

APPENDIX G

TABLES OF SCRIBE-MANAGED DATA

Appendix G: Tables of SCRIBE-managed Data
External Laboratory Gamma Spectroscopy Results Summary - Soil Samples
Doris Uranium Mine Site
Milan, McKinley County, New Mexico

Sample ID	Date Sample Collected	Sample Type	Matrix	GAMMA SPECTROSCOPY								
				ANALYTE								
				Actinium-228 Pico Curies Per Gram (pCi/g)	Bismuth-214 Pico Curies Per Gram (pCi/g)	Lead-212 Pico Curies Per Gram (pCi/g)	Lead-214 Pico Curies Per Gram (pCi/g)	Potassium-40 Pico Curies Per Gram (pCi/g)	Protactinium-234m Pico Curies Per Gram (pCi/g)	Radium-226 ¹ Pico Curies Per Gram (pCi/g)	Thallium-208 Pico Curies Per Gram (pCi/g)	Thorium-234 Pico Curies Per Gram (pCi/g)
HO-01-61-170113	1/13/2017	Field Sample-Grab	Soil	0.526	1.03	0.51	0.91	15.5	-2.960	1.08	0.408	1.020
HO-02-61-170113	1/13/2017	Field Sample-Grab	Soil	0.444	0.76	0.50	0.83	14.3	2.55	0.76	0.41	0.948
HO-03-61-170113	1/13/2017	Field Sample-Grab	Soil	0.50	1.09	0.60	0.77	15.4	2.28	1.09	0.316	1.280
HO-04-61-170113	1/13/2017	Field Sample-Grab	Soil	0.457	1.070	0.48	1.090	14.7	0.07	1.070	0.38	1.290
HO-05-61-170113	1/13/2017	Field Sample-Grab	Soil	0.455	0.74	0.477	0.88	13.5	0.13	0.74	0.31	1.540
HO-06-61-170113	1/13/2017	Field Sample-Grab	Soil	0.364	0.89	0.534	0.87	15.5	3.71	0.89	0.39	1.050
HO-07-61-170113	1/13/2017	Field Sample-Grab	Soil	0.547	1.000	0.550	0.95	12.5	3.740	1.000	0.464	1.390
HO-08-61-170113	1/13/2017	Field Sample-Grab	Soil	0.38	0.83	0.50	0.82	13.5	2.620	0.83	0.28	0.724
HO-09-61-170113	1/13/2017	Field Sample-Grab	Soil	0.697	1.040	0.682	1.060	19.2	2.13	1.040	0.74	1.500
HO-10-61-170113	1/13/2017	Field Sample-Grab	Soil	0.356	0.70	0.543	0.79	12.7	1.850	0.70	0.46	1.140
HO-10-62-170113	1/13/2017	Field Duplicate-Grab	Soil	0.553	0.88	0.535	0.94	14.3	-2.290	0.88	0.33	2.630
HO-11-61-170113	1/13/2017	Field Sample-Grab	Soil	0.491	0.83	0.566	0.86	14.3	2.790	0.83	0.52	1.140
HO-12-61-170113	1/13/2017	Field Sample-Grab	Soil	0.466	0.952	0.514	0.887	12.7	1.27	0.952	0.391	1.210
HO-13-61-170113	1/13/2017	Field Sample-Grab	Soil	0.508	0.86	0.65	0.83	13.0	1.090	0.86	0.47	0.830
HO-14-61-170113	1/13/2017	Field Sample-Grab	Soil	0.486	0.86	0.53	0.77	13.3	1.360	0.86	0.386	1.140
HO-15-61-170113	1/13/2017	Field Sample-Grab	Soil	0.684	1.26	0.612	1.190	17.9	-0.096	1.26	0.637	1.990
HO-16-61-170113	1/13/2017	Field Sample-Grab	Soil	0.508	0.74	0.467	0.71	12.9	2.42	0.74	0.489	0.818
HO-17-61-170113	1/13/2017	Field Sample-Grab	Soil	0.510	0.81	0.539	0.78	13.8	2.53	0.81	0.28	0.908
HO-18-61-170113	1/13/2017	Field Sample-Grab	Soil	0.408	0.64	0.42	0.69	11.1	-0.245	0.64	0.39	1.330
HO-19-61-170113	1/13/2017	Field Sample-Grab	Soil	0.409	0.79	0.555	0.77	14.8	-0.380	0.79	0.528	0.540
HO-20-61-170113	1/13/2017	Field Sample-Grab	Soil	0.551	0.84	0.153	0.72	12.1	-1.72	0.84	0.418	0.414
HO-20-62-170113	1/13/2017	Field Duplicate-Grab	Soil	0.411	0.639	0.510	0.683	11.5	1.31	0.639	0.40	1.480
HO-02-2-31-170206	2/6/2017	Field Sample-Grab	Soil	0.357	26.7	-5.18	26.8	7.8	20.50	26.7	0.367	21.14
HO-03-2-31-170206	2/6/2017	Field Sample-Grab	Soil	0.47	1.95	-0.34	2.0	16.6	0.51	1.95	0.44	2.05
HO-04-2-31-170206	2/6/2017	Field Sample-Grab	Soil	0.672974011	35.48103996	0.2572857	37.38059968	12.01813302	38.34765448	35.48103996	0.294650107	30.03264101

