn	-2.1E-05 ± 7.1E-05	U
	^{90}Sr	1.4E-05 ± 8.2E-05	U
	^{234}U	1.7E-05 ± 1.0E-05	
	^{235}U	3.5E-06 ± 3.7E-06	
	^{238}U	1.2E-05 ± 7.5E-06	
	^{65}Zn	1.1E-04 ± 2.0E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N985 (200 EAST)	^{144}Ce	-3.3E-04 ± 6.4E-04	U
Composite Period	^{60}Co	-3.0E-05 ± 7.4E-05	U
12/22/03 to 06/21/04	^{134}Cs	4.0E-06 ± 4.0E-05	U
	^{137}Cs	7.0E-05 ± 6.8E-05	U
	^{152}Eu	1.1E-05 ± 1.1E-04	U
	^{154}Eu	2.8E-04 ± 1.9E-04	U
	^{155}Eu	5.1E-05 ± 1.6E-04	U
	^{238}Pu	-7.4E-07 ± 6.8E-06	U
	$^{239/240}$Pu	7.4E-07 ± 3.3E-06	U
	^{103}Ru	1.4E-05 ± 7.8E-05	U
	^{106}Ru	-4.1E-04 ± 5.9E-04	U
	^{125}Sb	2.3E-05 ± 1.5E-04	U
	^{113}Sn	-4.2E-05 ± 7.1E-05	U
	^{90}Sr	-1.3E-04 ± 1.3E-04	U
	^{234}U	1.3E-05 ± 7.8E-06	
	^{235}U	7.4E-07 ± 1.5E-06	U
	^{238}U	9.6E-06 ± 6.6E-06	
	^{65}Zn	-9.1E-05 ± 1.5E-04	U
N999 (200 EAST)	^{144}Ce	-3.6E-04 ± 6.4E-04	U
Composite Period	^{60}Co	-6.7E-05 ± 1.0E-04	U
12/22/03 to 06/21/04	^{134}Cs	4.5E-05 ± 6.8E-05	U
	^{137}Cs	7.2E-05 ± 6.5E-05	U
	^{152}Eu	-2.0E-04 ± 2.1E-04	U
	^{154}Eu	2.4E-04 ± 2.3E-04	U
	^{155}Eu	-3.3E-05 ± 1.5E-04	U
	^{238}Pu	2.1E-06 ± 1.9E-05	U
	$^{239/240}$Pu	1.1E-06 ± 2.1E-06	U
	^{103}Ru	1.0E-05 ± 7.6E-05	U
	^{106}Ru	8.3E-05 ± 6.1E-04	U
	^{125}Sb	-5.0E-05 ± 1.5E-04	U
	^{113}Sn	3.3E-05 ± 7.4E-05	U
	^{90}Sr	-1.0E-04 ± 1.1E-04	U
	^{234}U	1.2E-05 ± 7.4E-06	
	^{235}U	-7.7E-07 ± 7.7E-06	U
	^{238}U	1.0E-05 ± 6.8E-06	
	^{65}Zn	-1.7E-04 ± 1.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N999 (200 EAST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	5.1E-04 ± 8.2E-04	U
	^{60}Co	-2.9E-05 ± 9.9E-05	U
	^{134}Cs	1.0E-04 ± 1.1E-04	U
	^{137}Cs	2.2E-05 ± 1.0E-04	U
	^{152}Eu	1.3E-04 ± 2.3E-04	U
	^{154}Eu	-3.6E-04 ± 3.8E-04	U
	^{155}Eu	5.8E-05 ± 1.7E-04	U
	^{238}Pu	-4.3E-06 ± 1.1E-05	U
	$^{239/240}$Pu	-2.9E-06 ± 3.0E-06	U
	^{103}Ru	2.3E-05 ± 1.1E-04	U
	^{106}Ru	3.4E-04 ± 8.9E-04	U
	^{125}Sb	2.4E-04 ± 2.4E-04	U
	^{113}Sn	-4.0E-06 ± 4.0E-05	U
	^{90}Sr	-1.0E-04 ± 1.0E-04	U
	^{234}U	1.6E-05 ± 8.5E-06	
	^{235}U	1.6E-06 ± 2.3E-06	U
	^{238}U	1.5E-05 ± 8.1E-06	
	^{65}Zn	-2.4E-04 ± 3.0E-04	U
N541 (200 EAST, 224-B Demolition) Composite Period 06/29/04 to 10/25/04	^{144}Ce	8.4E-04 ± 1.0E-03	U
	^{60}Co	-1.0E-05 ± 1.0E-04	U
	^{134}Cs	-2.1E-04 ± 2.1E-04	U
	^{137}Cs	2.2E-05 ± 1.2E-04	U
	^{152}Eu	-1.9E-04 ± 3.3E-04	U
	^{154}Eu	-2.3E-04 ± 3.8E-04	U
	^{155}Eu	4.8E-05 ± 2.8E-04	U
	^{238}Pu	1.2E-05 ± 2.0E-05	U
	$^{239/240}$Pu	1.3E-06 ± 1.3E-06	U
	^{103}Ru	9.8E-06 ± 9.8E-05	U
	^{106}Ru	5.7E-04 ± 1.1E-03	U
	^{125}Sb	1.1E-04 ± 2.9E-04	U
	^{113}Sn	-7.7E-05 ± 1.1E-04	U
	^{90}Sr	-9.4E-05 ± 1.6E-04	U
	^{234}U	3.2E-05 ± 1.8E-05	
	^{235}U	1.2E-05 ± 9.1E-06	
	^{238}U	3.3E-05 ± 1.8E-05	
	^{65}Zn	-2.0E-04 ± 3.0E-04	U
N542 (200 EAST, 224-B Demolition) Composite Period 06/29/04 to 10/25/04	^{144}Ce	-3.4E-04 ± 9.4E-04	U
	^{60}Co	-5.9E-08 ± 5.9E-07	U
	^{134}Cs	1.4E-05 ± 1.1E-04	U
	^{137}Cs	-2.3E-05 ± 9.8E-05	U
	^{152}Eu	3.4E-04 ± 2.8E-04	U
	^{154}Eu	5.6E-05 ± 3.9E-04	U
	^{155}Eu	7.2E-05 ± 2.4E-04	U
	^{238}Pu	-1.0E-05 ± 1.8E-05	U
	$^{239/240}$Pu	5.5E-06 ± 6.2E-06	U
	^{103}Ru	-1.8E-05 ± 9.3E-05	U
	^{106}Ru	5.2E-04 ± 8.8E-04	U
	^{125}Sb	-5.7E-05 ± 2.1E-04	U
	^{113}Sn	-4.8E-05 ± 1.0E-04	U
	^{90}Sr	-6.4E-05 ± 1.4E-04	U
	^{234}U	2.2E-05 ± 1.4E-05	
	^{235}U	1.3E-06 ± 1.3E-05	U
	^{238}U	2.1E-05 ± 1.3E-05	
	^{65}Zn	-1.1E-04 ± 3.2E-04	U
N543 (200 EAST, 224-B Demolition) Composite Period 06/29/04 to 10/25/04	^{144}Ce	-7.7E-04 ± 8.7E-04	U
	^{60}Co	-3.8E-05 ± 1.2E-04	U
	^{134}Cs	-1.7E-04 ± 1.8E-04	U
	^{137}Cs	-7.2E-05 ± 1.1E-04	U
	^{152}Eu	1.6E-06 ± 1.6E-05	U
	^{154}Eu	-2.7E-04 ± 4.0E-04	U
	^{155}Eu	-9.8E-05 ± 2.2E-04	U
	^{238}Pu	2.1E-05 ± 2.3E-05	U
	$^{239/240}$Pu	2.4E-06 ± 8.4E-06	U
	^{103}Ru	7.6E-05 ± 8.6E-05	U
	^{106}Ru	3.2E-06 ± 3.3E-05	U
	^{125}Sb	3.1E-05 ± 2.2E-04	U
	^{113}Sn	9.5E-05 ± 1.1E-04	U
	^{90}Sr	1.1E-05 ± 1.1E-04	U
	^{234}U	4.0E-05 ± 2.2E-05	
	^{235}U	1.1E-05 ± 9.8E-06	
	^{238}U	1.5E-05 ± 1.2E-05	
	^{65}Zn	1.9E-04 ± 2.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N155 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-3.2E-04 ± 7.2E-04	U
	^{60}Co	5.2E-06 ± 5.2E-05	U
	^{134}Cs	-3.8E-05 ± 7.0E-05	U
	^{137}Cs	1.3E-03 ± 5.1E-04	
	^{152}Eu	-4.3E-05 ± 1.8E-04	U
	^{154}Eu	1.1E-04 ± 1.9E-04	U
	^{155}Eu	-1.1E-04 ± 1.8E-04	U
	^{238}Pu	-8.0E-06 ± 1.5E-05	U
	$^{239/240}$Pu	1.6E-05 ± 1.0E-05	
	^{103}Ru	-4.4E-06 ± 4.4E-05	U
	^{106}Ru	-4.3E-04 ± 5.7E-04	U
	^{125}Sb	9.0E-05 ± 1.7E-04	U
	^{113}Sn	5.1E-06 ± 5.1E-05	U
	^{90}Sr	-2.2E-05 ± 4.2E-05	U
	^{234}U	1.3E-05 ± 7.9E-06	
	^{235}U	3.2E-06 ± 3.3E-06	
	^{238}U	5.8E-06 ± 5.5E-06	U
	^{65}Zn	-1.1E-04 ± 1.6E-04	U
N155 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	2.5E-04 ± 6.2E-04	U
	^{60}Co	-6.9E-05 ± 7.5E-05	U
	^{134}Cs	-2.2E-05 ± 6.5E-05	U
	^{137}Cs	3.2E-05 ± 7.1E-05	U
	^{152}Eu	-2.1E-04 ± 2.2E-04	U
	^{154}Eu	1.2E-05 ± 1.2E-04	U
	^{155}Eu	4.8E-05 ± 1.5E-04	U
	^{238}Pu	1.6E-06 ± 1.1E-05	U
	$^{239/240}$Pu	4.2E-06 ± 5.1E-06	U
	^{103}Ru	-4.2E-06 ± 4.2E-05	U
	^{106}Ru	2.2E-04 ± 5.5E-04	U
	^{125}Sb	5.2E-05 ± 1.5E-04	U
	^{113}Sn	-3.9E-05 ± 6.6E-05	U
	^{90}Sr	7.4E-05 ± 9.9E-05	U
	^{234}U	2.2E-05 ± 1.2E-05	
	^{235}U	4.3E-06 ± 4.2E-06	
	^{238}U	1.1E-05 ± 8.0E-06	
	^{65}Zn	-2.1E-04 ± 2.2E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N161 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-1.9E-04 ± 5.7E-04	U
	^{60}Co	4.0E-05 ± 8.0E-05	U
	^{134}Cs	1.8E-05 ± 6.6E-05	U
	^{137}Cs	3.3E-05 ± 6.6E-05	U
	^{152}Eu	-4.1E-05 ± 1.3E-04	U
	^{154}Eu	-8.3E-05 ± 2.1E-04	U
	^{155}Eu	-5.4E-05 ± 1.6E-04	U
	^{238}Pu	-9.2E-07 ± 9.2E-06	U
	$^{239/240}$Pu	1.8E-05 ± 1.0E-05	
	^{103}Ru	4.2E-06 ± 4.2E-05	U
	^{106}Ru	-4.1E-04 ± 5.7E-04	U
	^{125}Sb	9.6E-07 ± 9.6E-06	U
	^{113}Sn	-4.1E-06 ± 4.1E-05	U
	^{90}Sr	-6.4E-05 ± 6.6E-05	U
	^{234}U	9.2E-06 ± 7.4E-06	
	^{235}U	1.6E-06 ± 3.1E-06	U
	^{238}U	7.1E-06 ± 5.2E-06	
	^{65}Zn	-8.0E-05 ± 1.9E-04	U
N161 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	2.4E-04 ± 7.4E-04	U
	^{60}Co	2.6E-05 ± 7.6E-05	U
	^{134}Cs	-9.3E-05 ± 9.6E-05	U
	^{137}Cs	-2.2E-05 ± 7.0E-05	U
	^{152}Eu	-6.9E-05 ± 1.7E-04	U
	^{154}Eu	-2.6E-05 ± 2.4E-04	U
	^{155}Eu	-3.1E-06 ± 3.1E-05	U
	^{238}Pu	-8.0E-07 ± 8.0E-06	U
	$^{239/240}$Pu	1.7E-05 ± 1.1E-05	
	^{103}Ru	-5.9E-05 ± 6.9E-05	U
	^{106}Ru	-5.7E-04 ± 6.3E-04	U
	^{125}Sb	1.2E-04 ± 1.7E-04	U
	^{113}Sn	-1.3E-06 ± 1.3E-05	U
	^{90}Sr	-8.8E-05 ± 1.0E-04	U
	^{234}U	2.8E-05 ± 1.4E-05	
	^{235}U	1.8E-05 ± 1.1E-05	
	^{238}U	2.1E-05 ± 1.1E-05	
	^{65}Zn	-8.8E-05 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N165 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-5.8E-05 ± 5.8E-04	U
	^{60}Co	2.3E-05 ± 7.2E-05	U
	^{134}Cs	-4.3E-05 ± 6.8E-05	U
	^{137}Cs	1.0E-04 ± 7.2E-05	U
	^{152}Eu	-3.0E-05 ± 1.6E-04	U
	^{154}Eu	-2.4E-05 ± 2.1E-04	U
	^{155}Eu	7.3E-05 ± 1.8E-04	U
	^{238}Pu	8.5E-06 ± 8.4E-06	U
	$^{239/240}$Pu	5.4E-04 ± 2.1E-04	
	^{103}Ru	2.3E-05 ± 6.7E-05	U
	^{106}Ru	-2.8E-04 ± 5.6E-04	U
	^{125}Sb	-1.1E-04 ± 1.5E-04	U
	^{113}Sn	-5.8E-05 ± 7.4E-05	U
	^{90}Sr	-3.5E-05 ± 4.2E-05	U
	^{234}U	1.1E-05 ± 7.1E-06	
	^{235}U	7.8E-07 ± 1.6E-06	U
	^{238}U	1.1E-05 ± 7.6E-06	
	^{65}Zn	-5.8E-05 ± 1.7E-04	U
N168 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-5.9E-04 ± 6.9E-04	U
	^{60}Co	-3.3E-05 ± 8.0E-05	U
	^{134}Cs	1.4E-05 ± 6.6E-05	U
	^{137}Cs	6.7E-05 ± 6.6E-05	U
	^{152}Eu	6.6E-05 ± 1.7E-04	U
	^{154}Eu	2.2E-05 ± 1.8E-04	U
	^{155}Eu	6.0E-05 ± 1.8E-04	U
	^{238}Pu	-2.7E-06 ± 8.8E-06	U
	$^{239/240}$Pu	7.0E-06 ± 7.1E-06	U
	^{103}Ru	-5.7E-05 ± 6.8E-05	U
	^{106}Ru	-3.1E-05 ± 3.2E-04	U
	^{125}Sb	1.1E-04 ± 1.6E-04	U
	^{113}Sn	3.0E-05 ± 6.6E-05	U
	^{90}Sr	-4.2E-05 ± 4.4E-05	U
	^{234}U	1.5E-05 ± 9.2E-06	
	^{235}U	3.0E-06 ± 3.1E-06	
	^{238}U	7.7E-06 ± 6.5E-06	
	^{65}Zn	-1.4E-05 ± 1.4E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N165 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	1.8E-04 ± 6.2E-04	U
	^{60}Co	7.9E-05 ± 9.1E-05	U
	^{134}Cs	-1.4E-06 ± 1.4E-05	U
	^{137}Cs	6.6E-06 ± 6.6E-05	U
	^{152}Eu	3.7E-05 ± 1.7E-04	U
	^{154}Eu	-3.4E-05 ± 2.6E-04	U
	^{155}Eu	8.8E-05 ± 1.6E-04	U
	^{238}Pu	-4.3E-06 ± 1.1E-05	U
	$^{239/240}$Pu	3.6E-04 ± 1.4E-04	
	^{103}Ru	-3.1E-05 ± 6.2E-05	U
	^{106}Ru	1.1E-04 ± 5.9E-04	U
	^{125}Sb	2.0E-05 ± 1.6E-04	U
	^{113}Sn	6.7E-05 ± 7.1E-05	U
	^{90}Sr	-1.6E-04 ± 1.6E-04	U
	^{234}U	1.1E-05 ± 7.4E-06	
	^{235}U	7.9E-07 ± 8.2E-07	U
	^{238}U	1.6E-05 ± 9.2E-06	
	^{65}Zn	-9.7E-05 ± 1.9E-04	U
N168 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	4.8E-04 ± 5.8E-04	U
	^{60}Co	4.5E-05 ± 9.2E-05	U
	^{134}Cs	-2.7E-05 ± 7.6E-05	U
	^{137}Cs	4.2E-05 ± 7.4E-05	U
	^{152}Eu	-4.9E-05 ± 1.5E-04	U
	^{154}Eu	-1.5E-04 ± 2.3E-04	U
	^{155}Eu	4.1E-06 ± 4.1E-05	U
	^{238}Pu	-6.7E-06 ± 1.1E-05	U
	$^{239/240}$Pu	2.2E-06 ± 2.7E-06	
	^{103}Ru	-1.2E-05 ± 5.4E-05	U
	^{106}Ru	2.3E-04 ± 5.9E-04	U
	^{125}Sb	4.6E-05 ± 1.5E-04	U
	^{113}Sn	7.8E-05 ± 7.3E-05	U
	^{90}Sr	-8.9E-05 ± 1.0E-04	U
	^{234}U	1.1E-05 ± 7.4E-06	
	^{235}U	3.7E-06 ± 3.6E-06	
	^{238}U	1.1E-05 ± 7.4E-06	
	^{65}Zn	-1.1E-04 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N200 (200 WEST) Composite Period 12/22/03 to 06/22/04	^{144}Ce	3.1E-04 ± 6.6E-04	U
	^{60}Co	1.5E-04 ± 1.3E-04	U
	^{134}Cs	-4.1E-05 ± 7.3E-05	U
	^{137}Cs	2.0E-05 ± 6.3E-05	U
	^{152}Eu	8.8E-05 ± 1.6E-04	U
	^{154}Eu	7.2E-05 ± 2.3E-04	U
	^{155}Eu	1.8E-05 ± 1.7E-04	U
	^{238}Pu	3.5E-06 ± 1.4E-05	U
	$^{239/240}$Pu	5.9E-06 ± 5.7E-06	
	^{103}Ru	2.7E-05 ± 6.5E-05	U
	^{106}Ru	5.4E-04 ± 6.2E-04	U
	^{125}Sb	2.1E-04 ± 1.5E-04	U
	^{113}Sn	-3.1E-07 ± 3.1E-06	U
	^{90}Sr	-4.9E-05 ± 5.1E-05	U
	^{234}U	1.4E-05 ± 8.6E-06	
	^{235}U	4.6E-06 ± 4.1E-06	
	^{238}U	1.3E-05 ± 8.3E-06	
	^{65}Zn	1.7E-05 ± 1.7E-04	U
N200 (200 WEST) Composite Period 06/22/04 to 12/22/04	^{144}Ce	1.5E-04 ± 5.9E-04	U
	^{60}Co	-1.1E-05 ± 7.1E-05	U
	^{134}Cs	1.1E-06 ± 1.1E-05	U
	^{137}Cs	1.7E-05 ± 6.3E-05	U
	^{152}Eu	-2.6E-04 ± 2.7E-04	U
	^{154}Eu	-1.2E-04 ± 2.1E-04	U
	^{155}Eu	8.8E-05 ± 1.5E-04	U
	^{238}Pu	2.1E-06 ± 8.2E-06	U
	$^{239/240}$Pu	1.4E-06 ± 2.0E-06	U
	^{103}Ru	-3.9E-06 ± 3.9E-05	U
	^{106}Ru	-3.8E-05 ± 3.8E-04	U
	^{125}Sb	3.0E-06 ± 3.0E-05	U
	^{113}Sn	-1.4E-05 ± 5.9E-05	U
