Appendix C
Sample Locations and Analytical Results for Previous Closure Activities

(Previously Submitted)

Appendix C Sample Locations and Analytical Results for Previous Closure Activities

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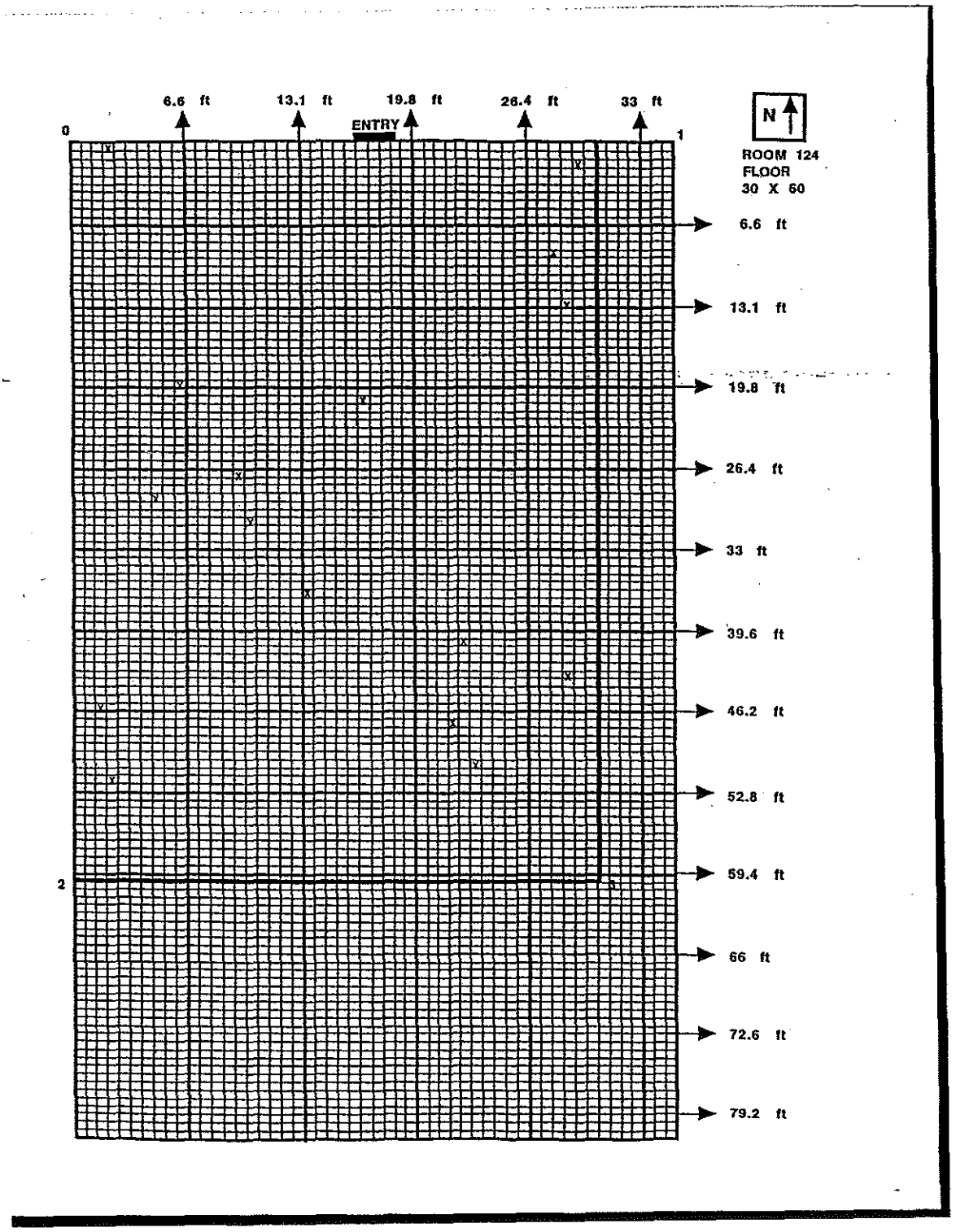

Figure C-1a. Floor sampling grid — Room 124

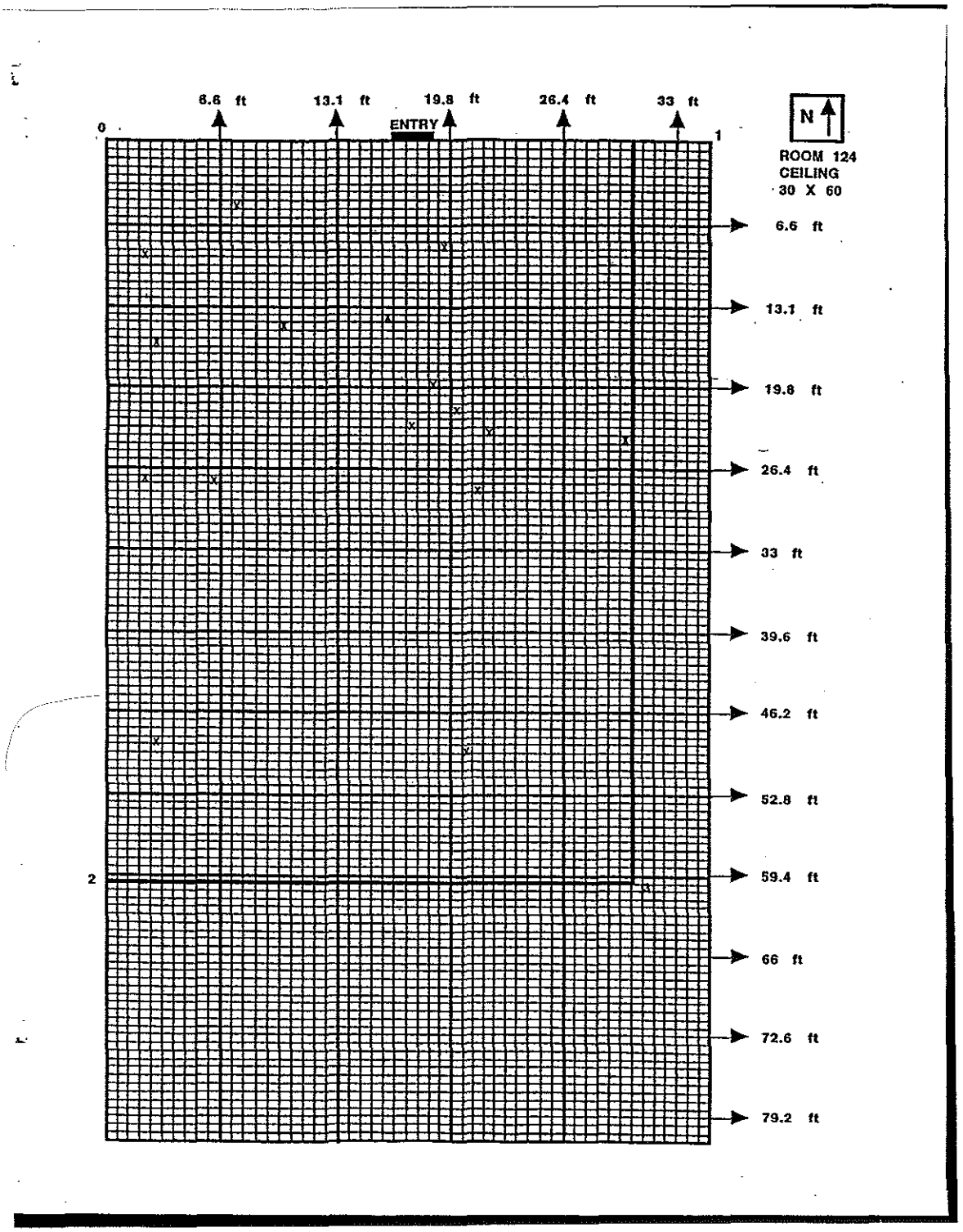

Figure C-1b. Ceiling sampling grid — Room 124

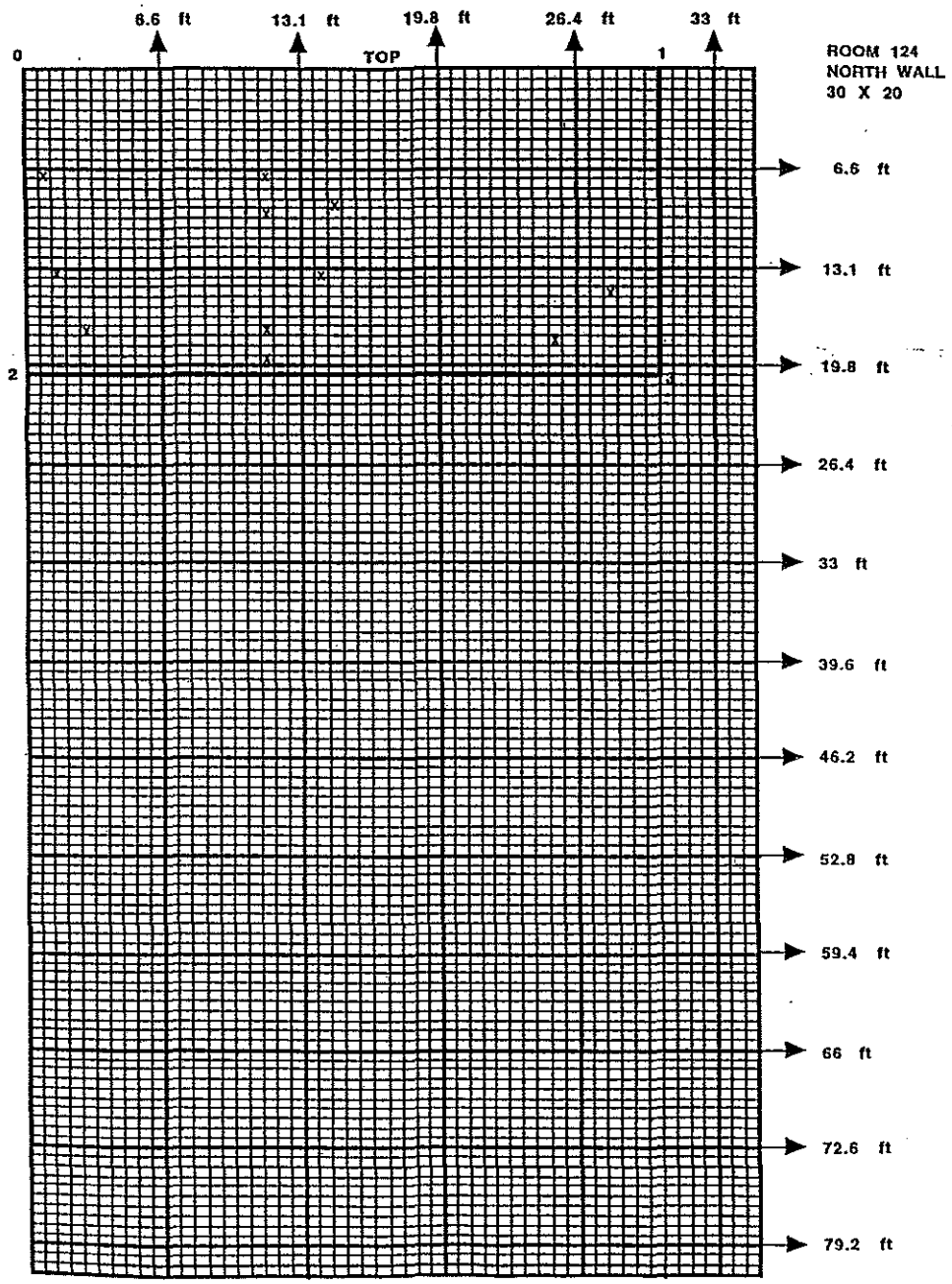

Figure C-1c. North wall sampling grid — Room 124

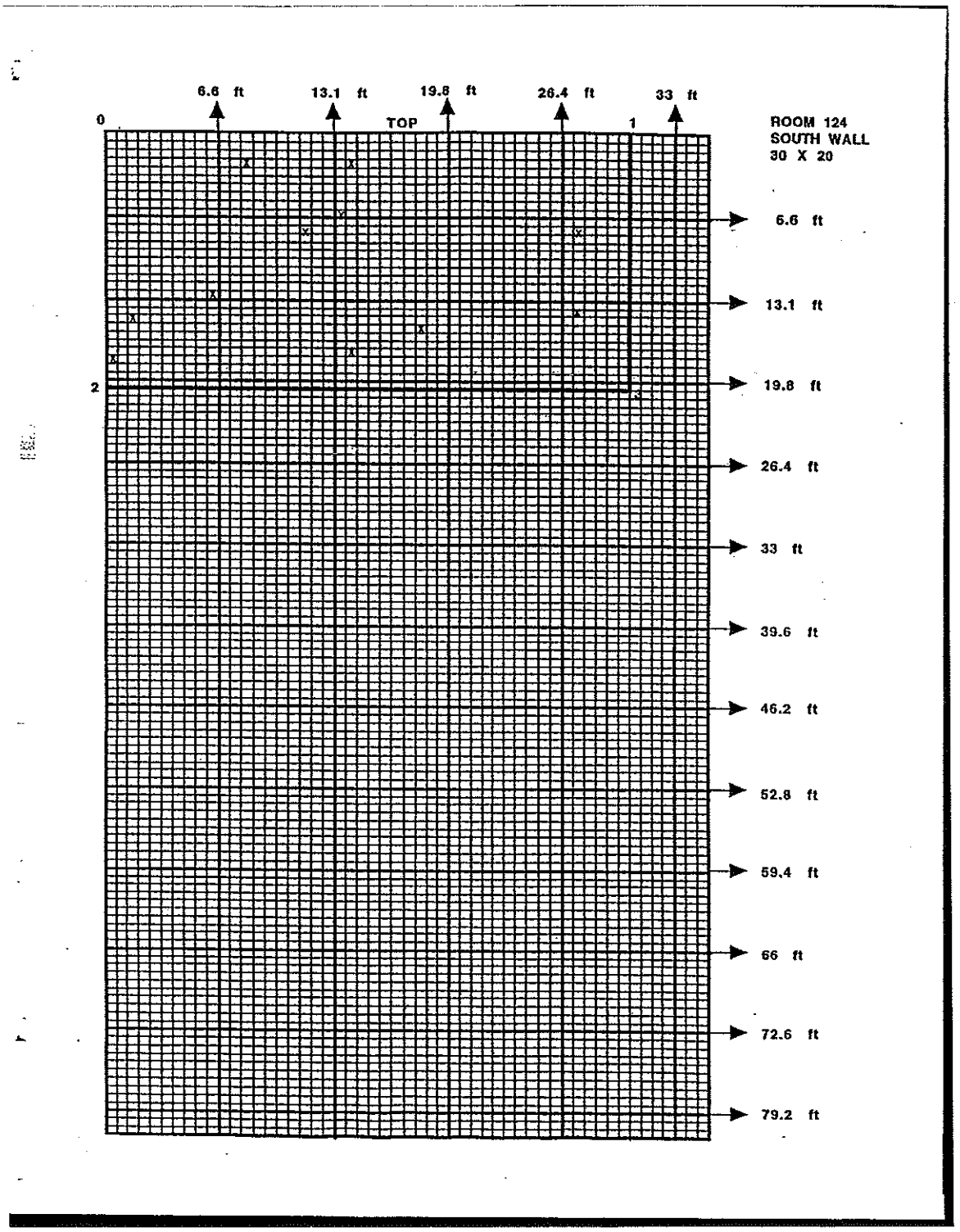

Figure C-1d. South wall sampling grid — Room 124

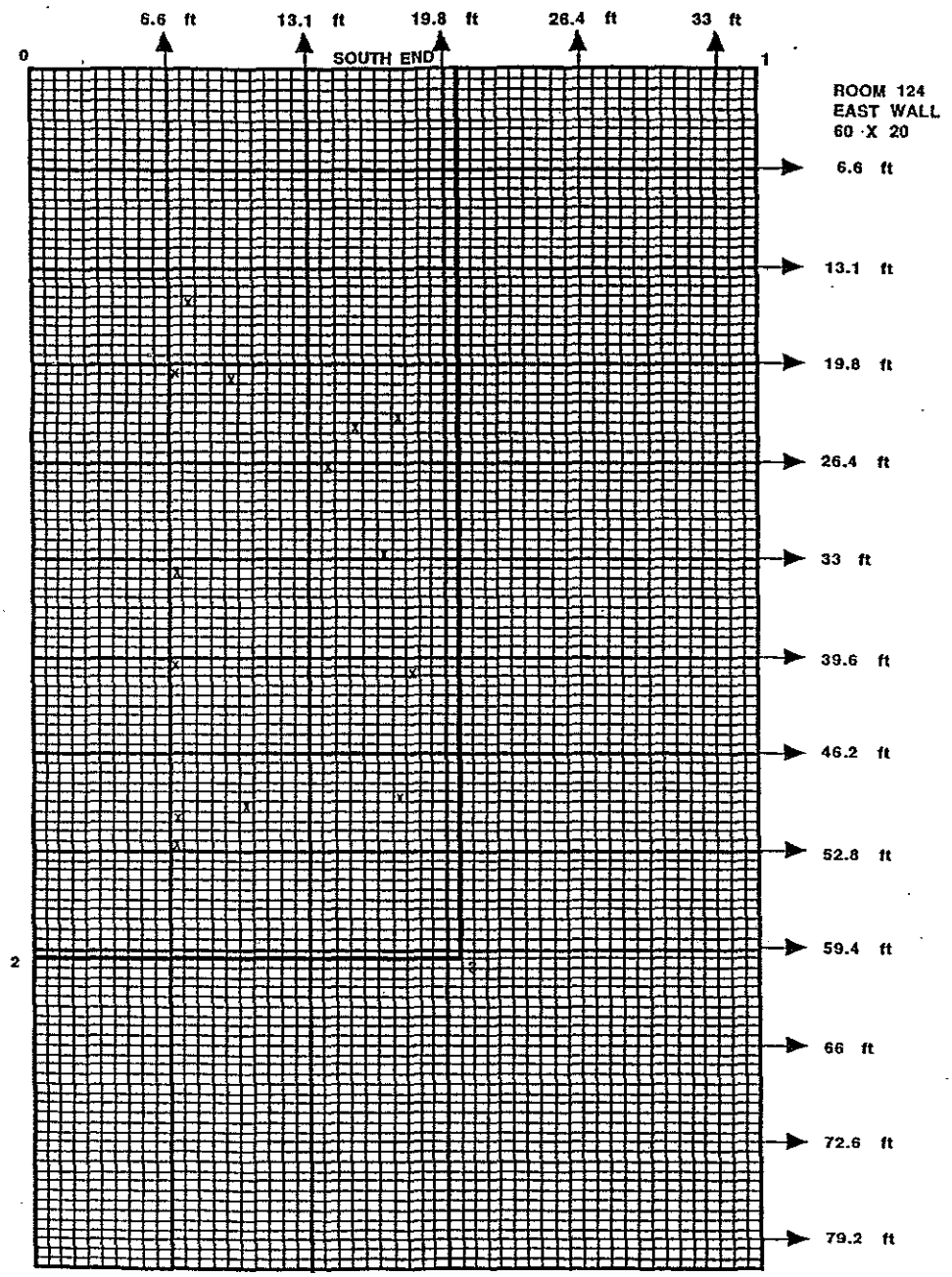

Figure C-1e. East wall sampling grid — Room 124

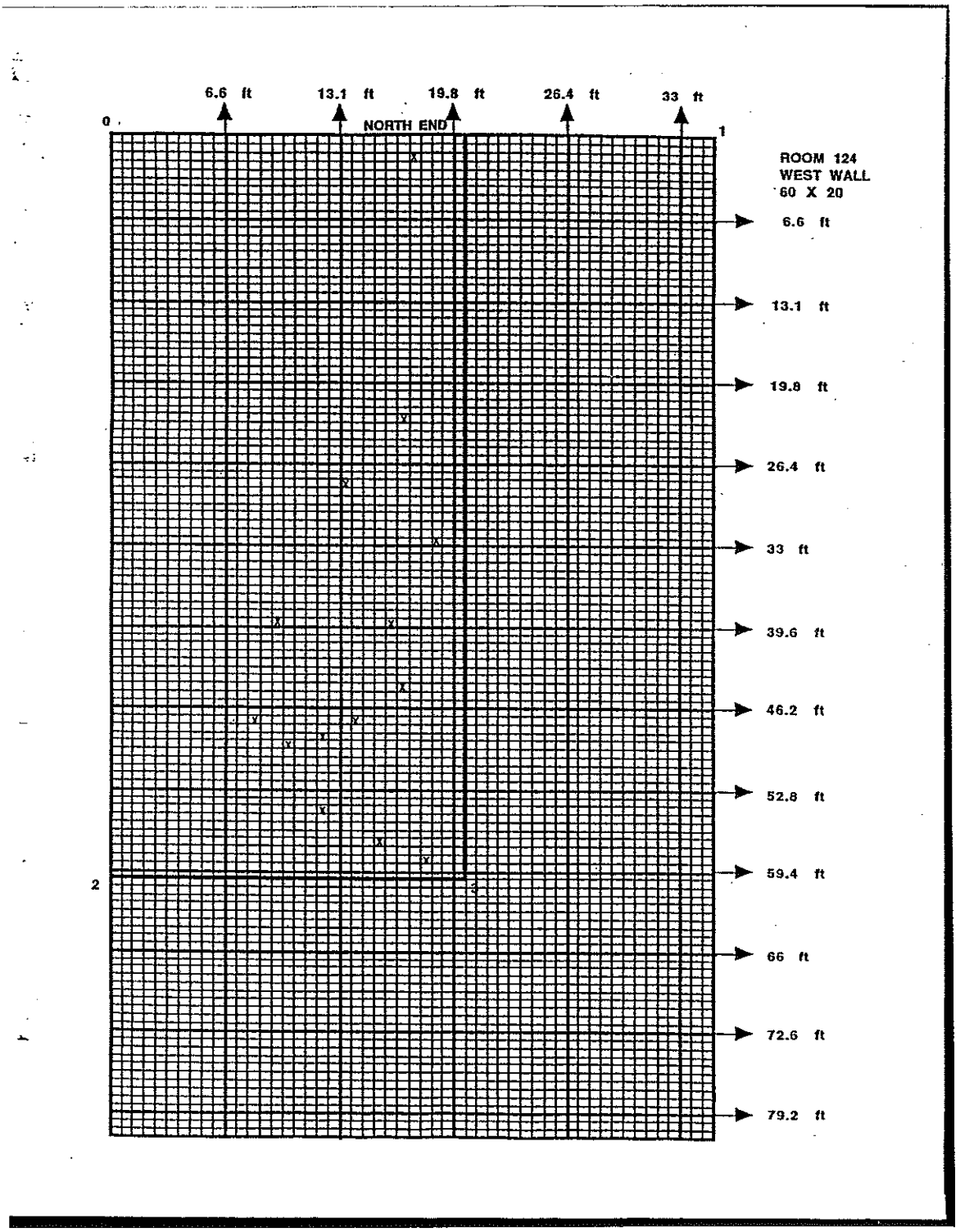

Figure C-1f West wall sampling grid — Room 124

Table C-1. Room 124 Structural Analytical Data

Sample number	Location	Grid location	Surveys (dpm/100 cm^2)		Swipes (dpm/100 cm^2)			Radiochemical (μCi/g) Values are 10^{-6}		
			Alpha	Beta/ Gamma	Alpha	Beta	Tritium	Alpha	Beta	Tritium
124-1	Floor	2.9x0.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-2	Floor	29.4x13	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-3	Floor	6.4x20.1	<300	<1000	<20	<200	<1000	LOS	LOS	9.7
124-4	Floor	17.1x21	<300	<1000	<20	<200	<1000	11	LOS	9.4
124-5	Floor	0.1x27.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-6	Floor	5x29	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-7	Floor	10.8x31	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-8	Floor	13.8x36.9	<300	<1000	<20	<200	<1000	6.4	LOS	8.2
124-9	Floor	23x41.1	<300	<1000	<20	<200	<1000	LOS	LOS	12
124-10	Floor	29.2x43.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-11	Floor	24x51.1	<300	<1000	<20	<200	<1000	10	LOS	LOS
124-12	Floor	2.8x52.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-13	Floor	22.3x47.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-14	Floor	2.3x45.9	<300	<1000	<20	<200	<1000	54	10	9.7
124-15	Floor	30x2.1	<300	<1000	<20	<200	<1000	11	LOS	15
124-16	Floor	28.6x16	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-17	Ceiling	23.6x8.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-18	Ceiling	5.6x23.1	<300	<1000	<20	<200	<1000	LOS	LOS	67
124-19	Ceiling	9.2x26.9	<300	<1000	<20	<200	<1000	LOS	10	35
124-20	Ceiling	8.3x11.5	<300	<1000	<20	<200	<1000	LOS	LOS	12
124-21	Ceiling	14.8x14.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-22	Ceiling	15.5x20.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-23	Ceiling	16.2x27.4	<300	<1000	<20	<200	<1000	LOS	LOS	5.8
124-24	Ceiling	20x12.1	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-25	Ceiling	21.6x10.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-26	Ceiling	23x13.4	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-27	Ceiling	24.7x0	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-28	Ceiling	27.9x24.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-29	Ceiling	27.9x28.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-30	Ceiling	28.4x9.4	<300	<1000	<20	<200	<1000	LOS	10	LOS
124-31	Ceiling	49.2x27.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-32	Ceiling	49.8x10.2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-33	N. Wall	14x30	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-34	N. Wall	13.5x19.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-35	N. Wall	11x19.5	<300	<1000	<20	<200	<1000	LOS	10	LOS
124-36	N. Wall	11.6x16.1	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-37	N. Wall	7.1x29.4	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-38	N. Wall	7x16.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-39	N. Wall	5.7x3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-40	N. Wall	3.5x19.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-41	N. Wall	2.4x4.9	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-42	N. Wall	3.3x28	<300	<1000	<20	<200	<1000	LOS	LOS	LOS

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	Location	Grid location	Surveys (dpm/100 cm^2)		Swipes (dpm/100 cm^2)			Radiochemical (μCi/g) Values are 10^{-6}		
			Alpha	Beta/ Gamma	Alpha	Beta	Tritium	Alpha	Beta	Tritium
124-43	N. Wall	1.6x19.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-44	S. Wall	18.5x15	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-45	S. Wall	1.6x12	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-46	S. Wall	18.6x8.9	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-47	S. Wall	3.4x14.7	<300	<1000	<20	<200	<1000	LOS	LOS	5.6
124-48	S. Wall	14.6x14	<300	<1000	28	<200	<1000	LOS	LOS	LOS
124-49	S. Wall	13.3x27.9	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-50	S. Wall	8x6.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-51	S. Wall	6.7x28.4	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-52	S. Wall	6.1x2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-53	S. Wall	5.6x19	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-54	S. Wall	3x1	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-55	E. Wall	14x26.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-56	E. Wall	14x8.1	<300	<1000	<20	<200	<1000	NA	NA	NA
124-57	E. Wall	13.8x39.6	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-58	E. Wall	13x45	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-59	E. Wall	11x39.6	<300	<1000	28	<200	<1000	LOS	LOS	LOS
124-60	E. Wall	13.6x10.2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-61	E. Wall	11.5x3.6	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-62	E. Wall	13.7x20.8	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-63	E. Wall	10.4x10.8	<300	<1000	<20	<200	<1000	NA	NA	NA
124-64	E. Wall	6.4x33.6	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-65	E. Wall	5.1x36.2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-66	E. Wall	4x28	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-67	E. Wall	3.3x37	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-68	E. Wall	2.5x20	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-69	W. Wall	11x21	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-70	W. Wall	10.6x11	<300	<1000	<20	<200	<1000	NA	NA	NA
124-71	W. Wall	4.4x21	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-72	W. Wall	13x12.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-73	W. Wall	8.7x5.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-74	W. Wall	8.8x12	<300	<1000	<20	<200	<1000	NA	NA	NA
124-75	W. Wall	7.5x32.7	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-76	W. Wall	6.8x13.5	<300	<1000	<20	<200	<1000	NA	NA	NA
124-77	W. Wall	5.6x3.2	<300	<1000	<20	<200	<1000	NA	NA	NA
124-78	W. Wall	4.3x37.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-79	W. Wall	4x15.8	<300	<1000	<20	<200	<1000	NA	NA	NA
124-80	W. Wall	3.4x58.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-81	W. Wall	2.7x2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
124-82	W. Wall	2x28	<300	<1000	<20	<200	<1000	LOS	20	LOS