¹Radium-226 is assumed to be in equilibrium with Bismuth-214; thus, all radium-226 results are reported as equivalent to bismuth-214 results.

Appendix G: Tables of SCRIBE-managed Data
MCA Gamma Spectroscopy Results Summary - Soil Samples
Doris Uranium Mine Site
Milan, McKinley County, New Mexico

Sample ID	Analysis Date	Sample Type	Matrix	Multi-Channel Analyzer (MCA) ¹
				Analyte
				Radium-226
				Pico Curies Per Gram (pCi/g)
HO-01-61-170113	2/14/2017	Field Sample-Grab	Soil	1.60
HO-02-61-170113	2/14/2017	Field Sample-Grab	Soil	1.52
HO-03-61-170113	2/14/2017	Field Sample-Grab	Soil	1.63
HO-04-61-170113	2/14/2017	Field Sample-Grab	Soil	1.90
HO-05-61-170113	2/14/2017	Field Sample-Grab	Soil	1.52
HO-06-61-170113	2/14/2017	Field Sample-Grab	Soil	1.74
HO-07-61-170113	2/14/2017	Field Sample-Grab	Soil	1.68
HO-08-61-170113	2/15/2017	Field Sample-Grab	Soil	1.57
HO-09-61-170113	2/15/2017	Field Sample-Grab	Soil	1.73
HO-10-61-170113	2/15/2017	Field Sample-Grab	Soil	1.9
HO-10-62-170113	2/15/2017	Field Duplicate-Grab	Soil	1.70
HO-11-61-170113	2/15/2017	Field Sample-Grab	Soil	1.59
HO-12-61-170113	2/15/2017	Field Sample-Grab	Soil	1.58
HO-13-61-170113	2/16/2017	Field Sample-Grab	Soil	1.80
HO-14-61-170113	2/16/2017	Field Sample-Grab	Soil	1.46
HO-15-61-170113	2/16/2017	Field Sample-Grab	Soil	1.89
HO-16-61-170113	2/16/2017	Field Sample-Grab	Soil	1.41
HO-17-61-170113	2/16/2017	Field Sample-Grab	Soil	1.60
HO-18-61-170113	2/16/2017	Field Sample-Grab	Soil	1.21
HO-19-61-170113	2/17/2017	Field Sample-Grab	Soil	1.21
HO-20-61-170113	2/17/2017	Field Sample-Grab	Soil	1.31
HO-20-62-170113	2/17/2017	Field Duplicate-Grab	Soil	1.39
HO-01-2-31-170206	3/7/2017	Field Sample-Grab	Soil	1.77
HO-01-2-32-170206	3/7/2017	Field Duplicate-Grab	Soil	1.95
HO-02-2-31-170206	3/7/2017	Field Sample-Grab	Soil	23.13
HO-03-2-31-170206	3/7/2017	Field Sample-Grab	Soil	2.50
HO-04-2-31-170206	3/7/2017	Field Sample-Grab	Soil	30.71
HO-05-2-31-170206	3/7/2017	Field Sample-Grab	Soil	2.04
HO-06-2-31-170206	3/7/2017	Field Sample-Grab	Soil	1.56
HO-07-2-31-170227	4/26/2017	Field Sample-Grab	Soil	158
DO-01-61-170217	3/15/2017	Field Sample-Grab	Soil	1.68
DO-01-62-170217	3/15/2017	Field Sample-Grab	Soil	1.55
DO-02-61-170217	3/15/2017	Field Sample-Grab	Soil	2.08
DO-03-61-170217	3/15/2017	Field Sample-Grab	Soil	1.75
DO-04-61-170217	3/15/2017	Field Sample-Grab	Soil	2.05