	^{90}Sr	-5.0E-05 ± 9.1E-05	U
	^{234}U	1.1E-05 ± 7.7E-06	
	^{235}U	3.6E-06 ± 3.5E-06	
	^{238}U	1.6E-05 ± 8.9E-06	
	^{65}Zn	-7.3E-05 ± 1.7E-04	U
N304 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	2.1E-04 ± 5.5E-04	U
	^{60}Co	2.3E-05 ± 7.0E-05	U
	^{134}Cs	4.2E-05 ± 7.6E-05	U
	^{137}Cs	7.2E-05 ± 7.7E-05	U
	^{152}Eu	-7.1E-05 ± 1.5E-04	U
	^{154}Eu	7.4E-05 ± 2.1E-04	U
	^{155}Eu	-2.2E-05 ± 1.4E-04	U
	^{238}Pu	2.7E-06 ± 1.8E-05	U
	$^{239/240}$Pu	4.5E-06 ± 6.9E-06	U
	^{103}Ru	-2.9E-05 ± 6.4E-05	U
	^{106}Ru	3.1E-04 ± 5.6E-04	U
	^{125}Sb	-5.5E-05 ± 1.4E-04	U
	^{113}Sn	1.8E-05 ± 5.9E-05	U
	^{90}Sr	-1.5E-05 ± 9.3E-05	U
	^{234}U	8.1E-06 ± 7.0E-06	U
	^{235}U	-7.4E-07 ± 2.6E-06	U
	^{238}U	1.3E-05 ± 7.6E-06	
	^{65}Zn	2.4E-04 ± 1.8E-04	U
N304 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	3.5E-05 ± 3.5E-04	U
	^{60}Co	-2.2E-05 ± 9.7E-05	U
	^{134}Cs	5.3E-05 ± 1.0E-04	U
	^{137}Cs	-1.1E-05 ± 9.3E-05	U
	^{152}Eu	1.3E-05 ± 1.3E-04	U
	^{154}Eu	3.0E-05 ± 2.8E-04	U
	^{155}Eu	-1.3E-04 ± 1.7E-04	U
	^{238}Pu	6.3E-06 ± 1.4E-05	U
	$^{239/240}$Pu	5.7E-05 ± 2.5E-05	
	^{103}Ru	2.6E-05 ± 9.5E-05	U
	^{106}Ru	-2.4E-04 ± 7.8E-04	U
	^{125}Sb	-1.3E-04 ± 2.4E-04	U
	^{113}Sn	-7.3E-06 ± 7.3E-05	U
	^{90}Sr	1.5E-05 ± 7.2E-05	U
	^{234}U	1.6E-05 ± 9.4E-06	
	^{235}U	3.5E-06 ± 3.6E-06	
	^{238}U	1.0E-05 ± 6.8E-06	
	^{65}Zn	-1.7E-04 ± 2.4E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N433 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-6.7E-05 ± 6.7E-04	U
	^{60}Co	1.2E-04 ± 8.4E-05	U
	^{134}Cs	2.4E-05 ± 8.0E-05	U
	^{137}Cs	6.7E-05 ± 6.8E-05	U
	^{152}Eu	-4.6E-05 ± 1.8E-04	U
	^{154}Eu	9.2E-05 ± 2.2E-04	U
	^{155}Eu	-8.6E-05 ± 2.0E-04	U
	^{238}Pu	1.0E-05 ± 1.4E-05	U
	$^{239/240}$Pu	4.8E-05 ± 2.2E-05	
	^{103}Ru	3.0E-05 ± 7.0E-05	U
	^{106}Ru	-4.8E-04 ± 7.2E-04	U
	^{125}Sb	-5.4E-05 ± 1.6E-04	U
	^{113}Sn	-1.9E-05 ± 7.6E-05	U
	^{90}Sr	-6.9E-05 ± 1.1E-04	U
	^{234}U	9.2E-06 ± 6.5E-06	
	^{235}U	6.0E-06 ± 4.8E-06	
	^{238}U	6.2E-06 ± 5.5E-06	U
	^{65}Zn	-1.7E-04 ± 1.8E-04	U
N441 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-4.5E-04 ± 7.0E-04	U
	^{60}Co	6.3E-06 ± 6.3E-05	U
	^{134}Cs	-2.0E-05 ± 6.6E-05	U
	^{137}Cs	1.3E-04 ± 8.4E-05	U
	^{152}Eu	-6.2E-05 ± 1.7E-04	U
	^{154}Eu	2.3E-05 ± 1.9E-04	U
	^{155}Eu	-6.2E-05 ± 1.8E-04	U
	^{238}Pu	4.0E-05 ± 2.5E-05	
	$^{239/240}$Pu	4.9E-04 ± 1.9E-04	
	^{103}Ru	-9.8E-05 ± 1.0E-04	U
	^{106}Ru	-7.7E-05 ± 6.2E-04	U
	^{125}Sb	4.8E-05 ± 1.5E-04	U
	^{113}Sn	-4.2E-06 ± 4.2E-05	U
	^{90}Sr	7.0E-06 ± 6.3E-05	U
	^{234}U	9.8E-06 ± 7.5E-06	
	^{235}U	1.4E-06 ± 2.8E-06	U
	^{238}U	1.0E-05 ± 6.9E-06	
	^{65}Zn	-5.4E-05 ± 1.6E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N433 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	1.2E-04 ± 6.7E-04	U
	^{60}Co	-1.2E-05 ± 7.8E-05	U
	^{134}Cs	5.7E-05 ± 7.5E-05	U
	^{137}Cs	6.0E-05 ± 6.7E-05	U
	^{152}Eu	-1.9E-04 ± 2.0E-04	U
	^{154}Eu	2.6E-05 ± 2.1E-04	U
	^{155}Eu	5.1E-05 ± 1.7E-04	U
	^{238}Pu	3.3E-06 ± 1.6E-05	U
	$^{239/240}$Pu	1.3E-05 ± 7.9E-06	
	^{103}Ru	-3.0E-05 ± 5.9E-05	U
	^{106}Ru	9.2E-05 ± 5.6E-04	U
	^{125}Sb	7.5E-06 ± 7.5E-05	U
	^{113}Sn	-4.7E-05 ± 6.9E-05	U
	^{90}Sr	-2.4E-05 ± 9.9E-05	U
	^{234}U	1.5E-05 ± 9.7E-06	
	^{235}U	4.7E-06 ± 4.6E-06	
	^{238}U	1.4E-05 ± 9.4E-06	
	^{65}Zn	1.5E-04 ± 1.6E-04	U
N441 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-2.2E-04 ± 6.6E-04	U
	^{60}Co	1.0E-04 ± 1.2E-04	U
	^{134}Cs	-1.7E-05 ± 7.3E-05	U
	^{137}Cs	1.4E-04 ± 1.2E-04	
	^{152}Eu	-2.5E-06 ± 2.5E-05	U
	^{154}Eu	5.0E-05 ± 2.4E-04	U
	^{155}Eu	1.2E-04 ± 1.7E-04	U
	^{238}Pu	-6.0E-06 ± 1.7E-05	U
	$^{239/240}$Pu	5.9E-06 ± 5.5E-06	U
	^{103}Ru	-4.1E-06 ± 4.1E-05	U
	^{106}Ru	-2.9E-04 ± 6.1E-04	U
	^{125}Sb	1.2E-04 ± 1.6E-04	U
	^{113}Sn	-1.3E-05 ± 7.0E-05	U
	^{90}Sr	-2.3E-05 ± 7.7E-05	U
	^{234}U	1.9E-05 ± 1.1E-05	
	^{235}U	8.3E-06 ± 6.6E-06	
	^{238}U	2.1E-05 ± 1.3E-05	
	^{65}Zn	1.1E-04 ± 1.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N442 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	4.4E-05 ± 4.4E-04	U
	^{60}Co	-5.5E-05 ± 8.0E-05	U
	^{134}Cs	7.0E-05 ± 7.4E-05	U
	^{137}Cs	1.2E-04 ± 9.6E-05	
	^{152}Eu	6.3E-05 ± 1.3E-04	U
	^{154}Eu	-9.3E-06 ± 9.3E-05	U
	^{155}Eu	-5.4E-05 ± 1.4E-04	U
	^{238}Pu	2.6E-05 ± 2.1E-05	U
	$^{239/240}$Pu	4.3E-04 ± 1.7E-04	
	^{103}Ru	1.4E-05 ± 6.2E-05	U
	^{106}Ru	1.5E-04 ± 5.1E-04	U
	^{125}Sb	6.3E-05 ± 1.4E-04	U
	^{113}Sn	-2.9E-05 ± 6.3E-05	U
	^{90}Sr	-5.6E-05 ± 7.1E-05	U
	^{234}U	1.0E-05 ± 7.5E-06	
	^{235}U	6.8E-07 ± 6.8E-06	U
	^{238}U	6.1E-06 ± 4.7E-06	
	^{65}Zn	-1.1E-04 ± 1.6E-04	U
N442 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-9.5E-05 ± 5.4E-04	U
	^{60}Co	8.7E-06 ± 8.7E-05	U
	^{134}Cs	1.5E-05 ± 7.4E-05	U
	^{137}Cs	2.9E-05 ± 6.3E-05	U
	^{152}Eu	4.6E-06 ± 4.6E-05	U
	^{154}Eu	3.3E-06 ± 3.3E-05	U
	^{155}Eu	9.4E-05 ± 1.5E-04	U
	^{238}Pu	2.3E-06 ± 1.3E-05	U
	$^{239/240}$Pu	1.5E-05 ± 9.6E-06	
	^{103}Ru	1.4E-05 ± 5.6E-05	U
	^{106}Ru	-2.1E-04 ± 5.6E-04	U
	^{125}Sb	-2.5E-05 ± 1.4E-04	U
	^{113}Sn	-4.1E-06 ± 4.1E-05	U
	^{90}Sr	2.2E-05 ± 9.4E-05	U
	^{234}U	1.2E-05 ± 7.7E-06	
	^{235}U	3.3E-06 ± 3.4E-06	
	^{238}U	1.7E-05 ± 9.7E-06	
	^{65}Zn	-1.6E-04 ± 1.7E-04	U
N449 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	2.5E-04 ± 6.8E-04	U
	^{60}Co	-2.8E-05 ± 8.0E-05	U
	^{134}Cs	-6.0E-05 ± 8.5E-05	U
	^{137}Cs	-3.9E-05 ± 6.1E-05	U
	^{152}Eu	4.3E-05 ± 1.6E-04	U
	^{154}Eu	1.0E-04 ± 2.1E-04	U
	^{155}Eu	-3.6E-05 ± 1.7E-04	U
	^{238}Pu	-5.5E-06 ± 1.3E-05	U
	$^{239/240}$Pu	1.3E-05 ± 9.2E-06	
	^{103}Ru	-6.1E-05 ± 7.0E-05	U
	^{106}Ru	-3.9E-04 ± 5.5E-04	U
	^{125}Sb	1.8E-04 ± 1.5E-04	U
	^{113}Sn	4.3E-06 ± 4.4E-05	U
	^{90}Sr	-7.6E-05 ± 1.0E-04	U
	^{234}U	9.1E-06 ± 6.7E-06	
	^{235}U	7.6E-07 ± 3.4E-06	U
	^{238}U	3.6E-06 ± 4.5E-06	U
	^{65}Zn	-3.1E-04 ± 3.2E-04	U
N449 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-3.6E-04 ± 6.6E-04	U
	^{60}Co	4.9E-05 ± 8.1E-05	U
	^{134}Cs	-4.1E-05 ± 8.3E-05	U
	^{137}Cs	1.2E-04 ± 9.6E-05	U
	^{152}Eu	-8.1E-05 ± 1.8E-04	U
	^{154}Eu	-1.8E-04 ± 2.5E-04	U
	^{155}Eu	-2.7E-05 ± 1.3E-04	U
	^{238}Pu	-7.5E-06 ± 1.2E-05	U
	$^{239/240}$Pu	3.7E-06 ± 4.6E-06	U
	^{103}Ru	-2.0E-05 ± 8.2E-05	U
	^{106}Ru	3.2E-04 ± 7.1E-04	U
	^{125}Sb	-6.5E-05 ± 1.8E-04	U
	^{113}Sn	5.0E-06 ± 5.0E-05	U
	^{90}Sr	-3.5E-05 ± 7.1E-05	U
	^{234}U	9.8E-06 ± 6.7E-06	
	^{235}U	1.9E-06 ± 3.0E-06	U
	^{238}U	1.1E-05 ± 7.0E-06	
	^{65}Zn	-5.3E-05 ± 1.9E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N456 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-4.1E-04 ± 7.6E-04	U
	^{60}Co	4.1E-06 ± 4.1E-05	U
	^{134}Cs	8.9E-06 ± 7.4E-05	U
	^{137}Cs	4.3E-05 ± 7.6E-05	U
	^{152}Eu	-1.5E-04 ± 1.9E-04	U
	^{154}Eu	-2.7E-05 ± 2.3E-04	U
	^{155}Eu	2.2E-04 ± 2.1E-04	U
	^{238}Pu	-1.1E-05 ± 1.3E-05	U
	$^{239/240}$Pu	5.3E-06 ± 6.0E-06	U
	^{103}Ru	-5.5E-05 ± 7.4E-05	U
	^{106}Ru	2.2E-04 ± 7.2E-04	U
	^{125}Sb	-1.5E-05 ± 1.5E-04	U
	^{113}Sn	-6.0E-06 ± 6.0E-05	U
	^{90}Sr	-4.1E-05 ± 1.1E-04	U
	^{234}U	1.0E-05 ± 7.5E-06	
	^{235}U	4.2E-06 ± 4.1E-06	
	^{238}U	5.4E-06 ± 4.6E-06	
	^{65}Zn	-1.1E-04 ± 1.7E-04	U
N457 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	2.6E-04 ± 7.5E-04	U
	^{60}Co	-1.8E-06 ± 1.8E-05	U
	^{134}Cs	-3.2E-05 ± 7.1E-05	U
	^{137}Cs	-7.7E-06 ± 6.4E-05	U
	^{152}Eu	-7.6E-05 ± 1.8E-04	U
	^{154}Eu	1.5E-04 ± 2.3E-04	U
	^{155}Eu	-6.8E-05 ± 2.0E-04	U
	^{238}Pu	-2.7E-06 ± 1.5E-05	U
	$^{239/240}$Pu	5.4E-06 ± 5.5E-06	U
	^{103}Ru	-2.6E-06 ± 2.6E-05	U
	^{106}Ru	-2.4E-04 ± 5.3E-04	U
	^{125}Sb	1.1E-04 ± 1.6E-04	U
	^{113}Sn	5.9E-06 ± 5.9E-05	U
	^{90}Sr	-6.9E-05 ± 8.1E-05	U
	^{234}U	7.4E-06 ± 7.1E-06	U
	^{235}U	2.4E-06 ± 3.6E-06	U
	^{238}U	1.2E-05 ± 8.0E-06	
	^{65}Zn	-3.5E-05 ± 1.6E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N456 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-5.3E-05 ± 5.3E-04	U
	^{60}Co	6.5E-05 ± 8.8E-05	U
	^{134}Cs	7.0E-05 ± 7.0E-05	U
	^{137}Cs	2.0E-05 ± 6.7E-05	U
	^{152}Eu	-1.2E-04 ± 1.7E-04	U
	^{154}Eu	-1.8E-05 ± 1.8E-04	U
	^{155}Eu	-2.9E-05 ± 1.6E-04	U
	^{238}Pu	-3.1E-06 ± 1.4E-05	U
	$^{239/240}$Pu	4.6E-06 ± 6.5E-06	U
	^{103}Ru	-1.5E-05 ± 5.6E-05	U
	^{106}Ru	-3.6E-04 ± 5.6E-04	U
	^{125}Sb	-3.5E-05 ± 1.4E-04	U
	^{113}Sn	-8.6E-06 ± 7.9E-05	U
	^{90}Sr	-8.5E-05 ± 1.1E-04	U
	^{234}U	1.6E-05 ± 9.6E-06	
	^{235}U	4.4E-06 ± 4.2E-06	
	^{238}U	1.4E-05 ± 8.5E-06	
	^{65}Zn	-4.8E-05 ± 1.6E-04	U
N457 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-5.3E-04 ± 6.9E-04	U
	^{60}Co	-5.2E-05 ± 9.1E-05	U
	^{134}Cs	3.4E-05 ± 7.3E-05	U
	^{137}Cs	2.4E-05 ± 6.8E-05	U
	^{152}Eu	-3.5E-05 ± 1.6E-04	U
	^{154}Eu	-2.0E-04 ± 2.6E-04	U
	^{155}Eu	3.3E-05 ± 1.7E-04	U
	^{238}Pu	-5.2E-06 ± 1.4E-05	U
	$^{239/240}$Pu	7.4E-07 ± 1.5E-06	U
	^{103}Ru	1.3E-05 ± 6.5E-05	U
	^{106}Ru	6.4E-05 ± 6.2E-04	U
	^{125}Sb	-1.9E-05 ± 1.5E-04	U
	^{113}Sn	-3.9E-05 ± 7.2E-05	U
	^{90}Sr	-9.5E-05 ± 9.9E-05	U
	^{234}U	1.5E-05 ± 1.0E-05	
	^{235}U	3.0E-06 ± 3.7E-06	
	^{238}U	6.4E-06 ± 6.5E-06	U
	^{65}Zn	-2.2E-05 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N956 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-5.2E-04 ± 7.8E-04	U
	^{60}Co	1.8E-05 ± 1.0E-04	U
	^{134}Cs	2.0E-05 ± 1.2E-04	U
	^{137}Cs	4.5E-04 ± 2.2E-04	
	^{152}Eu	4.6E-05 ± 2.2E-04	U
	^{154}Eu	3.0E-04 ± 3.2E-04	U
	^{155}Eu	5.0E-05 ± 1.6E-04	U
	^{238}Pu	1.7E-06 ± 7.2E-06	U
	$^{239/240}$Pu	5.0E-06 ± 4.6E-06	
	^{103}Ru	-1.0E-05 ± 1.1E-04	U
	^{106}Ru	1.1E-04 ± 7.5E-04	U
	^{125}Sb	-1.4E-04 ± 2.3E-04	U
	^{113}Sn	3.0E-05 ± 1.2E-04	U
	^{90}Sr	-1.6E-04 ± 1.6E-03	U
	^{234}U	1.2E-05 ± 7.4E-06	
	^{235}U	2.1E-06 ± 2.5E-06	
	^{238}U	5.0E-06 ± 4.4E-06	
	^{65}Zn	8.0E-06 ± 8.0E-05	U
N963 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-4.8E-04 ± 6.2E-04	U
	^{60}Co	2.6E-05 ± 8.4E-05	U
	^{134}Cs	5.3E-05 ± 7.9E-05	U
	^{137}Cs	5.5E-05 ± 8.3E-05	U
	^{152}Eu	-6.5E-05 ± 1.7E-04	U
	^{154}Eu	-1.8E-04 ± 2.4E-04	U
	^{155}Eu	7.0E-05 ± 1.6E-04	U
	^{238}Pu	9.9E-06 ± 1.7E-05	U
	$^{239/240}$Pu	1.3E-04 ± 5.2E-05	
	^{103}Ru	2.3E-06 ± 2.3E-05	U
	^{106}Ru	2.4E-04 ± 6.3E-04	U
	^{125}Sb	1.2E-04 ± 1.6E-04	U
	^{113}Sn	-2.8E-05 ± 7.5E-05	U
	^{90}Sr	-1.3E-06 ± 1.3E-05	U
	^{234}U	7.1E-06 ± 6.7E-06	U
	^{235}U	2.1E-06 ± 2.6E-06	
	^{238}U	7.7E-06 ± 5.6E-06	
	^{65}Zn	-5.8E-06 ± 5.8E-05	U