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	TTLC Metals (μg/swipe)										
	Anti-mony	Arsenic	Barium	Beryl-lium	Cad-mium	Chromi-um	Cobalt	Copper	Lead	Mercury	Nickel
124-1	<4.6	<5.3	5.3	<0.02	0.39	2.0	<0.32	3.9	7.1	0.2	2.5
124-2	<4.6	<5.3	3.0	<0.02	<0.37	2.2	<0.32	2.1	<4.2	0.01	2.3
124-3	<4.6	<5.3	3.2	<0.02	<0.37	1.5	<0.32	5.2	<4.2	0.04	<1.6
124-4	<4.6	<5.3	4.3	<0.02	0.65	2.6	<0.32	4.9	5.3	0.04	3.7
124-5	<4.6	<5.3	6.8	0.06	1.6	11.2	0.64	15.3	6.2	0.06	9.2
124-6	<4.6	<5.3	2.8	<0.02	<0.37	2.0	<0.32	6.3	<4.2	0.05	2.3
124-7	<4.6	<5.3	3.4	<0.02	<0.37	1.9	<0.32	5.1	<4.2	0.27	4.3
124-8	<4.6	<5.3	5.1	<0.02	<0.37	3.5	<0.32	5.8	<4.2	0.34	4.2
124-9	<4.6	<5.3	6.9	<0.02	0.64	3.5	<0.32	8.0	<4.2	1.9	4.4
124-10	<4.6	<5.3	3.8	<0.02	<0.37	1.4	<0.32	3.6	<4.2	0.43	<1.6
124-11	<4.6	<5.3	3.8	<0.02	<0.37	1.5	<0.32	2.9	<4.2	16.1	<1.6
124-12	<4.6	<5.3	6.1	<0.02	<0.37	2.3	0.41	6.3	7.7	0.24	2.2
124-13	<4.6	<5.3	6.8	<0.02	0.78	3.0	<0.32	14.0	7.2	0.11	3.8
124-14	<4.6	<5.3	5.3	<0.02	0.44	2.9	<0.32	9.3	6.7	0.37	3.6
124-15	<4.6	<5.3	8.0	0.06	1.4	5.9	0.35	9.7	12.6	0.97	4.2
124-16	<4.6	<5.3	9.0	<0.02	1.0	6.1	0.41	7.9	12.7	10.0	5.0
124-17	<4.6	7.1	0.39	<0.02	<0.37	<0.34	<0.32	1.2	<4.2	0.02	<1.6
124-18	<4.6	7.0	0.62	<0.02	<0.37	0.34	<0.32	2.5	<4.2	0.02	<1.6
124-19	<4.6	<5.3	0.69	<0.02	<0.37	0.97	0.44	0.67	8.7	0.02	<1.6
124-20	<4.6	<5.3	0.39	<0.02	<0.37	<0.34	<0.32	0.63	<4.2	<0.01	<1.6
124-21	<4.6	<5.3	0.38	<0.02	<0.37	1.2	<0.32	0.57	<4.2	<0.01	<1.6
124-22	<4.6	<5.3	0.47	<0.02	<0.37	0.61	<0.32	1.3	<4.2	<0.01	<1.6
124-23	<4.6	<5.3	0.29	<0.02	<0.37	7.8	<0.32	0.38	<4.2	<0.01	<1.6
124-24	<4.6	<5.3	0.36	<0.02	<0.37	1.4	<0.32	0.56	<4.2	NA	<1.6
124-25	<4.6	<5.3	0.32	<0.02	<0.37	0.53	<0.32	0.43	<4.2	<0.01	<1.6
124-26	<4.6	<5.3	0.47	<0.02	<0.37	0.54	<0.32	1.2	<4.2	<0.01	<1.6
124-27	<4.6	<5.3	0.26	<0.02	<0.37	0.56	0.34	<0.25	<4.2	<0.01	<1.6
124-28	<4.6	<5.3	0.25	<0.02	<0.37	1.3	0.38	0.39	<4.2	0.01	<1.6
124-29	<4.6	<5.3	0.49	<0.02	<0.37	1.5	0.41	1.1	<4.2	0.02	<1.6
124-30	<4.6	<5.3	0.39	<0.02	<0.37	0.39	<0.32	1.3	<4.2	0.01	<1.6
124-31	<4.6	<5.3	0.34	<0.02	<0.37	1.6	<0.32	0.48	<4.2	0.01	<1.6
124-32	<4.6	<5.3	0.24	<0.02	<0.37	<0.34	<0.32	0.29	<4.2	0.01	<1.6
124-33	<4.6	<5.3	0.48	<0.02	<0.37	0.53	<0.32	1.0	<4.2	0.05	<1.6
124-34	<4.6	<5.3	0.87	<0.02	<0.37	0.91	<0.32	0.79	<4.2	0.72	2.1
124-35	<4.6	<5.3	0.96	<0.02	<0.37	1.4	<0.32	0.64	<4.2	1.3	2.5
124-36	<4.6	<5.3	0.52	<0.02	<0.37	0.54	<0.32	0.64	<4.2	0.05	<1.6
124-37	<4.6	<5.3	1.7	0.03	<0.37	3.4	<0.32	2.3	4.6	0.32	3.3
124-38	<4.6	<5.3	1.8	0.08	<0.37	3.3	<0.32	2.8	7.1	0.13	1.8
124-39	<4.6	<5.3	0.96	0.05	<0.37	0.87	<0.32	1.0	<4.2	1.3	2.5
124-40	<4.6	<5.3	0.49	<0.02	0.51	0.67	<0.32	0.52	<4.2	0.03	<1.6
124-41	<4.6	<5.3	2	0.03	3.5	2.0	<0.32	5.9	5.7	0.02	1.6
124-42	<4.6	<5.3	0.96	<0.02	1.2	2.3	<0.32	1.5	<4.2	0.04	1.7

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	TTLC Metals (μg/swipe)										
	Anti-mony	Arsenic	Barium	Beryl-lium	Cad-mium	Chromi-um	Cobalt	Copper	Lead	Mercury	Nickel
124-43	<4.6	<5.3	0.68	0.08	0.76	0.94	<0.32	0.7	<4.2	0.05	<1.6
124-44	<4.6	<5.3	0.8	0.04	<0.37	0.77	<0.32	1.6	5.3	0.06	<1.6
124-45	<4.6	<5.3	0.96	<0.02	<0.37	0.58	<0.32	0.69	5.3	0.02	2.1
124-46	<4.6	<5.3	0.73	<0.02	<0.37	0.71	<0.32	1.5	<4.2	0.08	2.5
124-47	<4.6	<5.3	2.2	<0.02	0.92	2.6	<0.32	2.3	<4.2	0.13	2.2
124-48	<4.6	<5.3	0.38	<0.02	<0.37	0.52	<0.32	1.8	<4.2	0.02	1.6
124-49	<4.6	5.7	1.1	<0.02	0.43	0.59	<0.32	0.74	<4.2	<0.01	<1.6
124-50	<4.6	<5.3	1.3	<0.02	<0.37	1.5	<0.32	1.6	4.3	0.06	<1.6
124-51	<4.6	<5.3	1.4	<0.02	<0.37	2.0	<0.32	1.3	6.4	0.03	<1.6
124-52	<4.6	<5.3	1.4	0.05	<0.37	9.4	0.38	2.0	5.3	0.14	2.3
124-53	<4.6	<5.3	1.2	<0.02	<0.37	2.9	<0.32	1.6	<4.2	0.07	2.0
124-54	<4.6	<5.3	0.87	<0.02	<0.37	1.9	<0.32	0.9	<4.2	0.04	<1.6
124-55	<4.6	<5.3	5.0	0.23	0.96	15.3	0.47	6.6	15.2	0.81	9.7
124-56	<5.0	<10.0	<0.2	<0.1	<0.5	<0.5	<0.5	1.0	<2.0	0.12	<0.2
124-57	<4.6	<5.3	0.96	<0.02	<0.37	1.5	<0.32	1.2	<4.2	0.18	2.0
124-58	<4.6	<5.3	0.88	<0.02	<0.37	1.3	<0.32	0.81	<4.2	0.13	2.2
124-59	<4.6	<5.3	1.3	<0.02	<0.37	2.1	<0.32	1.6	<4.2	0.07	2.3
124-60	<4.6	5.7	1.6	<0.02	<0.37	2.3	<0.32	1.9	4.5	0.15	2.4
124-61	<4.6	<5.3	1.2	<0.02	<0.37	1.2	<0.32	2.1	<4.2	0.04	2.5
124-62	<4.6	<5.3	1.3	<0.02	<0.37	3.1	<0.32	2.0	4.3	0.02	2.7
124-63	<4.6	<5.3	5.7	0.11	0.52	23.2	0.63	5.9	7.5	0.04	19.7
124-64	<4.6	<5.3	1.4	<0.02	<0.37	4.9	<0.32	3.1	7.0	0.25	1.8
124-65	<4.6	<5.3	1.1	0.05	<0.37	2.7	<0.32	2.0	7.8	0.04	2.4
124-66	<4.6	<5.3	0.68	0.05	<0.37	2.4	<0.32	1.7	<4.2	0.1	2.8
124-67	<4.6	<5.3	1.7	0.08	<0.37	4.9	<0.32	2.7	10.4	0.24	4.2
124-68	<4.6	<5.3	0.98	<0.02	<0.37	3.1	<0.32	1.8	4.5	0.05	2.4
124-69	<4.6	5.4	2.3	0.06	<0.37	1.9	<0.32	3.4	4.7	0.05	2.1
124-70	<4.6	<5.3	1.1	0.02	<0.37	0.66	<0.32	1.2	<4.2	<0.01	<1.6
124-71	<4.6	<5.3	2.6	0.22	0.64	6.4	<0.32	14.6	6.5	0.29	5.4
124-72	<4.6	<5.3	0.5	<0.02	<0.37	1.0	<0.32	1.0	<4.2	0.03	<1.6
124-73	<4.6	<5.3	1.1	<0.02	<0.37	0.71	<0.32	0.72	<4.2	0.02	<1.6
124-74	<4.6	<5.3	26.3	0.05	0.68	6.3	1.0	8.7	16.1	0.08	7.4
124-75	<4.6	<5.3	0.96	<0.02	<0.37	0.86	<0.32	2.7	<4.2	0.01	<1.6
124-76	<4.6	<5.3	18.5	0.04	2.0	5.3	0.56	7.1	13.7	0.18	5.4
124-77	<4.6	<5.3	4.3	0.03	0.96	1.5	0.44	1.9	<4.2	0.03	2.3
124-78	<4.6	5.4	0.87	<0.02	<0.37	0.99	<0.32	22.4	6.0	0.03	<1.6
124-79	<4.6	<5.3	25.0	0.09	1.3	8.9	0.99	9.6	20.5	0.14	8.5
124-80	<4.6	<5.3	0.68	<0.02	<0.37	0.62	<0.32	15.5	<4.2	0.03	<1.6
124-81	<4.6	<5.3	2.3	<0.02	<0.37	1.1	1.4	2.7	<4.2	0.04	<1.6
124-82	<4.6	<5.3	0.82	<0.02	<0.37	0.68	<0.32	1.0	<4.2	0.05	<1.6

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	TTLC metals (μg/swipe)						Bulk scrapings STLC (mg/L)					
	Sele-nium	Silver	Thallium	Vana-dium	Zinc	Molyb-denum	Anti-mony	Arsenic	Barium	Beryl-lium	Cad-mium	Chromi-um
124-1	<6.1	<0.37	<5.4	0.65	54.2	<0.65	<0.1	<0.2	0.88	<0.004	<0.02	0.56
124-2	<6.1	<0.37	<5.4	<0.31	35.3	<0.65	<0.1	<0.2	0.78	<0.004	<0.02	0.51
124-3	<6.1	<0.37	<5.4	<0.31	64.4	<0.65	<0.1	<0.2	0.7	<0.004	<0.02	0.59
124-4	<6.1	<0.37	<5.4	<0.31	143.0	<0.65	<0.1	<0.2	1.4	<0.004	<0.02	0.56
124-5	<6.1	<0.37	<5.4	0.72	198.0	<0.65	<0.1	<0.2	1.0	<0.004	<0.02	0.54
124-6	<6.1	<0.37	<5.4	0.48	65.5	<0.65	<0.1	<0.2	1.2	<0.004	<0.02	0.51
124-7	6.3	<0.37	<5.4	<0.31	73.7	<0.65	<0.1	<0.2	1.9	<0.004	<0.02	0.56
124-8	7.1	<0.37	<5.4	0.75	112.0	<0.65	<0.1	<0.2	1.3	<0.004	<0.02	0.63
124-9	<6.1	<0.37	<5.4	0.66	165.0	<0.65	<0.1	<0.2	6.2	<0.004	<0.02	0.93
124-10	8.6	<0.37	<5.4	0.48	96.1	<0.65	0.231	<0.264	1.59	0.0092	<0.0185	0.364
124-11	6.9	<0.37	<5.4	<0.31	59.4	<0.65	0.328	<0.264	0.0018	0.0076	<0.0185	0.376
124-12	<6.1	<0.37	<5.4	<0.31	101.0	<0.65	<0.1	<0.2	0.8	<0.004	<0.02	0.56
124-13	<6.1	<0.37	<5.4	<0.31	185.0	<0.65	<0.1	<0.2	0.86	<0.004	<0.02	0.59
124-14	<6.1	<0.37	<5.4	<0.31	92.9	<0.65	<0.1	<0.2	1.4	<0.004	0.01	0.62
124-15	<6.1	<0.37	<5.4	0.54	321.0	<0.65	<0.1	<0.2	0.67	<0.004	<0.02	0.58
124-16	<6.1	<0.37	<5.4	0.9	179.0	<0.65	<0.1	<0.2	1.2	<0.004	<0.02	0.57
124-17	<6.1	<0.37	<5.4	<0.31	6.5	<0.65	<0.1	<0.2	0.25	<0.004	<0.002	0.12
124-18	<6.1	<0.37	<5.4	0.59	15.5	<0.65	<0.1	<0.2	0.19	<0.004	<0.002	0.13
124-19	<6.1	<0.37	<5.4	<0.31	15.7	<0.65	<0.1	<0.2	0.17	0.17	0.02	0.12
124-20	<6.1	<0.37	<5.4	<0.31	5.3	<0.65	<0.23	<0.26	0.19	0.009	<0.018	0.15
124-21	<6.1	<0.37	<5.4	<0.31	4.5	<0.65	<0.1	<0.2	0.19	<0.002	<0.01	0.12
124-22	<6.1	<0.37	<5.4	<0.31	6.8	<0.65	<0.1	<0.2	0.18	<0.002	<0.01	0.12
124-23	<6.1	<0.37	<5.4	<0.31	3.8	<0.65	<0.1	<0.2	0.07	<0.002	<0.01	0.16
124-24	<6.1	<0.37	7.3	<0.31	3.0	<0.65	<0.1	<0.2	0.28	<0.002	<0.01	0.13
124-25	<6.1	<0.37	<5.4	<0.31	6.1	<0.65	<0.1	<0.2	0.18	<0.002	<0.01	0.18
124-26	<6.1	<0.37	<5.4	<0.31	4.2	<0.65	<0.1	<0.2	0.17	<0.002	<0.01	0.14
124-27	<6.1	<0.37	<5.4	<0.31	5.3	<0.65	<0.1	<0.2	0.14	<0.002	<0.01	0.12
124-28	<6.1	<0.37	<5.4	<0.31	4.6	<0.65	<0.1	<0.2	0.15	<0.002	<0.01	0.1
124-29	<6.1	<0.37	<5.4	0.38	7.7	<0.65	<0.1	<0.2	0.16	<0.002	<0.01	0.22
124-30	<6.1	<0.37	<5.4	<0.31	4.1	<0.65	<0.1	<0.2	0.16	<0.002	<0.01	0.12
124-31	<6.1	<0.37	<5.4	<0.31	5.5	<0.65	<0.1	<0.2	0.16	<0.002	<0.01	0.16
124-32	<6.1	<0.37	<5.4	<0.31	4.6	<0.65	<0.1	<0.2	0.14	<0.002	<0.01	0.18
124-33	<6.1	<0.37	<5.4	0.65	6.6	<0.65	<0.1	<0.2	0.96	<0.002	<0.01	0.29
124-34	<6.1	<0.37	<5.4	<0.31	12.9	<0.65	<0.1	<0.2	1.1	<0.002	<0.01	0.37
124-35	<6.1	<0.37	<5.4	<0.31	9.4	<0.65	<0.1	<0.2	1.1	<0.002	0.4	0.03
124-36	<6.1	<0.37	<5.4	0.31	6.0	<0.65	<0.1	<0.2	1.0	0.009	<0.01	0.36
124-37	<6.1	<0.37	<5.4	0.31	22.1	<0.65	<0.1	<0.2	1.1	<0.002	<0.01	0.31
124-38	<6.1	<0.37	<5.4	<0.31	25.4	<0.65	<0.1	<0.2	0.75	<0.002	<0.01	0.35
124-39	<6.1	0.38	<5.4	<0.31	9.0	<0.65	<0.1	<0.2	1.0	<0.002	0.01	0.38
124-40	<6.1	<0.37	<5.4	0.31	5.4	0.69	<0.1	<0.2	1.1	<0.002	<0.01	0.34
124-41	<6.1	<0.37	<5.4	<0.31	29.7	<0.65	<0.1	<0.2	1.0	<0.002	<0.01	0.33
124-42	<6.1	<0.37	<5.4	<0.31	10.0	<0.65	<0.1	<0.2	1.2	<0.002	<0.01	0.3

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	TTLC metals (μg/swipe)						Bulk scrapings STLC (mg/L)					
	Selenium	Silver	Thallium	Vanadium	Zinc	Molybdenum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
124-43	<6.1	<0.37	<5.4	<0.31	7.5	<0.65	<0.1	<0.2	1.1	<0.002	<0.01	0.32
124-44	<6.1	<0.37	<5.4	0.65	13.5	<0.65	0.4	<0.2	1.0	<0.002	<0.01	0.37
124-45	<6.1	<0.37	<5.4	<0.31	4.3	<0.65	<0.1	<0.2	1.8	<0.002	<0.01	0.45
124-46	<6.1	<0.37	<5.4	<0.31	13.9	<0.65	0.8	<0.2	1.0	<0.002	0.4	0.33
124-47	<6.1	<0.37	<5.4	<0.31	14.3	0.69	<0.1	<0.2	2.1	0.009	<0.01	0.42
124-48	<6.1	<0.37	<5.4	<0.31	12.2	<0.65	<0.1	<0.2	1.5	<0.002	<0.01	0.3
124-49	<6.1	<0.37	<5.4	<0.31	24.9	<0.65	<0.1	<0.2	0.76	<0.002	<0.01	0.44
124-50	<6.1	<0.37	<5.4	<0.31	42.6	<0.65	0.9	<0.2	0.9	<0.002	0.01	0.35
124-51	<6.1	<0.37	<5.4	<0.31	12.0	<0.65	<0.1	<0.2	0.75	<0.002	<0.01	0.39
124-52	<6.1	<0.37	<5.4	<0.31	17.4	<0.65	<0.1	<0.2	0.87	<0.002	<0.01	0.37
124-53	<6.1	<0.37	<5.4	<0.31	17.0	<0.65	<0.1	<0.2	2.1	<0.002	<0.01	0.37
124-54	<6.1	<0.37	<5.4	<0.31	8.3	<0.65	<0.1	<0.2	1.9	<0.002	<0.01	0.37
124-55	<6.1	<3.7	<5.4	<0.31	284	<0.65	0.33	<0.2	0.89	<0.002	<0.01	0.39
124-56	<5.0	<1.0	<10.0	<2.0	0.03	<0.8	0.1	<0.2	0.83	<0.002	<0.01	0.36
124-57	<6.1	<3.7	<5.4	<0.31	10.7	<0.65	0.3	<0.2	0.79	<0.002	<0.01	0.33
124-58	<6.1	<3.7	<5.4	<0.31	13.1	0.69	1.5	<0.2	0.86	<0.002	<0.01	0.25
124-59	<6.1	<3.7	<5.4	<0.31	8.4	<0.65	0.2	<0.2	0.71	<0.002	<0.01	0.37
124-60	<6.1	<3.7	<5.4	<0.31	68.7	<0.65	0.1	<0.2	0.92	<0.002	<0.01	0.35
124-61	<6.1	<3.7	<5.4	<0.31	43.3	<0.65	<0.1	<0.2	1.2	<0.002	<0.01	0.3
124-62	<6.1	<3.7	<5.4	<0.31	37.2	<0.65	<0.1	<0.2	0.73	<0.002	<0.01	0.4
124-63	<6.1	<3.7	<5.4	<0.31	128.0	<0.65	NA	NA	NA	NA	NA	NA
124-64	<6.1	<3.7	<5.4	<0.31	15.2	<0.65	<0.1	<0.2	0.98	<0.002	<0.01	0.6
124-65	<6.1	<3.7	<5.4	<0.31	6.5	<0.65	<0.1	<0.2	1.1	<0.002	<0.01	0.65
124-66	<6.1	<3.7	<5.4	<0.31	15.7	<0.65	<0.1	<0.2	0.93	<0.002	<0.01	0.67
124-67	<6.1	<3.7	<5.4	<0.31	18.2	0.69	<0.1	<0.2	1.4	<0.002	<0.01	0.32
124-68	<6.1	<3.7	<5.4	<0.31	11.5	<0.65	<0.1	<0.2	0.92	<0.002	<0.01	0.83
124-69	<6.1	<3.7	<5.4	<0.31	161.0	<0.65	<0.1	<0.2	1.3	<0.002	<0.01	0.31
124-70	<6.1	<3.7	<5.4	<0.31	21.0	<0.65	NA	NA	NA	NA	NA	NA
124-71	<6.1	<3.7	<5.4	<0.31	40.6	<0.65	<0.1	<0.2	0.93	<0.002	<0.01	0.39
124-72	<6.1	<3.7	<5.4	<0.31	6.6	0.69	<0.1	<0.2	1.1	<0.002	<0.01	0.36
124-73	<6.1	<3.7	<5.4	<0.31	6.0	<0.65	<0.1	<0.2	1.5	<0.002	<0.01	0.32
124-74	<6.1	<3.7	<5.4	2.3	606.0	0.66	NA	NA	NA	NA	NA	NA
124-75	<6.1	<3.7	<5.4	<0.31	13.1	<0.65	<0.1	<0.2	1.0	<0.002	<0.01	1.5
124-76	<6.1	<3.7	<5.4	2.2	591.0	<0.65	NA	NA	NA	NA	NA	NA
124-77	<6.1	<3.7	<5.4	0.32	42.6	1.9	NA	NA	NA	NA	NA	NA
124-78	<6.1	0.47	<5.4	<0.31	12.8	<0.65	<0.1	<0.2	2.0	<0.002	<0.01	0.67
124-79	<6.1	<3.7	<5.4	3.0	834.0	<0.65	NA	NA	NA	NA	NA	NA
124-80	<6.1	<3.7	<5.4	<0.31	6.4	<0.65	<0.1	<0.2	0.95	<0.002	<0.01	0.35
124-81	<6.1	<3.7	<5.4	<0.31	55.4	0.26	<0.1	<0.2	0.93	<0.002	<0.01	0.39
124-82	<6.1	<3.7	<5.4	<0.31	6.5	<0.65	<0.1	<0.2	1.3	<0.002	<0.01	0.36

Table C-1. Room 124 Structural Analytical Data (continued)

Sample number	Bulk Scrapings STLC (mg/L)									STLC (mg/kg)	
	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Sele-nium	Silver	Thallium	Vana-dium	Zinc
124-1	0.05	0.39	<0.01	<0.006	0.02	0.01	0.3	0.02	<0.2	0.68	0.05
124-2	0.03	0.79	<0.01	<0.006	0.02	0.06	0.2	0.02	<0.2	0.42	0.05
124-3	0.04	0.57	<0.01	<0.006	0.02	0.09	0.2	0.02	<0.2	0.62	0.05
124-4	0.09	0.48	0.5	<0.006	0.02	0.2	0.2	0.02	<0.2	0.6	0.98
124-5	0.04	0.37	<0.01	<0.006	0.02	0.08	0.2	0.02	<0.2	0.62	0.05
124-6	0.05	0.39	<0.01	<0.006	0.02	0.09	0.2	0.02	<0.2	0.61	0.07
124-7	0.08	0.33	<0.01	<0.006	0.02	0.2	0.2	0.02	<0.2	0.71	0.1
124-8	0.08	0.35	<0.01	<0.006	0.02	0.2	0.1	0.02	<0.2	0.68	0.08
124-9	0.11	0.24	<0.01	<0.006	0.05	0.54	0.2	0.02	<0.2	2.0	0.6
124-10	0.06	0.602	<0.212	0.001	<0.325	0.158	0.203	<0.0185	<0.272	0.503	0.146
124-11	0.0637	0.487	<0.212	<0.001	0.0662	0.134	0.424	<0.0185	0.299	0.463	0.134
124-12	0.05	0.47	<0.01	<0.006	0.02	0.1	0.2	0.02	<0.2	0.52	0.03
124-13	0.04	0.55	<0.01	<0.006	0.02	0.1	0.2	0.02	<0.2	0.44	0.04
124-14	0.07	0.34	0.5	NA	0.02	0.2	0.2	0.02	<0.2	0.7	0.1
124-15	0.05	0.04	<0.01	<0.006	0.02	0.05	0.2	0.02	<0.2	0.53	0.02
124-16	0.07	0.26	<0.01	<0.006	0.02	0.1	0.2	0.02	<0.2	0.59	0.09
124-17	0.03	0.33	<0.01	<0.006	0.03	0.06	0.1	0.02	<0.2	0.71	2.2
124-18	0.02	0.35	<0.01	<0.006	0.04	0.09	0.1	0.02	<0.2	0.68	2.1
124-19	0.02	0.24	<0.01	<0.006	0.04	0	0.2	0.02	<0.2	2.0	2.1
124-20	0.02	0.6	<0.21	0.001	0.04	0.08	0.2	<0.02	<0.27	0.5	2.2
124-21	0.03	<0.01	<0.01	<0.006	0.04	0.08	<0.1	<0.02	<0.2	<0.04	2.2
124-22	0.02	<0.01	<0.01	<0.006	0.03	0.06	<0.1	<0.02	<0.2	<0.04	2.0
124-23	0.03	<0.01	<0.01	<0.006	0.03	0.2	<0.1	<0.02	<0.2	<0.04	2.5
124-24	0.03	<0.01	<0.01	<0.006	0.04	0.09	<0.1	<0.02	<0.2	<0.04	2.5
124-25	0.02	<0.01	<0.01	<0.006	0.04	0.3	<0.1	<0.02	<0.2	<0.04	2.8
124-26	0.03	<0.01	<0.01	<0.006	0.04	0.05	<0.1	<0.02	<0.2	<0.04	3.5
124-27	0.03	<0.01	<0.01	<0.006	0.04	0.1	<0.1	<0.02	<0.2	<0.04	2.2
124-28	0.04	<0.01	<0.01	<0.006	0.04	0.1	<0.1	<0.02	<0.2	<0.04	2.1
124-29	0.03	0.03	<0.01	<0.006	0.09	0.1	<0.1	<0.02	<0.2	0.04	2.1
124-30	0.04	<0.01	<0.01	<0.006	0.05	0.07	<0.1	<0.02	<0.2	0.05	2.2
124-31	0.04	<0.01	<0.01	<0.006	0.04	0.1	<0.1	<0.02	<0.2	0.04	2.4
124-32	0.03	<0.01	<0.01	<0.006	0.05	0.07	<0.1	<0.02	<0.2	0.04	2.5
124-33	0.02	0.29	<0.01	<0.004	<0.02	<0.04	<0.1	<0.02	<0.2	<0.04	0.05
124-34	0.03	0.38	<0.01	<0.006	<0.02	0.04	0.2	<0.02	<0.2	0.4	0.05
124-35	0.44	<0.01	<0.01	<0.005	0.02	0.05	0.2	0.02	<0.2	0.4	0.07
124-36	0.02	0.38	<0.01	<0.006	<0.02	0.05	0.2	<0.02	<0.2	0.4	0.1
124-37	0.02	0.25	<0.01	<0.006	0.04	<0.04	0.1	<0.02	<0.2	0.3	0.08
124-38	0.03	0.33	<0.01	<0.005	<0.02	0.06	0.1	<0.02	<0.2	0.3	0.08
124-39	0.02	0.39	<0.01	<0.005	0.02	0.07	0.1	<0.02	<0.2	0.3	0.05
124-40	0.02	0.39	<0.01	<0.006	<0.02	0.05	<0.1	<0.02	<0.2	0.3	0.05
124-41	0.02	0.32	<0.01	<0.006	0.04	<0.04	0.2	<0.02	<0.2	0.3	0.05
124-42	<0.01	0.4	<0.01	<0.004	<0.2	<0.4	<1.0	<0.2	<0.2	<0.4	0.2

Table C-1. Room 124 Structural Analytical Data (concluded)

Sample number	Bulk Scrapings STLC (mg/L)									STLC (mg/kg)	
	Cobalt	Copper	Lead	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vana-dium	Zinc
124-43	0.01	0.27	<0.01	<0.006	<0.02	<0.04	0.2	<0.02	<0.2	0.3	0.03
124-44	0.01	0.33	<0.1	<0.006	0.02	<0.04	0.2	<0.02	<0.2	0.4	0.04
124-45	0.04	0.44	<0.1	<0.005	0.03	0.08	<0.1	<0.02	<0.2	0.3	2.4
124-46	0.02	0.31	<0.1	<0.006	0.02	<0.04	0.2	0.02	<0.2	0.3	0.02
124-47	0.03	0.35	<0.1	<0.005	0.02	0.05	0.2	<0.02	<0.2	0.3	0.2
124-48	0.02	0.25	<0.1	<0.006	0.02	0.05	<0.1	<0.02	<0.2	0.2	3.8
124-49	0.04	0.6	<0.1	0.007	0.03	0.08	0.2	<0.02	<0.2	0.4	0.05
124-50	0.04	0.35	<0.1	<0.006	0.02	0.05	<0.1	<0.02	<0.2	0.3	0.04
124-51	0.05	0.56	<0.1	<0.005	0.02	0.08	0.2	<0.02	<0.2	0.3	0.06
124-52	0.05	0.64	<0.1	<0.005	0.03	0.08	0.2	<0.02	<0.2	0.3	0.08
124-53	0.03	0.23	<0.1	<0.005	0.02	0.04	0.2	<0.02	<0.2	0.3	0.2
124-54	0.03	0.21	<0.1	<0.005	<0.02	<0.04	0.2	<0.02	<0.2	0.3	0.25
124-55	0.02	0.39	<0.1	<0.006	0.02	0.04	0.2	<0.02	<0.2	0.4	0.06
124-56	0.03	0.47	<0.1	<0.006	0.03	0.05	0.2	<0.02	<0.2	0.3	0.05
124-57	0.03	0.56	<0.1	<0.006	<0.02	0.08	0.2	<0.02	<0.2	0.3	0.05
124-58	0.04	0.61	<0.1	<0.006	<0.02	0.09	0.2	<0.02	<0.2	0.2	0.43
124-59	0.01	0.36	<0.1	<0.006	0.02	0.05	<0.1	<0.02	<0.2	0.3	0.05
124-60	0.04	0.65	<0.1	<0.006	0.02	0.1	<0.1	<0.02	<0.2	0.3	0.1
124-61	<0.01	0.27	<0.1	<0.006	<0.02	<0.04	<0.1	<0.02	<0.2	0.3	0.03
124-62	0.03	0.46	<0.1	<0.006	<0.02	0.07	0.2	<0.02	<0.2	0.4	0.07
124-63	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-64	0.03	0.41	<0.1	<0.006	0.05	0.05	<0.1	<0.02	<0.2	0.3	0.2
124-65	0.03	0.36	<0.1	<0.006	<0.02	0.05	<0.1	<0.02	<0.2	0.3	0.05
124-66	0.03	0.3	<0.1	<0.005	0.02	<0.04	<0.1	<0.02	<0.2	0.3	0.06
124-67	0.02	0.27	<0.1	<0.005	0.02	0.05	<0.1	<0.02	<0.2	0.3	0.23
124-68	0.03	0.33	<0.1	<0.005	<0.02	<0.04	<0.1	<0.02	<0.2	0.4	0.04
124-69	0.02	0.28	<0.1	<0.006	<0.02	0.05	0.02	<0.02	<0.2	0.3	0.1
124-70	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-71	0.04	0.43	<0.1	<0.005	0.02	<0.04	0.2	<0.02	<0.2	0.3	0.05
124-72	0.02	0.34	<0.1	<0.006	<0.02	<0.04	0.2	<0.02	<0.2	0.3	<0.02
124-73	0.02	0.24	<0.1	<0.006	0.02	0.05	0.2	<0.02	<0.2	0.3	0.28
124-74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-75	0.02	0.31	<0.1	<0.005	<0.02	<0.04	0.2	<0.02	<0.2	0.3	0.04
124-76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-77	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-78	0.03	0.54	<0.1	<0.005	0.03	0.06	0.1	<0.02	<0.2	0.3	1.7
124-79	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
124-80	0.02	0.24	<0.1	<0.005	0.02	<0.04	0.2	<0.02	<0.2	0.3	0.05
124-81	0.04	0.43	<0.1	<0.005	0.02	<0.04	0.2	<0.02	<0.2	0.3	0.05
124-82	0.03	0.46	<0.1	<0.006	<0.02	<0.04	<0.1	<0.02	<0.2	0.2	0.05

dpm = disintegrations per minute
LOS = Limit of sensitivity
NA = Not analyzed for constituent
STLC = Soluble Threshold Limit Concentration
TTLC = Total threshold Limit Concentration

