

## **TABLES**

**TABLE 1**

**SURFACE ACTIVITY LEVELS**

**SALMON RIVER URAINUM DEVELOPMENT, INC. PROCESSING MILL**

**NORTH FORK, IDAHO**

Location <sup>a</sup>	Surface	Surface Material	Beta Total Activity (dpm/100 cm <sup>2</sup> )	Removable Activity (dpm/100 cm <sup>2</sup> )	
				Gross Alpha	Gross Beta
Building 1					
1	LW	Wood	-32	0	4
2	F	Concrete	190	0	-1
3	F	Concrete	120	0	-1
4	LW	Wood	270	0	1
5	F	Concrete	-28	1	3
6	F	Concrete	780	0	-3
7	F	Concrete	620	3	1
8	E	Metal	480	0	-1
9	LW	Concrete	640	0	-4
10	F	Concrete	550	1	4
11	F	Concrete	470	1	1
12	F	Concrete	-160	1	2
13	F	Concrete	430	0	-1
14	F	Concrete	500	1	1
15	LW	Wood	32	0	4
16	F	Concrete	150	0	-1
17	F	Concrete	310	0	3
18	E	Metal	890	0	-2
19	F	Concrete	340	0	-1
20	LW	Concrete	850	3	7
21	F	Concrete	800	1	-1
22	E	Metal	1,500	0	2
23	E	Metal	770	0	-2
24	E	Metal	370	0	-1
25	F	Concrete	630	1	-5
26	LW	Concrete	570	0	3
27	LW	Wood	120	0	2
28	F	Concrete	180	0	-3
29	F	Concrete	660	0	3
30	F	Concrete	-160	1	1
31	F	Concrete	18,000	5	8
32	F	Concrete	14,000	0	-3
33	F	Concrete	4,800	3	1

TABLE 1 (Continued)

**SURFACE ACTIVITY LEVELS  
SALMON RIVER URAINUM DEVELOPMENT, INC. PROCESSING MILL  
NORTH FORK, IDAHO**

Location <sup>a</sup>	Surface	Surface Material	Beta Total Activity (dpm/100 cm <sup>2</sup> )	Removable Activity (dpm/100 cm <sup>2</sup> )	
				Gross Alpha	Gross Beta
34	F	Concrete	550	0	1
35	F	Concrete	680	1	-1
36	E	Metal	34,000 <sup>b</sup>	---	---
37	LW	Wood	13,000	9	4
38	F	Concrete	2,100	5	10
39	F	Concrete	760	0	-1
40	LW	Wood	130	0	-2
52	E	Metal	780	1	6
53	F	Concrete	510	0	3
54	F	Concrete	660	1	-1
<b>Building 2</b>					
46	F	Concrete	11,000	1	-1
47	F	Concrete	2,200	1	1
48	F	Concrete	320	0	-4
49	LW	Wood	44	3	-1
50	F	Concrete	180	0	-3
51	F	Concrete	44	1	-3
<b>Building 3</b>					
41	F	Concrete	27,000	7	6
42	LW	Wood	820	1	1
43	F	Concrete	18,000	18	4
44	F	Concrete	8,600	11	3
45	F	Concrete	14,000	9	6

<sup>a</sup>Refer to Figures 7 through 9.

<sup>b</sup>Unshielded measurement only.

<sup>c</sup>---No smear sample collected.

TABLE 2

**RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES  
SALMON RIVER URANIUM DEVELOPMENT, INC. PROCESSING MILL  
NORTH FORK, IDAHO**

