

## Appendix H2: Soil Analysis

### WNYNSC Background

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.1	0-15	ALPHA	23.8	4.96	2.48	0.1626	3.8697	3.49	PCI/G
BGA1.2.1	0-15	ALPHA	19.7	4.53	2.265	0.1949	3.8400	3.23	PCI/G
BGA1.3.1	0-15	ALPHA	11.8	3.23	1.615	0.3834	4.5241	3.61	PCI/G
BGA1.4.1	0-15	ALPHA	10.8	3.17	1.585	0.3981	4.2990	3.92	PCI/G
BGA1.5.1	0-15	ALPHA	13.2	3.6	1.8	0.3086	4.0741	3.89	PCI/G
BGA2.1.1	0-15	ALPHA	9.23	3.11	1.555	0.4136	3.8172	3.78	PCI/G
BGA2.2.1	0-15	ALPHA	13	3.73	1.865	0.2875	3.7375	3.89	PCI/G
BGA2.3.1	0-15	ALPHA	11.9	3.86	1.93	0.2685	3.1947	3.97	PCI/G
BGA2.4.1	0-15	ALPHA	12.5	3.5	1.75	0.3265	4.0816	3.90	PCI/G
BGA2.5.1	0-15	ALPHA	8.75	3.18	1.59	0.3956	3.4611	3.99	PCI/G

Average: 12.39      1 Sigma: 0.56

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.2	15-30	ALPHA	15.8	3.99	1.995	0.2513	3.9698	3.93	PCI/G
BGA1.2.2	15-30	ALPHA	17.1	3.52	1.76	0.3228	5.5204	3.36	PCI/G
BGA1.3.2	15-30	ALPHA	16.5	3.79	1.895	0.2785	4.5948	3.43	PCI/G
BGA1.4.2	15-30	ALPHA	13.6	3.55	1.775	0.3174	4.3166	3.94	PCI/G
BGA1.5.2	15-30	ALPHA	11.4	3.4	1.7	0.3460	3.9446	4.05	PCI/G
BGA2.1.2	15-30	ALPHA	6.21	2.78	1.39	0.5176	3.2141	3.75	PCI/G
BGA2.2.2	15-30	ALPHA	13.9	3.3	1.65	0.3673	5.1056	3.07	PCI/G
BGA2.3.2	15-30	ALPHA	5.2	2.84	1.42	0.4959	2.5789	3.85	PCI/G
BGA2.4.2	15-30	ALPHA	10	3.36	1.68	0.3543	3.5431	3.88	PCI/G
BGA2.5.2	15-30	ALPHA	12.9	4.02	2.01	0.2475	3.1930	3.92	PCI/G

Average: 11.43      1 Sigma: 0.53

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.3	30-60	ALPHA	16.5	3.71	1.855	0.2906	4.7951	3.41	PCI/G
BGA2.1.3	30-60	ALPHA	12	3.16	1.58	0.4006	4.8069	3.81	PCI/G

Average: 13.89      1 Sigma: 1.20

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.4	60-100	ALPHA	10.7	3.19	1.595	0.3931	4.2059	3.95	PCI/G
BGA2.1.4	60-100	ALPHA	19.7	3.82	1.91	0.2741	5.4001	2.43	PCI/G

Average: 14.40      1 Sigma: 1.22

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Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.1	0-15	BETA	24.9	3.46	1.73	0.3341	8.3197	3.81	PCI/G
BGA1.2.1	0-15	BETA	23.8	3.42	1.71	0.3420	8.1393	3.91	PCI/G
BGA1.3.1	0-15	BETA	21.8	2.94	1.47	0.4628	10.0884	3.45	PCI/G
BGA1.4.1	0-15	BETA	20	2.79	1.395	0.5139	10.2774	3.35	PCI/G
BGA1.5.1	0-15	BETA	30.3	3.31	1.655	0.3651	11.0623	3.56	PCI/G
BGA2.1.1	0-15	BETA	15	2.62	1.31	0.5827	8.7407	3.19	PCI/G
BGA2.2.1	0-15	BETA	29.4	3.35	1.675	0.3564	10.4789	3.64	PCI/G
BGA2.3.1	0-15	BETA	21.4	3.07	1.535	0.4244	9.0823	2.91	PCI/G
BGA2.4.1	0-15	BETA	23.6	3.45	1.725	0.3361	7.9311	4.02	PCI/G
BGA2.5.1	0-15	BETA	22.9	2.9	1.45	0.4756	10.8918	2.84	PCI/G

Average: 22.66      1 Sigma: 0.49

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.2	15-30	BETA	23	3.3	1.65	0.3673	8.4481	3.77	PCI/G
BGA1.2.2	15-30	BETA	21.5	2.7	1.35	0.5487	11.7970	2.80	PCI/G
BGA1.3.2	15-30	BETA	21.8	2.81	1.405	0.5066	11.0434	3.15	PCI/G
BGA1.4.2	15-30	BETA	20	2.67	1.335	0.5611	11.2219	3.04	PCI/G
BGA1.5.2	15-30	BETA	20.7	2.9	1.45	0.4756	9.8454	3.22	PCI/G
BGA2.1.2	15-30	BETA	16.9	2.73	1.365	0.5367	9.0703	3.25	PCI/G
BGA2.2.2	15-30	BETA	17.4	2.86	1.43	0.4890	8.5090	3.53	PCI/G
BGA2.3.2	15-30	BETA	17.3	2.8	1.4	0.5102	8.8265	2.62	PCI/G
BGA2.4.2	15-30	BETA	20.1	2.9	1.45	0.4756	9.5600	2.83	PCI/G
BGA2.5.2	15-30	BETA	25.2	3.3	1.65	0.3673	9.2562	2.97	PCI/G

Average: 20.17      1 Sigma: 0.45

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.3	30-60	BETA	28.9	3.25	1.625	0.3787	10.9444	3.42	PCI/G
BGA2.1.3	30-60	BETA	21.4	2.56	1.28	0.6104	13.0615	2.74	PCI/G

Average: 24.27      1 Sigma: 1.01

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.4	60-100	BETA	22.5	2.85	1.425	0.4925	11.0803	3.21	PCI/G
BGA2.1.4	60-100	BETA	35.2	3.16	1.58	0.4006	14.1003	2.74	PCI/G

Average: 28.20      1 Sigma: 1.06

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Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.1	0-15	Cesium-137	0.12	0.0534	0.0267	1402.7410	168.3289	0.0683	PCI/G
BGA1.2.1	0-15	Cesium-137	0.206	0.0839	0.04195	568.2456	117.0586	0.0956	PCI/G
BGA1.3.1	0-15	Cesium-137	0.354	0.0766	0.0383	681.7144	241.3269	0.0703	PCI/G
BGA1.4.1	0-15	Cesium-137	0.232	0.0868	0.0434	530.9096	123.1710	0.0891	PCI/G
BGA1.5.1	0-15	Cesium-137	0.391	0.0852	0.0426	551.0371	215.4555	0.0851	PCI/G
BGA2.1.1	0-15	Cesium-137	0.769	0.127	0.0635	248.0005	190.7124	0.0823	PCI/G
BGA2.2.1	0-15	Cesium-137	0.292	0.114	0.057	307.7870	89.8738	0.102	PCI/G
BGA2.3.1	0-15	Cesium-137	0.328	0.0933	0.04665	459.5118	150.7199	0.0929	PCI/G
BGA2.4.1	0-15	Cesium-137	0.279	0.103	0.0515	377.0384	105.1937	0.0909	PCI/G
BGA2.5.1	0-15	Cesium-137	0.427	0.0877	0.04385	520.0688	222.0694	0.0836	PCI/G

Average: 0.29      1 Sigma: 0.01

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.2	15-30	Cesium-137	0	0.0435	0.02175	2113.8856	0.0000	0.0915	PCI/G
BGA1.2.2	15-30	Cesium-137	0.178	0.092	0.046	472.5898	84.1210	0.0999	PCI/G
BGA1.3.2	15-30	Cesium-137	0.299	0.137	0.0685	213.1174	63.7221	0.136	PCI/G
BGA1.4.2	15-30	Cesium-137	0.215	0.0782	0.0391	654.1035	140.6323	0.0609	PCI/G
BGA1.5.2	15-30	Cesium-137	0.241	0.079	0.0395	640.9229	154.4624	0.078	PCI/G
BGA2.1.2	15-30	Cesium-137	0.0238	0.0366	0.0183	2986.0551	71.0681	0.0753	PCI/G
BGA2.2.2	15-30	Cesium-137	0.181	0.0803	0.04015	620.3387	112.2813	0.0989	PCI/G
BGA2.3.2	15-30	Cesium-137	0.217	0.0904	0.0452	489.4667	106.2143	0.0654	PCI/G
BGA2.4.2	15-30	Cesium-137	0.255	0.0656	0.0328	929.5062	237.0241	0.0605	PCI/G
BGA2.5.2	15-30	Cesium-137	0.134	0.0807	0.04035	614.2044	82.3034	0.105	PCI/G

Average: 0.11      1 Sigma: 0.01

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.3	30-60	Cesium-137	0.017	0.0446	0.0223	2010.8991	34.1853	0.0808	PCI/G
BGA2.1.3	30-60	Cesium-137	-0.0157	0.0492	0.0246	1652.4555	-25.9436	0.0896	PCI/G

Average: 0.00      1 Sigma: 0.02

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
BGA1.1.4	60-100	Cesium-137	0.175	0.0599	0.02995	1114.8241	195.0942	0.0849	PCI/G
BGA2.1.4	60-100	Cesium-137	0.0611	0.0503	0.02515	1580.9714	96.5974	0.082	PCI/G

Average: 0.11      1 Sigma: 0.02

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### SNI Background

#### Floodplain

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.1	0-15	ALPHA	16.5	4.34	2.170	0.212	3.504	3.97	PCI/G
SNIB.20.1	0-15	ALPHA	12.7	3.75	1.875	0.284	3.612	3.93	PCI/G
SNIB.21.1	0-15	ALPHA	13.9	4.02	2.010	0.248	3.441	3.99	PCI/G
SNIB.22.1	0-15	ALPHA	14.6	3.50	1.750	0.327	4.767	3.98	PCI/G
SNIB.24.1	0-15	ALPHA	15.9	4.45	2.225	0.202	3.212	3.89	PCI/G

Average:            14.56            1 Sigma:            0.886

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.2	15-30	ALPHA	16.3	3.43	1.715	0.340	5.542	2.63	PCI/G
SNIB.20.2	15-30	ALPHA	9.34	2.74	1.370	0.533	4.976	2.94	PCI/G
SNIB.21.2	15-30	ALPHA	16.2	3.23	1.615	0.383	6.211	3.19	PCI/G
SNIB.22.2	15-30	ALPHA	11.5	3.61	1.805	0.307	3.530	3.85	PCI/G
SNIB.24.2	15-30	ALPHA	15.8	2.96	1.480	0.457	7.213	2.68	PCI/G

Average:            13.60            1 Sigma:            0.704

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.3	30-60	ALPHA	15.2	3.72	1.860	0.289	4.394	3.88	PCI/G
SNIB.20.3	30-60	ALPHA	11.7	2.83	1.415	0.499	5.843	2.44	PCI/G
SNIB.21.3	30-60	ALPHA	14	4.45	2.225	0.202	2.828	4	PCI/G
SNIB.24.3	30-60	ALPHA	21.8	3.50	1.750	0.327	7.118	2.43	PCI/G

Average:            15.33            1 Sigma:            0.871

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.21.4	60-100	ALPHA	14.7	3.91	1.955	0.262	3.846	3.99	PCI/G

Average:            14.7            1 Sigma:            1.955

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.1	0-15	BETA	25	3.28	1.640	0.372	9.295	2.84	PCI/G
SNIB.20.1	0-15	BETA	23.6	3.38	1.690	0.350	8.263	3.6	PCI/G
SNIB.21.1	0-15	BETA	24.2	3.26	1.630	0.376	9.108	2.65	PCI/G
SNIB.22.1	0-15	BETA	19.7	2.97	1.485	0.453	8.933	3.58	PCI/G
SNIB.24.1	0-15	BETA	18.9	3.48	1.740	0.330	6.243	3.93	PCI/G

Average:            22.23            1 Sigma:            0.729

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.2	15-30	BETA	33.8	3.36	1.680	0.354	11.976	3.31	PCI/G
SNIB.20.2	15-30	BETA	19.8	2.79	1.395	0.514	10.175	3.22	PCI/G
SNIB.21.2	15-30	BETA	25.3	2.38	1.190	0.706	17.866	2.41	PCI/G
SNIB.22.2	15-30	BETA	18.4	3.09	1.545	0.419	7.708	3.38	PCI/G
SNIB.24.2	15-30	BETA	27.1	2.57	1.285	0.606	16.412	2.73	PCI/G

Average:            24.68            1 Sigma:            0.620

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Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.3	30-60	BETA	19.2	3.03	1.515	0.436	8.365	3.55	PCI/G
SNIB.20.3	30-60	BETA	22.1	2.89	1.445	0.479	10.584	3.25	PCI/G
SNIB.21.3	30-60	BETA	23	3.80	1.900	0.277	6.371	3.94	PCI/G
SNIB.24.3	30-60	BETA	30.8	2.66	1.330	0.565	17.412	2.54	PCI/G

Average:            24.32            1 Sigma:            0.754

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.21.4	60-100	BETA	22	3.08	1.540	0.422	9.276	3.02	PCI/G

Average:            22.00            1 Sigma:            1.540

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.1	0-15	Cesium-137	0.138	0.07	0.035	828.114	114.280	0.0876	PCI/G
SNIB.20.1	0-15	Cesium-137	0	0.03	0.017	3380.206	0.000	0.063	PCI/G
SNIB.21.1	0-15	Cesium-137	0.0904	0.08	0.039	642.549	58.086	0.0622	PCI/G
SNIB.22.1	0-15	Cesium-137	0.0905	0.07	0.035	816.327	73.878	0.0837	PCI/G
SNIB.24.1	0-15	Cesium-137	0.344	0.07	0.037	746.514	256.801	0.085	PCI/G

Average:            0.08            1 Sigma:            0.012

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.2	15-30	Cesium-137	0	0.07	0.035	807.076	0.000	0.0909	PCI/G
SNIB.20.2	15-30	Cesium-137	0.0234	0.05	0.024	1686.561	39.466	0.0792	PCI/G
SNIB.21.2	15-30	Cesium-137	0.0693	0.0813	0.041	605.172	41.938	0.108	PCI/G
SNIB.22.2	15-30	Cesium-137	0	0.06	0.028	1270.967	0.000	0.113	PCI/G
SNIB.24.2	15-30	Cesium-137	0.447	0.08	0.039	662.549	296.159	0.0721	PCI/G

Average:            0.08            1 Sigma:            0.014

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.19.3	30-60	Cesium-137	0.00434	0.04	0.021	2278.410	9.888	0.0807	PCI/G
SNIB.20.3	30-60	Cesium-137	0	0.07	0.034	862.513	0.000	0.0584	PCI/G
SNIB.21.3	30-60	Cesium-137	-0.0128	0.05	0.025	1606.419	-20.562	0.0782	PCI/G
SNIB.24.3	30-60	Cesium-137	0.147	0.05	0.025	1574.704	231.481	0.0627	PCI/G

Average:            0.03            1 Sigma:            0.013

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.21.4	60-100	Cesium-137	-0.00271	0.04	0.020	2487.547	-6.741	0.0776	PCI/G

Average:            0.00            1 Sigma:            0.020

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### Non-Floodplain

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.1	0-15	ALPHA	14.5	2.16	1.080	0.857	12.431	2.45	PCI/G
SNIB.23.1	0-15	ALPHA	8.26	3.43	1.715	0.340	2.808	3.8	PCI/G
SNIB.25.1	0-15	ALPHA	12.4	4.39	2.195	0.208	2.574	3.98	PCI/G
SNIB.26.1	0-15	ALPHA	13.4	4.03	2.015	0.246	3.300	3.96	PCI/G

Average:            12.79            1 Sigma:            0.778

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.2	15-30	ALPHA	13	3.95	1.975	0.256	3.333	3.83	PCI/G
SNIB.23.2	15-30	ALPHA	12.9	3.88	1.940	0.266	3.428	3.98	PCI/G
SNIB.25.2	15-30	ALPHA	20.7	3.59	1.795	0.310	6.425	2.98	PCI/G
SNIB.26.2	15-30	ALPHA	10.7	2.87	1.435	0.486	5.196	2.8	PCI/G
SNIB.27.2	15-30	ALPHA	14.8	3.27	1.635	0.374	5.536	2.8	PCI/G

Average:            14.13            1 Sigma:            0.769

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.3	30-60	ALPHA	7.22	2.16	1.080	0.857	6.190	2.62	PCI/G
SNIB.25.3	30-60	ALPHA	24.9	4.02	2.010	0.248	6.163	3.07	PCI/G
SNIB.26.3	30-60	ALPHA	16.9	4.17	2.085	0.230	3.888	3.9	PCI/G
SNIB.27.3	30-60	ALPHA	14.1	3.27	1.635	0.374	5.275	2.6	PCI/G

Average:            12.59            1 Sigma:            0.765

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.4	60-100	ALPHA	21.9	3.62	1.810	0.305	6.685	2.94	PCI/G

Average:            21.90            1 Sigma:            1.810

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.1	0-15	BETA	18.5	1.52	0.760	1.731	32.029	1.78	PCI/G
SNIB.23.1	0-15	BETA	24.5	3.88	1.940	0.266	6.510	3.8	PCI/G
SNIB.25.1	0-15	BETA	18.6	4.02	2.010	0.248	4.604	4.75	PCI/G
SNIB.26.1	0-15	BETA	23.5	3.36	1.680	0.354	8.326	3.28	PCI/G

Average:            19.80            1 Sigma:            0.620

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.2	15-30	BETA	19.8	3.59	1.795	0.310	6.145	4.41	PCI/G
SNIB.23.2	15-30	BETA	26.7	3.33	1.665	0.361	9.631	2.33	PCI/G
SNIB.25.2	15-30	BETA	32.3	2.70	1.350	0.549	17.723	2.57	PCI/G
SNIB.26.2	15-30	BETA	22.7	2.80	1.400	0.510	11.582	2.8	PCI/G
SNIB.27.2	15-30	BETA	23.3	3.25	1.625	0.379	8.824	3.95	PCI/G

Average:            25.56            1 Sigma:            0.689

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Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.3	30-60	BETA	16.1	2.37	1.185	0.712	11.465	3.04	PCI/G
SNIB.25.3	30-60	BETA	37.1	2.99	1.495	0.447	16.599	3.03	PCI/G
SNIB.26.3	30-60	BETA	33	3.57	1.785	0.314	10.357	3.15	PCI/G
SNIB.27.3	30-60	BETA	26.1	2.76	1.380	0.525	13.705	2.47	PCI/G

26.08      1 Sigma:      0.707

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.4	60-100	BETA	36.7	2.93	1.465	0.466	17.100	3.1	PCI/G

Average:      36.70      1 Sigma:      1.465

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.1	0-15	Cesium-137	0.128	0.0766	0.038	681.714	87.259	0.0782	PCI/G
SNIB.23.1	0-15	Cesium-137	0.102	0.0571	0.029	1226.840	125.138	0.0604	PCI/G
SNIB.25.1	0-15	Cesium-137	0.453	0.102	0.051	384.468	174.164	0.113	PCI/G
SNIB.26.1	0-15	Cesium-137	0.13	0.0881	0.044	515.357	66.996	0.0837	PCI/G

Average:      0.16      1 Sigma:      0.019

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.18.2	15-30	Cesium-137	0.155	0.0547	0.027	1336.858	207.213	0.0698	PCI/G
SNIB.23.2	15-30	Cesium-137	0	0.0522	0.026	1467.976	0.000	0.115	PCI/G
SNIB.25.2	15-30	Cesium-137	0.159	0.07	0.036	752.671	119.675	0.0738	PCI/G
SNIB.26.2	15-30	Cesium-137	0.123	0.08	0.039	664.258	81.704	0.0989	PCI/G
SNIB.27.2	15-30	Cesium-137	0.0846	0.06	0.028	1270.967	107.524	0.0603	PCI/G

Average:      0.09      1 Sigma:      0.013

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.3	30-60	Cesium-137	0	0.06	0.030	1103.741	0.000	0.0561	PCI/G
SNIB.25.3	30-60	Cesium-137	0.0157	0.06	0.031	1030.585	16.180	0.125	PCI/G
SNIB.26.3	30-60	Cesium-137	0.0227	0.0459	0.023	1898.605	43.098	0.0615	PCI/G
SNIB.27.3	30-60	Cesium-137	0	0.0866	0.043	533.365	0.000	0.0963	PCI/G

Average:      0.01      1 Sigma:      0.015

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
SNIB.23.4	60-100	Cesium-137	-0.00079	0.03	0.013	5695.977	-4.500	0.0525	PCI/G

Average:      0.00      1 Sigma:      0.013

## Appendix H2: Soil Analysis

### Confirmatory Area

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.1.C1	0-5	ALPHA	9.44	3.16	1.58	3.84	PCI/G
C.2.C1	0-5	ALPHA	8.06	3.09	1.545	3.37	PCI/G
C.3.C1	0-5	ALPHA	10.1	3.43	1.715	3.84	PCI/G
C.4.C1	0-5	ALPHA	22.3	5.12	2.56	3.98	PCI/G