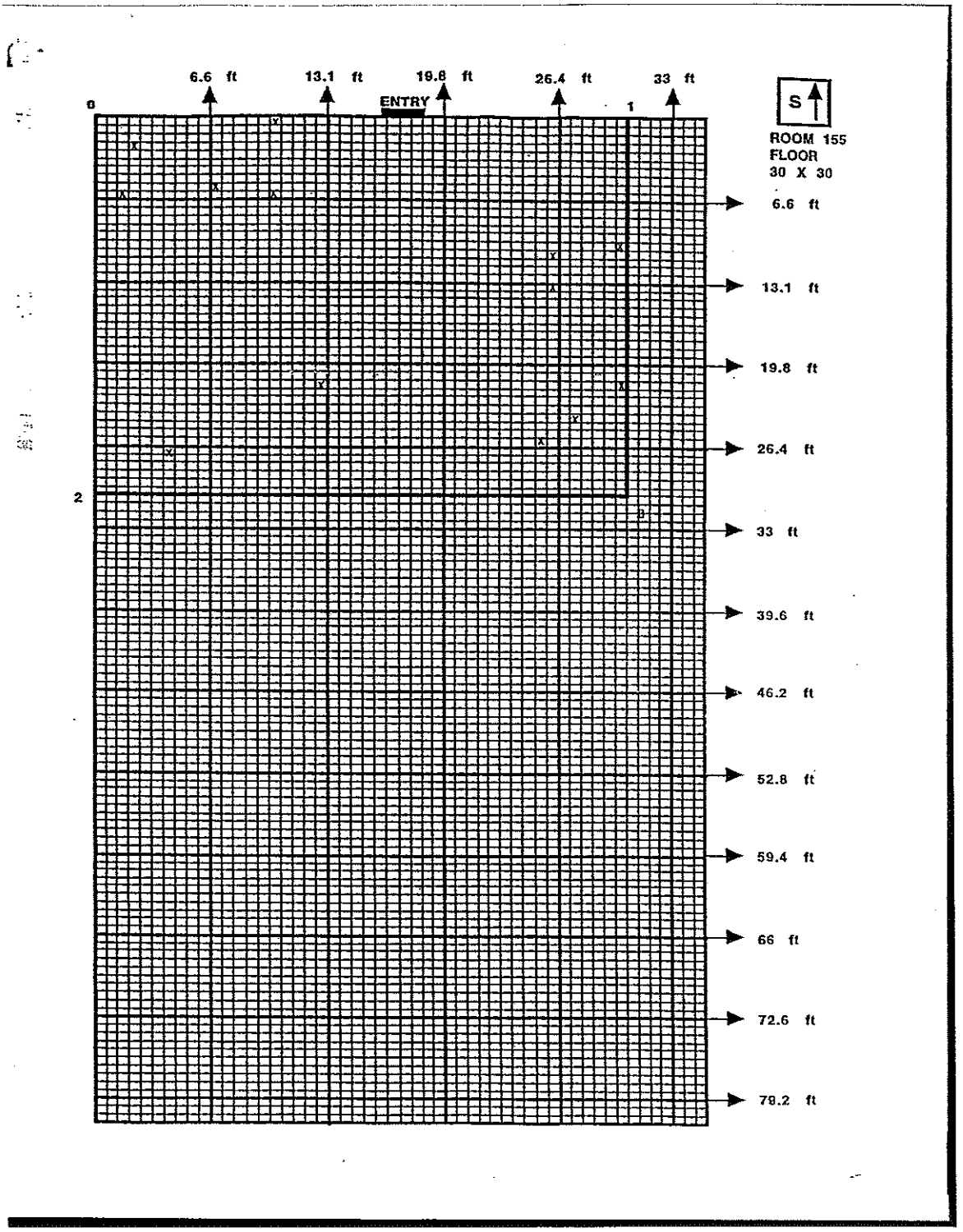

Figure C-2a. Floor sampling grid — Room 155

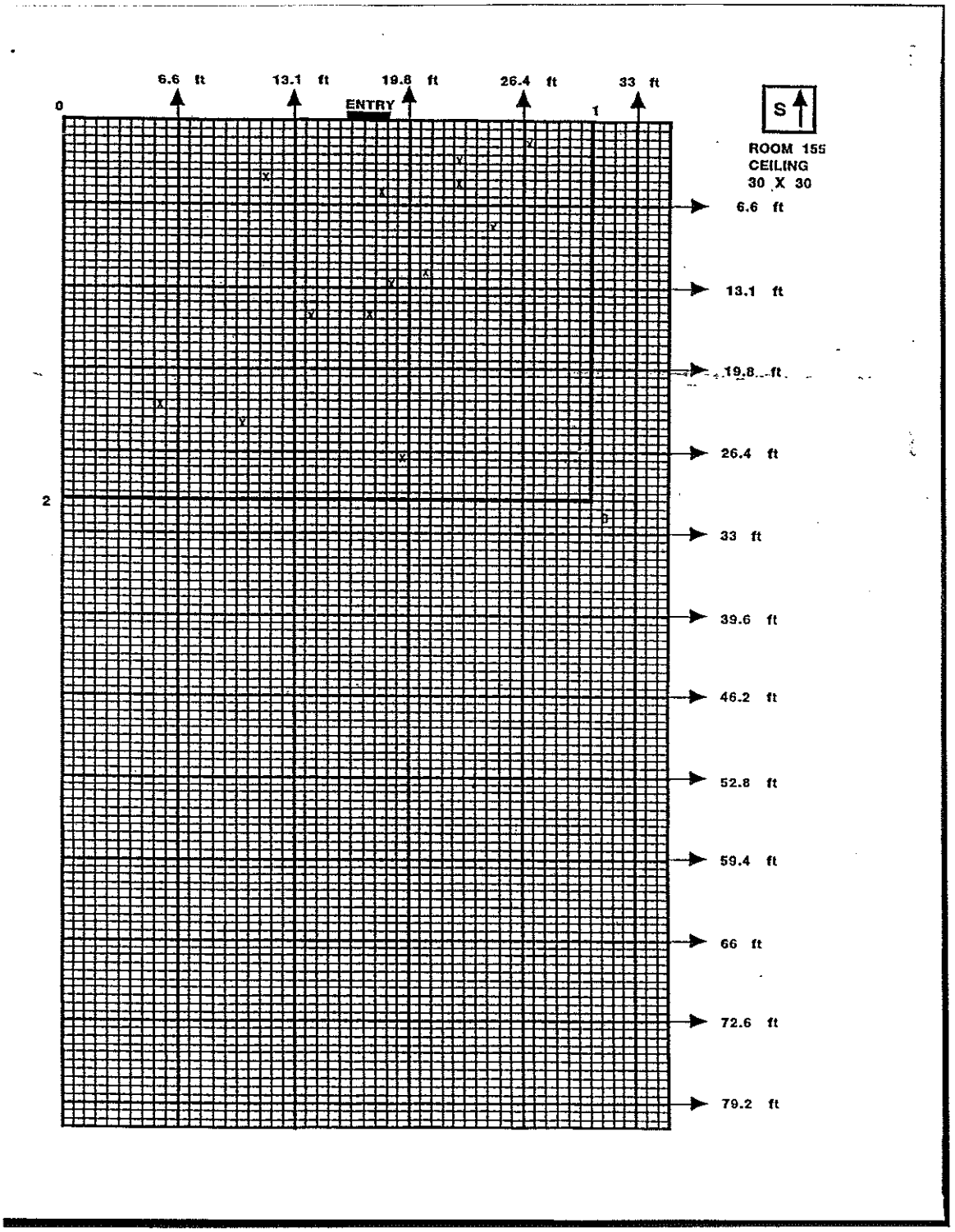

Figure C-2b. Ceiling sampling grid — Room 155

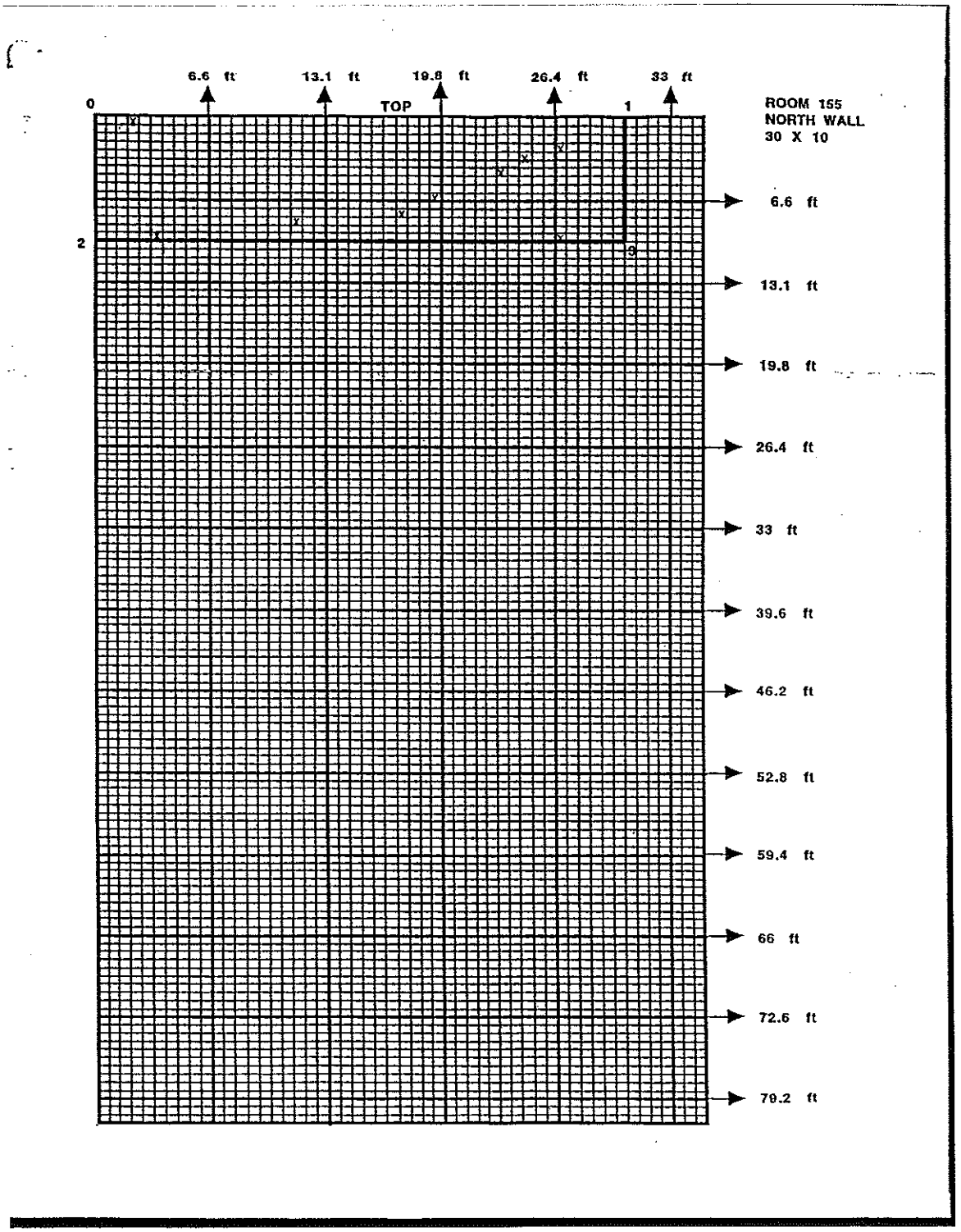

Figure C-2c. North wall sampling grid — Room 155

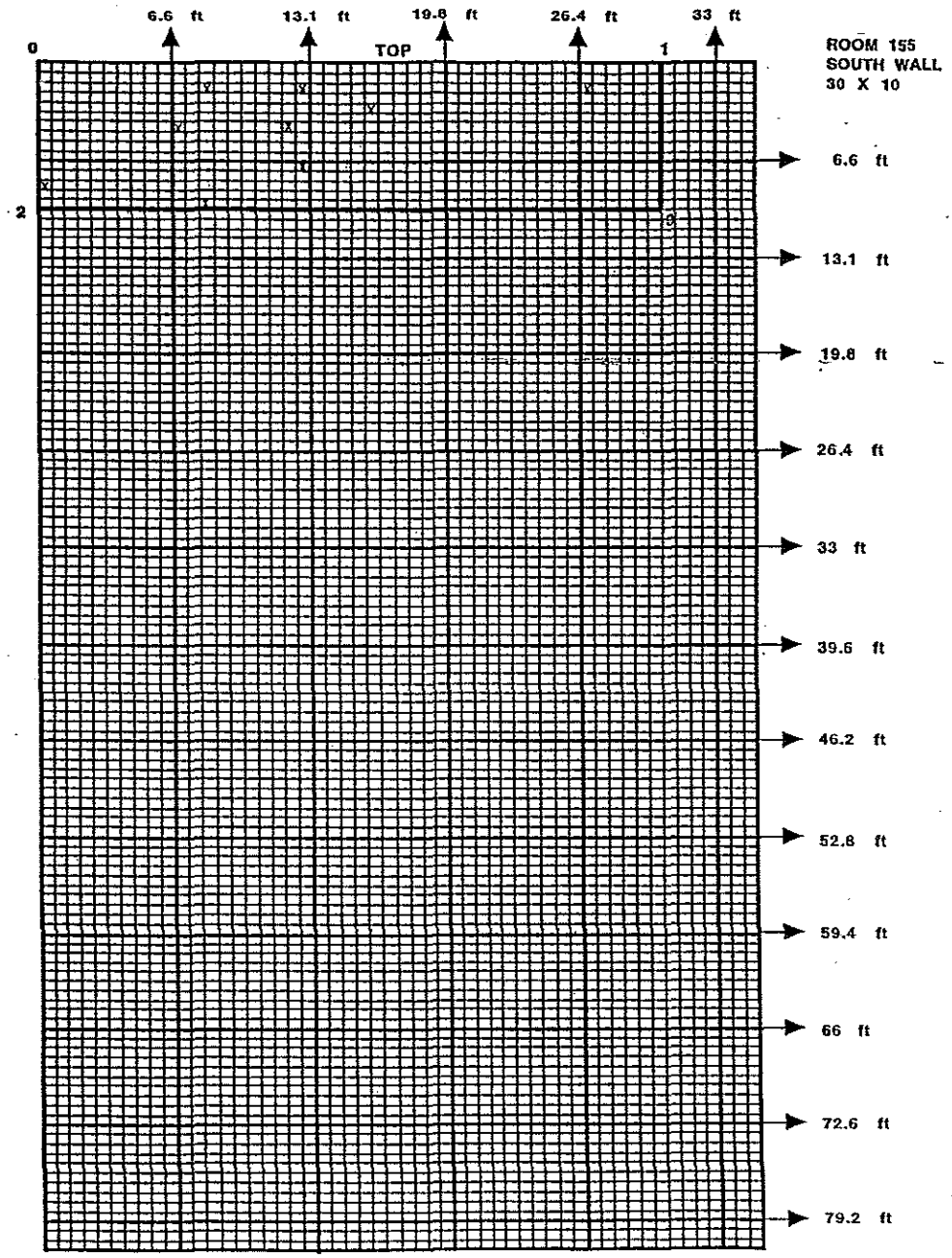

Figure C-2d. South wall sampling grid — Room 155

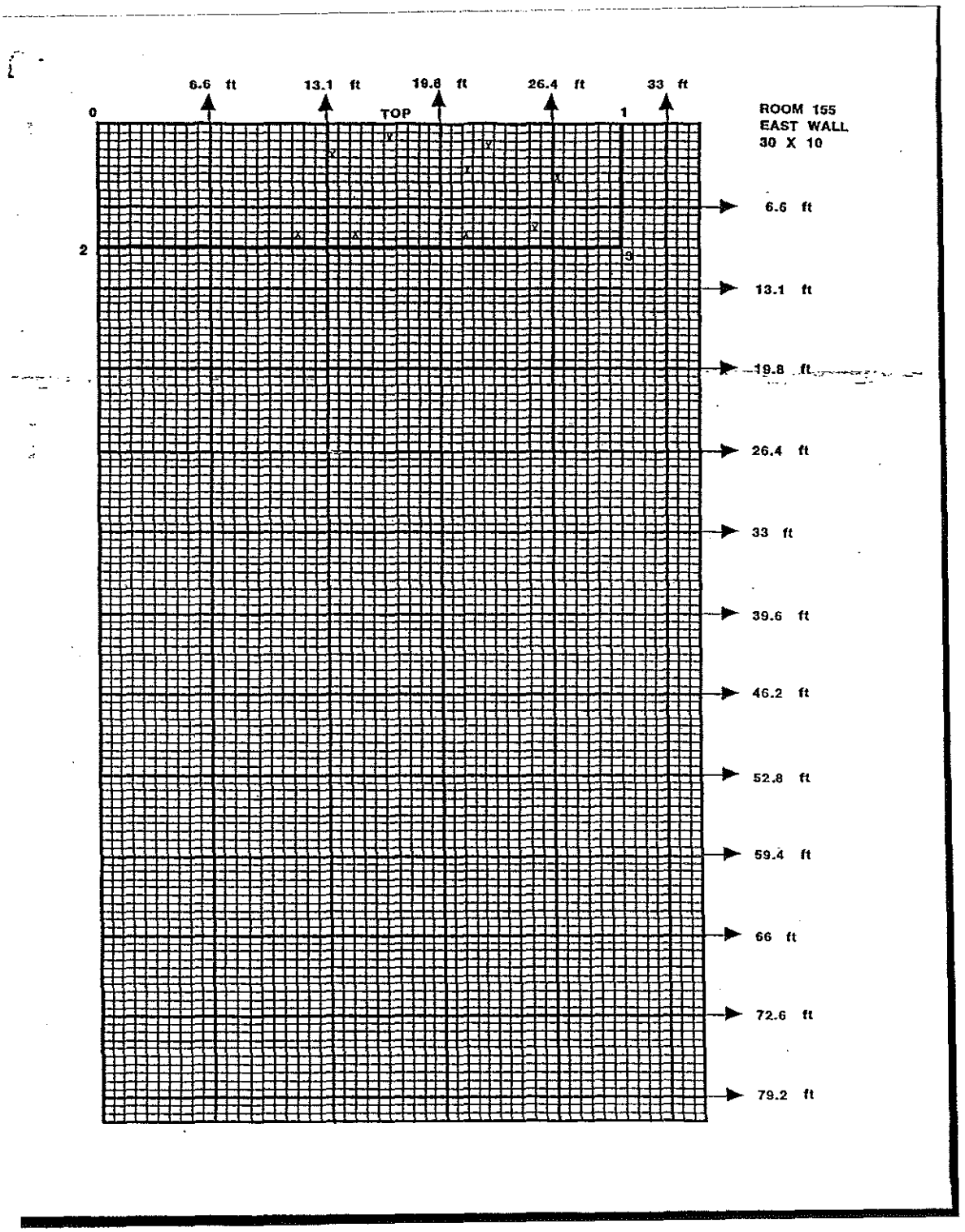

Figure C-2e. East wall sampling grid — Room 155

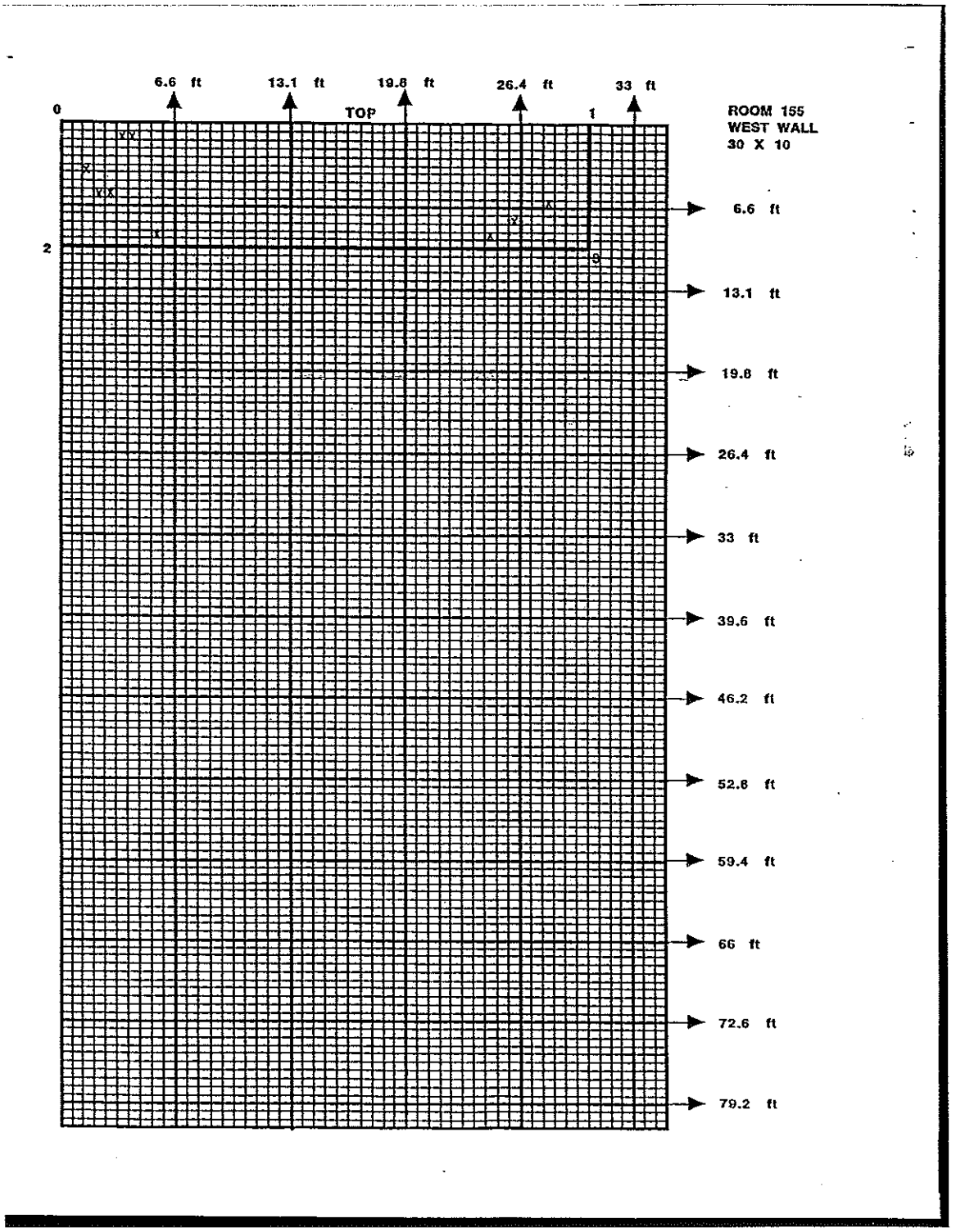

Figure C-2f. West wall sampling grid — Room 155

Table C-2. Room 155 Structural Analytical Data

Sample number	Grid location	Surveys (dpm/100 cm^2) Floor Tile		Swipes (dpm/100 cm^2) Floor Tile			Radiochemical (μCi/g) Floor Tile		
		Alpha	Beta/ Gamma	Alpha	Beta	Tritium	Alpha[(a)]	Beta[(a)]	Tritium[(a)]
155-1	0x10.9	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-2	5.7x7	<300	<1000	<20	<200	<1000	LOS	LOS	6.2
155-3	3x3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-4	6.9x1.7	<300	<1000	<20	<200	<1000	LOS	LOS	9.1
155-5	6.9x10.6	<300	<1000	<20	<200	<1000	LOS	LOS	5.2
155-6	11x26.7	<300	<1000	<20	<200	<1000	LOS	LOS	11
155-7	14.1x26.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-8	21.6x31	<300	<1000	<20	<200	<1000	LOS	LOS	5.7
155-9	24.3x31	<300	6840	<20	<200	<1000	LOS	LOS	7.9
155-10	24.6x27.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-11	26.1x26.6	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-12	22.1x13	<300	<1000	<20	<200	<1000	LOS	LOS	6.6
155-13	27.4x4.9	<300	<1000	<20	<200	<1000	LOS	LOS	8.3
155-14	23.5x10.5	<300	<1000	<20	<200	<1000	LOS	LOS	8.2
155-15	23.5x23	<300	<1000	<20	<200	7224	LOS	LOS	16
155-16	18.5x27.4	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-17	6.1x30.7	<300	<1000	<20	<200	<1000	LOS	LOS	7.8
155-18	23x4.5	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-19	23x4.2	<300	<1000	<20	<200	<1000	LOS	LOS	8.1
155-20	16.6x0.5	<300	<1000	<20	<200	<1000	LOS	LOS	6
155-21	26.3x3.6	<300	<1000	<20	<200	<1000	LOS	LOS	7.1
155-22	19x21	<300	1600	<20	<200	<1000	LOS	LOS	LOS
		Ceiling		Ceiling			Ceiling		
155-23	2.1x27.4	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-24	3.6x22.8	<300	<1000	<20	<200	<1000	LOS	LOS	6.2
155-25	5.3x23.2	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-26	6.3x18.5	<300	<1000	<20	<200	<1000	LOS	LOS	9.1
155-27	8.4x25.1	<300	<1000	<20	<200	<1000	LOS	LOS	5.2
155-28	12.1x4.9	<300	<1000	<20	<200	<1000	LOS	LOS	11
155-29	12.4x21	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-30	13.4x19	<300	<1000	<20	<200	<1000	LOS	LOS	5.7
155-31	16.1x14.1	<300	<1000	<20	<200	<1000	LOS	LOS	7.9
155-32	16.1x18.1	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-33	23.4x6.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-34	24.6x10.9	<300	<1000	<20	<200	<1000	LOS	LOS	42
155-35	26.8x19.9	<300	<1000	<20	<200	<1000	LOS	LOS	11

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	Location	Grid location	Surveys (dpm/100 cm^2)		Swipes (dpm/100 cm^2)			Radiochemical (μCi/g)		
			Alpha	Beta/ Gamma	Alpha	Beta	Tritium	Alpha[a]	Beta[a]	Tritium[a]
155-36	N. wall	9.7x28.4	<300	<1000	<20	<200	1915	LOS	LOS	65
155-37	N. wall	7.7x4	<300	<1000	<20	<200	1018	LOS	LOS	35
155-38	N. wall	7.2x6.3	<300	<1000	<20	<200	<1000	LOS	LOS	24
155-39	N. wall	6.1x7.4	<300	<1000	<20	<200	157900	LOS	LOS	72
155-40	N. wall	1x3.8	<300	<1000	<20	<200	1092	LOS	LOS	19
155-41	N. wall	3.8x11	<300	<1000	<20	<200	2863	LOS	LOS	33
155-42	N. wall	2.8x13	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-43	N. wall	1.9x19.5	<300	<1000	<20	<200	<1000	NA	NA	NA
155-44	N. wall	0.8x27.3	<300	6840	<20	<200	2838	8.2	7.7	160
155-45	S. wall	8.8x12.8	<300	<1000	<20	<200	<1000	LOS	LOS	14
155-46	S. wall	8.6x27	<300	<1000	<20	<200	<1000	LOS	LOS	27
155-47	S. wall	8.8x8.7	<300	<1000	<20	<200	2182	LOS	LOS	20
155-48	S. wall	7x16.8	<300	<1000	<20	<200	<1000	LOS	LOS	12
155-49	S. wall	6.3x12.8	<300	<1000	<20	<200	<1000	LOS	LOS	170
155-50	S. wall	5.7x7.3	<300	<1000	<20	<200	3068	LOS	LOS	110
155-51	S. wall	3.1x13.3	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-52	S. wall	1x8.7	<300	<1000	<20	<200	<1000	LOS	LOS	120
155-53	S. wall	2.1x0	<300	<1000	<20	<200	<1000	8.2	7.7	10
155-54	E. wall	1.5x16	<300	<1000	<20	<200	<1000	LOS	LOS	7
155-55	E. wall	9.1x13.6	<300	<1000	<20	<200	<1000	LOS	LOS	26
155-56	E. wall	1.5x9	<300	<1000	<20	<200	<1000	LOS	LOS	72
155-57	E. wall	8x17	<300	<1000	<20	<200	<1000	LOS	LOS	18
155-58	E. wall	2.2x5	<300	<1000	<20	<200	<1000	LOS	LOS	46
155-59	E. wall	4.3x5.9	<300	<1000	<20	<200	<1000	LOS	LOS	37
155-60	E. wall	8.5x8.2	<300	<1000	<20	<200	<1000	LOS	LOS	14
155-61	E. wall	1.6x19	<300	<1000	<20	<200	1159	LOS	LOS	360
155-62	E. wall	6.6x9	<300	<1000	<20	<200	<1000	8.2	7.7	14
155-63	W. wall	9x4	<300	<1000	<20	<200	<1000	LOS	LOS	64
155-64	W. wall	9.5x4.7	<300	<1000	<20	<200	<1000	LOS	LOS	71
155-65	W. wall	6.9x2	<300	<1000	<20	<200	<1000	LOS	LOS	370
155-66	W. wall	4.3x28.5	<300	<1000	<20	<200	<1000	LOS	LOS	9.7
155-67	W. wall	3x26	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-68	W. wall	1.5x25	<300	<1000	<20	<200	<1000	LOS	3.6	LOS
155-69	W. wall	1.7x6	<300	<1000	<20	<200	1783	LOS	LOS	5.3
155-70	W. wall	4.5x3.6	<300	<1000	<20	<200	<1000	LOS	LOS	LOS
155-71	W. wall	4.7x3	<300	<1000	<20	<200	<1000	8.2	7.7	LOS