Location	Isotope	Result ± Uncertainty	RQ*
N956 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-5.5E-04 ± 7.4E-04	U
	^{60}Co	9.6E-05 ± 8.4E-05	U
	^{134}Cs	-5.6E-05 ± 7.3E-05	U
	^{137}Cs	1.9E-04 ± 1.3E-04	
	^{152}Eu	-1.4E-04 ± 1.7E-04	U
	^{154}Eu	1.2E-04 ± 2.0E-04	U
	^{155}Eu	-1.0E-04 ± 1.9E-04	U
	^{238}Pu	5.8E-07 ± 5.8E-06	U
	$^{239/240}$Pu	8.9E-06 ± 5.8E-06	
	^{103}Ru	7.1E-05 ± 7.2E-05	U
	^{106}Ru	-5.0E-04 ± 6.3E-04	U
	^{125}Sb	1.9E-04 ± 1.8E-04	U
	^{113}Sn	-2.1E-05 ± 7.4E-05	U
	^{90}Sr	-1.3E-04 ± 1.3E-04	U
	^{234}U	1.6E-05 ± 8.9E-06	
	^{235}U	2.3E-06 ± 4.2E-06	U
	^{238}U	1.3E-05 ± 7.8E-06	
	^{65}Zn	-8.9E-05 ± 1.6E-04	U
N963 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	1.5E-04 ± 6.6E-04	U
	^{60}Co	-2.4E-05 ± 8.2E-05	U
	^{134}Cs	-7.8E-06 ± 7.8E-05	U
	^{137}Cs	2.2E-05 ± 7.8E-05	U
	^{152}Eu	6.4E-05 ± 1.6E-04	U
	^{154}Eu	1.3E-04 ± 2.3E-04	U
	^{155}Eu	3.7E-05 ± 1.7E-04	U
	^{238}Pu	6.4E-06 ± 4.6E-06	
	$^{239/240}$Pu	2.4E-05 ± 1.2E-05	
	^{103}Ru	7.5E-05 ± 7.6E-05	U
	^{106}Ru	-2.0E-04 ± 6.5E-04	U
	^{125}Sb	9.2E-05 ± 1.6E-04	U
	^{113}Sn	2.4E-05 ± 7.1E-05	U
	^{90}Sr	-8.9E-05 ± 9.2E-05	U
	^{234}U	1.5E-05 ± 8.7E-06	
	^{235}U	1.6E-06 ± 3.3E-06	U
	^{238}U	1.3E-05 ± 8.0E-06	
	^{65}Zn	-1.6E-04 ± 1.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N964 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	4.9E-04 ± 5.5E-04	U
	^{60}Co	8.7E-05 ± 7.9E-05	U
	^{134}Cs	1.4E-05 ± 7.4E-05	U
	^{137}Cs	-2.4E-05 ± 6.6E-05	U
	^{152}Eu	-6.5E-05 ± 1.4E-04	U
	^{154}Eu	9.0E-05 ± 2.0E-04	U
	^{155}Eu	-3.8E-05 ± 1.4E-04	U
	^{238}Pu	-1.7E-06 ± 1.3E-05	U
	$^{239/240}$Pu	2.4E-05 ± 1.3E-05	
	^{103}Ru	7.2E-06 ± 6.8E-05	U
	^{106}Ru	4.3E-05 ± 4.3E-04	U
	^{125}Sb	-9.0E-06 ± 9.0E-05	U
	^{113}Sn	-2.4E-05 ± 7.0E-05	U
	^{90}Sr	-4.2E-05 ± 9.7E-05	U
	^{234}U	1.0E-05 ± 7.1E-06	
	^{235}U	3.4E-06 ± 3.3E-06	
	^{238}U	8.4E-06 ± 5.5E-06	
	^{65}Zn	-5.1E-05 ± 1.9E-04	U
N965 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-6.5E-04 ± 7.1E-04	U
	^{60}Co	-2.4E-05 ± 7.7E-05	U
	^{134}Cs	1.4E-04 ± 1.7E-04	
	^{137}Cs	5.3E-05 ± 6.9E-05	U
	^{152}Eu	-5.2E-05 ± 1.8E-04	U
	^{154}Eu	7.9E-05 ± 2.1E-04	U
	^{155}Eu	2.7E-05 ± 1.8E-04	U
	^{238}Pu	2.4E-06 ± 1.5E-05	U
	$^{239/240}$Pu	-1.6E-06 ± 5.2E-06	U
	^{103}Ru	-6.6E-05 ± 7.1E-05	U
	^{106}Ru	9.6E-05 ± 5.5E-04	U
	^{125}Sb	-2.6E-05 ± 1.5E-04	U
	^{113}Sn	4.3E-05 ± 7.1E-05	U
	^{90}Sr	-1.6E-04 ± 1.7E-04	U
	^{234}U	1.2E-05 ± 7.4E-06	
	^{235}U	2.7E-06 ± 2.8E-06	
	^{238}U	6.2E-06 ± 4.5E-06	
	^{65}Zn	-1.0E-04 ± 1.5E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N964 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-7.4E-05 ± 7.4E-04	U
	^{60}Co	2.3E-05 ± 1.1E-04	U
	^{134}Cs	-4.5E-05 ± 1.1E-04	U
	^{137}Cs	-1.7E-05 ± 1.0E-04	U
	^{152}Eu	-8.1E-05 ± 2.3E-04	U
	^{154}Eu	-2.3E-04 ± 2.7E-04	U
	^{155}Eu	4.3E-05 ± 1.8E-04	U
	^{238}Pu	6.5E-07 ± 6.5E-06	U
	$^{239/240}$Pu	5.8E-06 ± 4.4E-06	
	^{103}Ru	-3.8E-06 ± 3.8E-05	U
	^{106}Ru	5.3E-04 ± 8.6E-04	U
	^{125}Sb	-5.6E-05 ± 2.4E-04	U
	^{113}Sn	-1.8E-05 ± 1.1E-04	U
	^{90}Sr	-7.4E-06 ± 7.4E-05	U
	^{234}U	1.5E-05 ± 8.7E-06	
	^{235}U	2.2E-06 ± 3.4E-06	U
	^{238}U	1.3E-05 ± 7.8E-06	
	^{65}Zn	-2.5E-04 ± 2.6E-04	U
N965 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	2.2E-04 ± 5.8E-04	U
	^{60}Co	-5.4E-05 ± 8.4E-05	U
	^{134}Cs	-5.3E-05 ± 7.1E-05	U
	^{137}Cs	-2.3E-06 ± 2.3E-05	U
	^{152}Eu	-1.1E-04 ± 1.7E-04	U
	^{154}Eu	-6.9E-06 ± 6.9E-05	U
	^{155}Eu	-5.0E-05 ± 1.6E-04	U
	^{238}Pu	-6.5E-07 ± 2.9E-06	U
	$^{239/240}$Pu	3.9E-06 ± 3.4E-06	
	^{103}Ru	1.2E-05 ± 6.4E-05	U
	^{106}Ru	-1.6E-04 ± 6.0E-04	U
	^{125}Sb	-1.5E-05 ± 1.5E-04	U
	^{113}Sn	3.2E-05 ± 6.9E-05	U
	^{90}Sr	-3.0E-05 ± 8.0E-05	U
	^{234}U	1.8E-05 ± 9.9E-06	
	^{235}U	5.3E-06 ± 4.5E-06	
	^{238}U	7.0E-06 ± 5.5E-06	
	^{65}Zn	-1.6E-04 ± 1.7E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N966 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	4.1E-04 ± 7.6E-04	U
	^{60}Co	9.9E-05 ± 1.0E-04	U
	^{134}Cs	7.8E-06 ± 7.8E-05	U
	^{137}Cs	1.0E-04 ± 1.0E-04	U
	^{152}Eu	-2.0E-04 ± 2.4E-04	U
	^{154}Eu	1.9E-04 ± 3.0E-04	U
	^{155}Eu	-1.2E-04 ± 1.7E-04	U
	^{238}Pu	-1.4E-05 ± 1.7E-05	U
	$^{239/240}$Pu	5.2E-06 ± 5.3E-06	U
	^{103}Ru	-1.5E-05 ± 1.2E-04	U
	^{106}Ru	-5.1E-04 ± 8.0E-04	U
	^{125}Sb	1.4E-04 ± 2.1E-04	U
	^{113}Sn	4.6E-05 ± 1.0E-04	U
	^{90}Sr	-1.4E-04 ± 1.4E-04	U
	^{234}U	6.3E-06 ± 4.6E-06	
	^{235}U	2.8E-06 ± 2.9E-06	
	^{238}U	7.3E-06 ± 5.0E-06	
	^{65}Zn	1.1E-04 ± 1.8E-04	U
N974 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	2.5E-04 ± 8.3E-04	U
	^{60}Co	2.2E-05 ± 9.5E-05	U
	^{134}Cs	-3.7E-05 ± 9.8E-05	U
	^{137}Cs	3.7E-05 ± 9.5E-05	U
	^{152}Eu	1.4E-04 ± 2.2E-04	U
	^{154}Eu	2.8E-04 ± 3.1E-04	U
	^{155}Eu	2.2E-05 ± 1.6E-04	U
	^{238}Pu	1.6E-05 ± 2.0E-05	U
	$^{239/240}$Pu	3.0E-06 ± 5.4E-06	U
	^{103}Ru	4.0E-06 ± 4.0E-05	U
	^{106}Ru	5.2E-05 ± 5.2E-04	U
	^{125}Sb	-4.9E-05 ± 2.2E-04	U
	^{113}Sn	1.2E-05 ± 1.1E-04	U
	^{90}Sr	2.8E-05 ± 9.4E-05	U
	^{234}U	6.7E-06 ± 6.3E-06	U
	^{235}U	7.1E-06 ± 5.7E-06	
	^{238}U	7.8E-06 ± 6.0E-06	
	^{65}Zn	-2.3E-04 ± 2.4E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N966 (200 WEST) Composite Period 06/21/04 to 12/21/04	^{144}Ce	-3.0E-04 ± 7.8E-04	U
	^{60}Co	-2.6E-05 ± 8.8E-05	U
	^{134}Cs	-1.9E-05 ± 7.5E-05	U
	^{137}Cs	6.4E-05 ± 7.3E-05	U
	^{152}Eu	-6.8E-05 ± 1.8E-04	U
	^{154}Eu	-1.4E-04 ± 3.1E-04	U
	^{155}Eu	4.5E-05 ± 2.1E-04	U
	^{238}Pu	-2.4E-05 ± 2.4E-05	U
	$^{239/240}$Pu	6.2E-06 ± 5.2E-06	
	^{103}Ru	2.1E-05 ± 7.0E-05	U
	^{106}Ru	-1.1E-04 ± 6.3E-04	U
	^{125}Sb	4.2E-05 ± 1.8E-04	U
	^{113}Sn	-3.9E-05 ± 8.2E-05	U
	^{90}Sr	-1.4E-04 ± 1.4E-04	U
	^{234}U	1.2E-05 ± 7.6E-06	
	^{235}U	3.0E-06 ± 3.7E-06	U
	^{238}U	8.6E-06 ± 6.1E-06	
	^{65}Zn	-2.8E-05 ± 1.8E-04	U
N974 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	1.7E-04 ± 8.6E-04	U
	^{60}Co	-3.6E-07 ± 3.6E-06	U
	^{134}Cs	1.1E-04 ± 1.3E-04	U
	^{137}Cs	2.1E-05 ± 1.0E-04	U
	^{152}Eu	9.2E-05 ± 3.0E-04	U
	^{154}Eu	-4.9E-05 ± 3.1E-04	U
	^{155}Eu	1.6E-04 ± 2.0E-04	U
	^{238}Pu	8.9E-07 ± 8.9E-06	U
	$^{239/240}$Pu	6.9E-06 ± 5.5E-06	
	^{103}Ru	-5.5E-05 ± 1.2E-04	U
	^{106}Ru	-3.4E-04 ± 9.8E-04	U
	^{125}Sb	6.8E-05 ± 2.5E-04	U
	^{113}Sn	-3.3E-05 ± 1.2E-04	U
	^{90}Sr	-4.0E-05 ± 9.8E-05	U
	^{234}U	1.2E-05 ± 8.6E-06	
	^{235}U	6.8E-06 ± 5.7E-06	
	^{238}U	3.5E-06 ± 3.7E-06	
	^{65}Zn	-4.5E-04 ± 4.6E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N975 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	-3.7E-04 ± 6.3E-04	
	^{60}Co	2.2E-06 ± 2.2E-05	
	^{134}Cs	-1.5E-05 ± 6.7E-05	
	^{137}Cs	2.6E-05 ± 6.5E-05	
	^{152}Eu	-6.3E-05 ± 1.4E-04	
	^{154}Eu	-3.1E-05 ± 2.3E-04	
	^{155}Eu	-6.5E-06 ± 6.5E-05	
	^{238}Pu	-9.3E-07 ± 9.3E-06	U
	$^{239/240}$Pu	2.4E-05 ± 1.4E-05	
	^{103}Ru	-5.8E-05 ± 8.4E-05	
	^{106}Ru	-3.6E-04 ± 5.6E-04	
	^{125}Sb	-2.9E-06 ± 2.9E-05	
	^{113}Sn	5.7E-05 ± 7.0E-05	
	^{90}Sr	2.9E-05 ± 9.2E-05	U
	^{234}U	8.6E-06 ± 6.8E-06	
	^{235}U	2.3E-06 ± 2.8E-06	
	^{238}U	1.1E-05 ± 6.9E-06	
	^{65}Zn	-1.2E-05 ± 1.2E-04	
N975 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-6.6E-04 ± 6.9E-04	U
	^{60}Co	4.6E-06 ± 4.6E-05	U
	^{134}Cs	-2.8E-05 ± 7.0E-05	U
	^{137}Cs	-2.3E-05 ± 6.6E-05	U
	^{152}Eu	-7.4E-05 ± 1.7E-04	U
	^{154}Eu	7.6E-05 ± 2.3E-04	U
	^{155}Eu	4.8E-05 ± 1.6E-04	U
	^{238}Pu	1.0E-05 ± 1.5E-05	U
	$^{239/240}$Pu	1.1E-05 ± 7.2E-06	
	^{103}Ru	1.2E-05 ± 6.4E-05	U
	^{106}Ru	-5.8E-04 ± 6.2E-04	U
	^{125}Sb	1.3E-04 ± 1.5E-04	U
	^{113}Sn	-1.4E-05 ± 6.6E-05	U
	^{90}Sr	-3.7E-05 ± 8.7E-05	U
	^{234}U	5.9E-06 ± 4.7E-06	
	^{235}U	2.4E-06 ± 2.9E-06	
	^{238}U	1.0E-05 ± 7.1E-06	
	^{65}Zn	-3.8E-06 ± 3.8E-05	U
N550 (200 WEST, U-Ancillary D&D) Composite Period 09/22/04 to 12/21/04	^{144}Ce	-8.3E-04 ± 1.6E-03	U
	^{60}Co	4.7E-05 ± 1.4E-04	U
	^{134}Cs	-1.8E-04 ± 1.9E-04	U
	^{137}Cs	8.0E-05 ± 1.5E-04	U
	^{152}Eu	1.0E-04 ± 4.2E-04	U
	^{154}Eu	-2.3E-05 ± 2.3E-04	U
	^{155}Eu	9.4E-06 ± 9.4E-05	U
	^{238}Pu	3.0E-06 ± 2.9E-05	U
	$^{239/240}$Pu	3.0E-06 ± 8.4E-06	U
	^{103}Ru	-1.2E-05 ± 1.2E-04	U
	^{106}Ru	8.5E-06 ± 8.5E-05	U
	^{125}Sb	6.9E-05 ± 3.5E-04	U
	^{113}Sn	-9.0E-05 ± 1.7E-04	U
	^{90}Sr	-1.1E-04 ± 1.8E-04	U
	^{234}U	1.9E-05 ± 1.3E-05	
	^{235}U	6.8E-06 ± 6.9E-06	
	^{238}U	2.4E-05 ± 1.5E-05	
	^{65}Zn	-5.6E-04 ± 5.8E-04	U
N551 (200 WEST, U-Ancillary D&D) Composite Period 09/22/04 to 12/21/04	^{144}Ce	-1.2E-03 ± 1.9E-03	U
	^{60}Co	1.4E-04 ± 2.6E-04	U
	^{134}Cs	8.7E-05 ± 2.4E-04	U
	^{137}Cs	1.7E-04 ± 2.3E-04	U
	^{152}Eu	2.2E-05 ± 2.2E-04	U
	^{154}Eu	-5.4E-04 ± 6.5E-04	U
	^{155}Eu	-8.6E-05 ± 3.8E-04	U
	^{238}Pu	6.0E-06 ± 2.5E-05	U
	$^{239/240}$Pu	-1.5E-06 ± 6.7E-06	U
	^{103}Ru	8.1E-05 ± 2.8E-04	U
	^{106}Ru	6.6E-04 ± 1.8E-03	U
	^{125}Sb	2.6E-04 ± 5.1E-04	U
	^{113}Sn	1.0E-04 ± 2.7E-04	U
	^{90}Sr	-9.4E-05 ± 1.6E-04	U
	^{234}U	1.6E-05 ± 1.4E-05	U
	^{235}U	5.2E-06 ± 6.3E-06	
	^{238}U	1.3E-05 ± 1.2E-05	U
	^{65}Zn	1.3E-04 ± 6.5E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N987 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	2.9E-05 ± 2.9E-04	U
	^{60}Co	-3.2E-05 ± 8.5E-05	U
	^{134}Cs	-2.1E-05 ± 7.1E-05	U
	^{137}Cs	3.3E-05 ± 6.1E-05	U
	^{152}Eu	3.3E-05 ± 1.4E-04	U
	^{154}Eu	5.0E-05 ± 1.9E-04	U
	^{155}Eu	4.6E-05 ± 1.5E-04	U
	^{238}Pu	-3.0E-06 ± 8.6E-06	U
	$^{239/240}$Pu	1.2E-05 ± 7.2E-06	
	^{103}Ru	-5.2E-05 ± 7.7E-05	U
	^{106}Ru	-1.7E-04 ± 5.7E-04	U
	^{125}Sb	-1.8E-04 ± 1.8E-04	U
	^{113}Sn	-3.3E-05 ± 6.9E-05	U
	^{90}Sr	-1.4E-05 ± 9.7E-05	U
	^{234}U	1.3E-05 ± 8.4E-06	
	^{235}U	2.8E-06 ± 2.9E-06	
	^{238}U	1.1E-05 ± 6.9E-06	
	^{65}Zn	-2.6E-05 ± 1.7E-04	U
N987 (200 WEST) Composite Period 06/21/04 to 08/02/04	^{144}Ce	2.1E-03 ± 2.2E-03	U
	^{60}Co	-6.9E-05 ± 3.2E-04	U
	^{134}Cs	1.2E-04 ± 2.9E-04	U
	^{137}Cs	-2.6E-04 ± 3.0E-04	U
	^{152}Eu	-3.9E-05 ± 3.9E-04	U
	^{154}Eu	-1.2E-04 ± 9.9E-04	U
	^{155}Eu	4.7E-05 ± 4.7E-04	U
	^{238}Pu	-1.5E-05 ± 5.1E-05	U
	$^{239/240}$Pu	2.9E-06 ± 1.6E-05	U
	^{103}Ru	-3.5E-05 ± 2.7E-04	U
	^{106}Ru	1.3E-03 ± 2.3E-03	U
	^{125}Sb	3.4E-05 ± 3.4E-04	U
	^{113}Sn	-4.6E-06 ± 4.6E-05	U
	^{90}Sr	-3.0E-04 ± 3.6E-04	U
	^{234}U	1.8E-05 ± 1.8E-05	U
	^{235}U	1.3E-05 ± 1.6E-05	U
	^{238}U	2.4E-05 ± 1.9E-05	
	^{65}Zn	-4.3E-04 ± 7.1E-04	U
N994 (200 WEST) Composite Period 12/22/03 to 06/21/04	^{144}Ce	1.3E-04 ± 5.9E-04	U
	^{60}Co	4.7E-05 ± 7.8E-05	U
	^{134}Cs	1.5E-05 ± 6.7E-05	U
	^{137}Cs	-3.3E-05 ± 5.9E-05	U
	^{152}Eu	1.7E-04 ± 1.9E-04	U
	^{154}Eu	9.0E-05 ± 2.3E-04	U
	^{155}Eu	-1.9E-04 ± 2.0E-04	U
	^{238}Pu	2.1E-06 ± 6.6E-06	U
	$^{239/240}$Pu	7.1E-07 ± 7.1E-06	U
	^{103}Ru	-2.7E-05 ± 8.1E-05	U
	^{106}Ru	-1.1E-04 ± 5.6E-04	U
	^{125}Sb	3.5E-05 ± 1.3E-04	U
	^{113}Sn	7.8E-06 ± 6.5E-05	U
	^{90}Sr	7.1E-06 ± 7.1E-05	U
	^{234}U	1.1E-05 ± 6.9E-06	
	^{235}U	1.4E-06 ± 3.5E-06	U
	^{238}U	4.5E-06 ± 4.6E-06	U
	^{65}Zn	2.0E-05 ± 1.4E-04	U
N994 (200 WEST) Composite Period 06/21/04 to 12/20/04	^{144}Ce	-8.0E-04 ± 8.3E-04	U
	^{60}Co	1.7E-05 ± 8.1E-05	U
	^{134}Cs	-3.8E-05 ± 7.4E-05	U
	^{137}Cs	5.8E-05 ± 6.9E-05	U
	^{152}Eu	1.6E-05 ± 1.6E-04	U
	^{154}Eu	-1.2E-04 ± 2.3E-04	U
	^{155}Eu	-6.2E-05 ± 1.9E-04	U
	^{238}Pu	1.1E-05 ± 1.5E-05	U
	$^{239/240}$Pu	2.9E-06 ± 3.1E-06	
	^{103}Ru	-2.8E-05 ± 7.7E-05	U
	^{106}Ru	-7.1E-04 ± 7.3E-04	U
	^{125}Sb	-2.9E-06 ± 2.9E-05	U
	^{113}Sn	-1.6E-05 ± 7.3E-05	U
	^{90}Sr	-8.1E-05 ± 8.4E-05	U
	^{234}U	1.2E-05 ± 7.3E-06	
	^{235}U	8.1E-07 ± 1.6E-06	U
	^{238}U	9.6E-06 ± 6.0E-06	
	^{65}Zn	1.8E-04 ± 1.8E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty).
(40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N527 (300-FF-2)	^{144}Ce	-6.3E-05 ± 6.3E-04	U
Composite Period	^{60}Co	-8.0E-05 ± 1.2E-04	U
08/30/04 to 12/22/04	^{134}Cs	7.3E-05 ± 1.3E-04	U
	^{137}Cs	4.4E-06 ± 4.5E-05	U
	^{152}Eu	-2.6E-04 ± 2.9E-04	U
	^{154}Eu	-4.2E-05 ± 3.9E-04	U
	^{155}Eu	-6.7E-05 ± 2.6E-04	U
	^{238}Pu	5.5E-06 ± 1.0E-05	U
	$^{239/240}$Pu	-4.4E-06 ± 4.5E-06	U
	^{103}Ru	-6.7E-05 ± 9.5E-05	U
	^{106}Ru	1.5E-04 ± 9.6E-04	U
	^{125}Sb	1.4E-04 ± 2.2E-04	U
	^{113}Sn	-2.2E-05 ± 9.9E-05	U
	^{234}U	3.2E-05 ± 1.8E-05	
	^{235}U	9.5E-06 ± 8.0E-06	
	^{238}U	1.7E-05 ± 1.2E-05	
	^{65}Zn	1.0E-04 ± 2.3E-04	U