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.2.C4	30-100	ALPHA	13.1	3.94	1.97	3.96	PCI/G

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.1.C1	0-5	BETA	29	2.82	1.41	2.22	PCI/G
C.2.C1	0-5	BETA	20.4	3.4	1.7	3.92	PCI/G
C.3.C1	0-5	BETA	8.69	2.27	1.135	2.71	PCI/G
C.4.C1	0-5	BETA	40.2	4.42	2.21	3.15	PCI/G

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.2.C4	30-100	BETA	46.8	4.09	2.045	2.63	PCI/G

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.1.C1	0-5	Cesium-137	1.24	0.141	0.0705	0.0961	PCI/G
C.2.C1	0-5	Cesium-137	8.68	0.236	0.118	0.0642	PCI/G
C.3.C1	0-5	Cesium-137	0.935	0.214	0.107	0.133	PCI/G
C.4.C1	0-5	Cesium-137	1.41	0.172	0.086	0.13	PCI/G

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	MDL	Units
C.2.C4	30-100	Cesium-137	30.2	0.572	0.286	0.0999	PCI/G



## Appendix H2: Soil Analysis

### Area 1

#### Sub-Area L12

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.1	0-5	ALPHA	12.6	3.93	1.965	0.2590	3.2632	3.89	PCI/G
1.2.C.1	0-5	ALPHA	7.52	3.29	1.645	0.3695	2.7790	3.92	PCI/G

Average: 9.61      1 Sigma: 1.261

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.2	5-15	ALPHA	9.22	1.49	0.745	1.8017	16.6119	1.62	PCI/G
1.2.C.2	5-15	ALPHA	6.53	1.68	0.84	1.4172	9.2545	2.29	PCI/G

Average: 8.04      1 Sigma: 0.557

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.1	0-5	BETA	25.5	3.89	1.945	0.2643	6.7406	3.57	PCI/G
1.2.C.1	0-5	BETA	24.5	3.81	1.905	0.2756	6.7511	3.69	PCI/G

Average: 24.99      1 Sigma: 1.361

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.2	5-15	BETA	14.3	1.24	0.62	2.6015	37.2008	1.28	PCI/G
1.2.C.2	5-15	BETA	17	1.45	0.725	1.9025	32.3424	1.69	PCI/G

Average: 15.44      1 Sigma: 0.471

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.1	0-5	Cesium-137	3.64	0.256	0.128	61.0352	222.1680	0.108	PCI/G
1.2.C.1	0-5	Cesium-137	2.52	0.198	0.099	102.0304	257.1166	0.102	PCI/G

Average: 2.94      1 Sigma: 0.078

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.1.C.2	5-15	Cesium-137	0.15	0.0613	0.03065	1064.4838	159.6726	0.0615	PCI/G
1.2.C.2	5-15	Cesium-137	0.143	0.0636	0.0318	988.8849	141.4105	0.0815	PCI/G

Average: 0.15      1 Sigma: 0.022

## Appendix H2: Soil Analysis

### Sub-Area L23

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.1	0-5	ALPHA	7.84	3.45	1.725	0.3361	2.6347	3.97	PCI/G

Average: 7.84      1 Sigma: 1.725

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.2	5-15	ALPHA	11.1	2.15	1.075	0.8653	9.6052	2.78	PCI/G

Average: 11.1      1 Sigma: 1.075

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.1	0-5	BETA	25.6	3.77	1.885	0.2814	7.2047	3.05	PCI/G

Average: 25.6      1 Sigma: 1.885

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.2	5-15	BETA	21.2	1.8	0.9	1.2346	26.1728	2.19	PCI/G

Average: 21.2      1 Sigma: 0.900

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.1	0-5	Cesium-137	0.406	0.144	0.072	192.9012	78.3179	0.109	PCI/G

Average: 0.406      1 Sigma: 0.072

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
1.3.C.2	5-15	Cesium-137	0.482	0.0947	0.04735	446.0259	214.9845	0.0637	PCI/G

Average: 0.482      1 Sigma: 0.047

## Area 2:

### Sub-Area 2.1

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.1.R.1	0-5	ALPHA	10.5	3.46	1.73	0.3341	3.5083	3.88	PCI/G
2.1.2.R.1	0-5	ALPHA	10.3	3.27	1.635	0.3741	3.8530	3.96	PCI/G
2.1.3.R.1	0-5	ALPHA	13.8	3.76	1.88	0.2829	3.9045	3.91	PCI/G
2.1.4.R.1	0-5	ALPHA	9.24	3.19	1.595	0.3931	3.6320	3.92	PCI/G

Average: 10.76      1 Sigma: 0.850

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.3.R.2	5-15	ALPHA	8.03	2.3	1.15	0.7561	6.0718	3.33	PCI/G
2.1.4.R.2	5-15	ALPHA	15.1	3.77	1.885	0.2814	4.2497	3.56	PCI/G

Average: 9.95      1 Sigma: 0.982

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.1.R.1	0-5	BETA	15.1	2.51	1.255	0.6349	9.5871	2.48	PCI/G
2.1.2.R.1	0-5	BETA	26.2	3.01	1.505	0.4415	11.5672	3.22	PCI/G
2.1.3.R.1	0-5	BETA	32.2	3.4	1.7	0.3460	11.1419	2.94	PCI/G
2.1.4.R.1	0-5	BETA	26.8	2.95	1.475	0.4596	12.3183	2.71	PCI/G

Average: 23.71      1 Sigma: 0.729

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.3.R.2	5-15	BETA	23.1	1.6	0.8	1.5625	36.0938	1.45	PCI/G
2.1.4.R.2	5-15	BETA	27.1	2.91	1.455	0.4724	12.8010	2.75	PCI/G

Average: 24.03      1 Sigma: 0.701

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.1.R.1	0-5	Cesium-137	0.412	0.161	0.0805	154.3150	63.5778	0.123	PCI/G
2.1.2.R.1	0-5	Cesium-137	0.348	0.169	0.0845	140.0511	48.7378	0.144	PCI/G
2.1.3.R.1	0-5	Cesium-137	0.288	0.0732	0.0366	746.5138	214.9960	0.0982	PCI/G
2.1.4.R.1	0-5	Cesium-137	0.94	0.124	0.062	260.1457	244.5369	0.083	PCI/G

Average: 0.44      1 Sigma: 0.028

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.1.3.R.2	5-15	Cesium-137	0.303	0.0886	0.0443	509.5567	154.3957	0.115	PCI/G
2.1.4.R.2	5-15	Cesium-137	0.829	0.113	0.0565	313.2587	259.6914	0.0977	PCI/G

Average: 0.50      1 Sigma: 0.035

### Sub-Area 2.2

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.1	0-5	ALPHA	17.1	4.43	2.215	0.2038	3.4854	3.95	PCI/G
2.2.2.R.1	0-5	ALPHA	6.47	2.86	1.43	0.4890	3.1640	3.95	PCI/G
2.2.3.R.1	0-5	ALPHA	10.2	3.61	1.805	0.3069	3.1307	3.75	PCI/G
2.2.4.R.1	0-5	ALPHA	12.8	3.89	1.945	0.2643	3.3835	3.96	PCI/G

Average: 10.41      1 Sigma: 0.889

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.2	5-15	ALPHA	10	3.26	1.63	0.3764	3.7638	3.92	PCI/G
2.2.2.R.2	5-15	ALPHA	7.09	2.89	1.445	0.4789	3.3956	3.90	PCI/G
2.2.3.R.2	5-15	ALPHA	6.74	2.93	1.465	0.4659	3.1404	3.90	PCI/G
2.2.4.R.2	5-15	ALPHA	10.2	3.1	1.55	0.4162	4.2456	3.93	PCI/G

Average: 8.37      1 Sigma: 0.759

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.4.R.3	15-100	ALPHA	12.5	2.01	1.005	0.9901	12.3759	2.29	PCI/G

Average: 12.5      1 Sigma: 1.005

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.1	0-5	BETA	29.2	3.85	1.925	0.2699	7.8799	3.28	PCI/G
2.2.2.R.1	0-5	BETA	16.4	3.07	1.535	0.4244	6.9603	4.01	PCI/G
2.2.3.R.1	0-5	BETA	24.7	4.05	2.025	0.2439	6.0235	4.19	PCI/G
2.2.4.R.1	0-5	BETA	28.2	4.34	2.17	0.2124	5.9887	4.84	PCI/G

Average: 23.34      1 Sigma: 0.932

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.2	5-15	BETA	18.6	2.67	1.335	0.5611	10.4364	2.77	PCI/G
2.2.2.R.2	5-15	BETA	12.7	2.32	1.16	0.7432	9.4382	2.74	PCI/G
2.2.3.R.2	5-15	BETA	8.37	2.24	1.12	0.7972	6.6725	2.85	PCI/G
2.2.4.R.2	5-15	BETA	15.7	2.85	1.425	0.4925	7.7316	3.69	PCI/G

Average: 13.22      1 Sigma: 0.621

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.4.R.3	15-100	BETA	18.4	1.34	0.67	2.2277	40.9891	1.40	PCI/G

Average: 18.4      1 Sigma: 0.670

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.1	0-5	Cesium-137	1.42	0.147	0.0735	185.1081	262.8534	0.0859	PCI/G
2.2.2.R.1	0-5	Cesium-137	1.4	0.165	0.0825	146.9238	205.6933	0.0946	PCI/G
2.2.3.R.1	0-5	Cesium-137	2.15	0.16	0.08	156.2500	335.9375	0.0822	PCI/G
2.2.4.R.1	0-5	Cesium-137	1.78	0.189	0.0945	111.9789	199.3225	0.0927	PCI/G

Average: 1.67      1 Sigma: 0.041

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.1.R.2	5-15	Cesium-137	0.317	0.0777	0.03885	662.5489	210.0280	0.0775	PCI/G
2.2.2.R.2	5-15	Cesium-137	0.27	0.0768	0.0384	678.1684	183.1055	0.082	PCI/G
2.2.3.R.2	5-15	Cesium-137	0.26	0.0887	0.04435	508.4084	132.1862	0.122	PCI/G
2.2.4.R.2	5-15	Cesium-137	0.193	0.0635	0.03175	992.0020	191.4564	0.0685	PCI/G

Average: 0.25      1 Sigma: 0.019

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
2.2.4.R.3	15-100	Cesium-137	0	0.0445	0.02225	2019.9470	0.0000	0.0649	PCI/G

Average: 0      1 Sigma: 0.022

Appendix H2: Soil Analysis

Area 3

Sub-Area 3.1

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.1	0-15	ALPHA	18.4	2.52	1.26	0.6299	11.5898	2.56	PCI/G
3.1.2.E.1	0-15	ALPHA	17	2.33	1.165	0.7368	12.5256	2.32	PCI/G
3.1.3.E.1	0-15	ALPHA	14.3	2.07	1.035	0.9335	13.3492	2.38	PCI/G
3.1.4.R.1	0-15	ALPHA	11.5	1.87	0.935	1.1439	13.1545	2.13	PCI/G
3.1.5.R.1	0-15	ALPHA	12.5	1.91	0.955	1.0965	13.7058	2.08	PCI/G
3.1.6.R.1	0-15	ALPHA	10.8	4.44	2.22	0.2029	2.1914	3.79	PCI/G
3.1.7.R.1	0-15	ALPHA	10.1	3.56	1.78	0.3156	3.1877	3.48	PCI/G
3.1.8.R.1	0-15	ALPHA	10.1	3.17	1.585	0.3981	4.0203	3.60	PCI/G
3.1.9.E.1	0-15	ALPHA	14.9	4.08	2.04	0.2403	3.5804	3.69	PCI/G
3.1.10.E.1	0-15	ALPHA	12.8	3.99	1.995	0.2513	3.2161	3.97	PCI/G
3.1.11.E.1	0-15	ALPHA	13.8	3.32	1.66	0.3629	5.0080	3.46	PCI/G
3.1.12.E.1	0-15	ALPHA	16.3	3.98	1.99	0.2525	4.1161	3.95	PCI/G
3.1.13.R.1	0-15	ALPHA	8.17	2.26	1.13	0.7831	6.3983	2.68	PCI/G
3.1.14.R.1	0-15	ALPHA	9.96	3.08	1.54	0.4217	4.1997	3.99	PCI/G
3.1.15.R.1	0-15	ALPHA	13.1	3.19	1.595	0.3931	5.1493	3.76	PCI/G
3.1.16.R.1	0-15	ALPHA	14.7	3.55	1.775	0.3174	4.6657	3.98	PCI/G
3.1.17.R.1	0-15	ALPHA	11.8	2.94	1.47	0.4628	5.4607	3.46	PCI/G
3.1.18.R.1	0-15	ALPHA	7.56	2.42	1.21	0.6830	5.1636	3.21	PCI/G
3.1.19.R.1	0-15	ALPHA	14.7	3.57	1.785	0.3139	4.6136	3.83	PCI/G
3.1.20.R.1	0-15	ALPHA	15.1	3.49	1.745	0.3284	4.9589	3.10	PCI/G
3.1.21.R.1	0-15	ALPHA	8.73	2.97	1.485	0.4535	3.9588	3.65	PCI/G
3.1.22.R.1	0-15	ALPHA	14.9	3.2	1.6	0.3906	5.8203	2.53	PCI/G
3.1.23.R.1	0-15	ALPHA	12.4	3.09	1.545	0.4189	5.1948	2.55	PCI/G
3.1.24.R.1	0-15	ALPHA	12.4	3.69	1.845	0.2938	3.6427	3.42	PCI/G

Average: 12.59      1 Sigma: 0.291

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.2	15-30	ALPHA	13.2	2.26	1.13	0.7831	10.3375	2.59	PCI/G
3.1.2.E.2	15-30	ALPHA	21.1	2.71	1.355	0.5447	11.4922	2.94	PCI/G
3.1.3.E.2	15-30	ALPHA	18	2.24	1.12	0.7972	14.3495	2.30	PCI/G
3.1.4.R.2	15-30	ALPHA	14.7	2.08	1.04	0.9246	13.5910	2.16	PCI/G
3.1.5.R.2	15-30	ALPHA	13.4	4.47	2.235	0.2002	2.6826	3.86	PCI/G
3.1.6.R.2	15-30	ALPHA	10.8	3.83	1.915	0.2727	2.9450	3.85	PCI/G
3.1.7.R.2	15-30	ALPHA	19.5	6.16	3.08	0.1054	2.0556	3.54	PCI/G
3.1.8.R.2	15-30	ALPHA	17.8	4.94	2.47	0.1639	2.9176	3.88	PCI/G
3.1.9.E.2	15-30	ALPHA	16.8	4.88	2.44	0.1680	2.8218	3.80	PCI/G
3.1.10.E.2	15-30	ALPHA	9.23	3.22	1.61	0.3858	3.5608	3.99	PCI/G
3.1.11.E.2	15-30	ALPHA	12.4	3.64	1.82	0.3019	3.7435	3.93	PCI/G
3.1.12.E.2	15-30	ALPHA	13.2	3.71	1.855	0.2906	3.8361	3.89	PCI/G
3.1.13.R.2	15-30	ALPHA	11.9	3.81	1.905	0.2756	3.2791	3.99	PCI/G
3.1.14.R.2	15-30	ALPHA	9.16	3.18	1.59	0.3956	3.6233	3.99	PCI/G
3.1.15.R.2	15-30	ALPHA	18.5	4.07	2.035	0.2415	4.4673	3.95	PCI/G
3.1.16.R.2	15-30	ALPHA	8.99	3.55	1.775	0.3174	2.8534	3.91	PCI/G
3.1.17.R.2	15-30	ALPHA	10.2	3.81	1.905	0.2756	2.8107	3.82	PCI/G
3.1.18.R.2	15-30	ALPHA	11.5	3.28	1.64	0.3718	4.2757	3.91	PCI/G
3.1.19.R.2	15-30	ALPHA	7.32	3.21	1.605	0.3882	2.8416	3.70	PCI/G
3.1.21.R.2	15-30	ALPHA	13.3	4.01	2.005	0.2488	3.3084	3.78	PCI/G
3.1.22.R.2	15-30	ALPHA	16.8	4.32	2.16	0.2143	3.6008	3.86	PCI/G
3.1.23.R.2	15-30	ALPHA	14.4	4.45	2.225	0.2020	2.9087	3.91	PCI/G
3.1.24.R.2	15-30	ALPHA	11.5	3.78	1.89	0.2799	3.2194	3.87	PCI/G

Average: 13.69      1 Sigma: 0.350

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.3	30-60	ALPHA	16.3	2.11	1.055	0.8985	14.6448	1.97	PCI/G

Average: 16.3      1 Sigma: 1.055

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.4	60-100	ALPHA	14.5	3.59	1.795	0.3104	4.5003	2.85	PCI/G
3.1.2.E.4	60-100	ALPHA	15.4	2.07	1.035	0.9335	14.3761	2.11	PCI/G
3.1.3.E.4	60-100	ALPHA	12.8	1.84	0.92	1.1815	15.1229	1.79	PCI/G
3.1.4.R.4	60-100	ALPHA	13.1	1.89	0.945	1.1198	14.6692	2.05	PCI/G

Average: 13.7      1 Sigma: 0.531

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.1	0-15	BETA	27.7	1.76	0.88	1.2913	35.7696	1.72	PCI/G
3.1.2.E.1	0-15	BETA	28.1	1.79	0.895	1.2484	35.0801	1.65	PCI/G
3.1.3.E.1	0-15	BETA	22.1	1.44	0.72	1.9290	42.6312	1.20	PCI/G
3.1.4.R.1	0-15	BETA	20.8	1.99	0.995	1.0101	21.0096	2.65	PCI/G
3.1.5.R.1	0-15	BETA	20.5	1.65	0.825	1.4692	30.1194	1.82	PCI/G
3.1.6.R.1	0-15	BETA	15.3	3.82	1.91	0.2741	4.1940	4.05	PCI/G
3.1.7.R.1	0-15	BETA	25.2	3.5	1.75	0.3265	8.2286	2.93	PCI/G
3.1.8.R.1	0-15	BETA	21.3	3.21	1.605	0.3882	8.2686	3.97	PCI/G
3.1.9.E.1	0-15	BETA	11.6	2.53	1.265	0.6249	7.2490	2.58	PCI/G
3.1.10.E.1	0-15	BETA	21.5	3.74	1.87	0.2860	6.1483	4.48	PCI/G
3.1.11.E.1	0-15	BETA	21	2.81	1.405	0.5066	10.6382	3.25	PCI/G
3.1.12.E.1	0-15	BETA	26.4	3.4	1.7	0.3460	9.1349	4.01	PCI/G
3.1.13.R.1	0-15	BETA	16.3	2.09	1.045	0.9157	14.9264	2.47	PCI/G
3.1.14.R.1	0-15	BETA	20	2.46	1.23	0.6610	13.2196	3.06	PCI/G
3.1.15.R.1	0-15	BETA	21.7	2.71	1.355	0.5447	11.8190	3.36	PCI/G
3.1.16.R.1	0-15	BETA	21.7	2.59	1.295	0.5963	12.9396	2.91	PCI/G
3.1.17.R.1	0-15	BETA	24.4	2.64	1.32	0.5739	14.0037	3.11	PCI/G
3.1.18.R.1	0-15	BETA	23.5	2.39	1.195	0.7003	16.4563	2.63	PCI/G
3.1.19.R.1	0-15	BETA	19.9	2.73	1.365	0.5367	10.6804	3.13	PCI/G
3.1.20.R.1	0-15	BETA	21.6	2.76	1.38	0.5251	11.3422	3.03	PCI/G
3.1.21.R.1	0-15	BETA	23	3.05	1.525	0.4300	9.8898	3.31	PCI/G
3.1.22.R.1	0-15	BETA	25.4	3.09	1.545	0.4189	10.6409	3.20	PCI/G
3.1.23.R.1	0-15	BETA	22.8	3.44	1.72	0.3380	7.7069	4.23	PCI/G
3.1.24.R.1	0-15	BETA	21.2	3.25	1.625	0.3787	8.0284	3.39	PCI/G