Table C-2. Room 155 Structural Analytical Data (continued)

Sample Number	Radiochemical (μCi/gm) Floor Cement			TTLC Metals (μg/swipe) Floor Tile						
	Alpha #	Beta #	Tritium #	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
155-1	NA	NA	NA	<5	<9	74	<0.09	0.9	110	13
155-2	LOS	LOS	LOS	<5	<9	35	<0.09	0.6	110	16
155-3	NA	NA	NA	<5	<9	15	<0.09	0.5	99	17
155-4	LOS	LOS	16	<5	<9	75	<0.09	0.7	110	14
155-5	LOS	LOS	6.9	<5	<9	80	<0.09	0.6	110	14
155-6	LOS	LOS	7.6	<5	<9	75	<0.09	0.7	110	11
155-7	LOS	LOS	LOS	<5	<9	50	<0.09	0.7	120	13
155-8	LOS	LOS	7.2	<5	<9	14	<0.09	0.6	120	13
155-9	LOS	LOS	36	<5	<9	13	<0.09	0.9	110	13
155-10	NA	NA	NA	<5	<9	12	<0.09	0.9	110	12
155-11	NA	NA	NA	<5	<10	12	<0.1	0.6	110	12
155-12	LOS	LOS	120	<5	<10	12	<0.1	0.8	110	12
155-13	LOS	LOS	110	<5	<9	12	<0.09	0.6	110	12
155-14	LOS	LOS	27	<5	<9	13	<0.09	0.6	110	13
155-15	LOS	LOS	17	<5	<10	13	<0.1	0.8	110	13
155-16	NA	NA	NA	<5	<10	12	<0.1	0.7	110	12
155-17	LOS	LOS	17	<5	<10	40	<0.1	0.6	120	7.3
155-18	NA	NA	NA	<5	<10	12	<0.1	0.7	120	13
155-19	LOS	LOS	41	<5	<9	23	<0.09	0.9	110	13
155-20	LOS	LOS	66	<5	<110	16	<0.1	1	110	12
155-21	LOS	LOS	280	<5	<10	23	<0.1	2	130	14
155-22	NA	NA	NA	<5	<9	15	<0.09	0.7	110	13

Sample Number	TTLC Metals (μg/swipe) Ceiling Paint									
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury
155-23	<4.6	<5.3	0.99	0.05	<0.37	<0.53	0.45	1	4.5	15
155-24	<4.6	<5.3	0.47	<0.03	<0.37	<0.53	<0.34	1	13.1	<0.1
155-25	<4.6	<5.3	3.4	0.05	<0.37	2.3	0.92	13.3	33.9	2
155-26	<4.6	<5.3	0.92	0.04	<0.37	<0.53	<0.34	2.2	7.7	<1
155-27	<4.6	<5.3	3.4	0.04	<0.37	2	0.66	11.5	22.8	4.5
155-28	<4.6	<5.3	0.84	<0.03	<0.37	<0.53	<0.34	1.3	17.4	0.07
155-29	<4.6	<5.3	0.78	0.06	<0.37	<0.53	<0.34	0.82	53	0.07
155-30	<4.6	<5.3	1.3	0.06	<0.37	<0.53	0.61	1.6	10.5	0.17
155-31	<4.6	<5.3	0.76	<0.03	<0.37	<0.53	0.4	1.3	59	0.16
155-32	<4.6	<5.3	0.82	<0.03	<0.37	<0.53	0.42	1.1	22	0.33
155-33	<4.6	<5.3	8.3	0.06	0.4	6.6	1.1	42.1	73.2	3.3
155-34	<4.6	<5.3	1	0.05	<0.37	<0.35	<0.34	1.8	11.6	2.1
155-35	<4.6	<5.3	0.74	0.06	<0.37	<0.34	<0.53	0.82	9.3	3740

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	TTLC Metals (μg/swipe) Wall Paint									
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury
155-36	<4.6	<5.3	0.99	0.06	0.8	1.3	0.55	1.8	9.4	0.84
155-37	<4.6	<5.3	0.74	0.04	<0.37	0.59	0.51	1.9	14.2	5
155-38	<4.6	<5.3	1.1	0.06	0.54	0.84	0.72	6.6	18.5	4.9
155-39	<4.6	<5.3	0.78	0.06	<0.37	0.84	0.98	10.4	18.4	1.6
155-40	<4.6	<5.3	0.94	0.06	<0.37	0.91	<0.34	7.8	20.3	13.4
155-41	<4.6	<5.3	0.58	0.06	0.41	0.62	0.52	4.4	10.5	1.0
155-42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-43	<4.6	<5.3	2.3	0.05	<0.37	1.9	0.39	4	17.4	1.2
155-44	<4.6	<5.3	0.78	<0.03	<0.37	0.73	<0.34	5.5	20.5	0.42
155-45	<4.6	<5.3	0.68	<0.03	<0.37	0.58	<0.34	1.1	<4.2	0.98
155-46	<4.6	<5.3	0.54	<0.03	<0.37	<0.53	<0.34	1	6.1	0.42
155-47	<4.6	<5.3	0.76	<0.03	<0.37	1.2	<0.34	<0.76	<4.2	11.0
155-48	<4.6	<5.3	4.3	<0.03	0.38	5.2	0.85	14.5	38.5	3.2
155-49	<4.6	<5.3	2	<0.03	<0.37	0.56	3.3	2.6	4.2	0.8
155-50	NA	NA	4.9	<0.03	<0.37	1.1	4.1	6.1	6.7	0.7
155-51	<4.6	<5.3	4.7	<0.03	1	2.7	1.4	11.1	38.4	1.2
155-52	<4.6	<5.3	0.42	<0.03	<0.37	<0.53	<0.34	1.1	<4.2	0.27
155-53	<4.6	<5.3	0.82	<0.03	<0.37	1	<0.34	2.5	24.6	0.68
155-54	<4.6	<5.3	3.5	<0.03	1	2.1	0.59	7.6	26.3	0.55
155-55	<4.6	<5.3	0.86	<0.03	0.59	<0.53	<0.34	1.5	8.1	0.09
155-56	<4.6	<5.3	2.6	<0.03	1	1.2	0.45	3.4	18.3	0.45
155-57	<4.6	<5.3	2.3	<0.03	0.41	1.7	0.63	7.1	28.3	0.15
155-58	<4.6	<5.3	1.2	<0.03	<0.37	0.9	1.3	4.4	15.5	0.16
155-59	<4.6	<5.3	NA	NA	NA	NA	NA	NA	NA	NA
155-60	<4.6	<5.3	2	<0.03	<0.37	1.3	1.7	10.1	18.4	0.32
155-61	<4.6	<5.3	3.5	<0.03	<0.37	0.55	0.88	3	10.7	0.15
155-62	<4.6	<5.3	13.6	<0.03	<0.37	0.71	<0.34	1.7	8.5	0.8
155-63	<4.6	<5.3	2.4	<0.03	0.6	0.91	<0.34	7.1	9.1	0.58
155-64	7.9	<5.3	1.6	<0.03	0.53	0.61	0.36	4.9	5.3	0.29
155-65	<4.6	<5.3	1.1	<0.03	0.42	<0.53	<0.34	2.4	30.3	0.42
155-66	6.1	<5.3	0.87	<0.03	<0.37	1	0.49	1.9	13.7	0.8
155-67	<4.6	<5.3	0.76	<0.03	<0.37	<0.53	<0.34	1.4	7.1	0.31
155-68	<4.6	7.6	0.79	<0.03	<0.37	0.58	0.52	1.5	14	0.4
155-69	<4.6	<5.3	1.3	0.05	<0.37	<0.34	<0.32	3.1	<4.2	0.26
155-70	<4.6	<5.3	0.65	<0.02	<0.37	<0.53	<0.34	0.37	2.1	4.3
155-71	<4.6	<5.3	0.76	<0.02	<0.37	<0.34	0.54	1.8	<4.2	0.1

Table C-2. Room 155 Structural Analytical Data (continued)

Sample Number	TTLC Metals (μg/swipe) Floor Tile									
	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Molyb-denum
155-1	0.8	9	2	280	<9	<0.9	<9	6	130	<0.7
155-2	<0.5	5	1	270	<10	<0.9	<10	6	87	<0.7
155-3	2	8	1	250	<10	<0.9	<10	5	110	<0.7
155-4	2	20	2.9	270	<10	<0.9	<10	6	120	<0.7
155-5	4.9	6	1	270	<10	<0.9	<10	6	100	<0.7
155-6	<0.5	8	0.3	270	<10	<0.9	<10	6	100	<0.7
155-7	0.7	8	3.9	290	<10	<0.9	<10	7	110	<0.7
155-8	1	10	0.3	290	<10	<0.9	<10	7	110	<0.7
155-9	18	10	2	280	<10	1	<10	6	150	<0.7
155-10	0.9	8	0.4	280	<10	<0.9	<10	6	82	<0.7
155-11	0.8	8	0.4	270	<10	<1	<10	6	79	<0.8
155-12	1	10	0.7	280	<10	<1	<10	6	78	<0.8
155-13	2	7	9.1	280	<9	<0.9	<9	6	77	<0.7
155-14	2	10	0.5	280	<9	<0.9	<9	6	70	<0.7
155-15	6.5	10	1	290	<10	2	<10	6	84	<0.8
155-16	1	9	1	270	<10	1	<10	7	78	<0.8
155-17	5	30	5.5	150	<10	<1	<10	4	69	1
155-18	<0.5	9	0.4	280	<10	<1	<10	6	83	<0.8
155-19	<0.5	<5	1	290	<10	<1	<10	5	94	<0.8
155-20	<0.5	10	0.9	280	<10	<1	<10	9	120	<0.8
155-21	13	20	3	310	<10	1	<10	7	140	<0.8
155-22	<0.5	10	0.5	280	<9	1	<9	6	89	<0.7

Sample number	TTLC Metals (μg/swipe) Ceiling Paint						
	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Molybdenum
155-23	<1.6	<6.1	<0.38	<10.4	<0.96	14	<0.65
155-24	<1.6	<6.1	<0.38	<10.4	<0.96	9.2	<0.65
155-25	<1.6	<6.1	<0.38	<10.4	<0.96	41.9	<0.65
155-26	<1.6	<6.1	<0.38	<10.4	<0.96	8.1	<0.65
155-27	1.6	<6.1	<0.38	<10.4	<0.96	32	<0.65
155-28	<1.6	<6.1	<0.38	<10.4	<0.96	17	<0.65
155-29	<1.6	<6.1	<0.38	<10.4	<0.96	7	<0.65
155-30	<1.6	<6.1	<0.38	10.6	<0.96	14	<0.65
155-31	<1.6	<6.1	<0.38	11.4	<0.96	8.2	<0.65
155-32	<1.6	<6.1	<0.38	<10.4	<0.96	8.8	<0.65
155-33	2.8	<6.1	0.08	<10.4	<0.96	110	0.8
155-34	<1.6	<6.1	<0.38	<10.4	<0.96	12.8	<0.65
155-35	<1.6	<6.1	<0.38	<10.4	<0.96	8.4	<0.65

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	TTLC Metals (μg/swipe) Wall Paint							STLC (mg/L) Wall Cement		
	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Molyb-denum	Antimony	Arsenic	Barium
155-36	<1.6	<6.1	<0.38	<10.4	<0.96	5.9	<0.65	<0.231	<0.264	0.0879
155-37	<1.6	<6.1	<0.38	<10.4	<0.96	6.4	<0.65	<0.231	<0.264	0.0802
155-38	<1.6	<6.1	<0.38	10.6	<0.96	10.8	<0.65	<0.231	<0.264	0.13
155-39	<1.6	<6.1	<0.38	10.4	<0.96	10.3	<0.65	0.584	<0.264	0.0856
155-40	<1.6	<6.1	<0.38	11.4	<0.96	32.8	<0.65	0.429	<0.264	0.327
155-41	<1.6	<6.1	<0.38	13.2	<0.96	10	<0.65	0.25	<0.264	0.273
155-42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-43	<1.6	<6.1	<0.38	<10.4	<0.96	50.1	<0.65	NA	NA	NA
155-44	<1.6	<6.1	<0.38	<10.4	<0.96	11.3	<0.65	0.286	<0.264	0.114
155-45	<1.6	<6.1	<0.38	<10.4	<0.96	5.5	<0.65	<0.231	<0.264	0.0862
155-46	<1.6	<6.1	<0.38	<10.4	<0.96	4.2	<0.65	<0.231	<0.264	0.135
155-47	<1.6	<6.1	<0.38	10.6	<0.96	4.1	<0.65	<0.231	<0.264	0.095
155-48	2.2	<6.1	<0.38	10.4	<0.96	40	<0.65	<0.231	<0.264	0.119
155-49	<1.6	<6.1	<0.38	11.4	<0.96	58.9	<0.65	NA		NA
155-50	<1.6	<6.1	<0.38	<10.4	<0.96	84.6	12.9	NA		NA
155-51	<1.6	<6.1	<0.38	<10.4	<0.96	44.9	<0.65	0.25	<0.264	0.273
155-52	<1.6	<6.1	<0.38	<10.4	<0.96	6	<0.65	—[b]	—[b]	—[b]
155-53	<1.6	<6.1	<0.38	<10.4	<0.96	9	<0.65	<0.231	<0.264	0.12
155-54	<1.6	<6.1	<0.38	<10.4	<0.96	34.9	<0.65	0.493	<0.264	0.235
155-55	<1.6	<6.1	<0.38	<10.4	<0.96	10.1	<0.65	5.27	<0.264	0.2
155-56	<1.6	<6.1	<0.38	10.6	<0.96	17.4	<0.65	0.532	<0.264	0.146
155-57	<1.6	<6.1	<0.38	10.4	<0.96	34.3	<0.65	5.24	<0.264	0.24
155-58	<1.6	<6.1	<0.38	11.4	<0.96	10.2	<0.65	NA	NA	NA
155-59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-60	<1.6	<6.1	<0.38	<10.4	<0.96	15.6	<0.65	5.29	<0.264	0.176
155-61	<1.6	<6.1	<0.38	<10.4	<0.96	6.5	<0.65	0.388	<0.264	0.133
155-62	<1.6	<6.1	<0.38	<10.4	<0.96	13	<0.65	0.532	<0.264	0.269
155-63	<1.6	<6.1	<0.38	<10.4	<0.96	22.8	<0.65	6.67	<0.264	0.169
155-64	<1.6	<6.1	<0.38	<10.4	<0.96	18.4	<0.65	1.11	<0.264	0.108
155-65	<1.6	<6.1	<0.38	10.6	<0.96	9.5	<0.65	6.57	<0.264	0.3
155-66	<1.6	<6.1	<0.38	10.4	<0.96	7.2	<0.65	0.231	<0.264	0.132
155-67	<1.6	<6.1	<0.38	<10.4	<0.96	4.4	<0.65	0.495	<0.264	0.174
155-68	<1.6	<6.1	<0.38	<10.4	<0.96	5.9	12.9	0.289	<0.264	0.122
155-69	<1.6	<6.1	<0.38	<10.4	<0.96	12.8	<0.65	<0.231	<0.264	0.878
155-70	0.06	<6.1	<0.38	<10.4	<0.96	5.6	<0.65	<0.231	<0.264	0.639
155-71	<1.6	<6.1	<0.38	<10.4	<0.96	6	0.77	<0.231	<0.264	0.0874

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	Floor tile Cyanide µg/g	TTLC Metals (µg/swipe) Floor Paint								
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
155-1	23.1	3.4	<4.6	0.36	0.25	0.15	<0.53	<0.34	2.8	<3.2
155-2	<0.49	3.3	<4.6	2.7	0.25	6.8	19.3	0.56	120	7.3
155-3	<0.46	4.9	9.6	4.1	0.25	0.82	2.1	0.6	19.2	14.3
155-4	<0.47	<4.6	<5.3	4.8	0.03	0.38	1.9	<0.32	7.6	12.7
155-5	<0.46	<4.6	<5.3	2	<0.02	<0.37	1.2	<0.32	3.4	6.6
155-6	<0.47	5.5	<5.3	3.5	0.05	0.4	1.4	<0.32	24.6	13.3
155-7	<0.46	<4.6	<5.3	2.5	<0.02	0.89	1.1	<0.32	7.3	10
155-8	<0.46	<4.6	<5.3	9.9	0.86	3.7	85.8	0.74	180	160
155-9	<0.46	<4.6	<5.3	7.4	0.14	1.1	7.8	<0.32	28.3	29.3
155-10	<0.49	<4.6	<5.3	3.5	0.04	<0.37	2.1	<0.32	10.1	10.2
155-11	<0.46	<4.6	<5.3	3.8	<0.02	<0.37	2.7	<0.32	10.4	13
155-12	<0.47	<4.6	<5.3	4.5	<0.02	0.63	2.2	<0.32	7.7	12.5
155-13	<0.50	<4.6	<5.3	5.9	0.02	1.1	2.4	<0.32	11.8	17.8
155-14	<0.48	<4.6	<5.3	7.9	<0.02	0.81	3.3	<0.32	15.1	16.7
155-15	<0.47	<4.6	<5.3	5.4	<0.02	0.56	2.3	<0.32	12.7	18.2
155-16	<0.47	<4.6	<5.3	3.9	<0.02	<0.37	2.2	0.38	12	12.8
155-17	<0.48	<4.6	<5.3	5	<0.02	0.85	2.2	0.55	215	76.1
155-18	<0.49	<4.6	<5.3	3.9	<0.02	<0.37	2	<0.32	10.2	10.3
155-19	<0.50	<4.6	<5.3	8.5	0.06	1.9	4	0.32	23.4	23.8
155-20	<0.47	<4.6	<5.3	2	<0.02	<0.37	2.2	<0.32	3.5	11.5
155-21	<0.46	<4.6	<5.3	6.6	0.1	0.52	3.9	<0.32	22.4	23.3
155-22	<0.46	<4.6	<5.3	3.4	0.02	<0.37	1.4	<0.32	10.1	12.6

Sample number	STLC (mg/L) Ceiling Sheetrock									
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury
155-23	0.3	<0.2	0.086	<0.002	<0.01	0.2	0.05	1.4	0.1	<0.006
155-24	<0.1	<0.2	0.067	<0.002	<0.01	0.25	0.02	0.27	0.1	<0.006
155-25	<0.1	<0.2	0.15	<0.002	<0.01	0.11	0.06	0.49	<0.1	<0.006
155-26	<0.1	<0.2	0.15	<0.002	<0.01	0.13	0.07	0.42	<0.1	<0.006
155-27	<0.1	<0.2	0.14	<0.002	<0.01	0.2	0.06	0.69	<0.1	<0.006
155-28	<0.1	<0.2	0.16	<0.002	<0.01	0.35	0.1	0.39	0.1	<0.006
155-29	<0.1	<0.2	0.086	<0.002	<0.01	0.09	0.04	0.19	<0.1	<0.006
155-30	<0.1	<0.2	0.18	<0.002	<0.01	0.18	0.07	1	<0.1	<0.006
155-31	<0.1	0.2	0.058	<0.002	<0.01	0.6	0.14	0.16	0.1	<0.006
155-32	<0.1	<0.2	0.066	<0.002	<0.01	0.16	0.07	0.91	0.1	<0.006
155-33	<0.1	<0.2	0.17	<0.002	<0.01	0.25	0.12	0.35	0.2	<0.006
155-34	<0.1	<0.2	0.17	<0.002	<0.01	0.13	0.05	0.68	<0.1	<0.006
155-35	<0.1	<0.2	0.14	<0.002	<0.01	0.07	0.04	0.27	<0.1	0.007

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	STLC (mg/L) Wall Cement								
	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel
155-36	0.0013	<0.0185	0.387	0.063	0.0704	<0.212	0.0045	0.0914	0.946
155-37	0.0015	<0.0185	0.0825	0.0408	0.398	<0.212	0.0025	0.0457	<0.0775
155-38	0.0016	<0.0185	0.0732	0.0486	0.186	<0.212	0.0023	0.0732	<0.0775
155-39	0.0015	<0.0185	0.193	0.0308	0.126	<0.212	0.0019	0.0325	0.409
155-40	<0.001	<0.0185	0.112	0.0595	0.283	0.29	0.0018	0.0548	<0.0775
155-41	0.0042	<0.0185	0.103	0.0453	0.203	<0.212	0.0019	0.0914	<0.0775
155-42	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-43	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-44	0.0015	<0.0185	0.115	0.188	0.305	0.458	0.0141	0.0457	0.123
155-45	<0.001	<0.0185	0.325	0.086	0.252	<0.21.	0.0024	0.0325	0.32
155-46	<0.001	<0.0185	0.368	0.131	0.249	0.299	0.0016	0.0548	0.168
155-47	<0.001	<0.0185	0.349	0.0558	0.0984	<0.212	0.0016	0.0548	0.538
155-48	<0.001	<0.0185	0.448	0.0702	0.396	<0.212	0.033	0.0325	0.0906
155-49	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-50	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-51	0.0042	<0.0185	0.103	0.0453	0.203	<0.212	0.0019	0.0914	<0.0775
155-52	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-53	0.0016	<0.0185	0.22	0.0744	0.326	<0.212	0.002	0.0822	0.0775
155-54	0.0035	<0.0185	0.495	0.0912	0.166	<0.212	0.003	0.101	0.175
155-55	0.0046	<0.0185	0.29	0.138	0.0647	<0.212	0.0027	0.0366	0.172
155-56	0.0012	<0.0185	0.382	0.482	0.0912	<0.212	0.0034	0.0325	0.161
155-57	0.0028	<0.0185	0.475	0.138	0.0581	<0.212	0.0033	0.0457	0.135
155-58	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-59	NA	NA	NA	NA	NA	NA	NA	NA	NA
155-60	0.0036	<0.0185	0.262	0.199	0.158	<0.212	0.0017	0.0325	0.117
155-61	<0.001	<0.0185	0.438	0.14	0.0739	<0.212	0.0042	0.0548	0.079
155-62	0.0022	<0.0185	0.274	0.0698	0.15	<0.212	0.0023	0.0411	0.186
155-63	0.003	0.0602	0.148	0.292	0.185	<0.212	0.0129	0.0732	0.139
155-64	0.0046	<0.0185	0.14	0.194	0.161	<0.212	0.0209	0.0325	0.142
155-65	0.0036	0.051	0.178	0.148	0.158	<0.212	0.0055	0.0366	0.131
155-66	0.002	<0.0185	0.245	0.161	0.0971	<0.212	0.0028	0.064	0.12
155-67	0.0025	<0.0185	0.339	0.206	0.122	<0.212	0.0029	0.0366	0.208
155-68	0.003	<0.0185	0.163	0.0595	0.1	<0.212	0.0028	<0.0325	0.102
155-69	<0.001	<0.0185	0.0262	<0.016	0.057	<0.212	0.141	<0.0325	0.239
155-70	<0.001	<0.0185	0.0341	<0.016	<0.0125	<0.212	0.194	<0.0325	<0.0775
155-71	0.003	<0.0185	0.13	0.14	0.0975	<0.212	0.007	<0.0325	0.112

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	TTLC Metals (µg/swipe) Floor Paint								STLC (mg/L) - Floor Tile	
	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Molyb-denum	Zinc	Antimony	Arsenic
155-1	0.8	0.96	<4.2	<0.38	<10.4	<0.96	<0.55	5	<0.1	<0.2
155-2	2.3	63.1	<4.2	<0.38	20.6	<0.96	3.9	147	<0.1	<0.2
155-3	1.3	3	<4.2	<0.38	<10.4	<0.96	<0.55	82.5	<0.1	<0.2
155-4	0.52	<1.6	<6.1	0.51	<5.4	0.65	<0.65	50.7	<0.1	<0.2
155-5	0.61	<1.6	<6.1	<0.37	<5.4	0.35	<0.65	31	<0.1	<0.2
155-6	1.3	2	<6.1	0.55	<5.4	0.38	<0.65	52.3	<0.1	<0.2
155-7	1.2	<1.6	<6.1	0.5	<5.4	0.33	<0.65	32.8	<0.1	<0.2
155-8	10.5	52.3	<6.1	0.8	<5.4	1.5	3.6	499	<0.1	<0.2
155-9	8	5	<6.1	0.92	<5.4	0.99	<0.65	112	<0.1	<0.2
155-10	24	<1.6	<6.1	0.6	<5.4	0.39	<0.65	51.7	<0.1	<0.2
155-11	12.2	<1.6	<6.1	0.44	<5.4	0.32	<0.65	63.6	<0.1	<0.2
155-12	3	<1.6	<6.1	0.88	<5.4	<0.31	<0.65	64.3	<0.1	<0.2
155-13	3.2	1.9	<6.1	0.5	<5.4	<0.31	<0.65	70	<0.1	<0.2
155-14	3.4	2.1	<6.1	0.94	<5.4	0.53	<0.65	96.3	<0.1	<0.2
155-15	22.6	1.6	<6.1	0.5	<5.4	<0.31	<0.65	63.7	<0.1	<0.2
155-16	12.1	2	<6.1	<0.37	6	0.33	2	44.8	<0.1	<0.2
155-17	2.2	1.9	<6.1	<0.37	<5.4	0.63	<0.65	131	<0.1	<0.2
155-18	3.8	1.8	<6.1	0.73	<5.4	0.32	<0.65	51.6	<0.1	<0.2
155-19	5.9	3.6	<6.1	1.1	<5.4	0.83	0.69	86.8	<0.1	<0.2
155-20	0.23	<1.6	<6.1	0.37	<5.4	<0.31	<0.65	78.4	<0.1	<0.2
155-21	5.5	1.8	<6.1	0.74	<5.4	0.84	<0.65	70.2	<0.1	<0.2
155-22	10.7	<1.6	<6.1	0.4	<5.4	<0.31	<0.65	44.7	<0.1	<0.2

Sample number	STLC (mg/L) Ceiling Sheetrock						
	Molybdenum	Nickel	Selenium	Silver	Thallium	Zinc	Vanadium
155-23	0.05	0.05	0.2	<0.02	<0.2	4.3	<0.04
155-24	0.03	0.56	0.1	<0.02	<0.2	2.1	<0.04
155-25	0.03	<0.04	0.1	<0.02	<0.2	3.5	<0.04
155-26	0.04	0.08	0.1	<0.02	<0.2	6.7	<0.04
155-27	0.03	0.3	0.2	<0.02	<0.2	2.9	<0.04
155-28	0.05	0.47	<0.1	<0.02	<0.2	7.5	<0.04
155-29	0.04	0.04	0.1	<0.02	<0.2	2.7	<0.04
155-30	0.05	0.04	<0.1	<0.02	<0.2	3.9	<0.04
155-31	0.05	1.5	<0.1	<0.02	<0.2	3	<0.04
155-32	0.05	0.09	0.2	<0.02	<0.2	3.5	<0.04
155-33	0.05	0.1	0.2	<0.02	<0.2	4.9	<0.04
155-34	0.04	<0.04	<0.1	<0.02	<0.2	3.2	<0.04
155-35	<0.02	<0.04	0.2	<0.02	<0.2	35	<0.04

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	STLC (mg/L) Wall Cement				
	Selenium	Silver	Thallium	Zinc	Vanadium
155-36	<0.17	<0.0185	<0.272	2.34	0.0458
155-37	<0.17	<0.0185	<0.272	2.11	0.0684
155-38	<0.17	<0.0185	<0.272	2.33	0.083
155-39	<0.17	<0.0185	<0.272	1.76	0.0614
155-40	<0.17	<0.0185	0.399	3.08	0.0538
155-41	<0.17	<0.0185	<0.272	2.91	0.0874
155-42	NA	NA	NA	NA	NA
155-43	NA	NA	NA	NA	NA
155-44	<0.17	<0.0185	<0.272	5.21	0.0545
155-45	<0.17	<0.0185	<0.272	0.0445	3.28
155-46	<0.17	<0.0185	<0.272	0.0568	3.34
155-47	<0.17	<0.0185	<0.272	0.0498	2.87
155-48	<0.17	<0.0185	<0.272	0.024	1.98
155-49	NA	NA	NA	NA	NA
155-50	NA	NA	NA	NA	NA
155-51	<0.17	<0.0185	<0.272	0.0874	2.91
155-52	NA	NA	NA	NA	NA
155-53	<0.17	<0.0185	<0.272	0.0744	3.57
155-54	<0.17	<0.0185	<0.272	0.243	4.51
155-55	<0.17	<0.0185	<0.272	0.221	32.8
155-56	<0.17	<0.0185	<0.272	0.124	41.2
155-57	<0.17	<0.0185	<0.272	0.168	27.1
155-58	NA	NA	NA	NA	NA
155-59	NA	NA	NA	NA	NA
155-60	<0.17	<0.0185	<0.272	0.167	22.7
155-61	<0.17	<0.0185	<0.272	0.0011	2.96
155-62	<0.17	<0.0185	<0.272	0.172	3.23
155-63	<0.17	<0.0185	<0.272	0.185	71.6
155-64	<0.17	<0.0185	<0.272	0.202	5.42
155-65	<0.17	<0.0185	<0.272	0.195	36.4
155-66	<0.17	<0.0185	<0.272	0.161	0.9
155-67	<0.17	<0.0185	<0.272	0.164	6.09
155-68	<0.17	<0.0185	<0.272	0.155	1.31
155-69	<0.17	<0.0185	<0.272	<0.0155	2.35
155-70	<0.17	<0.0185	0.287	<0.0155	0.6
155-71	<0.17	<0.0185	0.366	0.138	1.17