Location	Isotope	Result ± Uncertainty	RQ*
N537 (300-FF-2)	^{144}Ce	-2.2E-04 ± 2.2E-03	U
Composite Period	^{60}Co	-4.3E-05 ± 4.1E-04	U
08/09/04 to 09/14/04	^{134}Cs	-1.9E-05 ± 1.9E-04	U
	^{137}Cs	-8.5E-05 ± 3.5E-04	U
	^{152}Eu	-9.6E-04 ± 1.0E-03	U
	^{154}Eu	-3.1E-04 ± 1.2E-03	U
	^{155}Eu	2.5E-04 ± 8.1E-04	U
	^{103}Ru	-2.1E-04 ± 3.3E-04	U
	^{106}Ru	2.8E-03 ± 3.1E-03	U
	^{125}Sb	-6.2E-04 ± 8.0E-04	U
	^{113}Sn	4.1E-04 ± 4.6E-04	U
	^{234}U	1.7E-04 ± 9.8E-05	
	^{235}U	2.7E-05 ± 3.2E-05	
	^{238}U	1.3E-04 ± 7.9E-05	
	^{65}Zn	-1.2E-03 ± 1.3E-03	U

Location	Isotope	Result ± Uncertainty	RQ*
N538 (300-FF-2)	^{144}Ce	3.9E-05 ± 3.9E-04	U
Composite Period	^{60}Co	-6.5E-04 ± 6.6E-04	U
08/09/04 to 09/14/04	^{134}Cs	-2.1E-04 ± 5.2E-04	U
	^{137}Cs	9.9E-05 ± 4.9E-04	U
	^{152}Eu	-4.6E-04 ± 1.2E-03	U
	^{154}Eu	5.2E-04 ± 1.5E-03	U
	^{155}Eu	-4.9E-04 ± 1.4E-03	U
	^{103}Ru	3.3E-04 ± 4.9E-04	U
	^{106}Ru	3.9E-03 ± 4.8E-03	U
	^{125}Sb	-4.7E-04 ± 1.1E-03	U
	^{113}Sn	8.5E-05 ± 5.4E-04	U
	^{234}U	1.9E-04 ± 9.7E-05	
	^{235}U	4.7E-05 ± 4.6E-05	U
	^{238}U	1.0E-04 ± 6.8E-05	
	^{65}Zn	-1.0E-03 ± 1.3E-03	U