Average:      22.07                      1 Sigma:      0.248

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.2	15-30	BETA	25.7	1.68	0.84	1.4172	36.4229	1.68	PCI/G
3.1.2.E.2	15-30	BETA	27.8	1.76	0.88	1.2913	35.8988	1.75	PCI/G
3.1.3.E.2	15-30	BETA	28.5	2.05	1.025	0.9518	27.1267	2.51	PCI/G
3.1.4.R.2	15-30	BETA	22.7	1.71	0.855	1.3679	31.0523	1.82	PCI/G
3.1.5.R.2	15-30	BETA	25.8	3.69	1.845	0.2938	7.5793	2.84	PCI/G
3.1.6.R.2	15-30	BETA	30.2	3.66	1.83	0.2986	9.0179	2.21	PCI/G
3.1.7.R.2	15-30	BETA	25.7	4.32	2.16	0.2143	5.5084	2.98	PCI/G
3.1.8.R.2	15-30	BETA	27.8	4	2	0.2500	6.9500	3.97	PCI/G
3.1.9.E.2	15-30	BETA	28.2	4.16	2.08	0.2311	6.5181	3.88	PCI/G
3.1.10.E.2	15-30	BETA	22.4	2.95	1.475	0.4596	10.2959	3.27	PCI/G
3.1.11.E.2	15-30	BETA	23.1	3.44	1.72	0.3380	7.8083	4.18	PCI/G
3.1.12.E.2	15-30	BETA	26.2	3.18	1.59	0.3956	10.3635	2.87	PCI/G
3.1.13.R.2	15-30	BETA	21.9	2.9	1.45	0.4756	10.4162	2.54	PCI/G
3.1.14.R.2	15-30	BETA	19.6	2.47	1.235	0.6556	12.8506	2.29	PCI/G
3.1.15.R.2	15-30	BETA	23.7	2.89	1.445	0.4789	11.3504	2.82	PCI/G
3.1.16.R.2	15-30	BETA	17	2.71	1.355	0.5447	9.2591	2.56	PCI/G
3.1.17.R.2	15-30	BETA	17.9	3.27	1.635	0.3741	6.6960	2.92	PCI/G
3.1.18.R.2	15-30	BETA	17.3	2.52	1.26	0.6299	10.8970	2.77	PCI/G
3.1.19.R.2	15-30	BETA	17.8	3	1.5	0.4444	7.9111	2.86	PCI/G
3.1.21.R.2	15-30	BETA	24.1	3.57	1.785	0.3139	7.5638	3.40	PCI/G
3.1.22.R.2	15-30	BETA	30.8	3.49	1.745	0.3284	10.1149	2.56	PCI/G
3.1.23.R.2	15-30	BETA	24.2	3.26	1.63	0.3764	9.1084	2.30	PCI/G
3.1.24.R.2	15-30	BETA	22.3	3.36	1.68	0.3543	7.9011	3.35	PCI/G

Average: 23.92      1 Sigma: 0.283

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.3	30-60	BETA	23.2	1.54	0.77	1.6866	39.1297	1.57	PCI/G

Average: 23.2      1 Sigma: 0.770

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.4	60-100	BETA	21.6	2.76	1.38	0.5251	11.3422	2.85	PCI/G
3.1.2.E.4	60-100	BETA	26.5	1.88	0.94	1.1317	29.9909	2.13	PCI/G
3.1.3.E.4	60-100	BETA	26	1.75	0.875	1.3061	33.9592	1.76	PCI/G
3.1.4.R.4	60-100	BETA	20.2	1.42	0.71	1.9837	40.0714	1.35	PCI/G

Average: 23.3      1 Sigma: 0.450



## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.1	0-15	Cesium-137	1.23	0.144	0.072	192.9012	237.2685	0.0838	PCI/G
3.1.2.E.1	0-15	Cesium-137	1.29	0.178	0.089	126.2467	162.8582	0.140	PCI/G
3.1.3.E.1	0-15	Cesium-137	1.24	0.122	0.061	268.7450	333.2438	0.0719	PCI/G
3.1.4.R.1	0-15	Cesium-137	0.762	0.0927	0.04635	465.4795	354.6953	0.0697	PCI/G
3.1.5.R.1	0-15	Cesium-137	1.11	0.124	0.062	260.1457	288.7617	0.0731	PCI/G
3.1.6.R.1	0-15	Cesium-137	1.04	0.092	0.046	472.5898	491.4934	0.0633	PCI/G
3.1.7.R.1	0-15	Cesium-137	1.17	0.175	0.0875	130.6122	152.8163	0.103	PCI/G
3.1.8.R.1	0-15	Cesium-137	0.952	0.137	0.0685	213.1174	202.8877	0.105	PCI/G
3.1.9.E.1	0-15	Cesium-137	1.36	0.157	0.0785	162.2784	220.6986	0.105	PCI/G
3.1.10.E.1	0-15	Cesium-137	1.16	0.156	0.078	164.3655	190.6640	0.0979	PCI/G
3.1.11.E.1	0-15	Cesium-137	0.984	0.0988	0.0494	409.7756	403.2192	0.0738	PCI/G
3.1.12.E.1	0-15	Cesium-137	1.05	0.12	0.06	277.7778	291.6667	0.0736	PCI/G
3.1.13.R.1	0-15	Cesium-137	0.966	0.126	0.063	251.9526	243.3862	0.107	PCI/G
3.1.14.R.1	0-15	Cesium-137	1.36	0.128	0.064	244.1406	332.0313	0.085	PCI/G
3.1.15.R.1	0-15	Cesium-137	1.28	0.158	0.079	160.2307	205.0953	0.0961	PCI/G
3.1.16.R.1	0-15	Cesium-137	1.75	0.161	0.0805	154.3150	270.0513	0.0756	PCI/G
3.1.17.R.1	0-15	Cesium-137	0.935	0.133	0.0665	226.1292	211.4308	0.0906	PCI/G
3.1.18.R.1	0-15	Cesium-137	1.12	0.127	0.0635	248.0005	277.7606	0.0633	PCI/G
3.1.19.R.1	0-15	Cesium-137	1.07	0.109	0.0545	336.6720	360.2390	0.0739	PCI/G
3.1.20.R.1	0-15	Cesium-137	0.414	0.089	0.0445	504.9867	209.0645	0.0777	PCI/G
3.1.21.R.1	0-15	Cesium-137	0.824	0.112	0.056	318.8776	262.7551	0.086	PCI/G
3.1.22.R.1	0-15	Cesium-137	1.15	0.121	0.0605	273.2054	314.1862	0.0595	PCI/G
3.1.23.R.1	0-15	Cesium-137	1.39	0.155	0.0775	166.4932	231.4256	0.116	PCI/G
3.1.24.R.1	0-15	Cesium-137	1.65	0.12	0.06	277.7778	458.3333	0.0529	PCI/G

Average:      1.06                      1 Sigma:      0.013

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.2	15-30	Cesium-137	1.94	0.184	0.092	118.1474	229.2060	0.0985	PCI/G
3.1.2.E.2	15-30	Cesium-137	2.83	0.202	0.101	98.0296	277.4238	0.0876	PCI/G
3.1.3.E.2	15-30	Cesium-137	1.54	0.159	0.0795	158.2216	243.6612	0.121	PCI/G
3.1.4.R.2	15-30	Cesium-137	1.13	0.12	0.06	277.7778	313.8889	0.0632	PCI/G
3.1.5.R.2	15-30	Cesium-137	0.94	0.14	0.07	204.0816	191.8367	0.0887	PCI/G
3.1.6.R.2	15-30	Cesium-137	2.52	0.19	0.095	110.8033	279.2244	0.0834	PCI/G
3.1.7.R.2	15-30	Cesium-137	0.869	0.142	0.071	198.3733	172.3864	0.0946	PCI/G
3.1.8.R.2	15-30	Cesium-137	0.972	0.117	0.0585	292.2054	284.0237	0.0796	PCI/G
3.1.9.E.2	15-30	Cesium-137	1.85	0.178	0.089	126.2467	233.5564	0.113	PCI/G
3.1.10.E.2	15-30	Cesium-137	1.45	0.167	0.0835	143.4257	207.9673	0.0872	PCI/G
3.1.11.E.2	15-30	Cesium-137	1.35	0.136	0.068	216.2630	291.9550	0.0821	PCI/G
3.1.12.E.2	15-30	Cesium-137	1.43	0.117	0.0585	292.2054	417.8538	0.0674	PCI/G
3.1.13.R.2	15-30	Cesium-137	0.991	0.123	0.0615	264.3929	262.0134	0.0733	PCI/G
3.1.14.R.2	15-30	Cesium-137	1.27	0.0964	0.0482	430.4334	546.6504	0.0564	PCI/G
3.1.15.R.2	15-30	Cesium-137	1.72	0.14	0.07	204.0816	351.0204	0.090	PCI/G
3.1.16.R.2	15-30	Cesium-137	2.48	0.176	0.088	129.1322	320.2479	0.074	PCI/G
3.1.17.R.2	15-30	Cesium-137	0.742	0.107	0.0535	349.3755	259.2366	0.0879	PCI/G
3.1.18.R.2	15-30	Cesium-137	1.83	0.16	0.08	156.2500	285.9375	0.0837	PCI/G
3.1.19.R.2	15-30	Cesium-137	1.46	0.152	0.076	173.1302	252.7701	0.0917	PCI/G
3.1.21.R.2	15-30	Cesium-137	1.24	0.122	0.061	268.7450	333.2438	0.0765	PCI/G
3.1.22.R.2	15-30	Cesium-137	1.37	0.178	0.089	126.2467	172.9580	0.111	PCI/G
3.1.23.R.2	15-30	Cesium-137	1.64	0.161	0.0805	154.3150	253.0767	0.0903	PCI/G
3.1.24.R.2	15-30	Cesium-137	1.56	0.17	0.085	138.4083	215.9170	0.096	PCI/G

Average: 1.38      1 Sigma: 0.015

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.3	30-60	Cesium-137	2.18	0.173	0.0865	133.6496	291.3562	0.0805	PCI/G

Average: 2.18      1 Sigma: 0.087

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.1.1.E.4	60-100	Cesium-137	0.315	0.0979	0.04895	417.3444	131.4635	0.0869	PCI/G
3.1.2.E.4	60-100	Cesium-137	0	0.0628	0.0314	1014.2399	0.0000	0.134	PCI/G
3.1.3.E.4	60-100	Cesium-137	0.178	0.091	0.0455	483.0335	85.9800	0.0874	PCI/G
3.1.4.R.4	60-100	Cesium-137	0.821	0.0951	0.04755	442.2817	363.1133	0.064	PCI/G

Average: 0.246      1 Sigma: 0.021

### Sub-Area 3.2

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.1.R.1	0-15	ALPHA	14.7	4.11	2.055	0.2368	3.4809	3.45	PCI/G
3.2.2.R.1	0-15	ALPHA	12.6	3.79	1.895	0.2785	3.5087	3.83	PCI/G
3.2.3.R.1	0-15	ALPHA	15.1	4.45	2.225	0.2020	3.0501	3.90	PCI/G
3.2.4.R.1	0-15	ALPHA	10.3	3.6	1.8	0.3086	3.1790	3.90	PCI/G

Average: 12.89      1 Sigma: 0.987

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.3	30-60	ALPHA	11.5	3.65	1.825	0.3002	3.4528	3.82	PCI/G

Average: 11.5      1 Sigma: 1.825

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.4	60-100	ALPHA	7.79	3.14	1.57	0.4057	3.1604	3.84	PCI/G

Average: 7.79      1 Sigma: 1.570

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.1.R.1	0-15	BETA	22.9	3.59	1.795	0.3104	7.1073	3.73	PCI/G
3.2.2.R.1	0-15	BETA	18.5	2.88	1.44	0.4823	8.9217	2.64	PCI/G
3.2.3.R.1	0-15	BETA	15	3.82	1.91	0.2741	4.1117	4.91	PCI/G
3.2.4.R.1	0-15	BETA	19.1	3.1	1.55	0.4162	7.9501	2.93	PCI/G

Average: 18.94      1 Sigma: 0.821

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.3	30-60	BETA	19.4	3.13	1.565	0.4083	7.9209	3.13	PCI/G

Average: 19.4      1 Sigma: 1.565

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.4	60-100	BETA	22.1	3.13	1.565	0.4083	9.0233	3.06	PCI/G

Average: 22.1      1 Sigma: 1.565

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.1.R.1	0-15	Cesium-137	0.468	0.126	0.063	251.9526	117.9138	0.0895	PCI/G
3.2.2.R.1	0-15	Cesium-137	0.597	0.0934	0.0467	458.5284	273.7415	0.0888	PCI/G
3.2.3.R.1	0-15	Cesium-137	0.527	0.0938	0.0469	454.6260	239.5879	0.0788	PCI/G
3.2.4.R.1	0-15	Cesium-137	0.556	0.0885	0.04425	510.7089	283.9542	0.0692	PCI/G

Average: 0.546      1 Sigma: 0.024

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.3	30-60	Cesium-137	0.129	0.0839	0.04195	568.2456	73.3037	0.105	PCI/G

Average: 0.129      1 Sigma: 0.042

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
3.2.4.R.4	60-100	Cesium-137	0.0806	0.0521	0.02605	1473.6167	118.7735	0.0878	PCI/G

Average: 0.0806      1 Sigma: 0.026

## Appendix H2: Soil Analysis

### Area 4

#### Sub-Area 4.1

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.1	0-15	ALPHA	19.8	5.17	2.585	0.150	2.963	3.89	PCI/G
4.1.B.R.1.1	0-15	ALPHA	18.4	5.12	2.560	0.153	2.808	3.97	PCI/G
4.1.B.R.2.1	0-15	ALPHA	21.9	5.64	2.820	0.126	2.754	4	PCI/G
4.1.B.R.3.1	0-15	ALPHA	15.7	4.7	2.350	0.181	2.843	3.93	PCI/G
4.1.B.R.4.1	0-15	ALPHA	12.3	3.78	1.890	0.280	3.443	3.91	PCI/G
4.1.B.R.5.1	0-15	ALPHA	15.4	4.08	2.040	0.240	3.700	3.97	PCI/G
4.1.B.R.6.1	0-15	ALPHA	9.06	3.35	1.675	0.356	3.229	3.91	PCI/G
4.1.B.R.7.1	0-15	ALPHA	21.9	6.07	3.035	0.109	2.378	3.98	PCI/G
4.1.B.R.8.1	0-15	ALPHA	11.2	3.61	1.805	0.307	3.438	3.82	PCI/G
4.1.C.R.1.1	0-15	ALPHA	15.5	4.24	2.120	0.222	3.449	3.99	PCI/G
4.1.C.R.2.1	0-15	ALPHA	13	4.04	2.020	0.245	3.186	3.87	PCI/G
4.1.C.R.3.1	0-15	ALPHA	12.6	3.83	1.915	0.273	3.436	3.82	PCI/G
4.1.C.R.4.1	0-15	ALPHA	17.8	4.14	2.070	0.233	4.154	3.9	PCI/G
4.1.C.R.5.1	0-15	ALPHA	15.2	4.77	2.385	0.176	2.672	3.93	PCI/G
4.1.C.R.6.1	0-15	ALPHA	14.9	4.16	2.080	0.231	3.444	3.79	PCI/G
4.1.C.R.7.1	0-15	ALPHA	20.1	4.95	2.475	0.163	3.281	3.79	PCI/G
4.1.C.R.8.1	0-15	ALPHA	14.8	4.53	2.265	0.195	2.885	3.79	PCI/G
4.1.C.R.9.1	0-15	ALPHA	18.1	5.1	2.550	0.154	2.784	3.9	PCI/G
4.1.D.R.1.1	0-15	ALPHA	11.8	4.13	2.065	0.235	2.767	3.94	PCI/G
4.1.D.R.2.1	0-15	ALPHA	13.2	3.26	1.630	0.376	4.968	3.06	PCI/G
4.1.D.R.3.1	0-15	ALPHA	17.1	3.89	1.945	0.264	4.520	3.44	PCI/G
4.1.D.R.4.1	0-15	ALPHA	8.86	3.51	1.755	0.325	2.877	3.9	PCI/G
4.1.D.R.5.1	0-15	ALPHA	13.6	3.43	1.715	0.340	4.624	3.92	PCI/G
4.1.D.R.6.1	0-15	ALPHA	18.2	4.04	2.020	0.245	4.460	3.89	PCI/G

Average:            14.53            1 Sigma:            0.423

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.2	15-30	ALPHA	15	3.93	1.965	0.259	3.885	3.99	PCI/G
4.1.B.R.1.2	15-30	ALPHA	13.1	3.68	1.840	0.295	3.869	3.94	PCI/G
4.1.B.R.7.2	15-30	ALPHA	20.6	3.58	1.790	0.312	6.429	3.98	PCI/G
4.1.D.R.3.2	15-30	ALPHA	14.2	3.46	1.730	0.334	4.745	3.42	PCI/G
4.1.B.R.2.2	15-30	ALPHA	18.1	4.09	2.045	0.239	4.328	3.87	PCI/G
4.1.B.R.3.2	15-30	ALPHA	12.9	3.69	1.845	0.294	3.790	3.88	PCI/G
4.1.B.R.4.2	15-30	ALPHA	11.5	3.23	1.615	0.383	4.409	3.9	PCI/G
4.1.B.R.5.2	15-30	ALPHA	13.5	3.89	1.945	0.264	3.569	3.99	PCI/G
4.1.B.R.6.2	15-30	ALPHA	11.8	3.35	1.675	0.356	4.206	3.97	PCI/G
4.1.B.R.8.2	15-30	ALPHA	12.6	3.74	1.870	0.286	3.603	3.97	PCI/G
4.1.C.R.1.2	15-30	ALPHA	14.5	3.9	1.950	0.263	3.813	3.86	PCI/G
4.1.C.R.2.2	15-30	ALPHA	27.4	5.24	2.620	0.146	3.992	3.87	PCI/G
4.1.C.R.3.2	15-30	ALPHA	11.1	3.36	1.680	0.354	3.933	3.84	PCI/G
4.1.C.R.4.2	15-30	ALPHA	17.3	4.31	2.155	0.215	3.725	3.89	PCI/G
4.1.C.R.5.2	15-30	ALPHA	22.2	5.41	2.705	0.137	3.034	3.98	PCI/G
4.1.C.R.6.2	15-30	ALPHA	13.4	4.1	2.050	0.238	3.189	3.92	PCI/G
4.1.C.R.7.2	15-30	ALPHA	16.3	4.33	2.165	0.213	3.478	3.85	PCI/G
4.1.C.R.8.2	15-30	ALPHA	13.8	3.97	1.985	0.254	3.502	3.95	PCI/G
4.1.C.R.9.2	15-30	ALPHA	15.2	3.64	1.820	0.302	4.589	3.92	PCI/G
4.1.D.R.1.2	15-30	ALPHA	12.3	3.92	1.960	0.260	3.202	3.84	PCI/G
4.1.D.R.2.2	15-30	ALPHA	11.4	3.89	1.945	0.264	3.013	3.8	PCI/G
4.1.D.R.4.2	15-30	ALPHA	16.6	4.48	2.240	0.199	3.308	3.96	PCI/G
4.1.D.R.5.2	15-30	ALPHA	14.2	4.14	2.070	0.233	3.314	3.93	PCI/G
4.1.D.R.6.2	15-30	ALPHA	19.5	4.38	2.190	0.209	4.066	3.88	PCI/G

Average: 14.73 1 Sigma: 0.398

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.3	30-60	ALPHA	11.7	3.75	1.875	0.284	3.328	3.78	PCI/G
4.1.B.R.1.3	30-60	ALPHA	32.3	7.65	3.825	0.068	2.208	3.92	PCI/G
4.1.C.R.1.3	30-60	ALPHA	13.5	3.31	1.655	0.365	4.929	3.93	PCI/G
4.1.C.R.2.3	30-60	ALPHA	13.6	3.46	1.730	0.334	4.544	3.85	PCI/G
4.1.D.R.1.3	30-60	ALPHA	22.6	4.3	2.150	0.216	4.889	3.04	PCI/G
4.1.D.R.2.3	30-60	ALPHA	14.5	2.34	1.170	0.731	10.592	2.41	PCI/G

Average: 15.25 1 Sigma: 0.707

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.4	60-100	ALPHA	13.7	4.39	2.195	0.208	2.843	3.75	PCI/G
4.1.B.R.1.4	60-100	ALPHA	12.3	3.18	1.590	0.396	4.865	3.97	PCI/G
4.1.C.R.1.4	60-100	ALPHA	12	4.38	2.190	0.209	2.502	3.90	PCI/G
4.1.C.R.2.4	60-100	ALPHA	14.6	3.33	1.665	0.361	5.267	2.99	PCI/G
4.1.D.R.1.4	60-100	ALPHA	15.9	3.91	1.955	0.262	4.160	3.92	PCI/G
4.1.D.R.2.4	60-100	ALPHA	11.6	3.25	1.625	0.379	4.393	3.42	PCI/G