Table C-2. Room 155 Structural Analytical Data (continued)

Sample number	STLC (mg/L) Floor Tile							
	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury
155-1	0.34	<0.002	<0.01	0.32	0.34	0.07	0.2	0.01
155-2	0.32	<0.002	0.01	0.38	0.25	0.1	<0.1	0.008
155-3	0.41	0.01	<0.01	0.45	0.15	0.13	<0.1	0.008
155-4	0.29	<0.002	0.03	0.48	0.12	0.42	0.1	0.02
155-5	0.3	<0.002	<0.01	0.35	0.23	0.05	<0.1	0.008
155-6	0.41	<0.002	<0.01	0.35	0.02	0.04	<0.1	<0.006
155-7	0.26	<0.002	0.02	0.28	0.02	0.18	0.4	0.03
155-8	0.28	<0.002	0.02	0.36	0.03	0.19	0.1	<0.006
155-9	0.72	<0.002	0.02	0.4	0.03	1	0.4	0.03
155-10	0.13	<0.002	<0.01	0.18	0.01	0.02	<0.1	<0.006
155-11	0.25	<0.002	<0.01	0.32	0.03	0.04	<0.1	<0.006
155-12	0.31	<0.002	<0.01	0.35	0.03	0.04	<0.1	<0.006
155-13	0.46	<0.002	<0.01	0.34	0.03	0.07	<0.1	0.01
155-14	0.29	<0.002	<0.01	0.46	0.04	0.26	<0.1	<0.006
155-15	0.26	<0.002	<0.01	0.35	0.03	0.05	<0.1	<0.006
155-16	0.27	<0.002	<0.01	0.31	0.02	0.11	<0.1	0.02
155-17	0.54	<0.002	<0.01	0.33	0.02	0.31	<0.1	0.02
155-18	0.43	<0.002	0.07	0.37	0.03	0.14	0.1	<0.006
155-19	0.22	<0.002	0.03	0.48	0.03	0.07	<0.1	<0.006
155-20	0.47	<0.002	0.04	0.5	0.03	0.24	0.1	<0.006
155-21	0.49	<0.002	0.07	0.53	0.04	0.25	0.5	<0.006
155-22	0.25	<0.002	0.02	0.44	0.03	0.12	0.1	<0.006

Table C-2. Room 155 Structural Analytical Data (concluded)

Sample number	STLC (mg/L) Floor Tile						
	Molybdenum	Nickel	Selenium	Silver	Thallium	Zinc	Vanadium
155-1	0.02	0.52	<0.1	<0.02	<0.2	3.2	<0.04
155-2	0.02	0.6	<0.1	<0.02	<0.2	2.2	<0.04
155-3	0.02	0.59	<0.1	<0.02	<0.2	3.3	<0.04
155-4	0.02	0.64	<0.1	<0.02	<0.2	4.2	<0.04
155-5	<0.02	0.6	<0.1	<0.02	<0.2	2.4	<0.04
155-6	<0.02	0.6	<0.1	<0.02	<0.2	2	<0.04
155-7	0.1	0.44	<0.1	<0.02	<0.2	2.5	<0.04
155-8	<0.02	0.6	<0.1	0.02	<0.2	6.2	<0.04
155-9	0.03	0.62	<0.1	<0.02	<0.2	16	<0.04
155-10	0.02	0.3	<0.1	<0.02	<0.2	0.71	<0.04
155-11	<0.02	0.57	<0.1	<0.02	<0.2	1.4	<0.04
155-12	<0.02	0.55	<0.1	<0.02	<0.2	2.1	<0.04
155-13	<0.02	0.55	<0.1	<0.02	<0.2	1.5	<0.04
155-14	0.02	0.73	<0.1	<0.02	<0.2	1.5	<0.04
155-15	<0.02	0.61	<0.1	<0.02	<0.2	1.4	<0.04
155-16	0.1	0.53	<0.1	<0.02	<0.2	1.6	<0.04
155-17	0.02	1	<0.1	<0.02	<0.2	1.9	<0.04
155-18	<0.02	0.62	<0.1	<0.02	<0.2	1.8	<0.04
155-19	0.04	0.69	<0.1	<0.02	<0.2	1.9	<0.04
155-20	<0.02	0.66	<0.1	<0.02	<0.2	3.3	<0.04
155-21	<0.02	0.69	<0.1	<0.02	<0.2	2.6	<0.04
155-22	<0.02	0.64	<0.1	<0.02	<0.2	2.2	<0.04

[a] Tile/cement* LOS will vary due to sample size and matrix.
[b] Insufficient sample.

dpm = disintegrations per minute
LOS = Limit of sensitivity
NA = Not analyzed for constituent
STLC = Soluble Threshold Limit Concentration
TTLC = Total threshold Limit Concentration

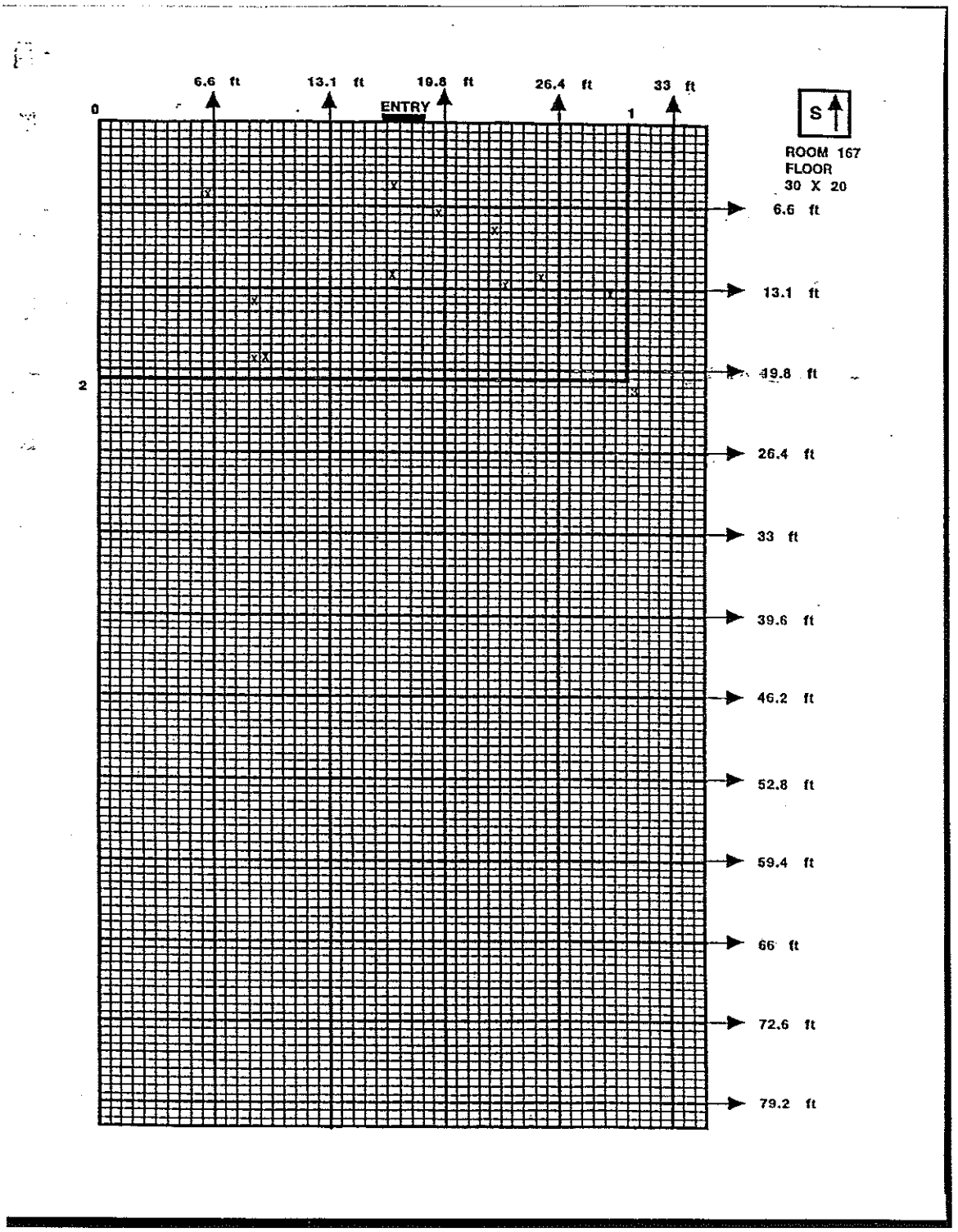

Figure C-3a. Floor sampling grid — Room 167

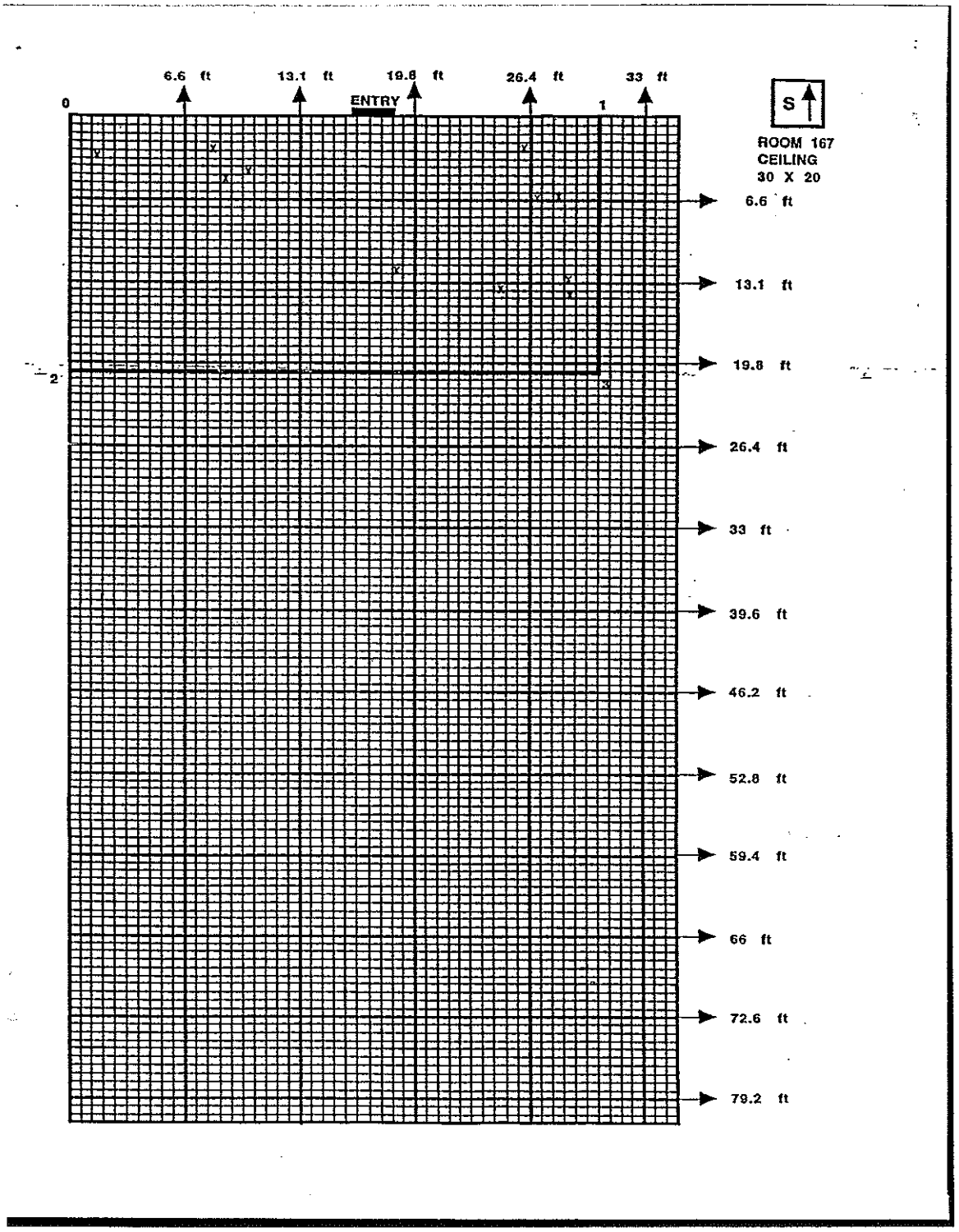

Figure C-3b. Ceiling sampling grid — Room 167

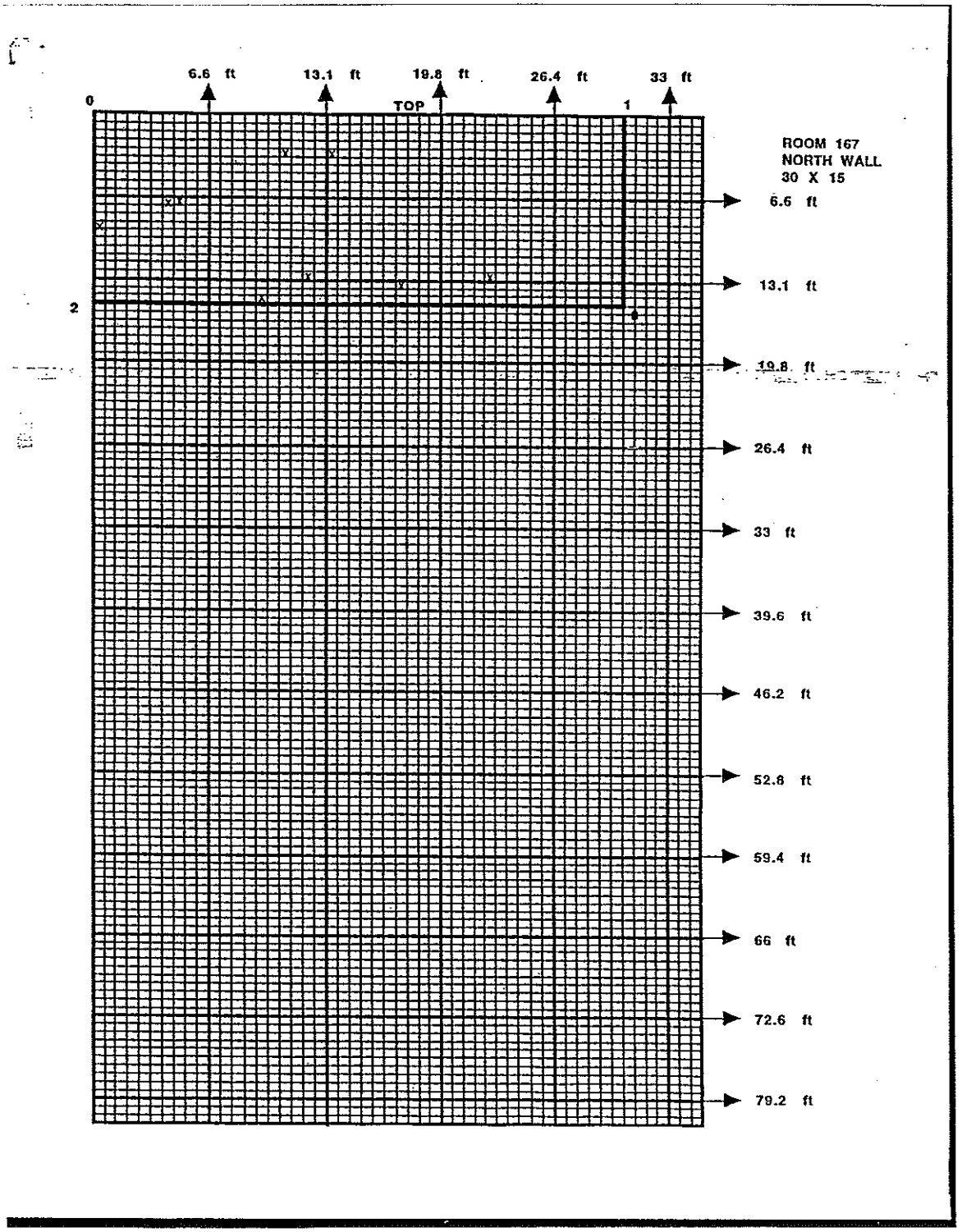

Figure C-3c. North wall sampling grid — Room 167

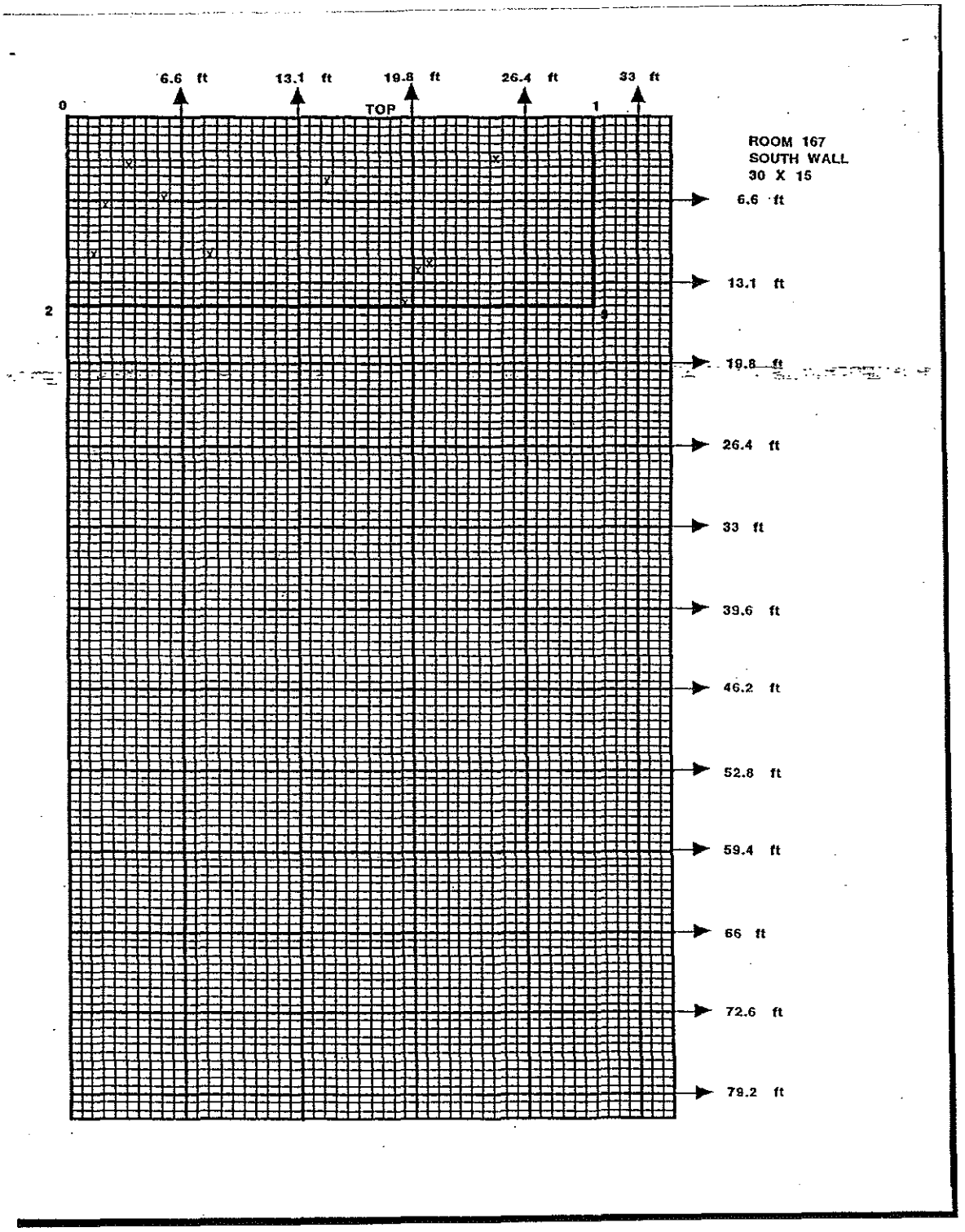

Figure C-3d. South wall sampling grid — Room 167

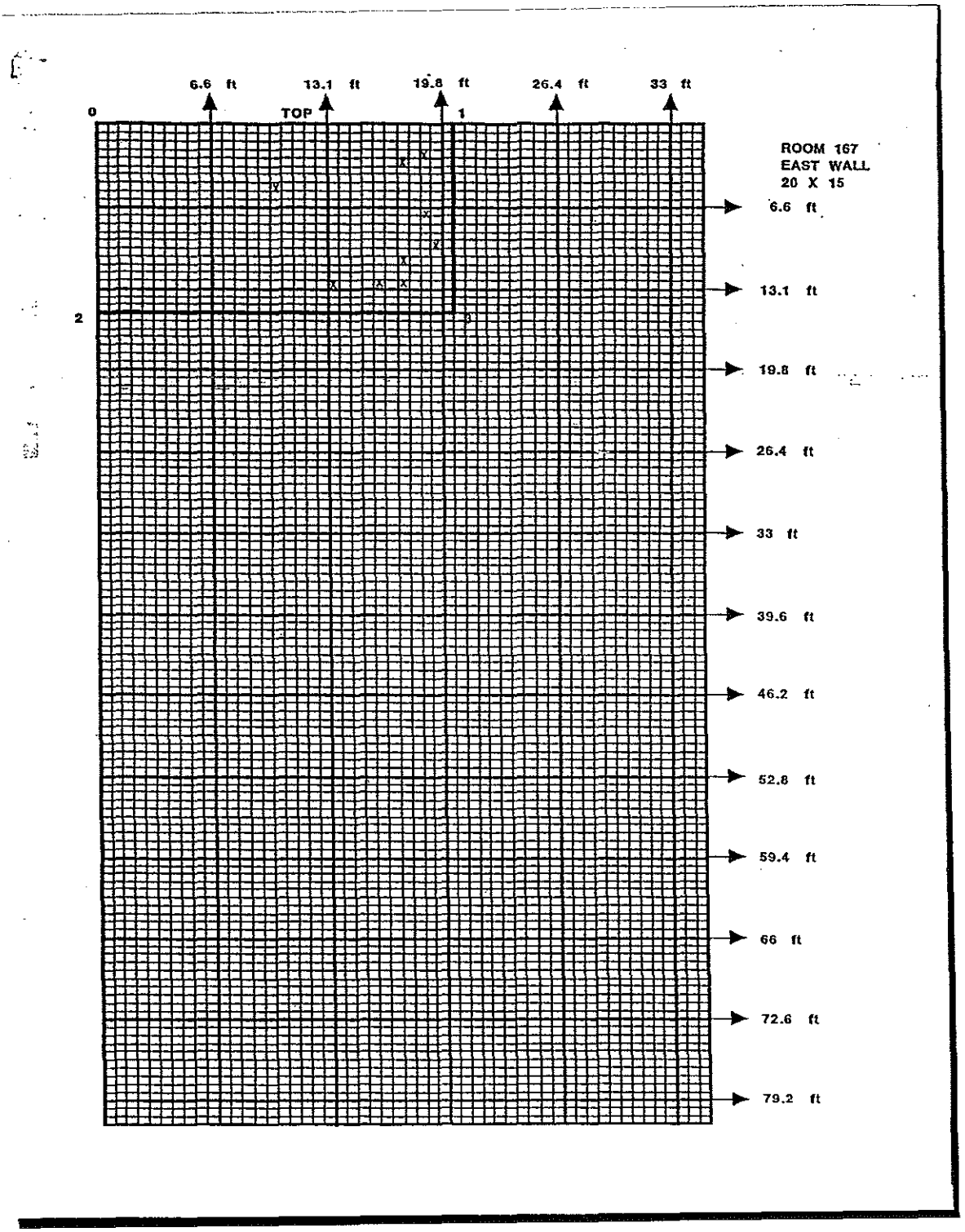

Figure C-3e. East wall sampling grid — Room 167

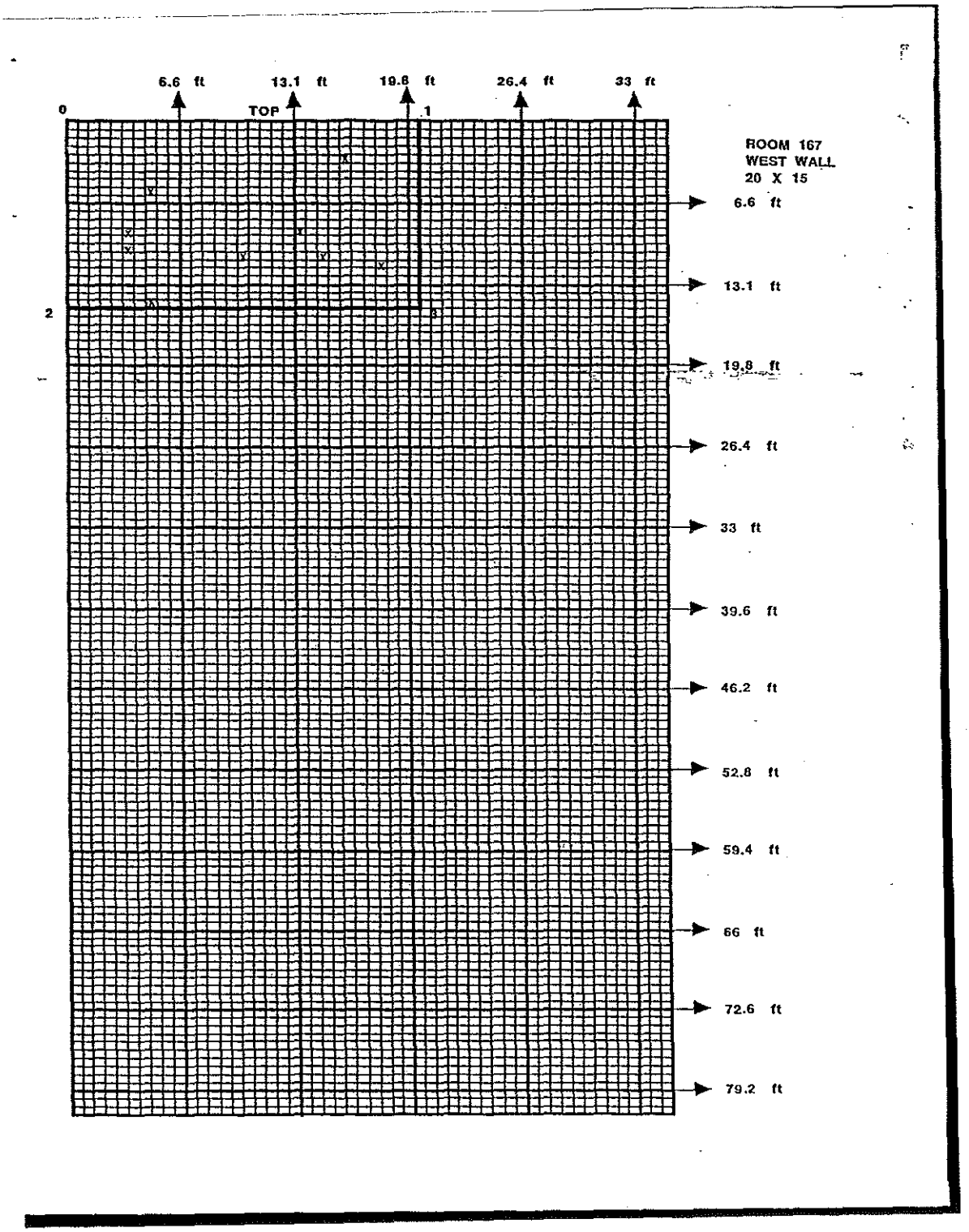

Figure C-3f. West wall sampling grid — Room 167

Table C-3. Room 167 Structural Analytical

Sample number	Location	Grid location	Surveys (dpm/100 cm^2)		Swipes (dpm/100 cm^2)		
			Alpha	Beta/ Gamma	Alpha	Beta	Tritium
167-1	Floor	5.6x16.9	<300	<1000	<20	<200	<1000
167-2	Floor	7x20.1	<300	<1000	<20	<200	<1000
167-3	Floor	6.2x6.9	<300	<1000	<20	<200	<1000
167-4	Floor	8.3x23.2	<300	<1000	<20	<200	<1000
167-5	Floor	12.8x17.4	<300	<1000	<20	<200	<1000
167-6	Floor	12.8x25.7	<300	<1000	<20	<200	<1000
167-7	Floor	13.4x23.6	<300	<1000	<20	<200	<1000
167-8	Floor	14.1x29.8	<300	<1000	<20	<200	<1000
167-9	Floor	14.7x9	<300	<1000	<20	<200	<1000
167-10	Floor	19.5x9.6	<300	<1000	<20	<200	<1000
167-11	Floor	19.5x10	<300	<1000	<20	<200	<1000
167-12	Floor	10.8x9	<300	<1000	<20	<200	<1000
167-13	Floor	5.5x30.5	<300	<1000	<20	<200	<1000
167-14	Ceiling	3x26.7	<300	<1000	<20	<200	<1000
167-15	Ceiling	2.5x8.8	<300	<1000	<20	<200	<1000
167-16	Ceiling	3.6x2.1	<300	<1000	<20	<200	<1000
167-17	Ceiling	5.5x9	<300	<1000	<20	<200	<1000
167-18	Ceiling	6.9x27.4	<300	<1000	<20	<200	<1000
167-19	Ceiling	6.9x28.7	<300	<1000	<20	<200	<1000
167-20	Ceiling	4.6x10.6	<300	<1000	<20	<200	<1000
167-21	Ceiling	12.8x19.5	<300	<1000	<20	<200	<1000
167-22	Ceiling	14.1x25.4	<300	<1000	<20	<200	<1000
167-23	Ceiling	12.8x29.4	<300	<1000	<20	<200	<1000
167-24	Ceiling	14.8x29	<300	<1000	<20	<200	<1000
167-25	N. wall	0.5x10	<300	<1000	<20	<200	<1000
167-26	N. wall	12.8x14	<300	<1000	<20	<200	<1000
167-27	N. wall	12.9x11.2	<300	<1000	<20	<200	<1000
167-28	N. wall	8.9x4.4	<300	<1000	<20	<200	<1000
167-29	N. wall	8.9x5.5	<300	<1000	<20	<200	<1000
167-30	N. wall	6.9x0.3	<300	<1000	<20	<200	<1000
167-31	N. wall	3x12.6	<300	<1000	<20	<200	<1000
167-32	N. wall	2.3x17.7	<300	<1000	<20	<200	<1000
167-33	N. wall	3x23	<300	<1000	<20	<200	<1000
167-34	S. wall	12.9x25.4	<300	<1000	<20	<200	<1000
167-35	S. wall	12x3.9	<300	<1000	<20	<200	<1000
167-36	S. wall	10.5x15.2	<300	<1000	<20	<200	<1000
167-37	S. wall	8.5x2.4	<300	<1000	<20	<200	<1000
167-38	S. wall	4.5x2.1	<300	<1000	<20	<200	<1000