Location	Isotope	Result ± Uncertainty	RQ*
N539 (300-FF-2)	^{144}Ce	-3.8E-04 ± 3.8E-03	U
Composite Period	^{60}Co	-2.9E-04 ± 7.2E-04	U
08/09/04 to 09/14/04	^{134}Cs	4.8E-04 ± 5.0E-04	U
	^{137}Cs	2.4E-04 ± 6.2E-04	U
	^{152}Eu	-1.4E-03 ± 1.6E-03	U
	^{154}Eu	2.0E-03 ± 2.1E-03	U
	^{155}Eu	8.7E-04 ± 1.5E-03	U
	^{103}Ru	-6.0E-05 ± 5.4E-04	U
	^{106}Ru	3.1E-03 ± 6.0E-03	U
	^{125}Sb	7.4E-04 ± 1.3E-03	U
	^{113}Sn	1.1E-04 ± 6.1E-04	U
	^{234}U	1.7E-04 ± 8.9E-05	
	^{235}U	8.3E-06 ± 8.4E-06	U
	^{238}U	1.3E-04 ± 7.8E-05	
	^{65}Zn	-1.7E-03 ± 1.7E-03	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N540 (300-FF-2)	^{144}Ce	5.0E-03 ± 8.7E-03	U
Composite Period	^{60}Co	-1.3E-04 ± 8.4E-04	U
08/09/04 to 09/14/04	^{134}Cs	3.5E-04 ± 7.8E-04	U
	^{137}Cs	4.6E-04 ± 7.8E-04	U
	^{152}Eu	-9.6E-04 ± 2.0E-03	U
	^{154}Eu	-1.7E-04 ± 1.7E-03	U
	^{155}Eu	-1.1E-03 ± 2.1E-03	U
	^{103}Ru	-1.5E-04 ± 7.2E-04	U
	^{106}Ru	1.0E-03 ± 6.1E-03	U
	^{125}Sb	-7.4E-05 ± 7.5E-04	U
	^{113}Sn	-6.4E-05 ± 6.4E-04	U
	^{234}U	1.5E-04 ± 9.4E-05	
	^{235}U	4.0E-05 ± 4.9E-05	U
	^{238}U	1.2E-04 ± 9.1E-05	
	^{65}Zn	1.6E-03 ± 1.8E-03	U
N549 (300-FF-2)	^{144}Ce	8.0E-04 ± 2.8E-03	U
Composite Period	^{60}Co	-5.1E-05 ± 3.5E-04	U
08/31/04 to 12/03/04	^{134}Cs	1.6E-04 ± 3.9E-04	U
	^{137}Cs	-3.7E-06 ± 3.7E-05	U
	^{152}Eu	-4.0E-04 ± 9.4E-04	U
	^{154}Eu	2.9E-04 ± 1.2E-03	U
	^{155}Eu	1.5E-04 ± 6.0E-04	U
	^{238}Pu	3.0E-06 ± 1.6E-05	U
	$^{239/240}$Pu	-3.0E-06 ± 6.1E-06	U
	^{103}Ru	2.0E-04 ± 4.2E-04	U
	^{106}Ru	4.3E-04 ± 3.2E-03	U
	^{125}Sb	4.2E-04 ± 8.2E-04	U
	^{113}Sn	1.9E-05 ± 1.9E-04	U
	^{234}U	3.0E-05 ± 2.1E-05	
	^{235}U	2.8E-06 ± 9.7E-06	U
	^{238}U	2.0E-05 ± 1.9E-05	U
	^{65}Zn	-1.5E-03 ± 1.5E-03	U