Sample ID <sup>a</sup>	Exposure Rate (μR/h)	Radionuclide Concentration (pCi/g) <sup>b</sup>				
		Th-228	Th-232	U-235	U-238	Ra-226
Exterior Locations of Elevated Direct Radiation						
1	69	560 ± 41 <sup>c</sup>	563 ± 46	-3.3 ± 4.3	5 ± 12	15.3 ± 2.6
2	86	80.6 ± 5.9	77.7 ± 7.0	-2.1 ± 1.9	5.5 ± 7.2	1.27 ± 0.74
3	110	296 ± 21	305 ± 25	-2.9 ± 3.2	13 ± 14	5.4 ± 1.5
4	270	563 ± 41	535 ± 44	4.1 ± 5.5	110 ± 31	88.3 ± 6.8
5	130	464 ± 33	475 ± 39	-5.6 ± 4.8	23 ± 17	2.4 ± 1.7
6	74	74.3 ± 5.3	75.8 ± 6.5	-1.4 ± 1.5	2.2 ± 6.1	1.46 ± 0.65
7	47	65.1 ± 4.9	61.0 ± 5.5	0.8 ± 1.6	1.71 ± 6.45	2.34 ± 0.98
8	37	73.0 ± 5.2	71.9 ± 6.2	-0.9 ± 1.6	1.9 ± 6.1	1.63 ± 0.64
9	74	103.0 ± 7.4	98.6 ± 8.8	-0.3 ± 2.2	6.1 ± 8.4	1.69 ± 0.96
10	22	131.4 ± 9.7	126 ± 11	-0.3 ± 2.4	8 ± 11	7.4 ± 1.2
11	63	1,030 ± 73	1,018 ± 84	-16.1 ± 6.8	31 ± 30	4.1 ± 2.8
12	35	101.5 ± 7.1	110.0 ± 9.3	0.4 ± 1.9	5.2 ± 7.6	3.12 ± 0.96
13	49	66.4 ± 5.0	59.8 ± 5.6	-1.1 ± 1.8	5.7 ± 7.5	2.97 ± 0.96
14	380	573 ± 41	578 ± 48	-8.0 ± 5.0	11 ± 18	6.3 ± 2.0
15	130	24.8 ± 1.9	24.5 ± 2.4	0.79 ± 0.96	2.4 ± 3.7	1.45 ± 0.45
16	32	377 ± 27	346 ± 29	-2.6 ± 3.8	28 ± 21	4.3 ± 1.8
17	350	871 ± 61	871 ± 71	-9.0 ± 6.5	25 ± 20	3.7 ± 2.0
18	84	76.9 ± 5.4	90.3 ± 7.7	-0.7 ± 1.7	-2.5 ± 4.4	1.28 ± 0.74
19	160	3.18 ± 0.98	6.2 ± 3.7	12.3 ± 4.9	23 ± 15	452 ± 30
20	33	193 ± 14	193 ± 16	-2.6 ± 2.9	23 ± 14	12.9 ± 1.7
21	27	150 ± 11	162 ± 14	-1.7 ± 2.4	0.5 ± 9.2	1.30 ± 0.97
23	130	253 ± 18	242 ± 20	-2.4 ± 3.2	3 ± 13	2.0 ± 1.2

TABLE 2 (Continued)

**RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES  
SALMON RIVER URANIUM DEVELOPMENT, INC. PROCESSING MILL  
NORTH FORK, IDAHO**

Sample ID <sup>a</sup>	Exposure Rate (μR/h)	Radionuclide Concentration (pCi/g) <sup>b</sup>				
		Th-228	Th-232	U-235	U-238	Ra-226
Exterior Locations of Elevated Direct Radiation (Continued)						
41	1,000	901 ± 62	1,010 ± 82	-4.7 ± 6.5	-6 ± 21	4.5 ± 2.3
42	94	431 ± 31	460 ± 38	1.5 ± 4.2	6 ± 14	6.5 ± 2.1
43	420	228 ± 16	205 ± 17	-2.0 ± 3.1	7 ± 11	1.3 ± 1.0
Dry Tailings Pond						
24	55	24.3 ± 2.0	24.4 ± 2.8	-0.5 ± 1.2	0.0 ± 4.5	1.68 ± 0.79
25	36	24.8 ± 1.9	24.1 ± 2.5	-1.2 ± 1.0	0.7 ± 4.2	1.21 ± 0.57
26	28	3.46 ± 0.40	3.35 ± 0.62	-0.18 ± 0.51	0.0 ± 1.8	1.76 ± 0.35
27	22	22.0 ± 1.8	22.7 ± 2.6	0.6 ± 1.0	1.4 ± 4.3	2.32 ± 0.70
28	35	66.4 ± 4.8	67.0 ± 5.9	-0.6 ± 1.5	-0.2 ± 6.1	2.76 ± 0.95
Exterior Systematic						
29	26	6.31 ± 0.59	6.16 ± 0.89	0.03 ± 0.59	1.0 ± 2.3	1.31 ± 0.32
30	19	3.36 ± 0.42	3.85 ± 0.85	0.02 ± 0.47	0.9 ± 1.9	1.10 ± 0.33
31	30	9.47 ± 0.77	9.8 ± 1.2	0.19 ± 0.59	0.2 ± 2.4	1.19 ± 0.35
32	43	24.0 ± 1.9	23.3 ± 2.4	-0.1 ± 1.1	3.6 ± 4.4	2.00 ± 0.70
33	20	5.19 ± 0.53	5.34 ± 0.95	0.24 ± 0.55	1.5 ± 2.2	1.15 ± 0.34
34	23	2.23 ± 0.32	2.42 ± 0.63	0.46 ± 0.40	0.5 ± 1.7	1.01 ± 0.31
35	22	3.43 ± 0.38	3.74 ± 0.67	0.42 ± 0.49	1.9 ± 1.9	0.65 ± 0.38
Building 1 Interior						
44	46	4.30 ± 0.43	4.62 ± 0.77	0.02 ± 0.49	-0.1 ± 1.7	0.83 ± 0.29
45	44	30.5 ± 2.4	33.4 ± 3.4	-0.8 ± 1.3	4.6 ± 4.9	1.24 ± 0.66
46	21	7.11 ± 0.67	6.91 ± 0.97	0.11 ± 0.62	0.9 ± 2.4	0.89 ± 0.41
47	30	35.8 ± 2.7	39.9 ± 3.7	-0.1 ± 1.3	2.7 ± 3.9	2.44 ± 0.78