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Location	Grid location	Surveys (dpm/100 cm^2)		Swipes (dpm/100 cm^2)		
			Alpha	Beta/ Gamma	Alpha	Beta	Tritium
167-39	S. wall	4.5x8.3	<300	<1000	<20	<200	<1000
167-40	S. wall	4x21.1	<300	<1000	<20	<200	<1000
167-41	S. wall	3.6x20.8	<300	<1000	<20	<200	<1000
167-42	S. wall	1x19.5	<300	<1000	<20	<200	<1000
167-43	S. wall	9.5x6.3	<300	<1000	<20	<200	3301
167-44	Cement	2.6x18.1	<300	<1000	<20	<200	<1000
167-45	Cement	6x19	<300	<1000	<20	<200	2934
167-46	Cement	4.6x18	<300	<1000	<20	<200	<1000
167-47	Cement	8.7x19	<300	<1000	<20	<200	<1000
167-48	Cement	10.7x10.8	<300	<1000	<20	<200	<1000
167-49	Cement	13.2x19	<300	<1000	<20	<200	<1000
167-50	Cement	12.7x17.6	<300	<1000	<20	<200	1994
167-51	Cement	3x16.8	<300	<1000	<20	<200	<1000
167-52	Cement	2.6x13.8	<300	<1000	<20	<200	<1000
167-53	W. wall	6.6x4	<300	<1000	<20	<200	<1000
167-54	W. wall	12.7x16.7	<300	<1000	<20	<200	<1000
167-55	W. wall	10.1x5.6	<300	<1000	<20	<200	<1000
167-56	W. wall	6.4x14	<300	<1000	<20	<200	<1000
167-57	W. wall	5.6x4.1	<300	<1000	<20	<200	<1000
167-58	W. wall	5x10.9	<300	<1000	<20	<200	<1000
167-59	W. wall	4.3x15.2	<300	<1000	<20	<200	<1000
167-60	W. wall	1x5	<300	<1000	<20	<200	<1000
167-61	W. wall	4x18.3	<300	<1000	<20	<200	<1000

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Radiochemical (μCi/g) Values are 10^{-6}			TTLC Metals (μg/swipe)						
	Alpha	Beta	Tritium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
167-1	LOS	LOS	7500	6.1	<5.3	7.3	0.05	0.78	3.3	0.54
167-2	LOS	LOS	5600	<4.6	<5.3	9.8	0.05	1.5	4.0	0.59
167-3	LOS	LOS	3800	<4.6	<5.3	3.8	<0.02	0.45	1.6	<0.32
167-4	LOS	LOS	2000	<4.6	<5.3	7.8	0.08	1.2	3.4	0.4
167-5	5.5	6.4	2100	<4.6	<5.3	9.4	0.05	1.0	3.9	0.61
167-6	LOS	LOS	880	<4.6	<5.3	1.8	<0.02	<0.37	1.1	0.32
167-7	LOS	LOS	1300	<4.6	<5.3	2.6	0.03	<0.37	2.0	0.45
167-8	3.8	6.7	1600	<4.6	<5.3	3.2	<0.02	0.4	2.4	0.41
167-9	13	14	150	<4.6	<5.3	3.6	0.05	<0.37	1.5	<0.32
167-10	2.7	LOS	5600	6.1	<5.3	4.9	0.05	0.55	2.3	0.4
167-11	4.4	4.2	420	<4.6	<5.3	7.5	0.05	1.2	2.1	0.48
167-12	460	30	2200	<4.6	<5.3	9.0	0.05	1.5	2.5	0.37
167-13	1.7	LOS	360	<4.6	<5.3	1.8	0.03	<0.37	0.69	<0.32
167-14	LOS	LOS	200	<4.6	<5.3	0.75	<0.02	<0.37	<0.34	0.52
167-15	LOS	LOS	54	<4.6	<5.3	0.44	<0.02	<0.37	1.4	<0.32
167-16	LOS	LOS	65	<4.6	6.6	0.55	<0.02	<0.37	<0.34	<0.32
167-17	LOS	LOS	160	<4.6	<5.3	0.52	<0.02	<0.37	<0.34	<0.32
167-18	LOS	LOS	38	<4.6	<5.3	1.2	<0.02	0.38	<0.34	<0.32
167-19	LOS	LOS	20	6.1	<5.3	0.91	<0.02	<0.37	<0.34	<0.32
167-20	LOS	LOS	36	<4.6	<5.3	0.96	<0.02	<0.37	<0.34	<0.32
167-21	LOS	LOS	110	<4.6	<5.3	0.61	<0.02	<0.37	<0.34	<0.32
167-22	LOS	LOS	83	<4.6	<5.3	1.4	<0.02	<0.37	0.5	<0.32
167-23	Analysis Not Performed			<4.6	<5.3	Analysis Not Performed				
167-24	LOS	LOS	33	<4.6	<5.3	0.94	<0.02	<0.37	<0.34	<0.32
167-25	No Sample—door			<4.5	<5.2	3.5	<0.02	3.1	1.3	<0.32
167-26	LOS	LOS	30.0	<4.6	<5.3	1.2	<0.02	<0.37	0.82	0.43
167-27	LOS	LOS	20.0	<4.6	<5.3	3.8	0.05	0.46	3.3	0.5
167-28	LOS	LOS	17.0	<4.6	<5.3	2.3	0.09	<0.37	2.6	<0.32
167-29	LOS	LOS	LOS.0	<4.6	<5.3	1.2	0.05	<0.37	1.2	<0.32
167-30	LOS	LOS	16.0	<4.6	<5.3	8.3	0.03	<0.37	1.7	<0.32
167-31	No Sample—door			<4.6	<5.3	5.7	0.04	0.89	2.0	<0.32
167-32	No Sample—door			<4.6	<5.3	3.9	0.04	0.56	3.2	0.33
167-33	5.4	LOS	8.2	<4.6	<5.3	0.96	0.1	<0.37	1.5	<0.32
167-34	LOS	LOS	66.0	<4.6	<5.3	1.8	0.62	0.59	1.3	0.36
167-35	LOS	LOS	20.0	<4.6	<5.3	4.0	0.26	1.4	3.4	0.36
167-36	LOS	LOS	13.0	<4.6	<5.3	12.5	0.46	2.1	14.1	0.58
167-37	LOS	LOS	20.0	<4.6	<5.3	1.9	0.07	0.59	1.9	<0.32
167-38	LOS	LOS	18.0	<4.6	<5.3	1.0	<0.02	0.75	1.5	<0.32

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Radiochemical (μCi/g) Values are 10^{-6}			TTLC Metals (μg/swipe)						
	Alpha	Beta	Tritium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt
167-39	LOS	LOS	2900	<4.6	<5.3	1.9	0.02	<0.37	3.8	<0.32
167-40	LOS	LOS	940	<4.6	<5.3	0.82	<0.02	0.49	0.71	<0.32
167-41	LOS	LOS	43	<4.6	<5.3	0.9	<0.02	0.48	0.59	<0.32
167-42	No Sample—door			<4.6	<5.3	1.1	0.07	0.57	0.96	<0.32
167-43	LOS	LOS	12	<4.6	<5.3	6.0	0.15	1.5	5.2	0.55
167-44	LOS	LOS	10	<4.6	<5.3	0.9	<0.02	<0.37	1.5	<0.32
167-45	LOS	LOS	8.9	<4.6	<5.3	1.5	0.06	<0.37	2.6	<0.32
167-46	LOS	LOS	20	<4.6	8.8	0.62	<0.02	<0.37	0.83	<0.32
167-47	LOS	LOS	28	<4.6	7.1	1.1	0.05	<0.37	1.4	<0.32
167-48	LOS	LOS	10	<4.6	6.2	1.9	0.14	<0.37	1.2	<0.32
167-49	LOS	LOS	170	<4.6	6.6	2.1	<0.02	<0.37	0.84	<0.32
167-50	NA	NA	75	<4.6	<5.3	2.8	<0.02	<0.37	1.6	<0.32
167-51	LOS	LOS	9	<4.6	9.7	1.0	<0.02	<0.37	1.5	<0.32
167-52	LOS	LOS	110	NA	NA	NA	NA	NA	NA	NA
167-53	LOS	LOS	LOS	<4.6	6.2	0.77	0.1	<0.37	1.1	<0.32
167-54	LOS	LOS	38	<4.6	8.2	1.5	<0.02	<0.37	0.87	<0.32
167-55	LOS	LOS	290	<4.6	<5.3	1.8	0.24	0.54	1.7	<0.32
167-56	LOS	LOS	LOS	<4.6	<5.3	5.9	<0.02	<0.37	2.3	1.2
167-57	LOS	LOS	14	<4.6	<5.3	1.3	0.08	<0.37	2.2	<0.32
167-58	LOS	LOS	8.1	<4.6	<5.3	4.0	0.14	0.5	7.1	<0.32
167-59	NA	NA	NA	<4.6	<5.3	5.9	<0.02	<0.37	2.3	1.2
167-60	LOS	LOS	27	<4.6	<5.3	0.71	<0.02	<0.37	0.82	<0.32
167-61	LOS	LOS	LOS	<4.6	<5.3	1.1	<0.02	<0.37	2.5	<0.32

Table C-3. Room 167 Structural Analytical (continued)

Sample number	TTLC Metals (µg/swipe)									
	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Molyb-denum
167-1	7.1	14.5	0.32	3.5	<6.1	5.2	<5.4	0.65	101.0	<0.65
167-2	8.6	20.4	8.6	3.1	<6.1	1.3	<5.4	0.61	139.0	<0.65
167-3	3.3	9.3	0.25	2.0	<6.1	<0.37	<5.4	<0.31	59.6	<0.65
167-4	8.9	16.7	0.33	3.7	<6.1	1.1	<5.4	0.61	1.9	<0.65
167-5	7.6	15.6	0.43	2.3	<6.1	0.85	<5.4	1.2	152.0	<0.65
167-6	2.2	5.4	0.09	<1.6	<6.1	<0.37	<5.4	<3.2	23.1	<0.65
167-7	2.6	8.7	0.23	<1.6	<6.1	<0.37	<5.4	0.33	32.3	<0.65
167-8	3.2	8.6	1.5	1.7	<6.1	<0.37	<5.4	0.36	42.8	<0.65
167-9	2.8	5.7	0.24	1.9	<6.1	0.53	<5.4	0.64	55.0	<0.65
167-10	4.7	11.4	1.2	1.6	<6.1	1.0	<5.4	0.73	62.0	<0.65
167-11	3.8	10.3	0.35	2.1	<6.1	0.6	<5.4	0.59	120.0	<0.65
167-12	5.1	10.7	0.69	<1.6	<6.1	1.0	<5.4	0.58	233.0	<0.65
167-13	2.3	4.4	NA	<1.6	<6.1	<0.37	<5.4	<0.31	36.9	<0.65
167-14	1.1	<4.2	0.14	<1.6	<6.1	<0.37	<5.4	<0.31	8.9	<0.65
167-15	0.47	<4.2	0.12	<1.6	<6.1	<0.37	<5.4	<0.31	3.0	<0.65
167-16	1.3	<4.2	0.16	<1.6	<6.1	<0.37	<5.4	<0.31	2.7	<0.65
167-17	1.1	<4.2	0.44	<1.6	<6.1	<0.37	<5.4	<0.31	3.5	<0.65
167-18	0.94	5.1	0.51	<1.6	<6.1	<0.37	<5.4	<0.31	10.5	<0.65
167-19	0.55	<4.2	0.1	<1.6	<6.1	<0.37	<5.4	<0.31	6.1	<0.65
167-20	0.4	<4.2	0.07	<1.6	<6.1	<0.37	<5.4	<0.31	5.5	<0.65
167-21	1.6	<4.2	0.07	2.1	<6.1	<0.37	<5.4	0.35	5.6	<0.65
167-22	1.3	<4.2	0.21	<1.6	<6.1	<0.37	<5.4	<0.31	9.3	<0.65
167-23	Analysis Not Performed									
167-24	0.98	<4.2	0.13	<1.6	<6.1	<0.37	<5.4	<0.31	7.3	<0.65
167-25	4.0	5.7	0.09	<1.6	<6.1	<0.37	<5.4	<0.31	37.5	1.8
167-26	1.4	<4.2	0.05	1.8	8.5	<0.37	<5.4	<0.31	9.1	<0.65
167-27	5.9	8.6	0.15	2.3	<6.1	<0.37	<5.4	<0.31	64.1	<0.65
167-28	4.0	5.9	0.09	2.0	<6.1	<0.37	<5.4	<0.31	16.8	0.77
167-29	1.9	<4.2	0.08	<1.6	<6.1	<0.37	5.9	0.35	9.6	<0.65
167-30	1.3	<4.2	0.04	<1.6	<6.1	<0.37	<5.4	<0.31	5.6	<0.65
167-31	3.3	7.2	0.14	<1.6	<6.1	<0.37	<5.4	0.5	64.6	<0.65
167-32	3.0	6.0	0.16	<1.6	<6.1	<0.37	<5.4	0.35	51.9	<0.65
167-33	2.3	<4.2	0.19	<1.6	<6.1	<0.38	<5.4	<0.31	9.6	0.77
167-34	1.9	5.4	0.17	2.0	<6.1	<0.38	<5.4	<0.32	15.9	1.8
167-35	9.4	12.1	0.25	2.6	<6.1	<0.37	<5.4	<0.31	35.7	<0.65
167-36	22.6	26.0	0.53	5.4	<6.1	0.62	<5.4	1.1	81.3	1.3
167-37	2.8	4.2	0.22	<1.6	<6.1	<0.37	<5.4	0.36	18.0	<0.65
167-38	2.2	4.5	NA	<1.6	<6.1	<0.37	<5.4	<0.31	14.2	<0.65

Table C-3. Room 167 Structural Analytical (continued)

Sample number	TTLC Metals (μg/swipe)									
	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Molyb-denum
167-39	9.1	12.3	0.3	<1.6	<6.1	<0.37	<5.4	<0.31	13.4	0.82
167-40	4.0	6.4	0.09	<1.6	<6.1	<0.37	<5.4	<0.31	7.4	<0.65
167-41	1.3	<4.2	1.4	<1.6	<6.1	<0.37	<5.4	<0.31	10.6	<0.65
167-42	1.6	<4.2	0.18	<1.6	<6.1	<0.37	<5.4	<0.31	9.4	<0.65
167-43	13.8	18.9	0.69	2.8	6.9	<0.37	<5.4	<0.32	150.0	1.3
167-44	1.7	<0.42	0.28	<1.6	<6.1	<0.37	<5.4	0.4	4.5	<0.65
167-45	2.5	7.9	0.45	<1.6	<6.1	0.62	<5.4	0.56	17.4	<0.65
167-46	1.4	4.6	0.09	<1.6	<6.1	<0.37	<5.4	<0.31	8.6	<0.65
167-47	1.7	<4.2	0.12	<1.6	<6.1	<0.37	<5.4	<0.31	12.4	<0.65
167-48	2.4	<4.2	0.14	<1.6	<6.1	<0.37	<5.4	0.49	7.1	<0.65
167-49	2.4	<4.2	0.05	<1.6	<6.1	<0.37	<5.4	<0.31	16.0	<0.65
167-50	3.5	5.5	0.12	<1.6	<6.1	<0.37	<5.4	<0.31	72.6	<0.65
167-51	1.6	<4.2	0.13	<1.6	<6.1	<0.37	<5.4	<0.31	7.0	<0.65
167-52	Analysis Not Performed									
167-53	2.3	<4.2	0.5	<1.6	<6.1	<0.37	<5.4	<3.1	5.2	<0.65
167-54	3.4	4.3	0.11	<1.6	<6.1	<0.38	<5.4	0.36	25.6	<0.66
167-55	2.8	<4.2	0.19	<1.6	<6.1	<0.38	<5.4	<0.32	12.4	<0.67
167-56	3.0	6.7	0.2	1.6	<6.1	<0.37	<5.4	0.65	30.0	<0.65
167-57	4.4	<4.2	0.26	<1.6	<6.1	<0.37	<5.4	0.49	10.5	<0.65
167-58	131.0	12.2	0.42	1.6	<6.1	<0.37	<5.4	0.41	87.8	1.6
167-59	3.0	6.7	0.2	1.6	<6.1	<0.37	<5.4	0.65	30.0	<0.65
167-60	2.0	<4.2	0.15	<1.6	<6.1	<0.37	<5.4	<0.31	6.1	<0.65
167-61	3.9	4.6	0.08	<1.6	<6.1	<0.37	<5.4	<0.31	8.6	<0.65

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Bulk Scrapings STLC (mg/L)								
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
167-1	<0.231	0.372	1.41	0.0606	0.0472	0.466	0.059	2.92	2.58
167-2	0.276	2.19	1.67	0.0092	<0.0185	0.342	0.0354	1.01	0.212
167-3	<0.1	<0.2	0.75	<0.002	<0.01	0.37	0.03	0.99	<0.1
167-4	<0.231	0.44	0.957	0.0092	<0.0182	0.389	0.0452	0.844	<0.212
167-5	<0.231	<0.264	1.25	0.0122	<0.0185	0.288	0.0654	0.623	<0.212
167-6	<0.1	<0.2	0.65	<0.002	<0.01	0.3	0.05	0.46	<0.1
167-7	<0.1	<0.2	0.82	<0.002	<0.01	0.32	0.03	0.49	<0.1
167-8	<0.231	<0.264	1.38	0.0122	<0.0185	0.287	0.0613	0.537	<0.212
167-9	<0.1	<0.2	1.4	<0.002	<0.01	0.88	0.05	0.39	0.4
167-10	<0.231	<0.264	0.994	0.0076	<0.0185	0.277	0.0354	0.641	<0.212
167-11	<0.1	<0.2	1.1	<0.002	<0.01	0.34	0.04	0.5	<0.1
167-12	<0.1	<0.2	0.93	<0.002	<0.01	0.51	0.04	0.54	<0.1
167-13	>356	0.0031	1.57	0.0074	<0.0185	0.316	0.0362	0.585	0.218
167-14	<0.231	0.372	1.41	0.0606	0.0472	0.466	0.059	2.92	2.58
167-15	0.276	2.19	1.67	0.0092	<0.0185	0.342	0.0354	1.01	0.212
167-16	<0.1	<0.2	0.75	<0.002	<0.01	0.37	0.03	0.99	<0.1
167-17	<0.231	0.44	0.957	0.0092	<0.0182	0.389	0.0452	0.844	<0.212
167-18	<0.231	<0.264	1.25	0.0122	<0.0185	0.288	0.654	0.623	<0.212
167-19	<0.1	<0.2	0.65	<0.002	<0.01	0.3	0.05	0.46	<0.1
167-20	<0.1	<0.2	0.82	<0.002	<0.01	0.32	0.03	0.49	<0.1
167-21	<0.231	<0.264	1.38	0.0122	<0.0185	0.287	0.0613	0.537	<0.212
167-22	<0.1	<0.2	1.4	<0.002	<0.01	0.88	0.05	0.39	0.4
167-23	0.231	<0.264	0.994	0.0076	<0.0185	0.277	0.0354	0.641	<0.212
167-24	<0.231	<0.264	0.951	0.0082	<0.0185	0.621	0.0445	0.646	<0.212
167-25	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-26	<0.1	<0.2	0.16	<0.002	<0.01	0.41	0.08	0.06	<0.1
167-27	<0.1	<0.2	0.19	<0.002	<0.01	0.79	0.09	0.04	<0.1
167-28	<0.1	<0.2	0.19	<0.002	<0.01	0.7	0.09	0.03	<0.1
167-29	<0.1	<0.2	0.18	<0.002	<0.01	0.77	0.1	0.02	<0.1
167-30	<0.1	<0.2	0.29	<0.002	<0.01	2.3	0.19	0.07	<0.1
167-31	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-32	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-33	<0.1	<0.2	0.15	0.01	<0.01	0.56	0.08	0.96	<0.1
167-34	<0.1	0.2	0.17	<0.002	<0.01	0.5	0.1	0.04	<0.1
167-35	<0.1	0.2	0.18	<0.002	<0.01	0.76	0.1	0.04	0.3
167-36	<0.1	<0.2	0.16	<0.002	<0.01	0.51	0.08	0.05	0.5
167-37	<0.1	0.2	0.04	<0.002	<0.01	0.83	0.13	0.03	<0.1
167-38	<0.1	<0.2	0.097	<0.002	<0.01	0.95	0.12	0.46	<0.1

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Bulk Scrapings STLC (mg/L)								
	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead
167-39	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
167-40	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
167-41	<0.1	<0.2	0.16	<0.002	<0.01	0.37	0.06	0.06	0.2
167-42	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-43	<0.1	<0.2	0.065	<0.002	<0.01	0.43	0.1	0.03	<0.1
167-44	<0.1	<0.2	0.22	<0.002	<0.01	2.9	0.26	0.09	0.6
167-45	0.5	<0.2	0.17	<0.002	<0.01	2.4	0.34	0.05	1.6
167-46	<0.1	<0.2	0.85	<0.002	<0.01	2.9	0.28	0.09	2.4
167-47	8.8	<0.2	0.39	<0.002	<0.01	2.3	0.2	0.07	1.1
167-48	4.8	<0.2	0.65	<0.002	<0.01	1.8	0.21	0.09	1.2
167-49	3.6	<0.2	0.31	<0.002	<0.01	1.4	0.16	0.12	0.1
167-50	10.0	<0.2	0.43	<0.002	<0.01	2.o	0.17	0.04	0.2
167-51	<0.1	<0.2	0.32	<0.002	<0.01	2.5	0.22	0.12	0.2
167-52	Analysis Not Performed								
167-53	1.7	<0.2	0.36	<0.002	<0.01	0.88	0.24	0.1	0.2
167-54	8.5	<0.2	0.24	<0.002	0.03	1.6	0.2	0.08	0.3
167-55	8.5	<0.2	0.44	<0.002	0.05	1.2	0.13	0.1	0.4
167-56	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-57	<0.1	<0.2	0.4	<0.002	<0.01	1.5	0.21	0.05	0.4
167-58	<0.1	0.2	0.21	<0.002	<0.01	1.0	0.37	0.07	0.2
167-59	NA	NA	NA	NA	NA	NA	NA	NA	NA
167-60	<0.1	0.3	0.61	0.003	<0.01	0.35	0.16	0.11	0.4
167-61	0.2	0.2	0.14	<0.002	<0.01	0.54	0.11	0.07	0.2

Table C-3. Room 167 Structural Analytical (continued)

Sample number	Bulk Scrapings STLC (mg/L)							
	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
167-1	11.7	0.0414	0.301	<0.2	<0.0185	<0.272	0.329	3.62
167-2	0.0022	<0.0325	0.127	0.352	<0.0185	0.297	0.368	0.24
167-3	<0.006	<0.02	0.2	0.2	<0.02	<0.2	<0.04	0.2
167-4	0.0062	<0.0325	0.127	0.22	<0.0185	0.318	0.43	0.266
167-5	0.0266	<0.0325	0.103	0.208	<0.0185	<0.272	0.336	0.429
167-6	<0.006	<0.02	0.1	0.2	<0.02	<0.2	0.2	0.04
167-7	<0.006	<0.02	0.1	0.2	<0.02	<0.2	0.2	0.05
167-8	0.0068	<0.0325	0.158	<0.2	<0.0185	<0.272	0.357	0.325
167-9	<0.006	<0.02	0.1	0.1	<0.02	<0.2	0.2	0.09
167-10	0.016	0.0331	0.0013	<0.2	<0.0185	<0.272	0.344	0.147
167-11	<0.006	<0.02	0.1	0.2	<0.02	<0.2	0.2	0.04
167-12	0.05	0.03	0.09	0.2	<0.02	<0.2	0.2	0.1
167-13	<0.001	<0.0325	0.183	<0.2	<0.0185	<0.272	0.334	0.388
167-14	0.0117	0.0414	0.301	<0.2	<0.0185	<0.272	0.329	3.62
167-15	0.0022	<0.0325	0.127	0.352	<0.0185	0.297	0.368	0.24
167-16	<0.006	<0.02	0.2	0.2	<0.02	<0.2	<0.04	0.2
167-17	0.0062	<0.0325	0.127	0.22	<0.0185	0.318	0.43	0.266
167-18	0.0266	<0.0325	0.103	0.208	<0.0185	<0.272	0.336	0.429
167-19	<0.006	<0.02	0.1	0.2	<0.02	<0.2	0.2	0.04
167-20	<0.006	<0.02	0.1	0.2	<0.02	<0.2	0.2	0.05
167-21	0.0068	<0.0325	0.158	<0.2	<0.0185	<0.272	0.357	0.325
167-22	<0.006	<0.02	0.1	0.1	<0.02	<0.2	0.2	0.09
167-23	0.016	0.0331	0.0013	<0.2	<0.0185	<0.272	0.344	0.147
167-24	0.0131	<0.0325	0.11	0.343	<0.0185	0.488	0.34	0.1
167-25	NA	NA	NA	NA	NA	NA	NA	NA
167-26	<0.006	0.03	0.05	0.1	<0.02	<0.2	0.05	2.7
167-27	<0.006	0.04	0.07	<0.1	<0.02	<0.2	0.06	3.6
167-28	<0.006	0.04	0.07	<0.1	<0.02	<0.2	0.06	3.4
167-29	<0.006	0.04	0.06	<0.1	<0.02	<0.2	0.06	3.5
167-30	<0.006	<0.02	0.09	<0.1	<0.02	<0.2	0.1	0.07
167-31	NA	NA	NA	NA	NA	NA	NA	NA
167-32	NA	NA	NA	NA	NA	NA	NA	NA
167-33	<0.006	0.71	0.07	0.2	<0.02	<0.2	0.4	3.3
167-34	<0.006	0.04	0.1	<0.1	<0.02	<0.2	0.06	3.3
167-35	<0.006	0.04	0.07	<0.1	<0.02	<0.2	0.06	3.9
167-36	<0.006	0.06	0.07	<0.1	<0.02	<0.2	<0.04	3.7
167-37	<0.006	0.05	1.9	<0.1	<0.02	<0.2	<0.04	3.0
167-38	<0.006	0.07	1.6	<0.1	<0.02	<0.2	<0.04	4.1

Table C-3. Room 167 Structural Analytical (concluded)

	Bulk Scrapings STLC (mg/L)							
Sample number	Mercury	Molyb-denum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
167-39	IS	IS	IS	IS	IS	IS	IS	IS
167-40	IS	IS	IS	IS	IS	IS	IS	IS
167-41	<0.006	0.05	<0.04	0.2	<0.1	<0.2	<0.04	3.2
167-42	NA	NA	NA	NA	NA	NA	NA	NA
167-43	<0.006	0.06	0.05	<0.1	<0.1	<0.2	<0.04	3.6
167-44	0.01	0.02	0.06	0.1	<0.1	<0.2	0.1	0.2
167-45	0.01	0.03	0.05	<0.1	<0.1	<0.2	0.04	0.46
167-46	<0.006	0.03	0.1	0.2	<0.1	<0.2	0.2	13.0
167-47	0.009	<0.02	0.1	<0.1	<0.1	<0.2	0.1	22.0
167-48	0.01	<0.02	0.1	0.1	<0.1	<0.2	0.1	20.0
167-49	<0.006	0.02	0.1	<0.1	<0.1	<0.2	0.1	14.0
167-50	<0.006	0.02	<0.04	0.1	<0.1	<0.2	0.08	22.0
167-51	<0.006	0.02	0.06	0.2	<0.1	<0.2	0.2	0.09
167-52	NA	NA	NA	NA	NA	NA	NA	NA
167-53	<0.006	0.03	0.1	<0.1	<0.02	<0.2	0.2	9.2
167-54	<0.006	0.02	0.07	<0.1	<0.02	<0.2	0.1	52.0
167-55	<0.006	0.02	0.08	<0.1	<0.02	<0.2	0.1	55.0
167-56	NA	NA	NA	NA	NA	NA	NA	NA
167-57	<0.006	0.02	0.09	0.1	<0.02	<0.2	0.1	5.4
167-58	<0.006	0.03	0.09	0.1	<0.02	<0.2	0.09	12.0
167-59	NA	NA	NA	NA	NA	NA	NA	NA
167-60	0.007	0.02	0.2	0.1	<0.02	<0.2	0.2	42.0
167-61	<0.006	0.02	0.2	<0.1	<0.02	<0.2	0.1	3.8