Location	Isotope	Result ± Uncertainty	RQ*
N548 (300-FF-2)	^{144}Ce	-7.3E-04 ± 2.0E-03	U
Composite Period	^{60}Co	-1.5E-04 ± 2.7E-04	U
08/31/04 to 12/02/04	^{134}Cs	3.5E-05 ± 2.8E-04	U
	^{137}Cs	2.1E-04 ± 2.9E-04	U
	^{152}Eu	-3.2E-04 ± 5.3E-04	U
	^{154}Eu	-3.9E-04 ± 8.8E-04	U
	^{155}Eu	-8.4E-05 ± 5.2E-04	U
	^{238}Pu	4.3E-06 ± 6.2E-06	U
	$^{239/240}$Pu	4.3E-06 ± 1.1E-05	U
	^{103}Ru	9.8E-06 ± 9.8E-05	U
	^{106}Ru	-1.3E-03 ± 2.1E-03	U
	^{125}Sb	-2.2E-04 ± 5.4E-04	U
	^{113}Sn	-1.8E-05 ± 1.8E-04	U
	^{234}U	2.5E-05 ± 1.9E-05	
	^{235}U	5.4E-06 ± 7.6E-06	U
	^{238}U	6.4E-05 ± 3.3E-05	
	^{65}Zn	-6.2E-04 ± 7.1E-04	U
N130 (300 TEDF)	^{144}Ce	-2.8E-04 ± 7.0E-04	U
Composite Period	^{60}Co	3.6E-05 ± 7.3E-05	U
12/22/03 to 06/22/04	^{134}Cs	-4.8E-05 ± 6.8E-05	U
	^{137}Cs	-2.3E-05 ± 5.7E-05	U
	^{152}Eu	-1.4E-04 ± 1.6E-04	U
	^{154}Eu	1.8E-04 ± 2.3E-04	U
	^{155}Eu	-3.6E-06 ± 3.6E-05	U
	^{238}Pu	9.6E-07 ± 1.0E-06	U
	$^{239/240}$Pu	1.9E-06 ± 4.8E-06	U
	^{103}Ru	-8.8E-06 ± 5.7E-05	U
	^{106}Ru	4.0E-06 ± 4.0E-05	U
	^{125}Sb	-1.3E-04 ± 1.5E-04	U
	^{113}Sn	-4.4E-05 ± 6.9E-05	U
	^{90}Sr	1.4E-07 ± 1.4E-06	U
	^{234}U	1.4E-05 ± 8.0E-06	
	^{235}U	1.5E-06 ± 3.1E-06	U
	^{238}U	6.8E-06 ± 5.0E-06	
	^{65}Zn	7.0E-05 ± 1.4E-04	U