Average: 13.26 1 Sigma: 0.743

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.1	0-15	BETA	30.5	4.2	2.100	0.227	6.916	3.96	PCI/G
4.1.B.R.1.1	0-15	BETA	26.2	3.51	1.755	0.325	8.506	2.62	PCI/G
4.1.B.R.2.1	0-15	BETA	28.1	3.74	1.870	0.286	8.036	2.4	PCI/G
4.1.B.R.3.1	0-15	BETA	29.8	4.32	2.160	0.214	6.387	2.71	PCI/G
4.1.B.R.4.1	0-15	BETA	23.5	2.97	1.485	0.453	10.657	4.21	PCI/G
4.1.B.R.5.1	0-15	BETA	30.4	3.45	1.725	0.336	10.216	3.49	PCI/G
4.1.B.R.6.1	0-15	BETA	20.5	3.25	1.625	0.379	7.763	3.24	PCI/G
4.1.B.R.7.1	0-15	BETA	30.1	4.71	2.355	0.180	5.427	2.56	PCI/G
4.1.B.R.8.1	0-15	BETA	22.2	3.62	1.810	0.305	6.776	2.59	PCI/G
4.1.C.R.1.1	0-15	BETA	26.5	3.54	1.770	0.319	8.459	4.21	PCI/G
4.1.C.R.2.1	0-15	BETA	4.11	2.29	1.145	0.763	3.135	2.85	PCI/G
4.1.C.R.3.1	0-15	BETA	30.4	3.35	1.675	0.356	10.835	2.28	PCI/G
4.1.C.R.4.1	0-15	BETA	5.59	1.81	0.905	1.221	6.825	1.97	PCI/G
4.1.C.R.5.1	0-15	BETA	45.9	5.29	2.645	0.143	6.561	2.81	PCI/G
4.1.C.R.6.1	0-15	BETA	25.5	3.28	1.640	0.372	9.481	4.11	PCI/G
4.1.C.R.7.1	0-15	BETA	7.34	2.52	1.260	0.630	4.623	3.58	PCI/G
4.1.C.R.8.1	0-15	BETA	27.9	3.75	1.875	0.284	7.936	3.68	PCI/G
4.1.C.R.9.1	0-15	BETA	25.2	3.52	1.760	0.323	8.135	3.77	PCI/G
4.1.D.R.1.1	0-15	BETA	24.7	3.67	1.835	0.297	7.335	4.07	PCI/G
4.1.D.R.2.1	0-15	BETA	21.4	3.04	1.520	0.433	9.262	2.47	PCI/G
4.1.D.R.3.1	0-15	BETA	25.4	3.02	1.510	0.439	11.140	3.09	PCI/G
4.1.D.R.4.1	0-15	BETA	19.4	3.31	1.655	0.365	7.083	3.25	PCI/G
4.1.D.R.5.1	0-15	BETA	23.2	2.65	1.325	0.570	13.215	3.41	PCI/G
4.1.D.R.6.1	0-15	BETA	23.7	2.87	1.435	0.486	11.509	2.19	PCI/G

Average:            20.22            1 Sigma:            0.321

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.2	15-30	BETA	21.4	2.93	1.465	0.466	9.971	2.61	PCI/G
4.1.B.R.1.2	15-30	BETA	19.7	2.86	1.430	0.489	9.634	3.33	PCI/G
4.1.B.R.7.2	15-30	BETA	25.9	2.14	1.070	0.873	22.622	2.00	PCI/G
4.1.D.R.3.2	15-30	BETA	23	2.53	1.265	0.625	14.373	2.57	PCI/G
4.1.B.R.2.2	15-30	BETA	23.1	3.48	1.740	0.330	7.630	3.64	PCI/G
4.1.B.R.3.2	15-30	BETA	26.8	3.14	1.570	0.406	10.873	2.67	PCI/G
4.1.B.R.4.2	15-30	BETA	24	2.54	1.270	0.620	14.880	2.37	PCI/G
4.1.B.R.5.2	15-30	BETA	24.3	3.63	1.815	0.304	7.377	2.93	PCI/G
4.1.B.R.6.2	15-30	BETA	22	3.12	1.560	0.411	9.040	4.56	PCI/G
4.1.B.R.8.2	15-30	BETA	20.7	2.68	1.340	0.557	11.528	2.77	PCI/G
4.1.C.R.1.2	15-30	BETA	23.7	3.21	1.605	0.388	9.200	2.86	PCI/G
4.1.C.R.2.2	15-30	BETA	27.3	3.04	1.520	0.433	11.816	3.19	PCI/G
4.1.C.R.3.2	15-30	BETA	23.8	3.19	1.595	0.393	9.355	3.22	PCI/G
4.1.C.R.4.2	15-30	BETA	21.5	3.01	1.505	0.441	9.492	3.01	PCI/G
4.1.C.R.5.2	15-30	BETA	27.8	3.61	1.805	0.307	8.533	2.87	PCI/G
4.1.C.R.6.2	15-30	BETA	24.4	3.45	1.725	0.336	8.200	3.03	PCI/G
4.1.C.R.7.2	15-30	BETA	27.4	3.37	1.685	0.352	9.651	2.85	PCI/G
4.1.C.R.8.2	15-30	BETA	21.2	3.18	1.590	0.396	8.386	2.55	PCI/G
4.1.C.R.9.2	15-30	BETA	19.8	2.5	1.250	0.640	12.672	3.4	PCI/G
4.1.D.R.1.2	15-30	BETA	23.8	3.56	1.780	0.316	7.512	2.62	PCI/G
4.1.D.R.2.2	15-30	BETA	27	3.4	1.700	0.346	9.343	3.78	PCI/G
4.1.D.R.4.2	15-30	BETA	23.1	3.84	1.920	0.271	6.266	1.77	PCI/G
4.1.D.R.5.2	15-30	BETA	21	3.3	1.650	0.367	7.713	4.13	PCI/G
4.1.D.R.6.2	15-30	BETA	34.2	3.64	1.820	0.302	10.325	3.34	PCI/G

Average: 23.76 1 Sigma: 0.311

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.3	30-60	BETA	27.4	3.59	1.795	0.310	8.504	3.69	PCI/G
4.1.B.R.1.3	30-60	BETA	20.1	3.65	1.825	0.300	6.035	2.74	PCI/G
4.1.C.R.1.3	30-60	BETA	18.4	2.38	1.190	0.706	12.993	2.93	PCI/G
4.1.C.R.2.3	30-60	BETA	15.9	2.37	1.185	0.712	11.323	2.81	PCI/G
4.1.D.R.1.3	30-60	BETA	22.4	2.59	1.295	0.596	13.357	2.70	PCI/G
4.1.D.R.2.3	30-60	BETA	21.8	1.69	0.845	1.401	30.531	3.52	PCI/G

Average: 20.55 1 Sigma: 0.498

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.4	60-100	BETA	20.1	3.51	1.755	0.325	6.526	2.75	PCI/G
4.1.B.R.1.4	60-100	BETA	21.7	2.16	1.080	0.857	18.604	2.24	PCI/G
4.1.C.R.1.4	60-100	BETA	21.2	3.32	1.660	0.363	7.693	2.68	PCI/G
4.1.C.R.2.4	60-100	BETA	23.5	2.51	1.255	0.635	14.920	2.36	PCI/G
4.1.D.R.1.4	60-100	BETA	23.5	2.58	1.290	0.601	14.122	2.74	PCI/G
4.1.D.R.2.4	60-100	BETA	24.8	2.62	1.310	0.583	14.451	2.63	PCI/G

Average: 22.69 1 Sigma: 0.545

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.1	0-15	Cesium-137	0.386	0.0894	0.045	500.478	193.184	0.0975	PCI/G
4.1.B.R.1.1	0-15	Cesium-137	0.648	0.0815	0.041	602.206	390.229	0.0597	PCI/G
4.1.B.R.2.1	0-15	Cesium-137	0.52	0.119	0.060	282.466	146.882	0.0997	PCI/G
4.1.B.R.3.1	0-15	Cesium-137	0.817	0.128	0.064	244.141	199.463	0.11	PCI/G
4.1.B.R.4.1	0-15	Cesium-137	2.06	0.157	0.079	162.278	334.293	0.0978	PCI/G
4.1.B.R.5.1	0-15	Cesium-137	1.99	0.185	0.093	116.874	232.579	0.103	PCI/G
4.1.B.R.6.1	0-15	Cesium-137	0.424	0.101	0.051	392.118	166.258	0.0842	PCI/G
4.1.B.R.7.1	0-15	Cesium-137	0.218	0.133	0.067	226.129	49.296	0.16	PCI/G
4.1.B.R.8.1	0-15	Cesium-137	0.688	0.123	0.062	264.393	181.902	0.0905	PCI/G
4.1.C.R.1.1	0-15	Cesium-137	1.85	0.196	0.098	104.123	192.628	0.106	PCI/G
4.1.C.R.2.1	0-15	Cesium-137	2.03	0.195	0.098	105.194	213.544	0.0924	PCI/G
4.1.C.R.3.1	0-15	Cesium-137	1.92	0.172	0.086	135.208	259.600	0.0812	PCI/G
4.1.C.R.4.1	0-15	Cesium-137	0.537	0.0904	0.045	489.467	262.844	0.0731	PCI/G
4.1.C.R.5.1	0-15	Cesium-137	0.28	0.0829	0.041	582.037	162.970	0.102	PCI/G
4.1.C.R.6.1	0-15	Cesium-137	1.82	0.16	0.080	156.250	284.375	0.0953	PCI/G
4.1.C.R.7.1	0-15	Cesium-137	0.596	0.111	0.056	324.649	193.491	0.0823	PCI/G
4.1.C.R.8.1	0-15	Cesium-137	1.3	0.127	0.064	248.000	322.401	0.0706	PCI/G
4.1.C.R.9.1	0-15	Cesium-137	1.42	0.158	0.079	160.231	227.528	0.0859	PCI/G
4.1.D.R.1.1	0-15	Cesium-137	1.05	0.148	0.074	182.615	191.746	0.0961	PCI/G
4.1.D.R.2.1	0-15	Cesium-137	1.4	0.141	0.071	201.197	281.676	0.0856	PCI/G
4.1.D.R.3.1	0-15	Cesium-137	0.203	0.107	0.054	349.375	70.923	0.0724	PCI/G
4.1.D.R.4.1	0-15	Cesium-137	0.443	0.109	0.055	336.672	149.146	0.0785	PCI/G
4.1.D.R.5.1	0-15	Cesium-137	0.869	0.101	0.051	392.118	340.751	0.0667	PCI/G
4.1.D.R.6.1	0-15	Cesium-137	0.884	0.11	0.055	330.579	292.231	0.0777	PCI/G

Average: 0.78      1 Sigma: 0.012



Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.A.R.1.2	15-30	Cesium-137	0.363	0.125	0.063	256.000	92.928	0.0861	PCI/G
4.1.B.R.1.2	15-30	Cesium-137	0.562	0.104	0.052	369.822	207.840	0.0892	PCI/G
4.1.B.R.7.2	15-30	Cesium-137	0.209	0.0662	0.033	912.734	190.761	0.0653	PCI/G
4.1.D.R.3.2	15-30	Cesium-137	0.255	0.0833	0.042	576.461	146.998	0.0782	PCI/G
4.1.B.R.2.2	15-30	Cesium-137	0.354	0.109	0.055	336.672	119.182	0.0967	PCI/G
4.1.B.R.3.2	15-30	Cesium-137	1.55	0.17	0.085	138.408	214.533	0.0885	PCI/G
4.1.B.R.4.2	15-30	Cesium-137	1.03	0.122	0.061	268.745	276.807	0.0622	PCI/G
4.1.B.R.5.2	15-30	Cesium-137	2.22	0.185	0.093	116.874	259.459	0.0961	PCI/G
4.1.B.R.6.2	15-30	Cesium-137	0.437	0.0786	0.039	647.463	282.941	0.0791	PCI/G
4.1.B.R.8.2	15-30	Cesium-137	0.697	0.126	0.063	251.953	175.611	0.0857	PCI/G
4.1.C.R.1.2	15-30	Cesium-137	0.874	0.117	0.059	292.205	255.388	0.0847	PCI/G
4.1.C.R.2.2	15-30	Cesium-137	0.842	0.139	0.070	207.029	174.318	0.0807	PCI/G
4.1.C.R.3.2	15-30	Cesium-137	2.01	0.13	0.065	236.686	475.740	0.07	PCI/G
4.1.C.R.4.2	15-30	Cesium-137	1.8	0.16	0.080	156.250	281.250	0.0868	PCI/G
4.1.C.R.5.2	15-30	Cesium-137	0.32	0.133	0.067	226.129	72.361	0.138	PCI/G
4.1.C.R.6.2	15-30	Cesium-137	0.922	0.119	0.060	282.466	260.434	0.0752	PCI/G
4.1.C.R.7.2	15-30	Cesium-137	1.34	0.157	0.079	162.278	217.453	0.0997	PCI/G
4.1.C.R.8.2	15-30	Cesium-137	0.969	0.121	0.061	273.205	264.736	0.0705	PCI/G
4.1.C.R.9.2	15-30	Cesium-137	0.7	0.131	0.066	233.087	163.161	0.0823	PCI/G
4.1.D.R.1.2	15-30	Cesium-137	2.88	0.195	0.098	105.194	302.959	0.0842	PCI/G
4.1.D.R.2.2	15-30	Cesium-137	2.73	0.2	0.100	100.000	273.000	0.104	PCI/G
4.1.D.R.4.2	15-30	Cesium-137	0.972	0.139	0.070	207.029	201.232	0.0769	PCI/G
4.1.D.R.5.2	15-30	Cesium-137	0.94	0.12	0.060	277.778	261.111	0.075	PCI/G
4.1.D.R.6.2	15-30	Cesium-137	4.72	0.218	0.109	84.168	397.273	0.0907	PCI/G

**Average:** 0.83      1 Sigma: 0.012

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.3	30-60	Cesium-137	0.112	0.0592	0.030	1141.344	127.831	0.0615	PCI/G
4.1.B.R.1.3	30-60	Cesium-137	0	0.0883	0.044	513.025	0.000	0.0595	PCI/G
4.1.C.R.1.3	30-60	Cesium-137	0.155	0.0586	0.029	1164.836	180.550	0.0573	PCI/G
4.1.C.R.2.3	30-60	Cesium-137	0.267	0.104	0.052	369.822	98.743	0.0762	PCI/G
4.1.D.R.1.3	30-60	Cesium-137	1.44	0.141	0.071	201.197	289.724	0.0816	PCI/G
4.1.D.R.2.3	30-60	Cesium-137	1.17	0.126	0.063	251.953	294.785	0.0641	PCI/G

**Average:** 0.27      1 Sigma: 0.017

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.1.B.R.2.4	60-100	Cesium-137	0.0418	0.0463	0.023	1865.941	77.996	0.069	PCI/G
4.1.B.R.1.4	60-100	Cesium-137	0.00714	0.0487	0.024	1686.561	12.042	0.0919	PCI/G
4.1.C.R.1.4	60-100	Cesium-137	0.0344	0.0386	0.019	2684.636	92.351	0.0791	PCI/G
4.1.C.R.2.4	60-100	Cesium-137	0.189	0.0961	0.048	433.125	81.861	0.0837	PCI/G
4.1.D.R.1.4	60-100	Cesium-137	0.31	0.0918	0.046	474.651	147.142	0.0698	PCI/G
4.1.D.R.2.4	60-100	Cesium-137	0.364	0.102	0.051	384.468	139.946	0.103	PCI/G

**Average:** 0.07      1 Sigma: 0.012

Appendix H2: Soil Analysis

Sub-Area 4.2

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.1	0-15	ALPHA	12.4	3.53	1.765	0.321	3.980	3.89	PCI/G
4.2.A.R.2.1	0-15	ALPHA	16.2	3.45	1.725	0.336	5.444	2.32	PCI/G
4.2.A.R.3.1	0-15	ALPHA	14.4	3.49	1.745	0.328	4.729	3.3	PCI/G
4.2.A.R.4.1	0-15	ALPHA	13.4	3.79	1.895	0.278	3.732	3.91	PCI/G
4.2.B.R.1.1	0-15	ALPHA	13.1	3.63	1.815	0.304	3.977	3.92	PCI/G
4.2.B.R.10.1	0-15	ALPHA	18.3	4.94	2.470	0.164	3.000	3.88	PCI/G
4.2.B.R.11.1	0-15	ALPHA	16.5	4.53	2.265	0.195	3.216	3.79	PCI/G
4.2.B.R.12.1	0-15	ALPHA	20.7	5.35	2.675	0.140	2.893	3.92	PCI/G
4.2.B.R.13.1	0-15	ALPHA	13.8	3.98	1.990	0.253	3.485	3.86	PCI/G
4.2.B.R.14.1	0-15	ALPHA	18.8	4.41	2.205	0.206	3.867	3.99	PCI/G
4.2.B.R.15.1	0-15	ALPHA	9.92	3.49	1.745	0.328	3.258	3.87	PCI/G
4.2.B.R.16.1	0-15	ALPHA	14.8	4.79	2.395	0.174	2.580	3.98	PCI/G
4.2.B.R.17.1	0-15	ALPHA	17	4.55	2.275	0.193	3.285	3.82	PCI/G
4.2.B.R.18.1	0-15	ALPHA	18.8	4.54	2.270	0.194	3.648	3.93	PCI/G
4.2.B.R.2.1	0-15	ALPHA	15	4.2	2.100	0.227	3.401	3.93	PCI/G
4.2.B.R.3.1	0-15	ALPHA	16.2	4.05	2.025	0.244	3.951	3.96	PCI/G
4.2.B.R.4.1	0-15	ALPHA	15.5	3.9	1.950	0.263	4.076	3	PCI/G
4.2.B.R.5.1	0-15	ALPHA	11.7	4.41	2.205	0.206	2.406	3.58	PCI/G
4.2.B.R.6.1	0-15	ALPHA	9.74	3.39	1.695	0.348	3.390	3.91	PCI/G
4.2.B.R.7.1	0-15	ALPHA	17.2	4.1	2.050	0.238	4.093	3.89	PCI/G
4.2.B.R.8.1	0-15	ALPHA	18.7	5.55	2.775	0.130	2.428	3.78	PCI/G
4.2.B.R.9.1	0-15	ALPHA	12.1	3.63	1.815	0.304	3.673	3.85	PCI/G
4.2.C.R.1.1	0-15	ALPHA	17.1	3.98	1.990	0.253	4.318	3.6	PCI/G
4.2.C.R.2.1	0-15	ALPHA	18	4.09	2.045	0.239	4.304	3.91	PCI/G

Average: 14.86      1 Sigma: 0.413

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.2	15-30	ALPHA	18.6	4.26	2.130	0.220	4.100	3.89	PCI/G
4.2.A.R.3.2	15-30	ALPHA	19.4	4.17	2.085	0.230	4.463	3.05	PCI/G
4.2.A.R.4.2	15-30	ALPHA	13.3	3.55	1.775	0.317	4.221	4.00	PCI/G
4.2.B.R.1.2	15-30	ALPHA	15.3	4.3	2.150	0.216	3.310	3.92	PCI/G
4.2.B.R.11.2	15-30	ALPHA	13.3	3.5	1.750	0.327	4.343	3.97	PCI/G
4.2.B.R.2.2	15-30	ALPHA	9.08	3.25	1.625	0.379	3.439	3.99	PCI/G
4.2.A.R.2.2	15-30	ALPHA	18.6	4.66	2.330	0.184	3.426	3.83	PCI/G
4.2.B.R.10.2	15-30	ALPHA	15.1	4.23	2.115	0.224	3.376	3.96	PCI/G
4.2.B.R.12.2	15-30	ALPHA	14.7	3.83	1.915	0.273	4.008	3.36	PCI/G
4.2.B.R.13.2	15-30	ALPHA	13.6	4.21	2.105	0.226	3.069	3.81	PCI/G
4.2.B.R.14.2	15-30	ALPHA	19.7	5.17	2.585	0.150	2.948	3.73	PCI/G
4.2.B.R.15.2	15-30	ALPHA	8.24	3.22	1.610	0.386	3.179	3.91	PCI/G
4.2.B.R.16.2	15-30	ALPHA	18.7	4.92	2.460	0.165	3.090	3.96	PCI/G
4.2.B.R.17.2	15-30	ALPHA	14.4	3.68	1.840	0.295	4.253	3.93	PCI/G
4.2.B.R.18.2	15-30	ALPHA	21.7	3.12	1.560	0.411	8.917	3.79	PCI/G
4.2.B.R.3.2	15-30	ALPHA	15.4	3.66	1.830	0.299	4.599	3.91	PCI/G
4.2.B.R.4.2	15-30	ALPHA	16.5	4.43	2.215	0.204	3.363	3.96	PCI/G
4.2.B.R.5.2	15-30	ALPHA	19.2	5.02	2.510	0.159	3.048	3.98	PCI/G
4.2.B.R.6.2	15-30	ALPHA	15.1	4.12	2.060	0.236	3.558	3.9	PCI/G
4.2.B.R.7.2	15-30	ALPHA	14.4	4.5	2.250	0.198	2.844	3.68	PCI/G
4.2.B.R.8.2	15-30	ALPHA	17	4.09	2.045	0.239	4.065	3.87	PCI/G
4.2.B.R.9.2	15-30	ALPHA	16.7	3.89	1.945	0.264	4.414	3.77	PCI/G
4.2.C.R.1.2	15-30	ALPHA	15.2	4.01	2.005	0.249	3.781	3.84	PCI/G
4.2.C.R.2.2	15-30	ALPHA	15.4	4.38	2.190	0.209	3.211	3.14	PCI/G

Average: 15.36 1 Sigma: 0.406

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.3	30-60	ALPHA	13.6	3.61	1.805	0.307	4.174	3.93	PCI/G
4.2.A.R.1.3	30-60	ALPHA	17.6	4.06	2.030	0.243	4.271	3.43	PCI/G
4.2.A.R.2.3	30-60	ALPHA	17.1	4.66	2.330	0.184	3.150	3.84	PCI/G
4.2.B.R.1.3	30-60	ALPHA	7.1	2.95	1.475	0.460	3.263	3.98	PCI/G
4.2.B.R.2.3	30-60	ALPHA	8.46	3.09	1.545	0.419	3.544	3.90	PCI/G
4.2.C.R.1.3	30-60	ALPHA	15.3	4.06	2.030	0.243	3.713	3.94	PCI/G