(a) Insufficient sample.

dpm = disintegrations per minute
IS = Insufficient sample
LOS = Limit of sensitivity
NA = Not analyzed for constituent
STLC = Soluble Threshold Limit Concentration
TTLC = Total threshold Limit Concentration

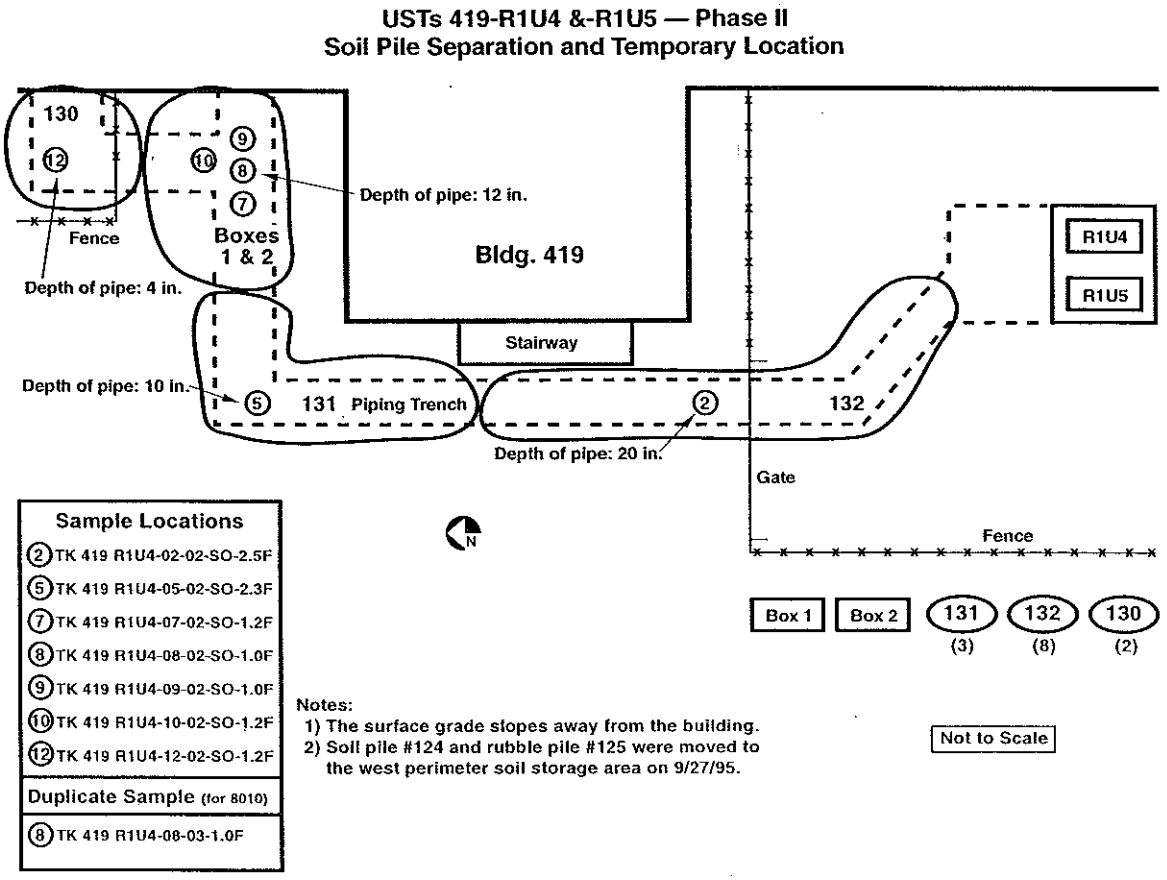

Figure C-4. UST 419–R1U4 & R1U5 Closure Project, Sample Locations, October 10, 1995

Table C-4. UST 419–R1U4 & R1U5 Closure Project, Sample Results, October 10, 1995

Sample number	TK419 R1U4-02-02-SO-2.5F	TK419 R1U4-05-02-SO-2.3F	TK419 R1U4-07-02-SO-1.2F	TK419 R1U4-08-02-SO-1.0F	TK419 R1U4-08-03-SO-1.0F	TK419 R1U4-09-02-SO-1.0F	TK419 R1U4-10-02-SO-1.2F	TK419 R1U4-12-02-SO-1.2F	Method Blank
Laboratory	CLS	CLS	CLS	CLS	CLS	CLS	CLS	CLS	CLS
pH	7.6	6.8	6.6	6.7	—[a]	7.0	7.0	6.8	
TTLC (mg/kg) EPA Method 6010/7000									
Antimony	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Arsenic	4.1	3.8	2.3	2.0	—[a]	2.9	3.3	2.5	ND
Barium	130.0	150.0	38.0	83.0	—[a]	87.0	110.0	58.0	ND
Beryllium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Chromium	25.0	26.0	25.0	28.0	—[a]	23.0	48.0	28.0	ND
Cobalt	7.3	7.7	ND	6.7	—[a]	6.6	8.0	5.9	ND
Copper	12.0	11.0	7.4	14.0	—[a]	15.0	15.0	11.0	ND
Lead	16.0	ND	ND	15.0	—[a]	160.0	ND	ND	ND
Mercury	0.092	ND	0.32	0.35	—[a]	8.3	2.4	0.21	ND
Molybdenum	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Nickel	30.0	29.0	30.0	41.0	—[a]	39.0	ND	38.0	ND
Selenium	ND	ND	ND	ND	—[a]	ND	47.0	ND	ND
Silver	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Vanadium	29.0	31.0	15.0	20.0	—[a]	20.0	32.0	20.0	ND
Zinc	31.0	29.0	15.0	28.0	—[a]	28.0	33.0	24.0	ND
STLC (mg/L)									
Antimony	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Barium	9.8	9.9	3.6	6.1	—[a]	5.9	0.63	ND	ND
Beryllium	ND	ND	ND	ND	—[a]	ND	ND	3.8	ND
Cadmium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Copper	ND	ND	ND	ND	—[a]	ND	ND	ND	ND

Table C-4. UST 419–R1U4 & R1U5 Closure Project, Sample Results, October 10, 1995 (concluded)

Sample number	TK419 R1U4-02-02-SO-2.5F	TK419 R1U4-05-02-SO-2.3F	TK419 R1U4-07-02-SO-1.2F	TK419 R1U4-08-02-SO-1.0F	TK419 R1U4-08-03-SO-1.0F	TK419 R1U4-09-02-SO-1.0F	TK419 R1U4-10-02-SO-1.2F	TK419 R1U4-12-02-SO-1.2F	Method Blank
Lead	ND	ND	ND	ND	—[a]	6.6	ND	ND	ND
Mercury	ND	ND	ND	ND	—[a]	0.025	ND	ND	ND
Molybdenum	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Silver	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	—[a]	ND	ND	ND	ND
Zinc	1.3	1.3	0.69	1.0	—[a]	0.91	0.9	0.65	ND
EPA Method 8010, Halogenated Volatile Organics	Methylene Chloride, 0.0019 mg/kg	Methylene Chloride, 0.0021 mg/kg. 1,1,2-Trichloro-1,2,2-trifluoroethane, 0.00090 mg/kg	Methylene Chloride, 0.0018 mg/kg. 1,1,2-Trichloro-1,2,2-trifluoroethane, 0.00070 mg/kg	Methylene Chloride, 0.0022 mg/kg. 1,1,2-Trichloro-1,2,2-trifluoroethane, 0.0011 mg/kg	Methylene Chloride, 0.0016 mg/kg. 1,1,2-Trichloro-1,1,2-trifluoroethane, 0.00080	Methylene Chloride, 0.0022 mg/kg. 1,1,2-Trichloro-1,2,2-trifluoroethane, 0.0010 mg/kg	Methylene Chloride, 0.0022 mg/kg. 1,1,2-Trichloro-1,2,2-trifluoroethane, 0.0011 mg/kg	Methylene Cloride, 0.0016 mg/kg. 1,1,2-Trichloro-1,1,2-trifluoroethane, 0.00080 mg/kg	Methylene Chloride, 0.0018 mg/kg
Method 8020, Aromatic Volatiles	ND	ND	ND	ND	—[a]	ND	ND	Toluene, 0.0091 mg/kg	ND

[a] Not analyzed for constituent.

[b] ND = Not Detected

dpm = disintegrations per minute

LOS = Limit of sensitivity

NA = Not analyzed for constituent

STLC = Soluble Threshold Limit Concentration

TTLC = Total threshold Limit Concentration

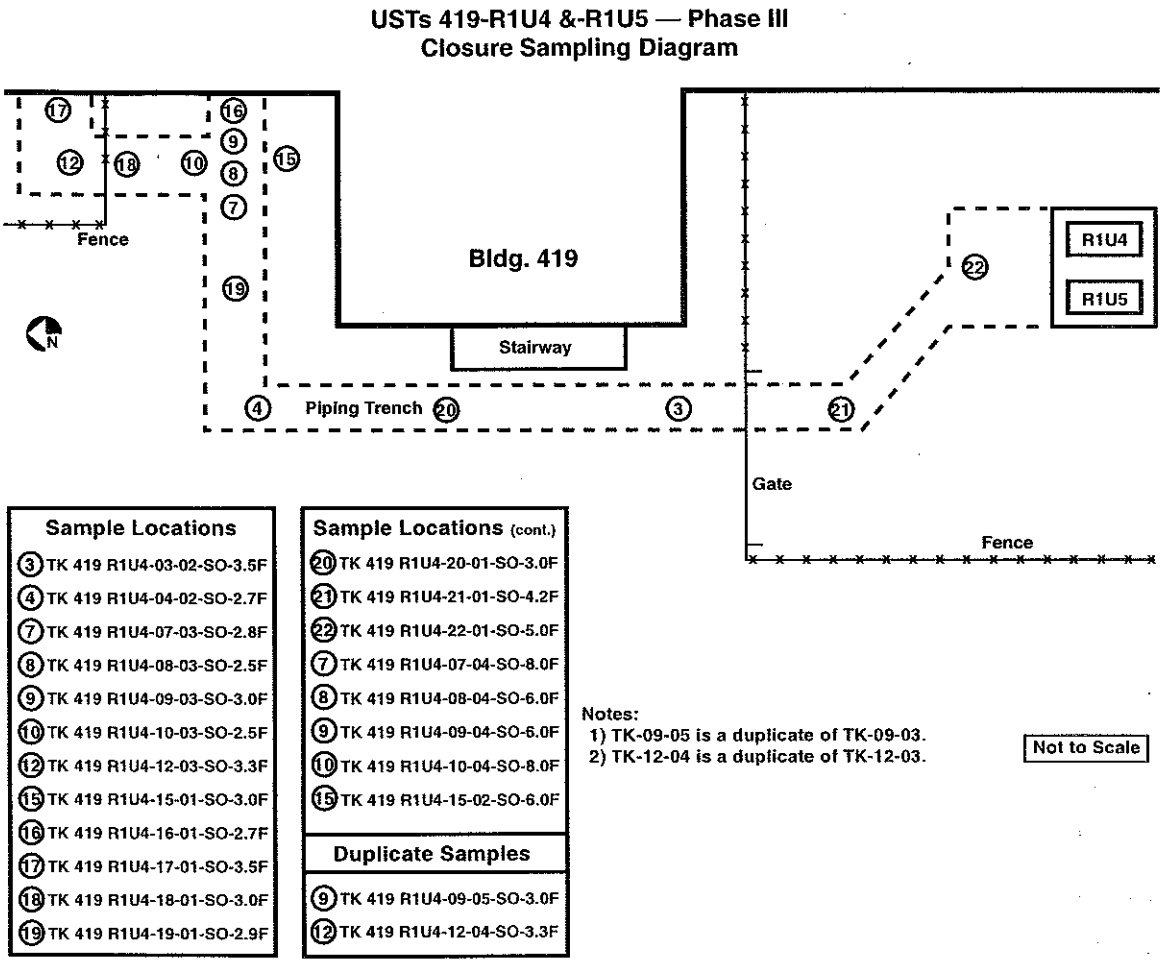

Figure C-5. UST 419–R1U4 & R1U5 Closure Project, Sample Locations, October 10, 1995

Table C-5. UST 419–R1U4 & R1U5 Closure Project, Sample Results, October 26 & 27, 1995

Sample number	TK 419-R1U4-03-02-SO-3.5F	TK 419-R1U4-04-02-SO-2.7F	TK 419-R1U4-07-03-SO-2.8F	TK 419-R1U4-08-03-SO-2.5F	TK 419-R1U4-09-03-SO-3.0F	TK 419-R1U4-10-03-SO-2.5F	TK 419-R1U4-12-03-SO-3.3F	TK 419-R1U4-15-01-SO-3.0F
Laboratory	CLS	CLS	FGL	FGL	CLS	CLS	CLS	FGL
pH	7.6	7.0	—(a)	—(a)	6.8	7.8	6.8	—(a)
TTLC (mg/kg) EPA Method 6010/7000								
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	4.9	5.2	2.0	2.0	6.5	1.9	6.8	2.0
Barium	170.0	180.0	180.0	180.0	180.0	180.0	190.0	160.0
Beryllium	ND	ND	0.4	ND	0.55	ND	0.52	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	0.8
Chromium	34.0	34.0	30.0	26.0	39.0	35.0	34.0	26.0
Cobalt	8.9	8.9	7.9	8.6	9.7	8.6	11.0	8.1
Copper	13.0	13.0	16.0	15.0	14.0	13.0	13.0	28.0
Lead	47.0	ND	9.0	6.0	ND	ND	ND	30.0
Mercury	ND	ND	0.59	0.05	0.056	0.27	0.066	0.03
Molybdenum	ND	ND	ND	ND	ND	ND	ND	1.2
Nickel	35.0	34.0	30.0	30.0	40.0	36.0	36.0	29.0
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	38.0	43.0	29.0	28.0	43.0	40.0	44.0	31.0
Zinc	36.0	33.0	33.0	33.0	38.0	35.0	35.0	47.0
STLC (mg/L) EPA Method								
Antimony	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Arsenic	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Barium	—(a)	—(a)	11.0	9.8	—(a)	—(a)	—(a)	9.7
Beryllium	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Cadmium	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Chromium	—(a)	—(a)	0.1	ND	—(a)	—(a)	—(a)	ND
Cobalt	—(a)	—(a)	0.45	0.6	—(a)	—(a)	—(a)	0.63
Copper	—(a)	—(a)	0.2	0.1	—(a)	—(a)	—(a)	0.1
Lead	—(a)	—(a)	0.43	0.07	—(a)	—(a)	—(a)	0.06
Mercury	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Molybdenum	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Nickel	—(a)	—(a)	0.2	0.4	—(a)	—(a)	—(a)	0.6
Selenium	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Silver	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Thallium	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
Vanadium	—(a)	—(a)	0.4	0.3	—(a)	—(a)	—(a)	0.3
Zinc	—(a)	—(a)	ND	0.3	—(a)	—(a)	—(a)	ND
Method 8240, Organic Analysis	—(a)	—(a)	ND	ND	—(a)	—(a)	—(a)	ND
EPA Method 8010, Halogenated Volatile Organics	Trichloro-ethene 0.69 μg/kg. All others - ND	ND	—(a)	—(a)	ND	ND	ND	—(a)
Method 8020, Aromatic Volatiles	ND	ND	—(a)	—(a)	ND	ND	ND	—(a)

Table C-5. UST 419–R1U4 & R1U5 Closure Project, Sample Results, October 26 & 27, 1995 (continued)

Sample number	TK 419-R1U4-16-01-SO-2.7F	TK 419-R1U4-17-01-SO-3.5F	TK 419-R1U4-18-01-SO-3.0F	TK 419-R1U4-19-01-SO-2.9F	TK 419-R1U4-20-01-SO-3.0F	TK 419-R1U4-21-01-SO-4.2F	TK 419-R1U4-22-01-SO-5.0F	TK 419-R1U4-07-04-SO-8.0F
Laboratory	CLS	CLS	CLS	CLS	CLS	FGL	CLS	FGL
pH	6.6	9.2	6.5	7	7	—(a)	9.1	—(a)
TTLC (mg/kg) EPA Method 6010/7000								
Antimony	ND	ND	ND	ND	ND	ND	ND	1.6
Arsenic	6.6	6.2	5.5	4.1	4.9	2.0	4.3	6.0
Barium	170.0	200.0	180.0	190.0	160.0	140.0	120.0	130.0
Beryllium	0.5	ND	ND	ND	ND	ND	8.7	3.1
Cadmium	ND	ND	ND	ND	ND	ND	ND	2.4
Chromium	31.0	33.0	39.0	38.0	37.0	31.0	41.0	28.0
Cobalt	9.1	9.8	9.6	9.5	9.3	8.5	8.6	9.7
Copper	12.0	14.0	13.0	13.0	12..0	15.0	15.0	16.0
Lead	ND	ND	ND	ND	48.0	6.0	17.0	130.0
Mercury	ND	0.1	ND	ND	ND	0.07	0.43	0.04
Molybdenum	ND	ND	ND	ND	ND	ND	ND	3.2
Nickel	36.0	37.0	39.0	38	45	39	43.0	34.0
Selenium	ND	ND	ND	ND	ND	ND	ND	1.0
Silver	ND	ND	ND	ND	ND	ND	ND	6.8
Thallium	ND	ND	ND	ND	ND	ND	ND	3.0
Vanadium	38	39	47	43	33	29	29.0	21.0
Zinc	35	35	38	37	34	39	55.0	35.0
STLC (mg/L) EPA Method								
Antimony	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Arsenic	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Barium	—(a)	—(a)	—(a)	—(a)	—(a)	9.6	—(a)	5.5
Beryllium	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Cadmium	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Chromium	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Cobalt	—(a)	—(a)	—(a)	—(a)	—(a)	0.57	—(a)	0.16
Copper	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Lead	—(a)	—(a)	—(a)	—(a)	—(a)	0.08	—(a)	0.03
Mercury	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Molybdenum	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Nickel	—(a)	—(a)	—(a)	—(a)	—(a)	0.7	—(a)	ND
Selenium	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Silver	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Thallium	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Vanadium	—(a)	—(a)	—(a)	—(a)	—(a)	0.3	—(a)	ND
Zinc	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
Method 8240, Organic Analysis	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)	ND
EPA Method 8010, Halogenated Volatile Organics	ND	ND	ND	ND	ND	—(a)	ND	—(a)
Method 8020, Aromatic Volatiles	ND	ND	ND	ND	ND	—(a)	ND	—(a)

Table C-5. UST 419–R1U4 & R1U5 Closure Project, Sample Results, October 26 & 27, 1995 (concluded)

Sample number	TK 419-R1U4-08-04-SO-6.0F	TK 419-R1U4-09-04-SO-6.0F	TK 419-R1U4-10-04-SO-8.0F	TK 419-R1U4-15-02-SO-6.0F	TK 419-R1U4-09-05-SO-3.0F DUP	TK 419-R1U4-12-04-SO-3.3F DUP	Method Blank	Method Blank
Laboratory	CLS	CLS	FGL	CLS	CLS	CLS	CLS	FGL
pH	7.8	7.3	—[a]	7.3	—[a]	—[a]	—[a]	—[a]
TTLC (mg/kg) EPA Method 6010/7000								
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	4.3	6.3	2.0	6.6	5.6	6.2	ND	ND
Barium	160.0	170.0	100.0	180.0	180.0	160.0	ND	ND
Beryllium	ND	ND	ND	ND	0.52	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	27.0	35.0	18.0	38.0	36.0	28.0	ND	ND
Cobalt	8.7	9.5	5.4	10.0	9.1	9.2	ND	ND
Copper	13.0	14.0	11.0	12.0	14.0	14.0	ND	ND
Lead	ND	ND	4.0	ND	ND	ND	ND	ND
Mercury	0.17	0.08	0.1	0.05	0.14	ND	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	33.0	46.0	23.0	36.0	38.0	33.0	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	33.0	33.0	14.0	42.0	42.0	32.0	ND	ND
Zinc	30.0	33.0	26.0	32.0	37.0	32.0	ND	ND
STLC (mg/L) EPA Method								
Antimony	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Arsenic	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Barium	—[a]	—[a]	6.5	—[a]	—[a]	—[a]	—[a]	ND
Beryllium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Cadmium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Chromium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Cobalt	—[a]	—[a]	0.21	—[a]	—[a]	—[a]	—[a]	ND
Copper	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Lead	—[a]	—[a]	0.06	—[a]	—[a]	—[a]	—[a]	ND
Mercury	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Molybdenum	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Nickel	—[a]	—[a]	0.2	—[a]	—[a]	—[a]	—[a]	ND
Selenium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Silver	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Thallium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Vanadium	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Zinc	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
Method 8240, Organic Analysis	—[a]	—[a]	ND	—[a]	—[a]	—[a]	—[a]	ND
EPA Method 8010, Halogenated Volatile Organics	ND	ND	—[a]	ND	—[a]	—[a]	ND	—[a]
Method 8020, Aromatic Volatiles	ND	ND	—[a]	ND	—[a]	—[a]	ND	—[a]

[a] Not analyzed for constituent.

CLS = California Laboratory Services
FGL = FGL Environmental
ND = Not Detected
dpm = disintegrations per minute
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
EPA = Environmental Protection Agency

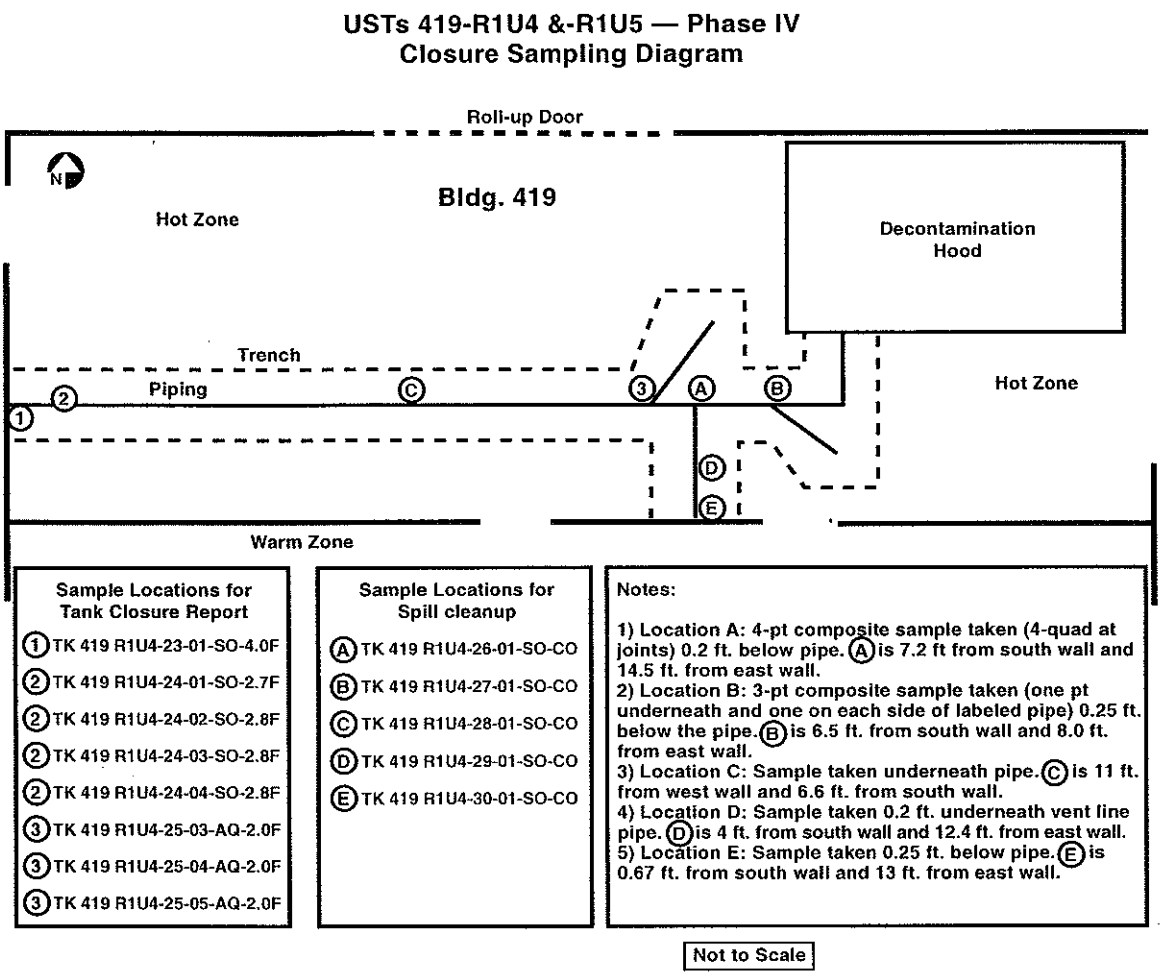

Figure C-6. UST 419-R1U4 & R1U5 Closure Project Sampling Locations, June 20 and 21, 1996

Table C-6. UST 419-R1U4 & R1U5 Closure Project, Sample Results, June 20 and 21, 1996 (Room 167 under floor piping)

Sample number	TK419-R1U4-26-01-SO-CO (A)	TK419-R1U4-27-01-SO-CO (B)	TK419-R1U4-28-01-SO-CO (C)	TK419-R1U4-29-01-SO-CO (D)	TK419-R1U4-30-01-SO-CO (E)	Method Blank
Lab #	**33214**	**33215**	**33216**	**33217**	**33218**	
Sampling Date	6/21/96	6/21/96	6/21/96	6/21/96	6/21/96	
Laboratory	CES	CES	CES	CES	CES	CES
pH	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
TTLC (mg/kg) EPA Method 6010/7000						
Antimony	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND
Barium	67.0	50.0	75.0	220.0	150.0	ND
Beryllium	1.4	11.0	4.4	0.55	0.35	ND
Cadmium	ND	ND	ND	ND	ND	ND
Chromium	38.0	34.0	37.0	41.0	39.0	ND
Cobalt	7.9	5.4	7.6	9.1	8.8	ND
Copper	18.0	19.0	18.0	17.0	17.0	ND
Lead	41.0	800	8.6	11.0	8.5	ND
Mercury		100.0	11.0	25.0	19.0	—(a)
Molybdenum	0.4	0.5	0.3	0.7	0.7	ND
Nickel	47.0	32.0	51.0	40.0	38.0	3.0
Potassium[b]	830.0	760.0	890.0	2700.0	2800.0	ND
Selenium	ND	ND	ND	ND	ND	ND
Silver	0.6	0.9	0.5	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND
Uranium[b]	ND	ND	ND	ND	ND	ND
Vanadium	23.0	17.0	23.0	36.0	35.0	ND
Zinc	28.0	46.0	39.0	32.0	46.0	9.0
STLC (mg/L)						
Antimony	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Arsenic	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Barium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Beryllium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Cadmium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Chromium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Cobalt	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Copper	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Lead	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Mercury	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Molybdenum	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Nickel	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Potassium[b]	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Selenium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Silver	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Thallium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Uranium[b]	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Vanadium	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Zinc	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)

Table C-6. UST 419-R1U4 & R1U5 Closure Project, Sample Results, June 20 and 21, 1996 (Room 167 under floor piping)(continued)

Sample number	TK419-R1U4-26-01-SO-CO (A)	TK419-R1U4-27-01-SO-CO (B)	TK419-R1U4-28-01-SO-CO (C)	TK419-R1U4-29-01-SO-CO (D)	TK419-R1U4-30-01-SO-CO (E)	Method Blank
Lab #	33214	33215	33216	33217	33218	
EPA Method 8010/8020/5030 - Halogenated Volatile Organics	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
EPA Method 601/602/5030 Volatile Aromat ics and Halocarbons	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Method 8020, Aromatic Volatiles	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Rad Screening (dpm/gm)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Gross alpha (μCi/gm)	4.67×10^{-5}	3.70×10^{-6}	2.93×10^{-6}	4.97×10^{-6}	1.69×10^{-6}	6.45×10^{-6}
Gross beta (μCi/gm)	5.97×10^{-6}	3.34×10^{-6}	4.75×10^{-7}	6.45×10^{-6}	4.73×10^{-6}	4.57×10^{-7}
Tritium (μCi/gm)	2.80×10^{-3}	9.58×10^{-4}	2.87×10^{-3}	1.51×10^{-2}	5.92×10^{-3}	1.71×10^{-8}
Gamma Spectro-metric Measurement	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
TPH Diesel (mg/kg)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)

Table C-6. UST 419-R1U4 & R1U5 Closure Project, Sample Results, June 20 and 21, 1996 (Room 167 under floor piping) (continued)

Sample #	TK419-R1U4-23-01-SO-4.0F	TK419-R1U4-24-01-SO-2.7F	TK419-R1U4-24-02-SO-2.8F	TK419-R1U4-24-03-SO-2.8F	TK419-R1U4-24-04-SO-2.8F	TK419-R1U4-25-03-AQ-2.0F	TK419-R1U4-25-04-AQ-2.0F	TK419-R1U4-25-05-AQ-2.0F	Method Blank
Lab #	**33252**	**33253**	**33254**	**33255**	**33256**	**33257**	**33258**	**33259**	
Sampling Date	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	6/20/96	
Laboratory	CES	CES	CES	CES	CES	CES	CES	CES	
pH	10.2							10.0	—(a)
TTLC (mg/kg) EPA Method 6010/7000									
Antimony	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Arsenic	2.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Barium	180.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	66.0	—(a)
Beryllium	0.29	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	2.4	—(a)
Cadmium	0.1	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Chromium	44.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	9.3	—(a)
Cobalt	5.8	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	1.0	—(a)
Copper	22.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	3.6	—(a)
Lead	150.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	9.0	—(a)
Mercury	1.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	23.0	—(a)
Molybdenum	0.7	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Nickel	24.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	6.0	—(a)
Potassium[b]	2800.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	830.0	—(a)
Selenium	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Silver	0.3	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Thallium	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Uranium[b]	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Vanadium	34.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	4.0	—(a)
Zinc	52.0	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	52.0	—(a)
STLC (mg/L)									
Antimony	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Arsenic	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Barium	7.1	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.52	—(a)
Beryllium	0.01	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.46	—(a)
Cadmium	0.03	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.05	—(a)
Chromium	0.39	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.73	—(a)
Cobalt	0.09	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.12	—(a)
Copper	0.41	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.33	—(a)
Lead	8.7	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	1.0	—(a)
Mercury	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	1.7	—(a)
Molybdenum	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.05	—(a)
Nickel	0.08	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.45	—(a)
Potassium[b]	9.3	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	24.0	—(a)
Selenium	0.2	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.2	—(a)
Silver	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Thallium	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	ND	—(a)
Uranium[b]	ND	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.6	—(a)
Vanadium	0.1	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	0.08	—(a)
Zinc	0.65	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	2.3	—(a)

Table C-6. UST 419-R1U4 & R1U5 Closure Project, Sample Results, June 20 and 21, 1996 (Room 167 under floor piping) (concluded)

Sample #	TK419-R1U4-23-01-SO-4.0F	TK419-R1U4-24-01-SO-2.7F	TK419-R1U4-24-02-SO-2.8F	TK419-R1U4-24-03-SO-2.8F	TK419-R1U4-24-04-SO-2.8F	TK419-R1U4-25-03-AQ-2.0F	TK419-R1U4-25-04-AQ-2.0F	TK419-R1U4-25-05-AQ-2.0F	Method Blank
Lab #	**33252**	**33253**	**33254**	**33255**	**33256**	**33257**	**33258**	**33259**	
EPA Method 8010/8020/5030 - Halogenated Volatile Organics	—(a)	—(a)	ND	—(a)	—(a)	—(a)	—(a)	—(a)	ND
EPA Method 601/602/5030 Volatile Aromatics and Halocarbons	—(a)	—(a)	—(a)	—(a)	—(a)	Benzene - 10 μg/l, Xylene (total) - 6 μg/L	—(a)	—(a)	ND
Method 8020, Aromatic Volatiles	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)
Rad Screening (dpm/gm)	<3000	4200	7900	<3000	6400	50,000 (CES)	50,000	44,000	—(a)
Gross alpha (μCi/gm)	—(a)	1.64×10^{-6}	—(a)	—(a)	—(a)	—(a)	—(a)	1.24×10^{-5}	—(a)
Gross beta (μCi/gm)	—(a)	2.49×10^{-6}	—(a)	—(a)	—(a)	—(a)	—(a)	4.12×10^{-6}	—(a)
Tritium (μCi/gm)	—(a)	3.81×10^{-3}	—(a)	—(a)	—(a)	—(a)	—(a)	2.34×10^{-2}	0.00
Gamma Spectrometric Measurement	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	—(a)	Cs137- 1.17×10^{-6} Ra 226 - 1.65×10^{-7} Th 228 - 2.23×10^{-7} Am 241 - 2.10×10^{-6}	—(a)
TPH Diesel (mg/kg)	—(a)	—(a)	—(a)	—(a)	—(a)	ND (FGL)	—(a)	ND (FGL)	ND

a Not analyzed for constituent.

b The concentration determined for this element is in support of the Department of Energy performance objective for identification and management of mixed waste. These data are relevant only for a sample that has been shown to be radioactive.