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

Table 2-4. Near-Facility Air Sampling Results, 2004 (pCi/m^3 ± total analytical uncertainty). (40 sheets total)

Location	Isotope	Result ± Uncertainty	RQ*
N130 (300 TEDF) Composite Period 06/22/04 to 12/22/04	^{144}Ce	-2.6E-04 ± 5.5E-04	U
	^{60}Co	-3.3E-05 ± 7.9E-05	U
	^{134}Cs	-7.6E-05 ± 7.8E-05	U
	^{137}Cs	5.6E-05 ± 6.8E-05	U
	^{152}Eu	9.7E-05 ± 1.6E-04	U
	^{154}Eu	-2.4E-06 ± 2.4E-05	U
	^{155}Eu	4.5E-05 ± 1.4E-04	U
	^{238}Pu	-3.8E-06 ± 1.4E-05	U
	$^{239/240}$Pu	1.5E-05 ± 9.0E-06	
	^{103}Ru	-1.2E-05 ± 5.5E-05	U
	^{106}Ru	-1.1E-05 ± 1.1E-04	U
	^{125}Sb	1.8E-04 ± 1.6E-04	U
	^{113}Sn	1.4E-05 ± 6.6E-05	U
	^{90}Sr	-5.7E-05 ± 8.9E-05	U
	^{234}U	1.9E-05 ± 1.1E-05	
	^{235}U	6.4E-06 ± 5.1E-06	
	^{238}U	1.4E-05 ± 8.8E-06	
	^{65}Zn	-6.6E-05 ± 1.6E-04	U
N981 (WYE Barricade) Composite Period 06/22/04 to 12/22/04	^{144}Ce	1.2E-04 ± 5.9E-04	U
	^{60}Co	-3.1E-06 ± 3.1E-05	U
	^{134}Cs	-2.1E-05 ± 6.5E-05	U
	^{137}Cs	3.7E-06 ± 3.7E-05	U
	^{152}Eu	-1.5E-04 ± 1.7E-04	U
	^{154}Eu	3.5E-05 ± 2.3E-04	U
	^{155}Eu	-1.0E-04 ± 1.4E-04	U
	^{238}Pu	6.6E-07 ± 6.6E-06	U
	$^{239/240}$Pu	-6.6E-07 ± 2.3E-06	U
	^{103}Ru	6.2E-06 ± 6.3E-05	U
	^{106}Ru	-1.1E-04 ± 5.1E-04	U
	^{125}Sb	-5.4E-05 ± 1.3E-04	U
	^{113}Sn	-5.7E-06 ± 5.7E-05	U
	^{90}Sr	9.8E-05 ± 1.0E-04	U
	^{234}U	7.0E-06 ± 5.2E-06	
	^{235}U	2.4E-06 ± 3.6E-06	U
	^{238}U	5.8E-06 ± 4.6E-06	
	^{65}Zn	-2.1E-04 ± 2.2E-04	U
N981 (WYE Barricade) Composite Period 12/22/03 to 06/22/04	^{144}Ce	-1.6E-04 ± 6.3E-04	U
	^{60}Co	-4.6E-05 ± 6.8E-05	U
	^{134}Cs	-2.6E-05 ± 6.9E-05	U
	^{137}Cs	4.4E-05 ± 5.9E-05	U
	^{152}Eu	9.8E-06 ± 9.8E-05	U
	^{154}Eu	-1.1E-04 ± 1.7E-04	U
	^{155}Eu	2.5E-04 ± 1.9E-04	U
	^{238}Pu	6.8E-07 ± 1.4E-06	U
	$^{239/240}$Pu	1.4E-06 ± 2.8E-06	U
	^{103}Ru	1.2E-04 ± 9.0E-05	U
	^{106}Ru	-5.0E-04 ± 5.5E-04	U
	^{125}Sb	-3.4E-05 ± 1.5E-04	U
	^{113}Sn	-3.0E-05 ± 7.3E-05	U
	^{90}Sr	-6.9E-05 ± 9.8E-05	U
	^{234}U	5.9E-06 ± 5.2E-06	U
	^{235}U	6.9E-07 ± 2.4E-06	U
	^{238}U	5.9E-06 ± 4.5E-06	
	^{65}Zn	2.9E-05 ± 1.4E-04	U

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

Table 2-5. Pacific Northwest National Laboratory Air Sampling Data, 2004
(pCi/m^3 ± total analytical uncertainty). (3 sheets total)

Sampler	Isotope	Result ± Uncertainty	RQ*
100 B			
Sample Period			
01/06/04 - 02/03/04	^{3}H	4.6E+00 ± 1.2E+00	
02/03/04 - 03/01/04	^{3}H	9.5E+00 ± 2.0E+00	
03/01/04 - 03/31/04	^{3}H	3.7E+00 ± 8.0E-01	
03/31/04 - 04/26/04	^{3}H	1.2E+01 ± 6.6E+00	
04/26/04 - 05/25/04	^{3}H	1.5E+00 ± 2.9E+00	U
05/25/04 - 06/21/04	^{3}H	2.7E+00 ± 9.4E-01	
06/21/04 - 07/19/04	^{3}H	8.9E-01 ± 5.2E-01	U
07/19/04 - 08/17/04	^{3}H	1.4E+00 ± 7.1E-01	
08/17/04 - 09/10/04	^{3}H	3.0E+00 ± 9.0E-01	
09/10/04 - 10/13/04	^{3}H	2.3E+00 ± 1.0E+00	
10/13/04 - 11/09/04	^{3}H	4.0E+00 ± 1.4E+00	
11/09/04 - 12/07/04	^{3}H	6.9E+00 ± 1.7E+00	
12/07/04 - 01/04/05	^{3}H	2.0E+01 ± 3.2E+00	
200 W SE	^{60}Co	-2.8E-04 ± 7.5E-04	U
Composite Period	^{134}Cs	-3.7E-04 ± 5.9E-04	U
12/30/03 - 04/06/04	^{137}Cs	1.2E-04 ± 8.2E-04	U
	^{152}Eu	-5.3E-04 ± 1.2E-03	U
	^{154}Eu	8.8E-04 ± 1.4E-03	U
	^{155}Eu	7.3E-04 ± 9.9E-04	U
	^{238}Pu	-3.3E-07 ± 4.0E-06	U
	$^{239,240}Pu$	3.2E-06 ± 6.5E-06	U
	^{106}Ru	-3.2E-03 ± 5.3E-03	U
	^{125}Sb	1.9E-04 ± 1.4E-03	U
	^{90}Sr	-4.8E-05 ± 3.8E-05	U
	^{234}U	2.5E-05 ± 1.0E-05	
	^{235}U	8.5E-07 ± 2.8E-06	U
	^{238}U	1.9E-05 ± 8.9E-06	
200 W SE	^{60}Co	7.0E-05 ± 5.0E-04	U
Composite Period	^{134}Cs	1.0E-04 ± 5.6E-04	U
06/28/04 - 10/04/04	^{137}Cs	6.8E-04 ± 5.4E-04	U
	^{152}Eu	-3.5E-04 ± 1.3E-03	U
	^{154}Eu	1.3E-03 ± 1.8E-03	U
	^{155}Eu	-1.3E-05 ± 7.9E-04	U
	^{238}Pu	8.4E-12 ± 1.4E-06	U
	$^{239,240}Pu$	6.0E-07 ± 3.2E-06	U
	^{106}Ru	-5.0E-03 ± 4.9E-03	U
	^{125}Sb	-1.0E-03 ± 1.5E-03	U
	^{90}Sr	5.1E-06 ± 3.1E-05	U
	^{234}U	-1.4E-05 ± 2.5E-04	U
	^{235}U	-1.4E-06 ± 1.4E-05	U
	^{238}U	2.2E-05 ± 9.7E-06	

Sampler	Isotope	Result ± Uncertainty	RQ*
100 B SE			
Sample Period			
02/03/04 - 03/01/04	^{3}H	5.5E+00 ± 1.1E+00	
03/01/04 - 03/31/04	^{3}H	3.4E+00 ± 4.9E-01	
03/31/04 - 04/26/04	^{3}H	8.5E+00 ± 4.2E+00	
04/26/04 - 05/25/04	^{3}H	8.8E-01 ± 1.9E+00	U
05/25/04 - 06/21/04	^{3}H	6.5E+00 ± 1.0E+00	
06/21/04 - 07/19/04	^{3}H	5.8E+00 ± 7.9E-01	
07/19/04 - 08/17/04	^{3}H	3.4E+00 ± 5.5E-01	
08/17/04 - 09/10/04	^{3}H	3.8E+00 ± 8.1E-01	
09/10/04 - 10/13/04	^{3}H	1.3E+00 ± 7.9E-01	
10/13/04 - 11/09/04	^{3}H	2.0E+00 ± 5.2E-01	
11/09/04 - 12/07/04	^{3}H	1.3E+00 ± 6.5E-01	
12/07/04 - 01/04/05	^{3}H	1.9E+00 ± 6.3E-01	
200 W SE	^{60}Co	1.7E-04 ± 8.5E-04	U
Composite Period	^{134}Cs	2.8E-04 ± 6.2E-04	U
04/06/04 - 06/28/04	^{137}Cs	-3.5E-04 ± 7.3E-04	U
	^{152}Eu	7.7E-04 ± 1.3E-03	U
	^{154}Eu	1.1E-03 ± 1.5E-03	U
	^{155}Eu	-2.4E-05 ± 9.0E-04	U
	^{238}Pu	9.2E-07 ± 1.8E-06	U
	$^{239,240}Pu$	9.6E-06 ± 7.5E-06	
	^{106}Ru	-7.5E-04 ± 5.4E-03	U
	^{125}Sb	6.1E-04 ± 1.2E-03	U
	^{90}Sr	-1.4E-04 ± 1.8E-04	U
	^{234}U	-3.1E-05 ± 3.0E-04	U
	^{235}U	2.8E-06 ± 1.8E-05	U
	^{238}U	1.5E-05 ± 1.8E-05	U
200 W SE	^{60}Co	-2.9E-04 ± 8.5E-04	U
Composite Period	^{134}Cs	-3.4E-04 ± 9.6E-04	U
10/04/04 - 12/27/04	^{137}Cs	-4.4E-04 ± 8.1E-04	U
	^{152}Eu	1.0E-03 ± 1.9E-03	U
	^{154}Eu	0.0E+00 ± 0.0E+00	U
	^{155}Eu	-5.6E-04 ± 1.2E-03	U
	^{238}Pu	-2.4E-07 ± 4.8E-07	U
	$^{239,240}Pu$	5.1E-06 ± 5.2E-06	U
	^{106}Ru	-6.6E-03 ± 6.2E-03	U
	^{125}Sb	4.3E-04 ± 1.6E-03	U
	^{90}Sr	-9.4E-05 ± 1.8E-04	U
	^{234}U	-2.7E-05 ± 3.0E-04	U
	^{235}U	-4.0E-06 ± 1.6E-05	U
	^{238}U	1.2E-05 ± 7.5E-06	

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

Table 2-5. Pacific Northwest National Laboratory Air Sampling Data, 2004
(pCi/m^3 ±total analytical uncertainty). (3 sheets total)