Average: 11.92 1 Sigma: 0.734

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.4	60-100	ALPHA	9.46	3.02	1.510	0.439	4.149	3.85	PCI/G
4.2.A.R.1.4	60-100	ALPHA	19	4.27	2.135	0.219	4.168	3.92	PCI/G
4.2.A.R.2.4	60-100	ALPHA	16.1	3.81	1.905	0.276	4.436	3.52	PCI/G
4.2.B.R.1.4	60-100	ALPHA	12.9	3.42	1.710	0.342	4.412	3.86	PCI/G
4.2.B.R.2.4	60-100	ALPHA	16.1	4.31	2.155	0.215	3.467	3.87	PCI/G
4.2.C.R.1.4	60-100	ALPHA	12.2	4.79	2.395	0.174	2.127	3.89	PCI/G

Average: 13.67 1 Sigma: 0.775

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.1	0-15	BETA	25.4	3.16	1.580	0.401	10.175	2.44	PCI/G
4.2.A.R.2.1	0-15	BETA	27.4	3.12	1.560	0.411	11.259	2.88	PCI/G
4.2.A.R.3.1	0-15	BETA	28.5	3.1	1.550	0.416	11.863	3.84	PCI/G
4.2.A.R.4.1	0-15	BETA	14.1	2.27	1.135	0.776	10.945	3.83	PCI/G
4.2.B.R.1.1	0-15	BETA	24.7	3.08	1.540	0.422	10.415	4.03	PCI/G
4.2.B.R.10.1	0-15	BETA	28.6	3.69	1.845	0.294	8.402	3.41	PCI/G
4.2.B.R.11.1	0-15	BETA	24.7	3.81	1.905	0.276	6.806	4.55	PCI/G
4.2.B.R.12.1	0-15	BETA	22.8	3.74	1.870	0.286	6.520	5.01	PCI/G
4.2.B.R.13.1	0-15	BETA	23.1	3.17	1.585	0.398	9.195	3.33	PCI/G
4.2.B.R.14.1	0-15	BETA	26.3	3.52	1.760	0.323	8.490	2.71	PCI/G
4.2.B.R.15.1	0-15	BETA	22.4	3.12	1.560	0.411	9.204	4.09	PCI/G
4.2.B.R.16.1	0-15	BETA	27.1	4.22	2.110	0.225	6.087	2.39	PCI/G
4.2.B.R.17.1	0-15	BETA	26.6	3.78	1.890	0.280	7.447	3.49	PCI/G
4.2.B.R.18.1	0-15	BETA	29.1	3.62	1.810	0.305	8.883	3.58	PCI/G
4.2.B.R.2.1	0-15	BETA	26.4	3.67	1.835	0.297	7.840	3.58	PCI/G
4.2.B.R.3.1	0-15	BETA	14.2	2.34	1.170	0.731	10.373	2.14	PCI/G
4.2.B.R.4.1	0-15	BETA	27	3.03	1.515	0.436	11.764	2.42	PCI/G
4.2.B.R.5.1	0-15	BETA	19.5	4.03	2.015	0.246	4.803	3.32	PCI/G
4.2.B.R.6.1	0-15	BETA	26.1	3.04	1.520	0.433	11.297	3.05	PCI/G
4.2.B.R.7.1	0-15	BETA	25.1	2.64	1.320	0.574	14.405	3.15	PCI/G
4.2.B.R.8.1	0-15	BETA	22.5	4.48	2.240	0.199	4.484	1.98	PCI/G
4.2.B.R.9.1	0-15	BETA	22.6	2.96	1.480	0.457	10.318	2.85	PCI/G
4.2.C.R.1.1	0-15	BETA	25.2	2.84	1.420	0.496	12.498	2.66	PCI/G
4.2.C.R.2.1	0-15	BETA	27.8	2.68	1.340	0.557	15.482	3.46	PCI/G

Average: 23.73 1 Sigma: 0.322

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.2	15-30	BETA	25	2.91	1.455	0.472	11.809	2.87	PCI/G
4.2.A.R.3.2	15-30	BETA	21.2	2.5	1.250	0.640	13.568	2.73	PCI/G
4.2.A.R.4.2	15-30	BETA	21	2.4	1.200	0.694	14.583	2.39	PCI/G
4.2.B.R.1.2	15-30	BETA	25.3	3.08	1.540	0.422	10.668	2.50	PCI/G
4.2.B.R.11.2	15-30	BETA	20.6	2.3	1.150	0.756	15.577	2.01	PCI/G
4.2.B.R.2.2	15-30	BETA	18.8	2.53	1.265	0.625	11.748	2.56	PCI/G
4.2.A.R.2.2	15-30	BETA	26.8	3.45	1.725	0.336	9.007	3.87	PCI/G
4.2.B.R.10.2	15-30	BETA	25.9	3.75	1.875	0.284	7.367	3.36	PCI/G
4.2.B.R.12.2	15-30	BETA	27.7	3.55	1.775	0.317	8.792	2.79	PCI/G
4.2.B.R.13.2	15-30	BETA	27.2	4.04	2.020	0.245	6.666	3.86	PCI/G
4.2.B.R.14.2	15-30	BETA	21.9	3.68	1.840	0.295	6.469	2.56	PCI/G
4.2.B.R.15.2	15-30	BETA	26.1	3.87	1.935	0.267	6.971	3.51	PCI/G
4.2.B.R.16.2	15-30	BETA	24.8	4.39	2.195	0.208	5.147	2.98	PCI/G
4.2.B.R.17.2	15-30	BETA	19	2.62	1.310	0.583	11.072	2.15	PCI/G
4.2.B.R.18.2	15-30	BETA	25	1.86	0.930	1.156	28.905	3.01	PCI/G
4.2.B.R.3.2	15-30	BETA	21.7	2.83	1.415	0.499	10.838	1.85	PCI/G
4.2.B.R.4.2	15-30	BETA	29.5	3.69	1.845	0.294	8.666	3.77	PCI/G
4.2.B.R.5.2	15-30	BETA	22.4	3.86	1.930	0.268	6.014	2.57	PCI/G
4.2.B.R.6.2	15-30	BETA	19.2	2.59	1.295	0.596	11.449	3.86	PCI/G
4.2.B.R.7.2	15-30	BETA	23.1	3.59	1.795	0.310	7.169	2.05	PCI/G
4.2.B.R.8.2	15-30	BETA	63.9	4.6	2.300	0.189	12.079	2.32	PCI/G
4.2.B.R.9.2	15-30	BETA	26.6	3.12	1.560	0.411	10.930	2.72	PCI/G
4.2.C.R.1.2	15-30	BETA	21.9	2.72	1.360	0.541	11.840	3.33	PCI/G
4.2.C.R.2.2	15-30	BETA	24.9	3.43	1.715	0.340	8.466	2.59	PCI/G

Average: 23.79 1 Sigma: 0.305

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.3	30-60	BETA	21	2.29	1.145	0.763	16.018	3.15	PCI/G
4.2.A.R.1.3	30-60	BETA	21.5	2.78	1.390	0.518	11.128	3.23	PCI/G
4.2.A.R.2.3	30-60	BETA	24.3	3.36	1.680	0.354	8.610	3.15	PCI/G
4.2.B.R.1.3	30-60	BETA	16.5	2.16	1.080	0.857	14.146	2.09	PCI/G
4.2.B.R.2.3	30-60	BETA	13.9	2.55	1.275	0.615	8.551	3.32	PCI/G
4.2.C.R.1.3	30-60	BETA	17.4	2.92	1.460	0.469	8.163	3.43	PCI/G

Average: 18.63 1 Sigma: 0.529

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.4	60-100	BETA	18	2.37	1.185	0.712	12.818	4.2	PCI/G
4.2.A.R.1.4	60-100	BETA	19.4	2.44	1.220	0.672	13.034	2.83	PCI/G
4.2.A.R.2.4	60-100	BETA	23.6	2.65	1.325	0.570	13.443	2.83	PCI/G
4.2.B.R.1.4	60-100	BETA	21.8	2.67	1.335	0.561	12.232	3.05	PCI/G
4.2.B.R.2.4	60-100	BETA	16.3	2.92	1.460	0.469	7.647	3.15	PCI/G
4.2.C.R.1.4	60-100	BETA	24	3.81	1.905	0.276	6.613	2.79	PCI/G

Average: 20.18 1 Sigma: 0.554

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.1	0-15	Cesium-137	1.73	0.141	0.071	201.197	348.071	0.0654	PCI/G
4.2.A.R.2.1	0-15	Cesium-137	0.787	0.112	0.056	318.878	250.957	0.0801	PCI/G
4.2.A.R.3.1	0-15	Cesium-137	0.912	0.0795	0.040	632.886	577.192	0.049	PCI/G
4.2.A.R.4.1	0-15	Cesium-137	0.577	0.0719	0.036	773.753	446.455	0.0603	PCI/G
4.2.B.R.1.1	0-15	Cesium-137	1.37	0.0983	0.049	413.955	567.118	0.0571	PCI/G
4.2.B.R.10.1	0-15	Cesium-137	0.284	0.0683	0.034	857.469	243.521	0.0665	PCI/G
4.2.B.R.11.1	0-15	Cesium-137	0.219	0.0963	0.048	431.328	94.461	0.0794	PCI/G
4.2.B.R.12.1	0-15	Cesium-137	0.577	0.161	0.081	154.315	89.040	0.122	PCI/G
4.2.B.R.13.1	0-15	Cesium-137	1.49	0.132	0.066	229.568	342.057	0.0657	PCI/G
4.2.B.R.14.1	0-15	Cesium-137	0.967	0.14	0.070	204.082	197.347	0.0914	PCI/G
4.2.B.R.15.1	0-15	Cesium-137	0.719	0.112	0.056	318.878	229.273	0.0757	PCI/G
4.2.B.R.16.1	0-15	Cesium-137	2.02	0.155	0.078	166.493	336.316	0.0884	PCI/G
4.2.B.R.17.1	0-15	Cesium-137	2.44	0.182	0.091	120.758	294.650	0.0742	PCI/G
4.2.B.R.18.1	0-15	Cesium-137	1.61	0.198	0.099	102.030	164.269	0.122	PCI/G
4.2.B.R.2.1	0-15	Cesium-137	2.93	0.142	0.071	198.373	581.234	0.0692	PCI/G
4.2.B.R.3.1	0-15	Cesium-137	1.93	0.102	0.051	384.468	742.022	0.0432	PCI/G
4.2.B.R.4.1	0-15	Cesium-137	0.816	0.126	0.063	251.953	205.593	0.0871	PCI/G
4.2.B.R.5.1	0-15	Cesium-137	1.63	0.124	0.062	260.146	424.037	0.0747	PCI/G
4.2.B.R.6.1	0-15	Cesium-137	2.01	0.173	0.087	133.650	268.636	0.0911	PCI/G
4.2.B.R.7.1	0-15	Cesium-137	0.873	0.136	0.068	216.263	188.798	0.0988	PCI/G
4.2.B.R.8.1	0-15	Cesium-137	1.28	0.124	0.062	260.146	332.986	0.0687	PCI/G
4.2.B.R.9.1	0-15	Cesium-137	0.52	0.109	0.055	336.672	175.069	0.0926	PCI/G
4.2.C.R.1.1	0-15	Cesium-137	2.47	0.189	0.095	111.979	276.588	0.0974	PCI/G
4.2.C.R.2.1	0-15	Cesium-137	2.07	0.156	0.078	164.366	340.237	0.081	PCI/G

Average:            1.07            1 Sigma:            0.012

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.A.R.1.2	15-30	Cesium-137	1.96	0.167	0.084	143.426	281.114	0.0905	PCI/G
4.2.A.R.3.2	15-30	Cesium-137	3.94	0.228	0.114	76.947	303.170	0.0716	PCI/G
4.2.A.R.4.2	15-30	Cesium-137	2.22	0.163	0.082	150.551	334.224	0.0621	PCI/G
4.2.B.R.1.2	15-30	Cesium-137	5.38	0.275	0.138	52.893	284.562	0.0889	PCI/G
4.2.B.R.11.2	15-30	Cesium-137	0.349	0.105	0.053	362.812	126.621	0.0611	PCI/G
4.2.B.R.2.2	15-30	Cesium-137	0.779	0.117	0.059	292.205	227.628	0.058	PCI/G
4.2.A.R.2.2	15-30	Cesium-137	3.85	0.208	0.104	92.456	355.954	0.0705	PCI/G
4.2.B.R.10.2	15-30	Cesium-137	0.239	0.0876	0.044	521.257	124.580	0.0853	PCI/G
4.2.B.R.12.2	15-30	Cesium-137	5.03	0.269	0.135	55.278	278.050	0.103	PCI/G
4.2.B.R.13.2	15-30	Cesium-137	3.11	0.216	0.108	85.734	266.632	0.093	PCI/G
4.2.B.R.14.2	15-30	Cesium-137	2.66	0.171	0.086	136.794	363.873	0.075	PCI/G
4.2.B.R.15.2	15-30	Cesium-137	2.85	0.185	0.093	116.874	333.090	0.0828	PCI/G
4.2.B.R.16.2	15-30	Cesium-137	1.89	0.158	0.079	160.231	302.836	0.0813	PCI/G
4.2.B.R.17.2	15-30	Cesium-137	1.27	0.147	0.074	185.108	235.087	0.126	PCI/G
4.2.B.R.18.2	15-30	Cesium-137	1.89	0.153	0.077	170.874	322.953	0.0802	PCI/G
4.2.B.R.3.2	15-30	Cesium-137	2.72	0.244	0.122	67.186	182.747	0.0923	PCI/G
4.2.B.R.4.2	15-30	Cesium-137	2.94	0.194	0.097	106.281	312.467	0.0795	PCI/G
4.2.B.R.5.2	15-30	Cesium-137	1.17	0.171	0.086	136.794	160.049	0.0832	PCI/G
4.2.B.R.6.2	15-30	Cesium-137	0.968	0.132	0.066	229.568	222.222	0.0808	PCI/G
4.2.B.R.7.2	15-30	Cesium-137	0.784	0.108	0.054	342.936	268.861	0.0605	PCI/G
4.2.B.R.8.2	15-30	Cesium-137	1.98	0.168	0.084	141.723	280.612	0.0748	PCI/G
4.2.B.R.9.2	15-30	Cesium-137	3.09	0.182	0.091	120.758	373.143	0.081	PCI/G
4.2.C.R.1.2	15-30	Cesium-137	1.56	0.144	0.072	192.901	300.926	0.0912	PCI/G
4.2.C.R.2.2	15-30	Cesium-137	1.47	0.14	0.070	204.082	300.000	0.0829	PCI/G

Average: 1.58      1 Sigma: 0.016

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.3	30-60	Cesium-137	0.0907	0.042	0.021	2267.574	205.669	0.0513	PCI/G
4.2.A.R.1.3	30-60	Cesium-137	0.651	0.115	0.058	302.457	196.900	0.0842	PCI/G
4.2.A.R.2.3	30-60	Cesium-137	1.22	0.158	0.079	160.231	195.481	0.0943	PCI/G
4.2.B.R.1.3	30-60	Cesium-137	0.645	0.0922	0.046	470.542	303.499	0.0604	PCI/G
4.2.B.R.2.3	30-60	Cesium-137	0.13	0.0708	0.035	797.983	103.738	0.0737	PCI/G
4.2.C.R.1.3	30-60	Cesium-137	0.153	0.0572	0.029	1222.554	187.051	0.0499	PCI/G

Average: 0.23      1 Sigma: 0.014

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.2.B.R.3.4	60-100	Cesium-137	0.0833	0.0638	0.032	982.695	81.858	0.0495	PCI/G
4.2.A.R.1.4	60-100	Cesium-137	0.257	0.0964	0.048	430.433	110.621	0.0799	PCI/G
4.2.A.R.2.4	60-100	Cesium-137	0.08	0.089	0.045	504.987	40.399	0.086	PCI/G
4.2.B.R.1.4	60-100	Cesium-137	0	0.0381	0.019	2755.561	0.000	0.0831	PCI/G
4.2.B.R.2.4	60-100	Cesium-137	0.0561	0.0482	0.024	1721.733	96.589	0.0498	PCI/G
4.2.C.R.1.4	60-100	Cesium-137	0	0.0442	0.022	2047.460	0.000	0.0921	PCI/G

Average: 0.04      1 Sigma: 0.011

## Appendix H2: Soil Analysis

### Sub-Area 4.3

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.1	0-15	ALPHA	11.5	3.58	1.790	0.312	3.589	3.88	PCI/G
4.3.A.R.2.1	0-15	ALPHA	11.4	3.52	1.760	0.323	3.680	3.99	PCI/G
4.3.A.R.3.1	0-15	ALPHA	13.9	3.83	1.915	0.273	3.790	3.95	PCI/G
4.3.A.R.4.1	0-15	ALPHA	13.9	3.68	1.840	0.295	4.106	3.96	PCI/G
4.3.B.R.1.1	0-15	ALPHA	19.2	4.51	2.255	0.197	3.776	3.84	PCI/G
4.3.B.R.10.1	0-15	ALPHA	16.3	4.28	2.140	0.218	3.559	3.81	PCI/G
4.3.B.R.11.1	0-15	ALPHA	15.2	4.16	2.080	0.231	3.513	3.85	PCI/G
4.3.B.R.12.1	0-15	ALPHA	15.8	3.94	1.970	0.258	4.071	3.6	PCI/G
4.3.B.R.13.1	0-15	ALPHA	13	3.59	1.795	0.310	4.035	3.79	PCI/G
4.3.B.R.14.1	0-15	ALPHA	20	4.88	2.440	0.168	3.359	3.9	PCI/G
4.3.B.R.15.1	0-15	ALPHA	18	4.01	2.005	0.249	4.478	3.82	PCI/G
4.3.B.R.16.1	0-15	ALPHA	17.9	4.07	2.035	0.241	4.322	3.76	PCI/G
4.3.B.R.17.1	0-15	ALPHA	22.8	4.42	2.210	0.205	4.668	3.76	PCI/G
4.3.B.R.18.1	0-15	ALPHA	14.8	3.52	1.760	0.323	4.778	3.96	PCI/G
4.3.B.R.19.1	0-15	ALPHA	19	5.06	2.530	0.156	2.968	3.88	PCI/G
4.3.B.R.2.1	0-15	ALPHA	15.2	3.87	1.935	0.267	4.060	3.99	PCI/G
4.3.B.R.20.1	0-15	ALPHA	7.76	3.34	1.670	0.359	2.782	3.92	PCI/G
4.3.B.R.3.1	0-15	ALPHA	11	3.41	1.705	0.344	3.784	3.92	PCI/G
4.3.B.R.4.1	0-15	ALPHA	19.7	5.43	2.715	0.136	2.673	6.02	PCI/G
4.3.B.R.5.1	0-15	ALPHA	15	4.2	2.100	0.227	3.401	3.88	PCI/G
4.3.B.R.6.1	0-15	ALPHA	17.2	4.26	2.130	0.220	3.791	3.9	PCI/G
4.3.B.R.7.1	0-15	ALPHA	18.9	4.75	2.375	0.177	3.351	3.94	PCI/G
4.3.B.R.8.1	0-15	ALPHA	12.3	3.45	1.725	0.336	4.134	3.93	PCI/G
4.3.B.R.9.1	0-15	ALPHA	11.6	3.65	1.825	0.300	3.483	3.9	PCI/G