CES = Chemistry and Material Science Environmental Services
dpm = disintegrations per minute
ND = Not Detected
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration
EPA = Environmental Protection Agency

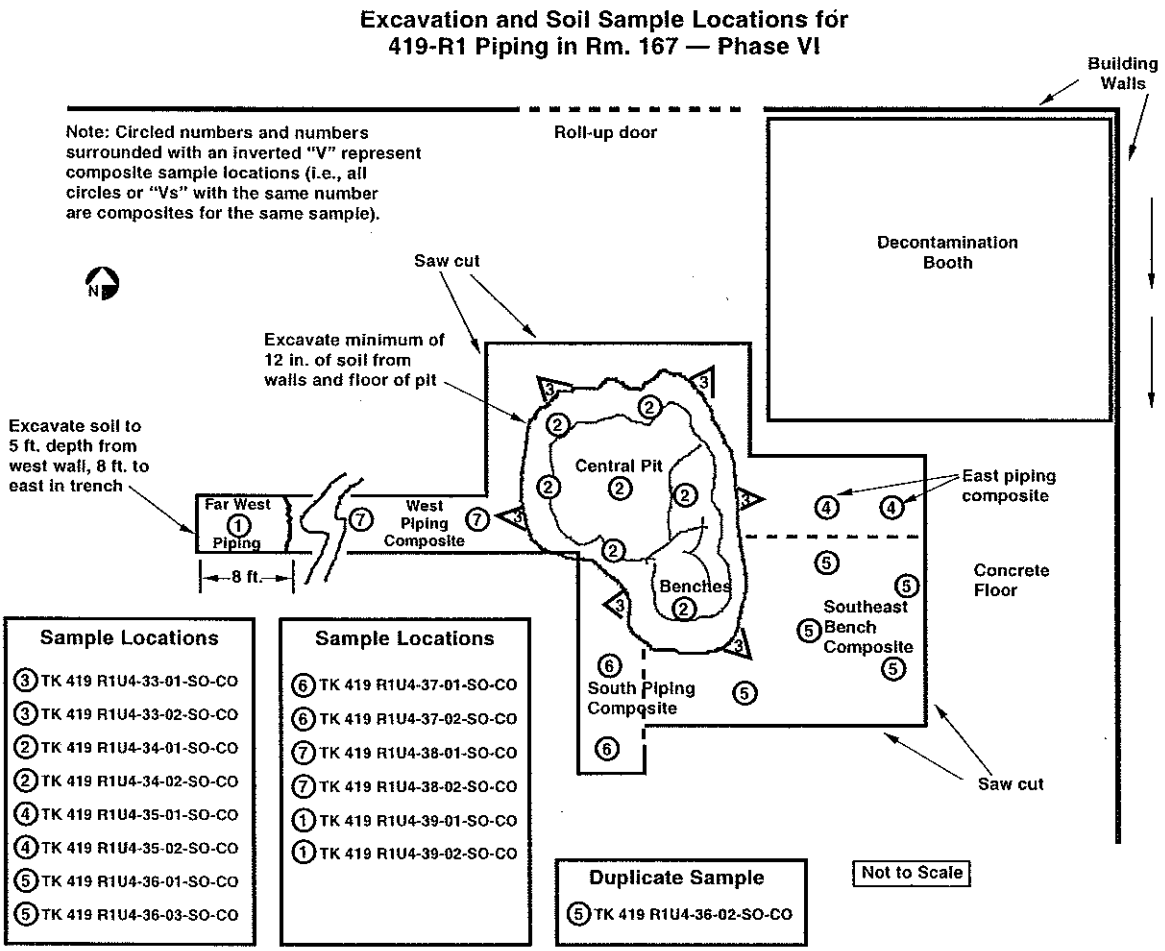

Figure C-7. UST 419-R1U4 & R1U5 Closure Project Sketch showing excavation and sampling locations, 419-R1 Piping in Room 167

Table C-7. UST 419-R1U4 & R1U5 Closure Project, Sample Results, July 30, 1996 (Room 167 under floor piping)

Sample number	TK419 R1U4-37-02-SO-CO	TK419 R1U4-36-01-SO-CO	TK419 R1U4-38-01-SO-CO	TK419 R1U4-39-02-SO-CO	TK419 R1U4-33-01-SO-CO	TK419 R1U4-35-01-SO-CO	TK419 R1U4-36-02-SO-CO	TK419 R1U4-34-01-SO-CO	Method blank
Laboratory	**FGL**	**FGL**	**FGL**	**FGL**	**FGL**	**FGL**	**FGL**	**FGL**	**FGL**
TTLC (mg/kg) EPA Method 6010/7000									
Antimony	ND	ND	1.0	ND	ND	ND	ND	ND	ND
Arsenic	2.0	2.0	3.0	2.0	2.0	2.0	2.0	2.0	ND
Barium	130.0	130.0	140.0	140.0	120.0	150.0	120.0	120.0	ND
Beryllium	ND	1.1	ND	ND	2.4	9.6	2.2	1.4	ND
Cadmium	ND	ND	ND	ND	1.0	1.8	0.8	ND	ND
Chromium	19.0	20.0	21.0	15.0	19.0	30.0	31.0	15.0	ND
Cobalt	7.0	8.0	7.0	8.0	6.0	4.0	7.0	7.0	ND
Copper	13.0	14.0	17.0	12.0	12.0	16.0	18.0	13.0	ND
Lead	10.0	15.0	6.0	9.0	35.0	210.0	26.0	14.0	ND
Mercury	0.43	0.31	0.09	0.3	19.0	11.0	2.5	3.0	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	21.0	23.0	22.0	20.0	19.0	23.0	23.0	21.0	ND
Selenium	ND	ND	ND	ND	ND	1.0	ND	1.0	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	19.0	18.0	20.0	19.0	15.0	16.0	19.0	16.0	ND
Zinc	29.0	31.0	27.0	32.0	39.0	120.0	41.0	26.0	ND

EPA = Environmental Protection Agency
FGL = FGL Environmental
ND = Not Detected
TTLC = Total Threshold Limit Concentration

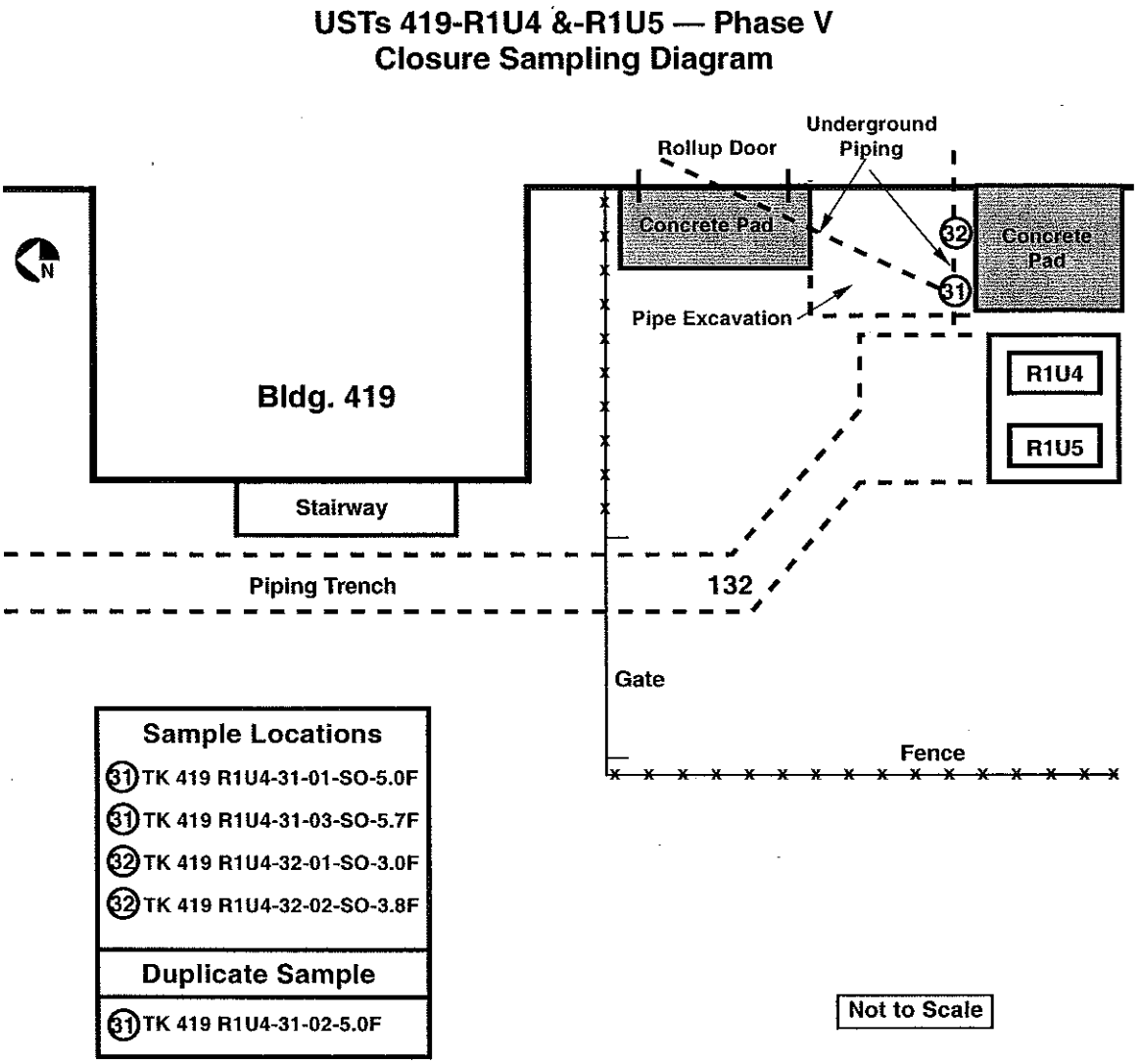

Figure C-8. UST 419-R1U4 & R1U5 Closure Project Sampling Locations, July 22, 1996

Table C-8. UST 419-R1U4 & R1U5 Closure Project, Sample Results, July 22, 1996 (underground piping—outside Room 124)

Sample number	TK419-R1U4-31-01-SO-5.0F	TK419-R1U4-31-02-SO-5.0F	TK419-R1U4-31-03-SO-5.7F	TK419-R1U4-32-01-SO-3.0F	TK419-R1U4-32-02-SO-3.8F
Lab #	**33754**	**33755**	**33756**	**33757**	**33758**
Sampling Date	7/22/96	7/22/96	7/22/96	7/22/96	7/22/96
pH	8.5	8.7		7.5	
TTLC (mg/kg)					
Antimony	—[a]	—[a]	ND	—[a]	ND
Arsenic	—[a]	—[a]	5.0	—[a]	5.0
Barium	—[a]	—[a]	180.0	—[a]	180.0
Beryllium	—[a]	—[a]	0.2	—[a]	0.2
Cadmium	—[a]	—[a]	ND	—[a]	ND
Chromium	—[a]	—[a]	100.0	—[a]	88.0
Cobalt	—[a]	—[a]	7.9	—[a]	8.3
Copper	—[a]	—[a]	21.0	—[a]	23.0
Lead	—[a]	—[a]	8.0	—[a]	8.0
Mercury	—[a]	—[a]	ND	—[a]	ND
Molybdenum	—[a]	—[a]	3.0	—[a]	3.0
Nickel	—[a]	—[a]	68.0	—[a]	67.0
Potassium[b]	—[a]	—[a]	2700.0	—[a]	2000.0
Selenium	—[a]	—[a]	ND	—[a]	ND
Silver	—[a]	—[a]	ND	—[a]	ND
Thallium	—[a]	—[a]	ND	—[a]	ND
Uranium[b]	—[a]	—[a]	ND	—[a]	ND
Vanadium	—[a]	—[a]	38.0	—[a]	38.0
Zinc	—[a]	—[a]	68.0	—[a]	68.0
STLC (mg/L)					
Antimony	—[a]	—[a]	ND	—[a]	ND
Arsenic	—[a]	—[a]	ND	—[a]	ND
Barium	—[a]	—[a]	6.3	—[a]	7.7
Beryllium	—[a]	—[a]	ND	—[a]	ND
Cadmium	—[a]	—[a]	ND	—[a]	ND
Chromium	—[a]	—[a]	0.08	—[a]	0.06
Cobalt	—[a]	—[a]	0.23	—[a]	0.26
Copper	—[a]	—[a]	0.08	—[a]	0.08
Lead	—[a]	—[a]	0.07	—[a]	0.09
Mercury	—[a]	—[a]	ND	—[a]	ND
Molybdenum	—[a]	—[a]	ND	—[a]	ND
Nickel	—[a]	—[a]	0.3	—[a]	0.4
Potassium[b]	—[a]	—[a]	14.0	—[a]	11.0
Selenium	—[a]	—[a]	0.1	—[a]	ND
Silver	—[a]	—[a]	ND	—[a]	ND
Thallium	—[a]	—[a]	ND	—[a]	ND
Uranium[b]	—[a]	—[a]	ND	—[a]	ND
Vanadium	—[a]	—[a]	0.1	—[a]	0.1
Zinc	—[a]	—[a]	0.07	—[a]	0.05

Table C-8. UST 419-R1U4 & R1U5 Closure Project, Sample Results, July 22, 1996 (underground piping—outside Room 124) (concluded)

Sample number	TK419-R1U4-31-01-SO-5.0F	TK419-R1U4-31-02-SO-5.0F	TK419-R1U4-31-03-SO-5.7F	TK419-R1U4-32-01-SO-3.0F	TK419-R1U4-32-02-SO-3.8F
Lab #	**33754**	**33755**	**33756**	**33757**	**33758**
Rad Screening (dpm/gm)	<3000	<3000	—[a]	<3000	—[a]
Gross alpha (μCi/gm)	5.11×10^{-7}	1.24×10^{-6}	—[a]	2.70×10^{-6}	—[a]
Gross beta (μCi/gm)	2.85×10^{-6}	1.75×10^{-6}	—[a]	1.29×10^{-6}	—[a]
Tritium (μCi/gm)	0.00	9.78×10^{-7}	—[a]	1.66×10^{-6}	—[a]
Gamma Spectrometric Measurement	K40 - 8.78×10^{-6} Ra226 - 3.88×10^{-7} Ra228 - 3.82×10^{-7} Th228 - 4.21×10^{-7}	K40 - 7.74×10^{-6} Ra226 - 3.68×10^{-7} Ra228 - 3.68×10^{-7} Th228 - 4.31×10^{-7}	—[a]	K40 - 8.79×10^{-6} Ra226 - 3.28×10^{-7} Ra228 - 3.90×10^{-7} Th228 - 4.28×10^{-7}	—[a]
EPA 8015M TPH	—[a]	—[a]	ND	—[a]	ND
EPA Method 8010/8020/5030 - Halogenated Volatile Organics	—[a]	—[a]	ND	—[a]	ND

a Not analyzed for constituent

b The concentration determined for this element is in support of the Department of Energy performance objective for identification and management of mixed waste. These data are relevant only for a sample that has been shown to be radioactive.

ND = Not Detected

EPA = Environmental Protection Agency

dpm = disintegrations per minute

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

Table C-9. UST 419-R1U4 & R1U5 Closure Project, Swipe Sample Results for Tanks

Sample number	TRW-1-419-R1U4-Side 1-Inside (S6)	TRW-1-419-R1U4-Side 2-Inside (S7)	TRW-1-419-R1U4-Top-Inside (S8)	TRW-1419-R1U4-Bottom-Inside (S5)	TRW-1-419-R1U4-Side 1-Outside (S2)	TRW-1-419-R1U4-Side 2-Outside (S3)	TRW-1-419-R1U4-Top-Outside (S4)	TRW-1-419-R1U4-Bottom-Outside (S1)
Sample date	**6/20/95**	**6/20/95**	**6/20/95**	**6/20/95**	**9/21/95**	**9/21/95**	**9/21/95**	**9/21/95**
EPA 8021 Volatile Aromatics & Hydrocarbons Ug/swipe	ND	ND	ND	ND	ND	ND	ND	ND
TTLC (mg/kg)								
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.001	0.002	0.01	0.006	ND	ND	0.003	ND
Beryllium	ND	0.001	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.001	0.001	0.001	0.003	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND
Copper	0.005	0.007	0.001	0.031	ND	ND	0.001	0.001
Lead	ND	ND	ND	0.008	ND	ND	ND	ND
Mercury	0.0008	0.0007	ND	0.0023	ND	ND	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	0.003	ND	ND	ND	ND
Potassium[a]	0.1	0.05	0.1	0.1	0.1	0.05	0.1	0.1
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Uranium[a]	ND	0.04	ND	0.04	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	0.007	0.008	0.005	0.024	0.002	0.002	0.006	0.002
Alpha - Total fixed and removable/cpm	25	25	Background	60	Background	Background	Background	Background
Beta - Total fixed and removable/cpm	200	200	Background	500	Background	Background	Background	Background

Table C-9. UST 419-R1U4 & R1U5 Closure Project, Swipe Sample Results for Tanks (concluded)

Sample number	TRW-2-419-R1U5-Side 1-Inside (S6)	TRW-2-419-R1U5-Side 2-Inside (S7)	TRW-2-419-R1U5-Top-Inside (S8)	TRW-2-419-R1U5-Bottom-Inside (S5)	TRW-2-419-R1U5-Side 1-Outside (S2)	TRW-2-419-R1U5-Side 2-Outside (S3)	TRW-2-419-R1U4-Top-Outside (S4)	TRW-2-419-R1U5-Bottom-Outside (S1)
Sample date	**9/20/95**	**9/20/95**	**9/20/95**	**9/20/95**	**9/21/95**	**9/21/95**	**9/21/95**	**9/21/95**
EPA 8021 Volatile Aromatics & Hydrocarbons μg/swipe	ND	ND	ND	ND	ND	ND	ND	ND
TTLC (mg/kg)								
Antimony	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.014	0.009	ND	0.014	ND	0.001	0.001	ND
Beryllium	ND	0.001	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	0.004	0.003	ND	0.005	ND	ND	ND	ND
Cobalt	ND	ND	ND	0.001	ND	ND	ND	ND
Copper	0.01	0.007	ND	0.015	0.001	ND	0.001	ND
Lead	0.01	0.008	0.003	0.01	ND	ND	ND	ND
Mercury	0.0017	0.0016	ND	0.0035	ND	ND	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	0.005	0.003	ND	0.004	ND	ND	ND	ND
Potassium[a]	0.2	0.08	ND	0.2	0.05	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND
Silver	0.002	0.002	ND	ND	ND	ND	ND	ND
Thallium	ND	ND	ND	ND	ND	ND	ND	ND
Uranium[a]	0.1	0.2	ND	0.09	ND	ND	ND	ND
Vanadium	ND	ND	ND		ND	ND	ND	ND
Zinc	0.054	0.041	ND	0.12	0.002	0.002	0.002	ND
Alpha - Total fixed and removable/cpm	50	50	Background	150	Background	Background	Background	Background
Beta - Total fixed and removable/cpm	500	300	Background	1000	Background	Background	Background	Background

a The concentration determined for this element is in support of the Department of Energy performance objective for identification and management of mixed waste. These data are relevant only for a sample that has been shown to be radioactive.

cpm = counts per minute
EPA = Environmental Protection Agency
ND = Not Detected
STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration

Table C-10. Analytical Data for Soil Piles and Rubble Piles Excavated during B-419 Closure Activities

Sample number	TS419-R1U4-02-SO-RP123	TK419-R1U4-02-SO-SP124	TK419-R1U4-02-SO-SP130	TK419-R1U4-02-SO-SP131	TK419-R1U4-02-SO-SP132	TS419-R1U4-02-SO-SOCO (SP133/134)	TS419-R1U4-01-SO-SOCO (SP151/152)	TS419-R1U4-01-SO-RP153
Sample date	**1/30/97**	**1/4/96**	**1/4/96**	**1/4/96**	**1/4/96**	**9/17/97**	**1/30/97**	**1/30/97**
pH		8.8	8.4	8.0	8.5	—[a]	8.1	—[a]
Flash Point 1010		>140 °F	>140 °F	>140 °F	>140 °F	—[a]	>140 °F	—[a]
Sulfide 9030		ND	ND	ND	ND	—[a]	ND	—[a]
Total Cyanide 9010	—[a]	ND	ND	ND	ND	—[a]	ND	—[a]
TTLC (mg/kg)								
Aluminum	—[a]		—[a]	—[a]	—[a]	—[a]	11800.0	—[a]
Antimony	—[a]	ND	ND	ND	ND	ND	<10.0	—[a]
Arsenic	—[a]	1.6	1.4	1.6	1.4	4.2	6.3	—[a]
Barium	—[a]	120.0	59.0	180.0	140.0	150.0	93.9	—[a]
Beryllium	—[a]	ND	ND	ND	ND	ND	<1.0	—[a]
Boron	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	<40.0	—[a]
Cadmium	—[a]	ND	ND	ND	ND	ND	<1.0	—[a]
Chromium	—[a]	30.0	23.0	ND	44.0	27.0	44.7	—[a]
Cobalt	—[a]	7.6	ND	14.0	7.3	7.8	12.8	—[a]
Copper	—[a]	11.0	11.0	ND	13.0	19.0	14.6	—[a]
Iron	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	21400.0	—[a]
Manganese	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	392.0	—[a]
Lead	—[a]	17.0	ND	94.0	13.0	ND	20.4	—[a]
Mercury	—[a]	4.7	0.15	0.65	0.40	0.070	0.500	—[a]
Molybdenum	—[a]	ND	ND	ND	ND	ND	<40.0	—[a]
Nickel	—[a]	37.0	33.0	ND	46.0	35.0	64.8	—[a]
Potassium[b]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]
Silver	—[a]	ND	ND	ND	ND	ND	<2.0	—[a]
Thallium	—[a]	ND	ND	ND	ND	ND	<2.0	—[a]
Uranium[b]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]
Vanadium	—[a]	24.0	16.0	ND	26.0	21.0	36.6	—[a]
Zinc	—[a]	47.0	24.0	ND	39.0	37.0	63.7	—[a]
STLC (mg/L)								
Antimony	—[a]	ND	ND	ND	ND	ND	<0.6	—[a]
Arsenic	—[a]	ND	ND	ND	ND	0.059	1.17	—[a]
Barium	—[a]	9.1	5.0	4.3	7.1	9.6	7.73	—[a]
Beryllium	—[a]	ND	ND	ND	ND	ND	<0.05	—[a]
Boron	—[a]	—[a]	—[a]	—[a]	—[a]	ND	<2.0	—[a]
Cadmium	—[a]	ND	ND	ND	ND	ND	<0.05	—[a]
Chromium	—[a]	ND	ND	ND	ND	ND	0.146	—[a]
Cobalt	—[a]	ND	ND	ND	ND	ND	<0.5	—[a]
Copper	—[a]	ND	ND	ND	ND	ND	<0.25	—[a]
Iron	—[a]	—[a]	—[a]	—[a]	—[a]	53.0	67.0	—[a]
Lead	—[a]	0.96	ND	ND	ND	ND	0.598	—[a]
Manganese	—[a]	—[a]	—[a]	—[a]	—[a]	27.0	15.8	—[a]
Mercury	—[a]	0.079	ND	ND	ND	ND	0.0119	—[a]
Molybdenum	—[a]	ND	ND	ND	ND	ND	<2.0	—[a]

Table C-10. Analytical Data for Soil Piles and Rubble Piles Excavated during B-419 Closure Activities (concluded)

Sample number	TS419-R1U4-02-SO-RP123	TK419-R1U4-02-SO-SP124	TK419-R1U4-02-SO-SP130	TK419-R1U4-02-SO-SP131	TK419-R1U4-02-SO-SP132	TS419-R1U4-02-SO-SOCO (SP133/134)	TS419-R1U4-01-SO-SOCO (SP151/152)	TS419-R1U4-01-SO-RP153
Nickel	—[a]	ND	ND	ND	ND	0.68	0.611	—[a]
Potassium[b]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]
Selenium	—[a]	ND	ND	ND	ND	ND	<0.05	—[a]
Silver	—[a]	ND	ND	ND	ND	ND	<0.1	—[a]
Thallium	—[a]	ND	ND	ND	ND	ND	<0.1	—[a]
Uranium[b]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]	—[a]
Vanadium	—[a]	ND	ND	ND	ND	ND	<0.5	—[a]
Zinc	—[a]	2.5	2.0	1.5	1.1	0.97	2.34	—[a]
EPA Method 8010 - Halogenated Volatile Organics	—[a]	ND	ND	ND	ND	—[a]	Methylene Chloride detected at 0.35 μg/kg	—[a]
EPA Method 8020 - Volatile Aromatics (mg/kg)	—[a]	Toluene detected at 0.032 mg/kg	Toluene detected at 0.0015 mg/kg	Toluene detected at 0.053 mg/kg	Toluene detected at 0.017 mg/kg	—[a]	ND	—[a]

Sample number	TS419-R1U4-02-SO-RP123	TK419-R1U4-02-SO-SP124	TK419-R1U4-02-SO-SP130	TK419-R1U4-02-SO-SP131	TK419-R1U4-02-SO-SP132	TS419-R1U4-02-SO-SOCO (SP133 & 134)	TS419-R1U4-01-SO-SOCO (SP151 & 152)	TS419-R1U4-01-SO-RP153
Sampling Date	**1/30/97**	**7/14/95**	**10/23/95**	**10/23/95**	**10/23/95**	**9/17/97**	**1/30/97**	**1/30/97**
Gross alpha (μCi/gm)	1.50×10^{-6}	5.65×10^{-6}	ND	ND	ND	—[a]	1.60×10^{-6}	-5.40×10^{-7}
Gross beta (μCi/gm)	1.40×10^{-7}	5.04×10^{-6}	ND	ND	ND	—[a]	-8.70×10^{-7}	2.90×10^{-6}
Tritium μCi/gm	1.86×10^{-3}	0.503 PCML	ND	ND	ND	—[a]	2.04×10^{-3}	4.07×10^{1}
Gamma Spectrometric Measurement (μCi/gm)	—[a]	Actinium-228 - 0.591, Lead-212 - 0.433, Potassium-40 - 11.8	K40 - 7.8×10^{-6}, Ra226 - 2.7×10^{-7}, Ra228 - 3.8×10^{-7}, Th228 - 3.6×10^{-7}	K40 - 5.3×10^{-6}, Ra226 - 2.4×10^{-7}, Ra228 - 2.3×10^{-7}, Th228 - 2.7×10^{-7}	K40 - 6.0×10^{-6}, Ra226 - 3.5×10^{-7}, Ra228 - 3.8×10^{-7}, Th228 - 4.3×10^{-7}	—[a]	—[a]	—[a]

[a] Analysis was not performed.

[b] The concentration determined for this element is in support of the Department of Energy performance objective for identification and management of mixed waste. These data are relevant only for a sample that has been shown to be radioactive.

cpm = counts per minute

EPA = Environmental Protection Agency

ND = Not Detected

TTLC = Total Threshold Limit Concentration