Appendix G: Tables of SCRIBE-managed Data (continued)
MCA Gamma Spectroscopy Results Summary - Soil Samples
Doris Uranium Mine Site
Milan, McKinley County, New Mexico

Sample ID	Analysis Date	Sample Type	Matrix	Multi-Channel Analyzer (MCA) ¹
				Analyte
				Radium-226
				Pico Curies Per Gram (pCi/g)
DO-05-61-170217	3/15/2017	MCA Duplicate	Soil	1.70
DO-06-61-170217	3/15/2017	Field Sample-Grab	Soil	1.31
DO-07-61-170217	3/15/2017	Field Sample-Grab	Soil	1.79
DO-08-61-170217	3/15/2017	Field Sample-Grab	Soil	2.32
DO-09-61-170217	3/15/2017	Field Duplicate-Grab	Soil	1.34
DO-10-61-170217	3/23/2017	Field Sample-Grab	Soil	1.50
DO-11-61-170217	3/23/2017	Field Sample-Grab	Soil	1.80
DO-11-62-170217	3/23/2017	Field Sample-Grab	Soil	1.93
DO-12-61-170217	3/23/2017	Field Sample-Grab	Soil	1.50
DO-13-61-170217	3/23/2017	Field Sample-Grab	Soil	1.68
DO-14-61-170217	3/23/2017	Field Duplicate-Grab	Soil	1.40
DO-15-61-170217	3/23/2017	Field Sample-Grab	Soil	1.49
DO-16-61-170217	3/23/2017	Field Sample-Grab	Soil	1.38
DO-17-61-170217	3/23/2017	Field Sample-Grab	Soil	1.78
DO-18-61-170217	3/23/2017	Field Sample-Grab	Soil	1.74
DO-19-61-170217	3/23/2017	Field Sample-Grab	Soil	2.32
DO-20-61-170217	3/23/2017	Field Sample-Grab	Soil	1.60

¹Sample results were obtained utilizing an ORTEC DigiBASE Spectrometry FG-1 System utilizing a 3x3 Sodium Iodide (NaI) scintillator probe (together referred to as Multi-channel Analyzer) and operating with the peak energy window set for bismuth-214, assumed to be in equilibrium with radium-226. Thus, all radium-226 results are reported as equivalent to bismuth-214 results.

Appendix G: Tables of SCRIBE-managed Data
Soil In-Situ Gamma Counts
Doris Uranium Mine Site
Milan, McKinley County, New Mexico

Sample ID	Date	Sample Type	Matrix	GAMMA RADIATION
				Counts Per Minute (CPM) (1-Minute Average) ¹
HO-01-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,263
HO-02-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,394
HO-03-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,273
HO-04-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,516
HO-05-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,280
HO-06-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,511
HO-07-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,443
HO-08-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,244
HO-09-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,650
HO-10-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,595
HO-11-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,576
HO-12-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,279
HO-13-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,400
HO-14-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,203
HO-15-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,999
HO-16-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,098
HO-17-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,825
HO-18-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,153
HO-19-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,214
HO-20-61-170113	1/13/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,604
DO-01-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,416
DO-02-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,690
DO-03-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,549
DO-04-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,145

Appendix G: Tables of SCRIBE-managed Data (continued)**Soil In-Situ Gamma Counts****Doris Uranium Mine Site****Milan, McKinley County, New Mexico**

Sample ID	Date	Sample Type	Matrix	GAMMA RADIATION
				Counts Per Minute (CPM) (1-Minute Average) ¹
DO-05-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,309
DO-06-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,674
DO-07-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,191
DO-08-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,772
DO-09-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,008
DO-10-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,671
DO-11-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,911
DO-12-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,900
DO-13-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,326
DO-14-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	6,637
DO-15-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	6,401
DO-16-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,172
DO-17-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,803
DO-18-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	7,879
DO-19-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,080
DO-20-61-170217	2/17/2017	Field Measurement	In-Situ Soil (15" Above Ground Surface)	8,091

¹Counts were obtained using a Ludlum Model 44-10 2"x2" NaI probe attached to a Model 22-10 count meter.