Average:            14.72            1 Sigma:            0.404



Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.2	15-30	ALPHA	15	4.66	2.330	0.184	2.763	3.83	PCI/G
4.3.B.R.19.2	15-30	ALPHA	15.8	5.45	2.725	0.135	2.128	3.91	PCI/G
4.3.A.R.2.2	15-30	ALPHA	14.7	4.4	2.200	0.207	3.037	3.8	PCI/G
4.3.A.R.3.2	15-30	ALPHA	15.9	4.65	2.325	0.185	2.941	3.92	PCI/G
4.3.A.R.4.2	15-30	ALPHA	13.8	4.01	2.005	0.249	3.433	3.85	PCI/G
4.3.B.R.1.2	15-30	ALPHA	11.2	3.8	1.900	0.277	3.102	3.95	PCI/G
4.3.B.R.10.2	15-30	ALPHA	10.3	3.37	1.685	0.352	3.628	3.32	PCI/G
4.3.B.R.11.2	15-30	ALPHA	7.06	2.7	1.350	0.549	3.874	3.55	PCI/G
4.3.B.R.12.2	15-30	ALPHA	11.4	3.28	1.640	0.372	4.239	3.32	PCI/G
4.3.B.R.13.2	15-30	ALPHA	12.2	3.39	1.695	0.348	4.246	3.68	PCI/G
4.3.B.R.14.2	15-30	ALPHA	12.7	3.23	1.615	0.383	4.869	3.93	PCI/G
4.3.B.R.15.2	15-30	ALPHA	11.6	3.23	1.615	0.383	4.447	2.97	PCI/G
4.3.B.R.16.2	15-30	ALPHA	14.6	3.28	1.640	0.372	5.428	4	PCI/G
4.3.B.R.17.2	15-30	ALPHA	18.3	4.62	2.310	0.187	3.429	2.74	PCI/G
4.3.B.R.18.2	15-30	ALPHA	21.4	4.91	2.455	0.166	3.551	3.93	PCI/G
4.3.B.R.2.2	15-30	ALPHA	14.2	3.51	1.755	0.325	4.610	3.84	PCI/G
4.3.B.R.20.2	15-30	ALPHA	11.5	3.23	1.615	0.383	4.409	3.05	PCI/G
4.3.B.R.3.2	15-30	ALPHA	12.2	3.59	1.795	0.310	3.786	3.65	PCI/G
4.3.B.R.4.2	15-30	ALPHA	12.8	3.92	1.960	0.260	3.332	3.37	PCI/G
4.3.B.R.5.2	15-30	ALPHA	12.7	3.98	1.990	0.253	3.207	3.91	PCI/G
4.3.B.R.6.2	15-30	ALPHA	11.4	3.06	1.530	0.427	4.870	3.94	PCI/G
4.3.B.R.7.2	15-30	ALPHA	14.8	4.35	2.175	0.211	3.129	3.91	PCI/G
4.3.B.R.8.2	15-30	ALPHA	12	3.44	1.720	0.338	4.056	3.88	PCI/G
4.3.B.R.9.2	15-30	ALPHA	13.3	3.78	1.890	0.280	3.723	3.89	PCI/G

Average: 12.64 1 Sigma: 0.374

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.B.R.4.3	30-60	ALPHA	21.4	2.35	1.175	0.724	15.500	2.15	PCI/G
4.3.A.R.1.3	30-60	ALPHA	13.1	3.58	1.790	0.312	4.089	3.89	PCI/G
4.3.A.R.2.3	30-60	ALPHA	13.9	3.89	1.945	0.264	3.674	3.93	PCI/G
4.3.B.R.1.3	30-60	ALPHA	9.55	3.39	1.695	0.348	3.324	3.99	PCI/G
4.3.B.R.2.3	30-60	ALPHA	7.78	3.1	1.550	0.416	3.238	3.91	PCI/G
4.3.B.R.3.3	30-60	ALPHA	10.2	3.66	1.830	0.299	3.046	3.99	PCI/G

Average: 13.91 1 Sigma: 0.650

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.4	60-100	ALPHA	10.6	3.43	1.715	0.340	3.604	3.9	PCI/G
4.3.A.R.2.4	60-100	ALPHA	21.1	5.07	2.535	0.156	3.283	3.8	PCI/G
4.3.B.R.4.4	60-100	ALPHA	16	4.58	2.290	0.191	3.051	3.82	PCI/G
4.3.B.R.1.4	60-100	ALPHA	13.5	4.12	2.060	0.236	3.181	3.90	PCI/G
4.3.B.R.2.4	60-100	ALPHA	8.65	3.14	1.570	0.406	3.509	3.86	PCI/G
4.3.B.R.3.4	60-100	ALPHA	11.6	3.82	1.910	0.274	3.180	4.00	PCI/G

Average: 12.37 1 Sigma: 0.790

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.1	0-15	BETA	22.3	2.94	1.470	0.463	10.320	2.44	PCI/G
4.3.A.R.2.1	0-15	BETA	23.5	2.93	1.465	0.466	10.949	2.56	PCI/G
4.3.A.R.3.1	0-15	BETA	25.6	3.12	1.560	0.411	10.519	3.01	PCI/G
4.3.A.R.4.1	0-15	BETA	19.9	2.55	1.275	0.615	12.241	4.66	PCI/G
4.3.B.R.1.1	0-15	BETA	25.8	3.73	1.865	0.288	7.418	2.51	PCI/G
4.3.B.R.10.1	0-15	BETA	25.6	3.32	1.660	0.363	9.290	3.4	PCI/G
4.3.B.R.11.1	0-15	BETA	29.9	3.87	1.935	0.267	7.986	3.52	PCI/G
4.3.B.R.12.1	0-15	BETA	23.3	3.41	1.705	0.344	8.015	3.73	PCI/G
4.3.B.R.13.1	0-15	BETA	23.8	3.37	1.685	0.352	8.383	2.49	PCI/G
4.3.B.R.14.1	0-15	BETA	27.4	3.49	1.745	0.328	8.998	2.92	PCI/G
4.3.B.R.15.1	0-15	BETA	26.1	2.88	1.440	0.482	12.587	3.21	PCI/G
4.3.B.R.16.1	0-15	BETA	25.1	2.96	1.480	0.457	11.459	3.79	PCI/G
4.3.B.R.17.1	0-15	BETA	25.3	2.92	1.460	0.469	11.869	2.11	PCI/G
4.3.B.R.18.1	0-15	BETA	20.5	2.25	1.125	0.790	16.198	3.61	PCI/G
4.3.B.R.19.1	0-15	BETA	24.2	3.6	1.800	0.309	7.469	1.06	PCI/G
4.3.B.R.2.1	0-15	BETA	30.6	3.35	1.675	0.356	10.907	3.79	PCI/G
4.3.B.R.20.1	0-15	BETA	13.1	2.38	1.190	0.706	9.251	2.29	PCI/G
4.3.B.R.3.1	0-15	BETA	28.5	3.44	1.720	0.338	9.634	3.23	PCI/G
4.3.B.R.4.1	0-15	BETA	25	3.35	1.675	0.356	8.911	3.81	PCI/G
4.3.B.R.5.1	0-15	BETA	21.1	3.23	1.615	0.383	8.090	3.09	PCI/G
4.3.B.R.6.1	0-15	BETA	22.5	3.1	1.550	0.416	9.365	2.49	PCI/G
4.3.B.R.7.1	0-15	BETA	24.8	3.69	1.845	0.294	7.285	2.78	PCI/G
4.3.B.R.8.1	0-15	BETA	20.8	2.58	1.290	0.601	12.499	2.75	PCI/G
4.3.B.R.9.1	0-15	BETA	22.1	3.21	1.605	0.388	8.579	2.84	PCI/G

Average:            23.26            1 Sigma:            0.312

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.2	15-30	BETA	31.9	3.8	1.900	0.277	8.837	2.92	PCI/G
4.3.B.R.19.2	15-30	BETA	16.6	3.36	1.680	0.354	5.882	2.69	PCI/G
4.3.A.R.2.2	15-30	BETA	24.5	3.43	1.715	0.340	8.330	2.1	PCI/G
4.3.A.R.3.2	15-30	BETA	23.9	3.68	1.840	0.295	7.059	2.59	PCI/G
4.3.A.R.4.2	15-30	BETA	19.4	2.9	1.450	0.476	9.227	2.92	PCI/G
4.3.B.R.1.2	15-30	BETA	27	4.13	2.065	0.235	6.332	2.66	PCI/G
4.3.B.R.10.2	15-30	BETA	23.6	2.8	1.400	0.510	12.041	2.26	PCI/G
4.3.B.R.11.2	15-30	BETA	23.8	3.05	1.525	0.430	10.234	2.74	PCI/G
4.3.B.R.12.2	15-30	BETA	24.5	3.06	1.530	0.427	10.466	2.24	PCI/G
4.3.B.R.13.2	15-30	BETA	21.5	3.1	1.550	0.416	8.949	2.08	PCI/G
4.3.B.R.14.2	15-30	BETA	21.1	2.29	1.145	0.763	16.094	3.04	PCI/G
4.3.B.R.15.2	15-30	BETA	19.1	2.47	1.235	0.656	12.523	3	PCI/G
4.3.B.R.16.2	15-30	BETA	22.7	2.75	1.375	0.529	12.007	3.21	PCI/G
4.3.B.R.17.2	15-30	BETA	29.1	3.43	1.715	0.340	9.894	4.1	PCI/G
4.3.B.R.18.2	15-30	BETA	24.5	3.55	1.775	0.317	7.776	2.64	PCI/G
4.3.B.R.2.2	15-30	BETA	21.4	2.57	1.285	0.606	12.960	3.95	PCI/G
4.3.B.R.20.2	15-30	BETA	19	2.35	1.175	0.724	13.762	3.98	PCI/G
4.3.B.R.3.2	15-30	BETA	25.3	2.89	1.445	0.479	12.117	3.87	PCI/G
4.3.B.R.4.2	15-30	BETA	22.8	3.31	1.655	0.365	8.324	2.97	PCI/G
4.3.B.R.5.2	15-30	BETA	19.4	3.37	1.685	0.352	6.833	3.01	PCI/G
4.3.B.R.6.2	15-30	BETA	22.6	2.56	1.280	0.610	13.794	3.39	PCI/G
4.3.B.R.7.2	15-30	BETA	19.9	3.29	1.645	0.370	7.354	3.17	PCI/G
4.3.B.R.8.2	15-30	BETA	15.3	3.03	1.515	0.436	6.666	2.86	PCI/G
4.3.B.R.9.2	15-30	BETA	23.4	3.21	1.605	0.388	9.084	3.54	PCI/G

Average: 22.12 1 Sigma: 0.306

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.B.R.4.3	30-60	BETA	12.6	1.11	0.555	3.246	40.906	3.57	PCI/G
4.3.A.R.1.3	30-60	BETA	47.8	3.72	1.860	0.289	13.817	2.57	PCI/G
4.3.A.R.2.3	30-60	BETA	21.5	3.01	1.505	0.441	9.492	3.28	PCI/G
4.3.B.R.1.3	30-60	BETA	17.6	2.35	1.175	0.724	12.748	2.24	PCI/G
4.3.B.R.2.3	30-60	BETA	20.8	2.86	1.430	0.489	10.172	3.36	PCI/G
4.3.B.R.3.3	30-60	BETA	18.7	2.95	1.475	0.460	8.595	3.23	PCI/G

Average: 16.94 1 Sigma: 0.421

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.4	60-100	BETA	23.5	3.04	1.520	0.433	10.171	2.44	PCI/G
4.3.B.R.1.4	60-100	BETA	16.3	2.9	1.450	0.476	7.753	3.06	PCI/G
4.3.B.R.2.4	60-100	BETA	17.3	2.42	1.210	0.683	11.816	2.48	PCI/G
4.3.B.R.3.4	60-100	BETA	15.8	2.74	1.370	0.533	8.418	2.75	PCI/G
4.3.A.R.2.4	60-100	BETA	24.4	3.37	1.685	0.352	8.594	3.02	PCI/G
4.3.B.R.4.4	60-100	BETA	22.3	3.39	1.695	0.348	7.762	2.83	PCI/G

Average: 19.30 1 Sigma: 0.595

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.1	0-15	Cesium-137	1.66	0.213	0.107	88.166	146.355	0.107	PCI/G
4.3.A.R.2.1	0-15	Cesium-137	1.17	0.13	0.065	236.686	276.923	0.0823	PCI/G
4.3.A.R.3.1	0-15	Cesium-137	0.543	0.0901	0.045	492.732	267.553	0.0821	PCI/G
4.3.A.R.4.1	0-15	Cesium-137	0.768	0.153	0.077	170.874	131.232	0.0994	PCI/G
4.3.B.R.1.1	0-15	Cesium-137	1.13	0.137	0.069	213.117	240.823	0.0786	PCI/G
4.3.B.R.10.1	0-15	Cesium-137	0.962	0.151	0.076	175.431	168.765	0.0887	PCI/G
4.3.B.R.11.1	0-15	Cesium-137	2.41	0.148	0.074	182.615	440.102	0.0667	PCI/G
4.3.B.R.12.1	0-15	Cesium-137	0.998	0.126	0.063	251.953	251.449	0.0724	PCI/G
4.3.B.R.13.1	0-15	Cesium-137	1.67	0.15	0.075	177.778	296.889	0.0725	PCI/G
4.3.B.R.14.1	0-15	Cesium-137	1.17	0.138	0.069	210.040	245.747	0.0857	PCI/G
4.3.B.R.15.1	0-15	Cesium-137	1.45	0.155	0.078	166.493	241.415	0.0818	PCI/G
4.3.B.R.16.1	0-15	Cesium-137	0.903	0.121	0.061	273.205	246.704	0.0871	PCI/G
4.3.B.R.17.1	0-15	Cesium-137	1.99	0.191	0.096	109.646	218.196	0.105	PCI/G
4.3.B.R.18.1	0-15	Cesium-137	0.375	0.123	0.062	264.393	99.147	0.112	PCI/G
4.3.B.R.19.1	0-15	Cesium-137	0.203	0.0817	0.041	599.261	121.650	0.106	PCI/G
4.3.B.R.2.1	0-15	Cesium-137	1.46	0.147	0.074	185.108	270.258	0.0799	PCI/G
4.3.B.R.20.1	0-15	Cesium-137	1.23	0.128	0.064	244.141	300.293	0.0845	PCI/G
4.3.B.R.3.1	0-15	Cesium-137	2.47	0.148	0.074	182.615	451.059	0.0717	PCI/G
4.3.B.R.4.1	0-15	Cesium-137	0.503	0.0957	0.048	436.753	219.687	0.094	PCI/G
4.3.B.R.5.1	0-15	Cesium-137	0.19	0.0951	0.048	442.282	84.034	0.127	PCI/G
4.3.B.R.6.1	0-15	Cesium-137	0.715	0.14	0.070	204.082	145.918	0.0784	PCI/G
4.3.B.R.7.1	0-15	Cesium-137	0.84	0.143	0.072	195.609	164.311	0.115	PCI/G
4.3.B.R.8.1	0-15	Cesium-137	0.798	0.115	0.058	302.457	241.361	0.0843	PCI/G
4.3.B.R.9.1	0-15	Cesium-137	0.745	0.121	0.061	273.205	203.538	0.0819	PCI/G

Average: 0.90      1 Sigma: 0.013

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.2	15-30	Cesium-137	0.725	0.103	0.052	377.038	273.353	0.0804	PCI/G
4.3.B.R.19.2	15-30	Cesium-137	0.205	0.067	0.034	891.067	182.669	0.0539	PCI/G
4.3.A.R.2.2	15-30	Cesium-137	0.346	0.0711	0.036	791.263	273.777	0.0644	PCI/G
4.3.A.R.3.2	15-30	Cesium-137	0.247	0.149	0.075	180.172	44.502	0.135	PCI/G
4.3.A.R.4.2	15-30	Cesium-137	0.272	0.099	0.050	408.122	111.009	0.0769	PCI/G
4.3.B.R.1.2	15-30	Cesium-137	2.32	0.165	0.083	146.924	340.863	0.0791	PCI/G
4.3.B.R.10.2	15-30	Cesium-137	1.55	0.167	0.084	143.426	222.310	0.0965	PCI/G
4.3.B.R.11.2	15-30	Cesium-137	0.973	0.134	0.067	222.767	216.752	0.0863	PCI/G
4.3.B.R.12.2	15-30	Cesium-137	0.368	0.0915	0.046	477.769	175.819	0.0723	PCI/G
4.3.B.R.13.2	15-30	Cesium-137	1.04	0.122	0.061	268.745	279.495	0.0852	PCI/G
4.3.B.R.14.2	15-30	Cesium-137	0.247	0.0807	0.040	614.204	151.708	0.07	PCI/G
4.3.B.R.15.2	15-30	Cesium-137	0.665	0.113	0.057	313.259	208.317	0.0697	PCI/G
4.3.B.R.16.2	15-30	Cesium-137	1.76	0.155	0.078	166.493	293.028	0.0733	PCI/G
4.3.B.R.17.2	15-30	Cesium-137	3.61	0.232	0.116	74.316	268.282	0.103	PCI/G
4.3.B.R.18.2	15-30	Cesium-137	0.967	0.141	0.071	201.197	194.558	0.0996	PCI/G
4.3.B.R.2.2	15-30	Cesium-137	1.29	0.134	0.067	222.767	287.369	0.0791	PCI/G
4.3.B.R.20.2	15-30	Cesium-137	0.631	0.0979	0.049	417.344	263.344	0.0633	PCI/G
4.3.B.R.3.2	15-30	Cesium-137	1.62	0.115	0.058	302.457	489.981	0.0639	PCI/G
4.3.B.R.4.2	15-30	Cesium-137	0.642	0.104	0.052	369.822	237.426	0.0672	PCI/G
4.3.B.R.5.2	15-30	Cesium-137	0.159	0.0817	0.041	599.261	95.282	0.0995	PCI/G
4.3.B.R.6.2	15-30	Cesium-137	2.11	0.168	0.084	141.723	299.036	0.0643	PCI/G
4.3.B.R.7.2	15-30	Cesium-137	0.235	0.0794	0.040	634.482	149.103	0.0786	PCI/G
4.3.B.R.8.2	15-30	Cesium-137	0.343	0.0638	0.032	982.695	337.064	0.0935	PCI/G
4.3.B.R.9.2	15-30	Cesium-137	2.02	0.158	0.079	160.231	323.666	0.071	PCI/G

Average: 0.63 1 Sigma: 0.010

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.B.R.4.3	30-60	Cesium-137	2.45	0.179	0.090	124.840	305.858	0.094	PCI/G
4.3.A.R.1.3	30-60	Cesium-137	0.132	0.0782	0.039	654.104	86.342	0.0728	PCI/G
4.3.A.R.2.3	30-60	Cesium-137	0.0731	0.0455	0.023	1932.134	141.239	0.0548	PCI/G
4.3.B.R.1.3	30-60	Cesium-137	0.311	0.0801	0.040	623.440	193.890	0.0706	PCI/G
4.3.B.R.2.3	30-60	Cesium-137	0.0251	0.0614	0.031	1061.019	26.632	0.0681	PCI/G
4.3.B.R.3.3	30-60	Cesium-137	0.206	0.113	0.057	313.259	64.531	0.094	PCI/G

Average: 0.17 1 Sigma: 0.015

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.3.A.R.1.4	60-100	Cesium-137	0	0.0591	0.030	1145.210	0.000	0.0741	PCI/G
4.3.B.R.1.4	60-100	Cesium-137	0.111	0.0865	0.043	534.599	59.340	0.0748	PCI/G
4.3.B.R.2.4	60-100	Cesium-137	0.0114	0.0402	0.020	2475.186	28.217	0.0854	PCI/G
4.3.B.R.3.4	60-100	Cesium-137	0.0502	0.043	0.022	2163.332	108.599	0.0647	PCI/G
4.3.A.R.2.4	60-100	Cesium-137	0.0283	0.0458	0.023	1906.905	53.965	0.092	PCI/G
4.3.B.R.4.4	60-100	Cesium-137	0.828	0.0974	0.049	421.640	349.118	0.0741	PCI/G

Average: 0.07 1 Sigma: 0.011

## Appendix H2: Soil Analysis

### Sub-Area 4.4

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.1	0-15	ALPHA	13.6	4.31	2.155	0.215	2.928	3.97	PCI/G
4.4.B.R.1.1	0-15	ALPHA	14.5	4.11	2.055	0.237	3.434	3.98	PCI/G
4.4.C.R.1.1	0-15	ALPHA	12.5	3.8	1.900	0.277	3.463	3.93	PCI/G
4.4.C.R.2.1	0-15	ALPHA	13.7	3.92	1.960	0.260	3.566	3.91	PCI/G
4.4.C.R.3.1	0-15	ALPHA	10.1	3.47	1.735	0.332	3.355	3.91	PCI/G
4.4.C.R.4.1	0-15	ALPHA	14.5	3.96	1.980	0.255	3.699	3.83	PCI/G
4.4.C.R.5.1	0-15	ALPHA	20.4	4.18	2.090	0.229	4.670	4	PCI/G
4.4.C.R.6.1	0-15	ALPHA	14.9	4.16	2.080	0.231	3.444	3.83	PCI/G
4.4.C.R.7.1	0-15	ALPHA	11.7	3.35	1.675	0.356	4.170	3.93	PCI/G
4.4.D.R.1.1	0-15	ALPHA	15.6	4.2	2.100	0.227	3.537	3.88	PCI/G
4.4.D.R.2.1	0-15	ALPHA	11.2	3.23	1.615	0.383	4.294	3.89	PCI/G
4.4.D.R.3.1	0-15	ALPHA	10.1	3.64	1.820	0.302	3.049	3.93	PCI/G
4.4.D.R.4.1	0-15	ALPHA	11.3	3.59	1.795	0.310	3.507	3.88	PCI/G
4.4.D.R.5.1	0-15	ALPHA	12	3.7	1.850	0.292	3.506	3.88	PCI/G
4.4.D.R.6.1	0-15	ALPHA	18.4	4.4	2.200	0.207	3.802	3.82	PCI/G