TABLE 2 (Continued)

**RADIONUCLIDE CONCENTRATIONS IN SOIL SAMPLES  
SALMON RIVER URANIUM DEVELOPMENT, INC. PROCESSING MILL  
NORTH FORK, IDAHO**

Sample ID <sup>a</sup>	Exposure Rate (μR/h)	Radionuclide Concentration (pCi/g) <sup>b</sup>				
		Th-228	Th-232	U-235	U-238	Ra-226
Backgrounds						
36	15	1.49 ± 0.23	1.29 ± 0.49	0.04 ± 0.38	1.0 ± 2.0	1.13 ± 0.28
37	18	1.40 ± 0.25	1.49 ± 0.51	0.16 ± 0.37	1.3 ± 1.6	1.14 ± 0.27
38	11	1.44 ± 0.23	1.88 ± 0.43	-0.06 ± 0.35	1.0 ± 1.3	0.82 ± 0.29
39	20	2.15 ± 0.25	2.09 ± 0.56	-0.08 ± 0.39	0.5 ± 1.6	0.89 ± 0.26
40	18	1.63 ± 0.24	1.37 ± 0.39	0.00 ± 0.39	-0.2 ± 1.4	0.83 ± 0.31
Background Average	16	1.62	1.62	0.01	0.72	0.96

<sup>a</sup>Refer to Figures 7 and 10 through 12.

<sup>b</sup>Concentrations are gross values.

<sup>c</sup>Uncertainties are total propagated uncertainties at the 95% confidence level.

TABLE 3

**RADIONUCLIDE CONCENTRATIONS IN MISCELLANEOUS SAMPLES  
SALMON RIVER URANIUM DEVELOPMENT, INC. PROCESSING MILL  
NORTH FORK, IDAHO**

Sample ID <sup>a</sup>	Sample Type	Exposure Rate (μR/h)	Radionuclide Concentration (pCi/g) <sup>b</sup>				
			Th-228	Th-232	U-235	U-238	Ra-226
1	Ore Chute Support Beam Residue	30	563 ± 37 <sup>c</sup>	560 ± 47	-4.9 ± 5.2	33 ± 19	6.4 ± 3.2
2	Processed Ore, Exterior North Wall	200	1,229 ± 81	1,380 ± 110	-0.4 ± 7.3	30 ± 19	33.0 ± 5.0
3	Floor Residue	50	494 ± 32	508 ± 42	-5.3 ± 4.3	48 ± 24	43.7 ± 4.2
4	Tank Platform Residue	52	167 ± 12	165 ± 21	71 ± 13	965 ± 85	553 ± 36
5	Skid Hopper Pan, Crushed Ore	140	644 ± 43	656 ± 54	0.5 ± 5.0	23 ± 20	3.0 ± 2.7
6	Wash Tub Residue	40	1,098 ± 70	1,087 ± 88	-11.3 ± 7.8	48 ± 27	5.6 ± 3.1
7	Floor Crack, Ore	--- <sup>d</sup>	12,200 ± 1,000	13,400 ± 1,400	-129 ± 75	20 ± 189	20 ± 30
8	Trench Residue	15	104.2 ± 7.7	96.2 ± 8.5	-0.7 ± 2.1	0.0 ± 8.0 <sup>e</sup>	3.1 ± 1.2

<sup>a</sup>Refer to Figures 7 and 8.

<sup>b</sup>Results are semi-quantitative and are gross concentrations.

<sup>c</sup>Uncertainties are total propagated uncertainties at the 95% confidence level.

<sup>d</sup>---measurement not performed.

<sup>e</sup>Zero value due to rounding.

## REFERENCES

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