Sampler	Isotope	Result ± Uncertainty	RQ*
300 NE	^{60}Co	1.6E-04 ± 3.3E-04	U
Composite Period	^{134}Cs	-5.1E-05 ± 5.1E-04	U
01/08/04 - 04/01/04	^{137}Cs	2.5E-04 ± 4.6E-04	U
	^{152}Eu	-7.3E-04 ± 9.4E-04	U
	^{154}Eu	4.4E-04 ± 1.2E-03	U
	^{155}Eu	-1.6E-04 ± 6.6E-04	U
	^{238}Pu	-1.9E-07 ± 6.4E-07	U
	^{239,240}Pu	-3.6E-08 ± 6.7E-07	U
	^{106}Ru	-7.2E-04 ± 3.8E-03	U
	^{125}Sb	-5.6E-04 ± 9.2E-04	U
	^{90}Sr	-2.6E-05 ± 3.1E-05	U
	^{234}U	2.5E-05 ± 8.1E-06	
	^{235}U	6.4E-07 ± 1.6E-06	U
	^{238}U	3.6E-05 ± 1.0E-05	
300 NE	^{60}Co	9.3E-05 ± 3.8E-04	U
Composite Period	^{134}Cs	2.1E-04 ± 5.7E-04	U
07/08/04 - 10/01/04	^{137}Cs	2.0E-04 ± 5.3E-04	U
	^{152}Eu	9.5E-04 ± 1.2E-03	U
	^{154}Eu	4.4E-04 ± 1.7E-03	U
	^{155}Eu	7.2E-04 ± 8.2E-04	U
	^{238}Pu	-8.0E-07 ± 1.6E-06	U
	^{239,240}Pu	-2.4E-07 ± 2.6E-06	U
	^{106}Ru	-4.0E-04 ± 4.5E-03	U
	^{125}Sb	-5.6E-04 ± 1.1E-03	U
	^{90}Sr	-7.6E-07 ± 2.0E-05	U
	^{234}U	1.8E-05 ± 1.5E-04	U
	^{235}U	-3.5E-07 ± 8.5E-06	U
	^{238}U	3.2E-05 ± 8.7E-06	
300 NE			
Sample Period			
12/23/03 - 01/21/04	^{3}H	2.2E+00 ± 5.6E-01	
01/21/04 - 02/19/04	^{3}H	4.5E+00 ± 9.6E-01	
02/19/04 - 03/18/04	^{3}H	4.4E+00 ± 9.8E-01	
03/18/04 - 04/13/04	^{3}H	4.9E+00 ± 3.2E+00	
04/13/04 - 05/12/04	^{3}H	4.8E+00 ± 3.3E+00	
05/12/04 - 06/08/04	^{3}H	1.2E+01 ± 6.6E+00	
06/08/04 - 07/08/04	^{3}H	7.0E+00 ± 1.7E+00	
300 Trench			
Sample Period			
12/23/03 - 01/21/04	^{3}H	8.5E+00 ± 1.4E+00	
01/21/04 - 02/19/04	^{3}H	4.6E+00 ± 9.9E-01	
02/19/04 - 03/18/04	^{3}H	7.9E+00 ± 1.4E+00	
03/18/04 - 04/13/04	^{3}H	3.1E+00 ± 2.1E+00	
04/13/04 - 05/12/04	^{3}H	3.0E+00 ± 2.0E+00	
05/12/04 - 06/08/04	^{3}H	5.2E+00 ± 3.2E+00	
06/08/04 - 07/08/04	^{3}H	5.4E+00 ± 1.1E+00	

Sampler	Isotope	Result ± Uncertainty	RQ*
300 NE	^{60}Co	-1.9E-04 ± 3.1E-04	U
Composite Period	^{134}Cs	-1.7E-04 ± 3.5E-04	U
04/01/04 - 07/08/04	^{137}Cs	2.9E-04 ± 3.2E-04	U
	^{152}Eu	-4.1E-05 ± 7.6E-04	U
	^{154}Eu	2.3E-04 ± 5.3E-04	U
	^{155}Eu	4.0E-04 ± 6.8E-04	U
	^{238}Pu	2.8E-07 ± 9.5E-07	U
	^{239,240}Pu	-7.5E-07 ± 1.8E-06	U
	^{106}Ru	2.0E-04 ± 2.4E-03	U
	^{125}Sb	-4.7E-04 ± 7.4E-04	U
	^{90}Sr	-5.0E-05 ± 7.6E-05	U
	^{234}U	7.9E-06 ± 1.3E-04	U
	^{235}U	-4.0E-07 ± 7.3E-06	U
	^{238}U	1.8E-05 ± 1.0E-05	
300 NE	^{60}Co	-3.4E-04 ± 4.1E-04	U
Composite Period	^{134}Cs	2.5E-04 ± 5.3E-04	U
10/01/04 - 01/05/05	^{137}Cs	4.0E-05 ± 5.1E-04	U
	^{152}Eu	5.2E-04 ± 1.2E-03	U
	^{154}Eu	5.4E-04 ± 1.2E-03	U
	^{155}Eu	-6.3E-04 ± 8.7E-04	U
	^{238}Pu	6.2E-07 ± 7.2E-07	U
	^{239,240}Pu	1.7E-05 ± 4.8E-06	
	^{106}Ru	2.8E-04 ± 4.7E-03	U
	^{125}Sb	-2.8E-04 ± 1.2E-03	U
	^{90}Sr	-6.0E-05 ± 7.7E-05	U
	^{234}U	2.8E-05 ± 1.3E-04	U
	^{235}U	-9.6E-07 ± 7.5E-06	U
	^{238}U	4.6E-05 ± 1.1E-05	
300 NE			
Sample Period			
07/08/04 - 08/04/04	^{3}H	1.2E+01 ± 1.4E+00	
08/04/04 - 08/31/04	^{3}H	6.3E+00 ± 1.5E+00	
08/31/04 - 10/01/04	^{3}H	1.6E+00 ± 8.1E-01	
10/01/04 - 10/28/04	^{3}H	8.9E-01 ± 7.8E-01	U
10/28/04 - 11/23/04	^{3}H	1.9E+00 ± 1.1E+00	U
11/23/04 - 12/21/04	^{3}H	1.3E+00 ± 6.5E-01	
12/21/04 - 01/20/05	^{3}H	3.3E-01 ± 3.6E-01	U
300 Trench			
Sample Period			
07/08/04 - 08/04/04	^{3}H	1.7E+00 ± 6.0E-01	
08/04/04 - 08/31/04	^{3}H	1.1E+00 ± 1.1E+00	U
08/31/04 - 10/01/04	^{3}H	1.7E+00 ± 6.8E-01	
10/01/04 - 10/28/04	^{3}H	5.9E-02 ± 1.1E-01	U
10/28/04 - 11/23/04	^{3}H	1.4E+00 ± 4.9E-01	
11/23/04 - 12/21/04	^{3}H	1.3E+00 ± 6.3E-01	
12/21/04 - 01/20/05	^{3}H	1.7E-01 ± 4.0E-01	U

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

Table 2-5. Pacific Northwest National Laboratory Air Sampling Data, 2004
(pCi/m^3 ± total analytical uncertainty). (3 sheets total)

Sampler	Isotope	Result ± Uncertainty	RQ*
300 Water Intake			
Sample Period			
12/23/03 - 01/21/04	^{3}H	6.0E+00 ± 1.1E+00	
01/21/04 - 02/19/04	^{3}H	4.9E+00 ± 1.0E+00	
02/19/04 - 03/18/04	^{3}H	5.1E+00 ± 1.1E+00	
03/18/04 - 04/13/04	^{3}H	6.5E+00 ± 3.6E+00	
04/13/04 - 05/12/04	^{3}H	3.7E+00 ± 2.4E+00	
05/12/04 - 06/08/04	^{3}H	6.6E+00 ± 3.9E+00	
06/08/04 - 07/08/04	^{3}H	2.9E+00 ± 8.5E-01	
Yakima Barricade	^{60}Co	4.2E-05 ± 2.2E-04	U
Composite Period	^{134}Cs	-7.3E-05 ± 4.5E-04	U
01/09/04 - 04/05/04	^{137}Cs	1.6E-03 ± 6.6E-04	U
	^{152}Eu	2.3E-04 ± 7.8E-04	U
	^{154}Eu	-6.0E-04 ± 1.1E-03	U
	^{155}Eu	5.7E-04 ± 7.7E-04	U
	^{238}Pu	4.7E-07 ± 8.8E-07	U
	$^{239,240}Pu$	-2.2E-07 ± 4.1E-07	U
	^{106}Ru	-3.3E-03 ± 3.4E-03	U
	^{125}Sb	1.5E-04 ± 8.2E-04	U
	^{90}Sr	-1.5E-05 ± 2.5E-05	U
Yakima Barricade	^{60}Co	5.4E-04 ± 4.4E-04	U
Composite Period	^{134}Cs	-1.3E-04 ± 5.5E-04	U
07/09/04 - 10/02/04	^{137}Cs	-1.6E-04 ± 4.8E-04	U
	^{152}Eu	-5.2E-04 ± 1.2E-03	U
	^{154}Eu	-6.9E-04 ± 1.2E-03	U
	^{155}Eu	1.2E-04 ± 8.3E-04	U
	^{238}Pu	3.1E-07 ± 6.2E-07	U
	$^{239,240}Pu$	1.7E-07 ± 1.1E-06	U
	^{106}Ru	-5.7E-03 ± 5.3E-03	U
	^{125}Sb	-4.4E-04 ± 1.3E-03	U
	^{90}Sr	-2.4E-05 ± 5.2E-05	U
Yakima Barricade	^{234}U	-2.3E-04 ± 2.0E-03	U
Sample Period	^{235}U	-2.4E-05 ± 1.2E-04	U
08/27/04 - 09/07/04	^{238}U	1.1E-04 ± 8.1E-05	

Sampler	Isotope	Result ± Uncertainty	RQ*
300 Water Intake			
Sample Period			
07/08/04 - 08/04/04	^{3}H	6.2E+00 ± 8.7E-01	
08/04/04 - 08/31/04	^{3}H	1.5E+00 ± 9.1E-01	
08/31/04 - 10/01/04	^{3}H	1.2E+00 ± 7.6E-01	
10/01/04 - 10/28/04	^{3}H	6.9E-01 ± 8.4E-01	U
10/28/04 - 11/23/04	^{3}H	1.5E+00 ± 4.8E-01	
11/23/04 - 12/21/04	^{3}H	9.2E-01 ± 6.6E-01	
12/21/04 - 01/20/05	^{3}H	7.1E-01 ± 3.9E-01	
Yakima Barricade	^{60}Co	-1.7E-04 ± 2.8E-04	U
Composite Period	^{134}Cs	-3.1E-04 ± 3.0E-04	U
04/05/04 - 07/09/04	^{137}Cs	-2.1E-05 ± 2.4E-04	U
	^{152}Eu	-3.5E-04 ± 8.0E-04	U
	^{154}Eu	-6.0E-04 ± 9.8E-04	U
	^{155}Eu	-6.0E-05 ± 6.1E-04	U
	^{238}Pu	1.5E-11 ± 8.4E-07	U
	$^{239,240}Pu$	4.7E-07 ± 1.9E-06	U
	^{106}Ru	-6.6E-05 ± 3.1E-03	U
	^{125}Sb	1.9E-05 ± 7.8E-04	U
	^{90}Sr	-4.2E-05 ± 4.9E-05	U
Yakima Barricade	^{60}Co	-1.5E-04 ± 4.8E-04	U
Composite Period	^{134}Cs	-6.1E-05 ± 4.9E-04	U
10/02/04 - 01/06/05	^{137}Cs	3.2E-04 ± 4.1E-04	U
	^{152}Eu	-6.3E-04 ± 1.1E-03	U
	^{154}Eu	2.7E-04 ± 1.3E-03	U
	^{155}Eu	2.0E-04 ± 9.2E-04	U
	^{238}Pu	3.6E-08 ± 4.1E-07	U
	$^{239,240}Pu$	-1.2E-07 ± 9.6E-07	U
	^{106}Ru	-9.3E-05 ± 4.1E-03	U
	^{125}Sb	-7.4E-07 ± 9.8E-04	U
	^{90}Sr	-3.2E-05 ± 4.7E-05	U

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