Average:            13.23            1 Sigma:            0.493

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.2	15-30	ALPHA	14.2	4.64	2.320	0.186	2.638	3.86	PCI/G
4.4.D.R.4.2	15-30	ALPHA	13.6	3.67	1.835	0.297	4.039	3.96	PCI/G
4.4.D.R.5.2	15-30	ALPHA	15.6	3.57	1.785	0.314	4.896	3.94	PCI/G
4.4.B.R.1.2	15-30	ALPHA	8.75	3.36	1.680	0.354	3.100	3.99	PCI/G
4.4.C.R.1.2	15-30	ALPHA	11.8	3.94	1.970	0.258	3.041	3.98	PCI/G
4.4.C.R.2.2	15-30	ALPHA	84.9	8.15	4.075	0.060	5.113	3.94	PCI/G
4.4.C.R.3.2	15-30	ALPHA	13.7	3.81	1.905	0.276	3.775	3.91	PCI/G
4.4.C.R.4.2	15-30	ALPHA	14	3.67	1.835	0.297	4.158	4.24	PCI/G
4.4.C.R.5.2	15-30	ALPHA	12.1	3.85	1.925	0.270	3.265	3.87	PCI/G
4.4.C.R.6.2	15-30	ALPHA	13.5	4.23	2.115	0.224	3.018	3.95	PCI/G
4.4.C.R.7.2	15-30	ALPHA	15.4	4.16	2.080	0.231	3.560	3.89	PCI/G
4.4.D.R.1.2	15-30	ALPHA	12	3.72	1.860	0.289	3.469	3.9	PCI/G
4.4.D.R.2.2	15-30	ALPHA	11.5	3.65	1.825	0.300	3.453	3.88	PCI/G
4.4.D.R.3.2	15-30	ALPHA	12.7	3.77	1.885	0.281	3.574	4	PCI/G
4.4.D.R.6.2	15-30	ALPHA	14.2	3.92	1.960	0.260	3.696	3.96	PCI/G

Average:            14.06            1 Sigma:            0.507

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.2.3	30-60	ALPHA	8.82	3.14	1.570	0.406	3.578	3.94	PCI/G
4.4.C.R.1.3	30-60	ALPHA	11.4	3.53	1.765	0.321	3.659	3.90	PCI/G
4.4.D.R.1.3	30-60	ALPHA	10.2	3.65	1.825	0.300	3.062	3.91	PCI/G
4.4.D.R.2.3	30-60	ALPHA	17.7	4.03	2.015	0.246	4.359	3.99	PCI/G

Average:            11.51            1 Sigma:            0.886

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.1.4	60-100	ALPHA	10.3	3.89	1.945	0.264	2.723	3.94	PCI/G
4.4.C.R.2.4	60-100	ALPHA	8.01	3.21	1.605	0.388	3.109	3.85	PCI/G
4.4.D.R.1.4	60-100	ALPHA	17.9	4.49	2.245	0.198	3.552	3.91	PCI/G
4.4.D.R.2.4	60-100	ALPHA	11.7	3.97	1.985	0.254	2.969	4.35	PCI/G

Average:            11.18            1 Sigma:        0.951

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.1	0-15	BETA	25.6	4.04	2.020	0.245	6.274	3	PCI/G
4.4.B.R.1.1	0-15	BETA	21.7	3.14	1.570	0.406	8.804	3.05	PCI/G
4.4.C.R.1.1	0-15	BETA	23.5	3.17	1.585	0.398	9.354	3.01	PCI/G
4.4.C.R.2.1	0-15	BETA	24.1	3.59	1.795	0.310	7.480	2.63	PCI/G
4.4.C.R.3.1	0-15	BETA	23.6	3.65	1.825	0.300	7.086	3.19	PCI/G
4.4.C.R.4.1	0-15	BETA	23.7	3.17	1.585	0.398	9.434	3.07	PCI/G
4.4.C.R.5.1	0-15	BETA	24.2	2.96	1.480	0.457	11.048	2.37	PCI/G
4.4.C.R.6.1	0-15	BETA	25.7	3.22	1.610	0.386	9.915	4	PCI/G
4.4.C.R.7.1	0-15	BETA	15.9	2.25	1.125	0.790	12.563	3.57	PCI/G
4.4.D.R.1.1	0-15	BETA	20.2	3	1.500	0.444	8.978	2.98	PCI/G
4.4.D.R.2.1	0-15	BETA	19.1	2.38	1.190	0.706	13.488	2.63	PCI/G
4.4.D.R.3.1	0-15	BETA	17.5	2.96	1.480	0.457	7.989	3.08	PCI/G
4.4.D.R.4.1	0-15	BETA	23	2.98	1.490	0.450	10.360	2.31	PCI/G
4.4.D.R.5.1	0-15	BETA	21.8	3.08	1.540	0.422	9.192	2.87	PCI/G
4.4.D.R.6.1	0-15	BETA	22.8	3.36	1.680	0.354	8.078	2.85	PCI/G

Average:            21.47            1 Sigma:        0.392

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.2	15-30	BETA	18.9	3.61	1.805	0.307	5.801	3.82	PCI/G
4.4.D.R.4.2	15-30	BETA	23.3	3.04	1.520	0.433	10.085	3.43	PCI/G
4.4.D.R.5.2	15-30	BETA	20.5	2.55	1.275	0.615	12.611	2.83	PCI/G
4.4.B.R.1.2	15-30	BETA	21.3	3.05	1.525	0.430	9.159	3.3	PCI/G
4.4.C.R.1.2	15-30	BETA	24.3	3.49	1.745	0.328	7.980	2.82	PCI/G
4.4.C.R.2.2	15-30	BETA	30.1	3.43	1.715	0.340	10.234	2.44	PCI/G
4.4.C.R.3.2	15-30	BETA	18.1	2.86	1.430	0.489	8.851	2.8	PCI/G
4.4.C.R.4.2	15-30	BETA	19.6	2.53	1.265	0.625	12.248	4.02	PCI/G
4.4.C.R.5.2	15-30	BETA	21.9	3.06	1.530	0.427	9.355	3.99	PCI/G
4.4.C.R.6.2	15-30	BETA	24.3	3.78	1.890	0.280	6.803	2.88	PCI/G
4.4.C.R.7.2	15-30	BETA	24.6	3.37	1.685	0.352	8.664	4.25	PCI/G
4.4.D.R.1.2	15-30	BETA	17.1	2.75	1.375	0.529	9.045	3.13	PCI/G
4.4.D.R.2.2	15-30	BETA	21.5	3.21	1.605	0.388	8.346	2.16	PCI/G
4.4.D.R.3.2	15-30	BETA	18.9	2.89	1.445	0.479	9.052	4.08	PCI/G
4.4.D.R.6.2	15-30	BETA	21.7	3.03	1.515	0.436	9.454	2.78	PCI/G

Average:            21.32            1 Sigma:        0.393

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.2.3	30-60	BETA	20.3	3.23	1.615	0.383	7.783	2.27	PCI/G
4.4.C.R.1.3	30-60	BETA	15.6	2.33	1.165	0.737	11.494	2.41	PCI/G
4.4.D.R.1.3	30-60	BETA	13	2.34	1.170	0.731	9.497	2.17	PCI/G
4.4.D.R.2.3	30-60	BETA	21.8	2.57	1.285	0.606	13.202	2.47	PCI/G

Average:            17.09            1 Sigma:            0.638

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.1.4	60-100	BETA	17.9	3.34	1.670	0.359	6.418	3.59	PCI/G
4.4.C.R.2.4	60-100	BETA	15.9	2.27	1.135	0.776	12.343	2.13	PCI/G
4.4.D.R.1.4	60-100	BETA	19.7	2.89	1.445	0.479	9.435	2.95	PCI/G
4.4.D.R.2.4	60-100	BETA	20.6	2.63	1.315	0.578	11.913	2.17	PCI/G

Average:            18.30            1 Sigma:            0.675

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.1	0-15	Cesium-137	1.81	0.137	0.069	213.117	385.742	0.0641	PCI/G
4.4.B.R.1.1	0-15	Cesium-137	0.67	0.105	0.053	362.812	243.084	0.0922	PCI/G
4.4.C.R.1.1	0-15	Cesium-137	0.676	0.116	0.058	297.265	200.951	0.0619	PCI/G
4.4.C.R.2.1	0-15	Cesium-137	0.504	0.0887	0.044	508.408	256.238	0.0649	PCI/G
4.4.C.R.3.1	0-15	Cesium-137	0.613	0.116	0.058	297.265	182.224	0.0824	PCI/G
4.4.C.R.4.1	0-15	Cesium-137	0.678	0.0918	0.046	474.651	321.814	0.0927	PCI/G
4.4.C.R.5.1	0-15	Cesium-137	0.878	0.114	0.057	307.787	270.237	0.0941	PCI/G
4.4.C.R.6.1	0-15	Cesium-137	1.08	0.157	0.079	162.278	175.261	0.0707	PCI/G
4.4.C.R.7.1	0-15	Cesium-137	0.404	0.0993	0.050	405.659	163.886	0.0826	PCI/G
4.4.D.R.1.1	0-15	Cesium-137	0.392	0.137	0.069	213.117	83.542	0.0776	PCI/G
4.4.D.R.2.1	0-15	Cesium-137	0.57	0.103	0.052	377.038	214.912	0.0571	PCI/G
4.4.D.R.3.1	0-15	Cesium-137	0.437	0.0731	0.037	748.558	327.120	0.0588	PCI/G
4.4.D.R.4.1	0-15	Cesium-137	0.201	0.0677	0.034	872.736	175.420	0.0778	PCI/G
4.4.D.R.5.1	0-15	Cesium-137	0.228	0.108	0.054	342.936	78.189	0.0862	PCI/G
4.4.D.R.6.1	0-15	Cesium-137	0.268	0.0818	0.041	597.797	160.209	0.0904	PCI/G

Average:            0.52            1 Sigma:            0.013



Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.A.R.1.2	15-30	Cesium-137	0.644	0.101	0.051	392.118	252.524	0.0607	PCI/G
4.4.D.R.4.2	15-30	Cesium-137	0.311	0.106	0.053	355.999	110.716	0.0782	PCI/G
4.4.D.R.5.2	15-30	Cesium-137	0.88	0.16	0.080	156.250	137.500	0.0938	PCI/G
4.4.B.R.1.2	15-30	Cesium-137	0.426	0.0898	0.045	496.029	211.308	0.0693	PCI/G
4.4.C.R.1.2	15-30	Cesium-137	0.496	0.0952	0.048	441.353	218.911	0.0727	PCI/G
4.4.C.R.2.2	15-30	Cesium-137	1.16	0.14	0.070	204.082	236.735	0.0593	PCI/G
4.4.C.R.3.2	15-30	Cesium-137	0.337	0.0762	0.038	688.890	232.156	0.0725	PCI/G
4.4.C.R.4.2	15-30	Cesium-137	0.419	0.0684	0.034	854.964	358.230	0.0816	PCI/G
4.4.C.R.5.2	15-30	Cesium-137	1.54	0.161	0.081	154.315	237.645	0.0521	PCI/G
4.4.C.R.6.2	15-30	Cesium-137	1.14	0.125	0.063	256.000	291.840	0.0508	PCI/G
4.4.C.R.7.2	15-30	Cesium-137	1.25	0.141	0.071	201.197	251.496	0.0898	PCI/G
4.4.D.R.1.2	15-30	Cesium-137	1.83	0.155	0.078	166.493	304.683	0.0782	PCI/G
4.4.D.R.2.2	15-30	Cesium-137	2.4	0.176	0.088	129.132	309.917	0.103	PCI/G
4.4.D.R.3.2	15-30	Cesium-137	0.589	0.0913	0.046	479.864	282.640	0.0946	PCI/G
4.4.D.R.6.2	15-30	Cesium-137	0.412	0.0922	0.046	470.542	193.863	0.108	PCI/G

Average: 0.67 1 Sigma: 0.014

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.2.3	30-60	Cesium-137	0.072	0.0826	0.041	586.273	42.212	0.0701	PCI/G
4.4.C.R.1.3	30-60	Cesium-137	0.115	0.0596	0.030	1126.075	129.499	0.0624	PCI/G
4.4.D.R.1.3	30-60	Cesium-137	0.142	0.0717	0.036	778.075	110.487	0.0633	PCI/G
4.4.D.R.2.3	30-60	Cesium-137	0.249	0.0842	0.042	564.204	140.487	0.0702	PCI/G

Average: 0.14 1 Sigma: 0.018

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.4.C.R.1.4	60-100	Cesium-137	0	0.0333	0.017	3607.211	0.000	0.0738	PCI/G
4.4.C.R.2.4	60-100	Cesium-137	0.0137	0.0379	0.019	2784.720	38.151	0.0798	PCI/G
4.4.D.R.1.4	60-100	Cesium-137	0	0.049	0.025	1665.973	0.000	0.0572	PCI/G
4.4.D.R.2.4	60-100	Cesium-137	0.0694	0.0535	0.027	1397.502	96.987	0.0503	PCI/G

Average: 0.01 1 Sigma: 0.010

Appendix H2: Soil Analysis

Sub-Area 4.5

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.1	0-15	ALPHA	14.8	3.75	1.875	0.284	4.210	3.95	PCI/G
4.5.A.R.2.1	0-15	ALPHA	11.8	3.51	1.755	0.325	3.831	3.65	PCI/G
4.5.A.R.3.1	0-15	ALPHA	16.5	3.62	1.810	0.305	5.036	3.74	PCI/G
4.5.A.R.4.1	0-15	ALPHA	15.1	4.1	2.050	0.238	3.593	3.99	PCI/G
4.5.A.R.5.1	0-15	ALPHA	17.2	4.5	2.250	0.198	3.398	3.95	PCI/G
4.5.A.R.6.1	0-15	ALPHA	8.64	3.53	1.765	0.321	2.773	3.92	PCI/G
4.5.A.R.7.1	0-15	ALPHA	10.4	3.72	1.860	0.289	3.006	3.89	PCI/G
4.5.B.R.1.1	0-15	ALPHA	16.7	1.85	0.925	1.169	19.518	1.2	PCI/G
4.5.B.R.2.1	0-15	ALPHA	16.8	2.16	1.080	0.857	14.403	2	PCI/G
4.5.B.R.3.1	0-15	ALPHA	14.9	4.75	2.375	0.177	2.642	3.91	PCI/G
4.5.B.R.4.1	0-15	ALPHA	11.3	3.57	1.785	0.314	3.547	3.95	PCI/G
4.5.B.R.5.1	0-15	ALPHA	18.9	4.33	2.165	0.213	4.032	3.91	PCI/G
4.5.B.R.6.1	0-15	ALPHA	12.7	4.01	2.005	0.249	3.159	3.78	PCI/G
4.5.B.R.7.1	0-15	ALPHA	9.91	3.43	1.715	0.340	3.369	3.99	PCI/G
4.5.B.R.8.1	0-15	ALPHA	15	3.94	1.970	0.258	3.865	3.9	PCI/G
4.5.C.R.1.1	0-15	ALPHA	13.4	4.09	2.045	0.239	3.204	3.85	PCI/G
4.5.C.R.2.1	0-15	ALPHA	18.1	4.87	2.435	0.169	3.053	3.97	PCI/G
4.5.C.R.3.1	0-15	ALPHA	17.8	3.98	1.990	0.253	4.495	3.9	PCI/G
4.5.C.R.4.1	0-15	ALPHA	10.8	3.3	1.650	0.367	3.967	3.95	PCI/G
4.5.C.R.5.1	0-15	ALPHA	18.1	5.25	2.625	0.145	2.627	3.71	PCI/G
4.5.C.R.6.1	0-15	ALPHA	9.32	3.77	1.885	0.281	2.623	3.83	PCI/G
4.5.C.R.7.1	0-15	ALPHA	15.7	4.24	2.120	0.222	3.493	3.95	PCI/G
4.5.C.R.8.1	0-15	ALPHA	13.1	4.43	2.215	0.204	2.670	3.89	PCI/G
4.5.C.R.9.1	0-15	ALPHA	14.2	3.86	1.930	0.268	3.812	3.89	PCI/G

Average: 14.35      1 Sigma: 0.361

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.2	15-30	ALPHA	14.1	3.8	1.900	0.277	3.906	3.85	PCI/G
4.5.B.R.1.2	15-30	ALPHA	24.1	5.05	2.525	0.157	3.780	3.94	PCI/G
4.5.C.R.2.2	15-30	ALPHA	18.6	4.44	2.220	0.203	3.774	3.95	PCI/G
4.5.C.R.5.2	15-30	ALPHA	17.1	4.24	2.120	0.222	3.805	3.91	PCI/G
4.5.A.R.2.2	15-30	ALPHA	21.5	5.41	2.705	0.137	2.938	3.92	PCI/G
4.5.A.R.3.2	15-30	ALPHA	9.1	3.37	1.685	0.352	3.205	3.87	PCI/G
4.5.A.R.4.2	15-30	ALPHA	9.87	3.61	1.805	0.307	3.029	3.94	PCI/G
4.5.A.R.5.2	15-30	ALPHA	15.6	3.77	1.885	0.281	4.390	3.82	PCI/G
4.5.A.R.6.2	15-30	ALPHA	13	3.43	1.715	0.340	4.420	3.64	PCI/G
4.5.A.R.7.2	15-30	ALPHA	13.4	3.31	1.655	0.365	4.892	3.55	PCI/G
4.5.B.R.2.2	15-30	ALPHA	13.6	4.14	2.070	0.233	3.174	3.87	PCI/G
4.5.B.R.3.2	15-30	ALPHA	13.5	4.06	2.030	0.243	3.276	3.96	PCI/G
4.5.B.R.4.2	15-30	ALPHA	16.7	4.33	2.165	0.213	3.563	3.94	PCI/G
4.5.B.R.5.2	15-30	ALPHA	15.6	3.89	1.945	0.264	4.124	3.47	PCI/G
4.5.B.R.6.2	15-30	ALPHA	9.72	3.45	1.725	0.336	3.267	3.85	PCI/G
4.5.B.R.7.2	15-30	ALPHA	12.7	3.24	1.620	0.381	4.839	3.5	PCI/G
4.5.B.R.8.2	15-30	ALPHA	18.2	3.64	1.820	0.302	5.495	3.05	PCI/G
4.5.C.R.1.2	15-30	ALPHA	18.9	3.77	1.885	0.281	5.319	3.27	PCI/G
4.5.C.R.3.2	15-30	ALPHA	9.76	3.49	1.745	0.328	3.205	3.81	PCI/G
4.5.C.R.4.2	15-30	ALPHA	18.5	4.59	2.295	0.190	3.512	3.36	PCI/G
4.5.C.R.6.2	15-30	ALPHA	15.7	3.57	1.785	0.314	4.927	3.49	PCI/G
4.5.C.R.7.2	15-30	ALPHA	16.1	3.68	1.840	0.295	4.755	3.55	PCI/G
4.5.C.R.8.2	15-30	ALPHA	18.2	3.99	1.995	0.251	4.573	3.81	PCI/G
4.5.C.R.9.2	15-30	ALPHA	13.2	3.65	1.825	0.300	3.963	3.94	PCI/G

Average: 14.62 1 Sigma: 0.390

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.3	30-60	ALPHA	13.4	3.63	1.815	0.304	4.068	3.85	PCI/G
4.5.A.R.1.3	30-60	ALPHA	15.1	3.64	1.820	0.302	4.559	3.95	PCI/G
4.5.B.R.1.3	30-60	ALPHA	27.8	5.44	2.720	0.135	3.758	3.93	PCI/G
4.5.B.R.2.3	30-60	ALPHA	16.7	4.25	2.125	0.221	3.698	3.99	PCI/G
4.5.C.R.1.3	30-60	ALPHA	16.3	3.97	1.985	0.254	4.137	3.97	PCI/G
4.5.C.R.2.3	30-60	ALPHA	22.1	4.74	2.370	0.178	3.935	3.98	PCI/G

Average: 17.33 1 Sigma: 0.847

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.4	60-100	ALPHA	14.3	3.3	1.650	0.367	5.253	3.28	PCI/G
4.5.A.R.1.4	60-100	ALPHA	16.1	3.83	1.915	0.273	4.390	3.93	PCI/G
4.5.B.R.1.4	60-100	ALPHA	16.6	4.28	2.140	0.218	3.625	4.00	PCI/G
4.5.B.R.2.4	60-100	ALPHA	17.6	4.06	2.030	0.243	4.271	3.95	PCI/G
4.5.C.R.1.4	60-100	ALPHA	21.1	4.85	2.425	0.170	3.588	3.98	PCI/G
4.5.C.R.2.4	60-100	ALPHA	16.9	4	2.000	0.250	4.225	3.92	PCI/G

Average: 16.67 1 Sigma: 0.811

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.1	0-15	BETA	21.9	2.45	1.225	0.666	14.594	2.57	PCI/G
4.5.A.R.2.1	0-15	BETA	40.8	3.94	1.970	0.258	10.513	3.31	PCI/G
4.5.A.R.3.1	0-15	BETA	22	2.68	1.340	0.557	12.252	2.98	PCI/G
4.5.A.R.4.1	0-15	BETA	26.4	3.32	1.660	0.363	9.580	3.11	PCI/G
4.5.A.R.5.1	0-15	BETA	23.5	3.35	1.675	0.356	8.376	2.33	PCI/G
4.5.A.R.6.1	0-15	BETA	23.9	3.97	1.985	0.254	6.066	4.12	PCI/G
4.5.A.R.7.1	0-15	BETA	22.1	3.26	1.630	0.376	8.318	2.88	PCI/G
4.5.B.R.1.1	0-15	BETA	24.2	1.65	0.825	1.469	35.556	3.45	PCI/G
4.5.B.R.2.1	0-15	BETA	20.5	1.93	0.965	1.074	22.014	3.19	PCI/G
4.5.B.R.3.1	0-15	BETA	21.5	3.64	1.820	0.302	6.491	3.12	PCI/G
4.5.B.R.4.1	0-15	BETA	23.7	2.82	1.410	0.503	11.921	3.32	PCI/G
4.5.B.R.5.1	0-15	BETA	23.7	3.13	1.565	0.408	9.677	2.28	PCI/G
4.5.B.R.6.1	0-15	BETA	24.5	3.39	1.695	0.348	8.528	3.74	PCI/G
4.5.B.R.7.1	0-15	BETA	19	2.73	1.365	0.537	10.197	2.85	PCI/G
4.5.B.R.8.1	0-15	BETA	23	3.34	1.670	0.359	8.247	3.97	PCI/G
4.5.C.R.1.1	0-15	BETA	15.8	3.12	1.560	0.411	6.492	2.47	PCI/G
4.5.C.R.2.1	0-15	BETA	23.5	3.67	1.835	0.297	6.979	3.12	PCI/G
4.5.C.R.3.1	0-15	BETA	27.5	2.77	1.385	0.521	14.336	2.67	PCI/G
4.5.C.R.4.1	0-15	BETA	24.2	2.97	1.485	0.453	10.974	3.75	PCI/G
4.5.C.R.5.1	0-15	BETA	22.2	4.03	2.015	0.246	5.468	3.58	PCI/G
4.5.C.R.6.1	0-15	BETA	23.4	3.46	1.730	0.334	7.819	3.22	PCI/G
4.5.C.R.7.1	0-15	BETA	22.1	3.78	1.890	0.280	6.187	2.97	PCI/G
4.5.C.R.8.1	0-15	BETA	22.8	3.59	1.795	0.310	7.076	3.33	PCI/G
4.5.C.R.9.1	0-15	BETA	27.4	3.59	1.795	0.310	8.504	3.05	PCI/G

Average:            23.30            1 Sigma:            0.302

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.2	15-30	BETA	26.5	3.05	1.525	0.430	11.395	2.87	PCI/G
4.5.B.R.1.2	15-30	BETA	27.2	3.07	1.535	0.424	11.544	2.35	PCI/G
4.5.C.R.2.2	15-30	BETA	31.6	3.63	1.815	0.304	9.593	3.23	PCI/G
4.5.C.R.5.2	15-30	BETA	26.3	2.91	1.455	0.472	12.423	2.30	PCI/G
4.5.A.R.2.2	15-30	BETA	24.9	3.83	1.915	0.273	6.790	4.24	PCI/G
4.5.A.R.3.2	15-30	BETA	19.4	3.03	1.515	0.436	8.452	2.95	PCI/G
4.5.A.R.4.2	15-30	BETA	19	3.17	1.585	0.398	7.563	3.53	PCI/G
4.5.A.R.5.2	15-30	BETA	24.4	2.4	1.200	0.694	16.944	3.89	PCI/G
4.5.A.R.6.2	15-30	BETA	22.1	3.3	1.650	0.367	8.118	2.41	PCI/G
4.5.A.R.7.2	15-30	BETA	23.2	2.76	1.380	0.525	12.182	3.48	PCI/G
4.5.B.R.2.2	15-30	BETA	23.2	3.48	1.740	0.330	7.663	3.27	PCI/G
4.5.B.R.3.2	15-30	BETA	20.4	3.29	1.645	0.370	7.539	2.47	PCI/G
4.5.B.R.4.2	15-30	BETA	24.6	3.57	1.785	0.314	7.721	2.81	PCI/G
4.5.B.R.5.2	15-30	BETA	34.6	3.76	1.880	0.283	9.789	2.55	PCI/G
4.5.B.R.6.2	15-30	BETA	22	3.28	1.640	0.372	8.180	3	PCI/G
4.5.B.R.7.2	15-30	BETA	19.7	2.97	1.485	0.453	8.933	3.32	PCI/G
4.5.B.R.8.2	15-30	BETA	31.5	3.03	1.515	0.436	13.724	2.94	PCI/G
4.5.C.R.1.2	15-30	BETA	26.2	2.74	1.370	0.533	13.959	4.24	PCI/G
4.5.C.R.3.2	15-30	BETA	23.8	3.49	1.745	0.328	7.816	2.87	PCI/G
4.5.C.R.4.2	15-30	BETA	24.3	3.35	1.675	0.356	8.661	1.77	PCI/G
4.5.C.R.6.2	15-30	BETA	24.7	2.96	1.480	0.457	11.276	2.47	PCI/G
4.5.C.R.7.2	15-30	BETA	24.9	2.97	1.485	0.453	11.291	4.03	PCI/G
4.5.C.R.8.2	15-30	BETA	28.7	3.36	1.680	0.354	10.169	3.41	PCI/G
4.5.C.R.9.2	15-30	BETA	24.1	3.3	1.650	0.367	8.852	2.22	PCI/G

Average: 24.72 1 Sigma: 0.321

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.3	30-60	BETA	22.3	2.98	1.490	0.450	10.045	3.91	PCI/G
4.5.A.R.1.3	30-60	BETA	20.9	2.48	1.240	0.650	13.593	2.50	PCI/G
4.5.B.R.1.3	30-60	BETA	21.9	2.68	1.340	0.557	12.196	2.19	PCI/G
4.5.B.R.2.3	30-60	BETA	21.1	2.79	1.395	0.514	10.843	2.62	PCI/G
4.5.C.R.1.3	30-60	BETA	21.8	2.94	1.470	0.463	10.088	3.45	PCI/G
4.5.C.R.2.3	30-60	BETA	23.9	2.9	1.450	0.476	11.367	2.68	PCI/G

Average: 21.91 1 Sigma: 0.567

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.4	60-100	BETA	23.7	2.53	1.265	0.625	14.810	3.18	PCI/G
4.5.A.R.1.4	60-100	BETA	16.5	2.64	1.320	0.574	9.470	3.34	PCI/G
4.5.B.R.1.4	60-100	BETA	16.3	2.75	1.375	0.529	8.621	3.25	PCI/G
4.5.B.R.2.4	60-100	BETA	20.3	2.72	1.360	0.541	10.975	3.19	PCI/G
4.5.C.R.1.4	60-100	BETA	23.3	2.96	1.480	0.457	10.637	2.74	PCI/G
4.5.C.R.2.4	60-100	BETA	21.2	2.72	1.360	0.541	11.462	2.65	PCI/G

Average: 20.20 1 Sigma: 0.553

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.1	0-15	Cesium-137	0.788	0.0946	0.047	446.969	352.212	0.0701	PCI/G
4.5.A.R.2.1	0-15	Cesium-137	0.967	0.0992	0.050	406.478	393.064	0.0652	PCI/G
4.5.A.R.3.1	0-15	Cesium-137	1.27	0.142	0.071	198.373	251.934	0.0881	PCI/G
4.5.A.R.4.1	0-15	Cesium-137	0.252	0.105	0.053	362.812	91.429	0.0774	PCI/G
4.5.A.R.5.1	0-15	Cesium-137	0.9	0.128	0.064	244.141	219.727	0.0804	PCI/G
4.5.A.R.6.1	0-15	Cesium-137	0.973	0.158	0.079	160.231	155.905	0.0675	PCI/G
4.5.A.R.7.1	0-15	Cesium-137	0.784	0.125	0.063	256.000	200.704	0.0764	PCI/G
4.5.B.R.1.1	0-15	Cesium-137	0.381	0.102	0.051	384.468	146.482	0.0819	PCI/G
4.5.B.R.2.1	0-15	Cesium-137	0.944	0.114	0.057	307.787	290.551	0.0578	PCI/G
4.5.B.R.3.1	0-15	Cesium-137	0.349	0.0711	0.036	791.263	276.151	0.096	PCI/G
4.5.B.R.4.1	0-15	Cesium-137	0.832	0.125	0.063	256.000	212.992	0.105	PCI/G
4.5.B.R.5.1	0-15	Cesium-137	0.399	0.103	0.052	377.038	150.438	0.0727	PCI/G
4.5.B.R.6.1	0-15	Cesium-137	1.43	0.163	0.082	150.551	215.288	0.0857	PCI/G
4.5.B.R.7.1	0-15	Cesium-137	0.659	0.094	0.047	452.694	298.325	0.0905	PCI/G
4.5.B.R.8.1	0-15	Cesium-137	1.36	0.145	0.073	190.250	258.740	0.0737	PCI/G
4.5.C.R.1.1	0-15	Cesium-137	0.811	0.093	0.047	462.481	375.072	0.0731	PCI/G
4.5.C.R.2.1	0-15	Cesium-137	0.174	0.0646	0.032	958.506	166.780	0.0628	PCI/G
4.5.C.R.3.1	0-15	Cesium-137	0.773	0.0729	0.036	752.671	581.814	0.0726	PCI/G
4.5.C.R.4.1	0-15	Cesium-137	0.706	0.0838	0.042	569.603	402.139	0.0943	PCI/G
4.5.C.R.5.1	0-15	Cesium-137	0.228	0.086	0.043	540.833	123.310	0.0855	PCI/G
4.5.C.R.6.1	0-15	Cesium-137	0.761	0.0803	0.040	620.339	472.078	0.086	PCI/G
4.5.C.R.7.1	0-15	Cesium-137	0.964	0.0872	0.044	526.050	507.112	0.0825	PCI/G
4.5.C.R.8.1	0-15	Cesium-137	0.703	0.0778	0.039	660.847	464.575	0.0599	PCI/G
4.5.C.R.9.1	0-15	Cesium-137	2.17	0.14	0.070	204.082	442.857	0.07	PCI/G

Average: 0.69      1 Sigma: 0.010

Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.1.2	15-30	Cesium-137	1.04	0.125	0.063	256.000	266.240	0.127	PCI/G
4.5.B.R.1.2	15-30	Cesium-137	1.52	0.161	0.081	154.315	234.559	0.0695	PCI/G
4.5.C.R.2.2	15-30	Cesium-137	0.228	0.1	0.050	400.000	91.200	0.0865	PCI/G
4.5.C.R.5.2	15-30	Cesium-137	0.258	0.15	0.075	177.778	45.867	0.126	PCI/G
4.5.A.R.2.2	15-30	Cesium-137	0.37	0.101	0.051	392.118	145.084	0.0512	PCI/G
4.5.A.R.3.2	15-30	Cesium-137	0.867	0.114	0.057	307.787	266.851	0.0952	PCI/G
4.5.A.R.4.2	15-30	Cesium-137	0.0736	0.0453	0.023	1949.232	143.463	0.0853	PCI/G
4.5.A.R.5.2	15-30	Cesium-137	0.31	0.099	0.050	408.122	126.518	0.109	PCI/G
4.5.A.R.6.2	15-30	Cesium-137	0.631	0.0869	0.043	529.688	334.233	0.0675	PCI/G
4.5.A.R.7.2	15-30	Cesium-137	0.693	0.0895	0.045	499.360	346.057	0.0716	PCI/G
4.5.B.R.2.2	15-30	Cesium-137	1.87	0.164	0.082	148.721	278.108	0.0725	PCI/G
4.5.B.R.3.2	15-30	Cesium-137	0.617	0.126	0.063	251.953	155.455	0.0638	PCI/G
4.5.B.R.4.2	15-30	Cesium-137	0.334	0.0957	0.048	436.753	145.876	0.0708	PCI/G
4.5.B.R.5.2	15-30	Cesium-137	0.769	0.119	0.060	282.466	217.216	0.0664	PCI/G
4.5.B.R.6.2	15-30	Cesium-137	0.65	0.0771	0.039	672.901	437.386	0.0819	PCI/G
4.5.B.R.7.2	15-30	Cesium-137	0.34	0.104	0.052	369.822	125.740	0.0771	PCI/G
4.5.B.R.8.2	15-30	Cesium-137	0.593	0.0916	0.046	476.726	282.699	0.086	PCI/G
4.5.C.R.1.2	15-30	Cesium-137	0.486	0.107	0.054	349.375	169.796	0.126	PCI/G
4.5.C.R.3.2	15-30	Cesium-137	0.688	0.086	0.043	540.833	372.093	0.0836	PCI/G
4.5.C.R.4.2	15-30	Cesium-137	0.311	0.0808	0.040	612.685	190.545	0.0789	PCI/G
4.5.C.R.6.2	15-30	Cesium-137	0.199	0.0986	0.049	411.440	81.876	0.0807	PCI/G
4.5.C.R.7.2	15-30	Cesium-137	0.57	0.0989	0.049	408.947	233.100	0.0932	PCI/G
4.5.C.R.8.2	15-30	Cesium-137	0.265	0.0872	0.044	526.050	139.403	0.054	PCI/G
4.5.C.R.9.2	15-30	Cesium-137	2.05	0.195	0.098	105.194	215.648	0.0528	PCI/G

Average: 0.47 1 Sigma: 0.010

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.3	30-60	Cesium-137	0.0711	0.042	0.021	2267.574	161.224	0.0585	PCI/G
4.5.A.R.1.3	30-60	Cesium-137	0.162	0.065	0.033	946.746	153.373	0.0542	PCI/G
4.5.B.R.1.3	30-60	Cesium-137	0.481	0.0908	0.045	485.164	233.364	0.0735	PCI/G
4.5.B.R.2.3	30-60	Cesium-137	0.139	0.0833	0.042	576.461	80.128	0.0784	PCI/G
4.5.C.R.1.3	30-60	Cesium-137	-0.00469	0.043	0.022	2163.332	-10.146	0.0826	PCI/G
4.5.C.R.2.3	30-60	Cesium-137	0.225	0.0798	0.040	628.137	141.331	0.0759	PCI/G

Average: 0.11 1 Sigma: 0.012

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
4.5.A.R.2.4	60-100	Cesium-137	0.0961	0.0462	0.023	1874.028	180.094	0.0784	PCI/G
4.5.A.R.1.4	60-100	Cesium-137	0	0.039	0.020	2629.849	0.000	0.0849	PCI/G
4.5.B.R.1.4	60-100	Cesium-137	0.0702	0.0653	0.033	938.067	65.852	0.089	PCI/G
4.5.B.R.2.4	60-100	Cesium-137	0.148	0.0611	0.031	1071.464	158.577	0.063	PCI/G
4.5.C.R.1.4	60-100	Cesium-137	-0.00211	0.0311	0.016	4135.607	-8.726	0.0647	PCI/G
4.5.C.R.2.4	60-100	Cesium-137	0	0.0407	0.020	2414.744	0.000	0.0895	PCI/G

Average: 0.03 1 Sigma: 0.009

Appendix H2: Soil Analysis

Area 5

Sub-Area 5.1

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.1	0-15	ALPHA	7.8	1.69	0.845	1.401	10.924	2.17	PCI/G
5.1.A.R.2.1	0-15	ALPHA	13.3	3.96	1.980	0.255	3.393	3.96	PCI/G
5.1.B.R.1.1	0-15	ALPHA	10.5	3.89	1.945	0.264	2.776	3.62	PCI/G
5.1.B.R.2.1	0-15	ALPHA	12.1	3.98	1.990	0.253	3.055	3.52	PCI/G

Average: 9.27 1 Sigma: 0.678

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.2.2	15-30	ALPHA	16.5	3.99	1.995	0.251	4.146	3.81	PCI/G
5.1.A.R.1.2	15-30	ALPHA	19.9	3.99	1.995	0.251	5.000	3.98	PCI/G
5.1.B.R.2.2	15-30	ALPHA	28.5	6.85	3.425	0.085	2.430	3.64	PCI/G
5.1.B.R.1.2	15-30	ALPHA	8.15	3.17	1.585	0.398	3.244	3.88	PCI/G

Average: 15.03 1 Sigma: 1.007

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.3	30-60	ALPHA	17.4	3.7	1.850	0.292	5.084	3.92	PCI/G

Average: 17.40 1 Sigma: 1.850

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.4	60-100	ALPHA	7.02	1.59	0.795	1.582	11.107	1.98	PCI/G

Average: 7.02 1 Sigma: 0.795

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.1	0-15	BETA	15.5	1.75	0.875	1.306	20.245	2.37	PCI/G
5.1.A.R.2.1	0-15	BETA	21	3.69	1.845	0.294	6.169	3.91	PCI/G
5.1.B.R.1.1	0-15	BETA	18.3	3.37	1.685	0.352	6.445	3.32	PCI/G
5.1.B.R.2.1	0-15	BETA	15.5	3.03	1.515	0.436	6.753	3.04	PCI/G

Average: 16.59 1 Sigma: 0.647

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.2.2	15-30	BETA	22.4	3.27	1.635	0.374	8.379	3.69	PCI/G
5.1.A.R.1.2	15-30	BETA	24.8	3.02	1.510	0.439	10.877	3.45	PCI/G
5.1.B.R.2.2	15-30	BETA	37.7	4.83	2.415	0.171	6.464	2.94	PCI/G
5.1.B.R.1.2	15-30	BETA	14.1	2.81	1.405	0.507	7.143	3.34	PCI/G

Average: 22.05 1 Sigma: 0.819

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.3	30-60	BETA	22.6	2.51	1.255	0.635	14.349	2.42	PCI/G

Average: 22.60 1 Sigma: 1.255



## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.4	60-100	BETA	15.5	1.47	0.735	1.851	28.692	1.81	PCI/G

Average:            15.50            1 Sigma:        0.735

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.1	0-15	Cesium-137	0.315	0.0922	0.046	470.542	148.221	0.0739	PCI/G
5.1.A.R.2.1	0-15	Cesium-137	0.564	0.117	0.059	292.205	164.804	0.0618	PCI/G
5.1.B.R.1.1	0-15	Cesium-137	0.465	0.0788	0.039	644.180	299.544	0.071	PCI/G
5.1.B.R.2.1	0-15	Cesium-137	0.29	0.0989	0.049	408.947	118.595	0.0549	PCI/G

Average:            0.40            1 Sigma:        0.023

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.2.2	15-30	Cesium-137	0.0223	0.0316	0.016	4005.768	89.329	0.063	PCI/G
5.1.A.R.1.2	15-30	Cesium-137	0.072	0.0437	0.022	2094.581	150.810	0.055	PCI/G
5.1.B.R.2.2	15-30	Cesium-137	0.0251	0.039	0.020	2629.849	66.009	0.0783	PCI/G
5.1.B.R.1.2	15-30	Cesium-137	0.0646	0.0487	0.024	1686.561	108.952	0.0602	PCI/G

Average:            0.04            1 Sigma:        0.010

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.3	30-60	Cesium-137	0.094	0.0438	0.022	2085.027	195.993	0.0505	PCI/G

Average:            0.09            1 Sigma:        0.022

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.1.A.R.1.4	60-100	Cesium-137	-0.0301	0.0346	0.017	3341.241	-100.571	0.0611	PCI/G

Average:            -0.03            1 Sigma:        0.017

### Sub-Area 5.2

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.1	0-15	ALPHA	10.3	3.89	1.945	0.264	2.723	3.76	PCI/G
5.2.A.R.2.1	0-15	ALPHA	6.11	3.12	1.560	0.411	2.511	3.67	PCI/G
5.2.A.R.3.1	0-15	ALPHA	7.94	3.33	1.665	0.361	2.864	3.93	PCI/G
5.2.A.R.4.1	0-15	ALPHA	7.8	3.22	1.610	0.386	3.009	3.98	PCI/G
5.2.A.R.5.1	0-15	ALPHA	9.21	3.6	1.800	0.309	2.843	0.0664	PCI/G
5.2.A.R.6.1	0-15	ALPHA	14.1	4.3	2.150	0.216	3.050	0.0773	PCI/G
5.2.A.R.7.1	0-15	ALPHA	9.87	3.32	1.660	0.363	3.582	1.4	PCI/G
5.2.B.R.1.1	0-15	ALPHA	6.92	2.18	1.090	0.842	5.824	3.18	PCI/G
5.2.B.R.2.1	0-15	ALPHA	9.88	1.75	0.875	1.306	12.904	2.04	PCI/G
5.2.B.R.3.1	0-15	ALPHA	8.54	3.22	1.610	0.386	3.295	3.49	PCI/G
5.2.B.R.4.1	0-15	ALPHA	11.3	3.65	1.825	0.300	3.393	1.14	PCI/G
5.2.B.R.5.1	0-15	ALPHA	7.98	3.22	1.610	0.386	3.079	1.36	PCI/G
5.2.B.R.6.1	0-15	ALPHA	10.2	3.51	1.755	0.325	3.312	1.43	PCI/G
5.2.B.R.7.1	0-15	ALPHA	9.88	3.17	1.585	0.398	3.933	0.973	PCI/G
5.2.B.R.8.1	0-15	ALPHA	9.88	2.91	1.455	0.472	4.667	1.59	PCI/G

Average:            9.07            1 Sigma:        0.386

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.2.2	15-30	ALPHA	9.16	3.88	1.940	0.266	2.434	3.77	PCI/G
5.2.A.R.3.2	15-30	ALPHA	11.1	3.56	1.780	0.316	3.503	3.85	PCI/G
5.2.A.R.5.2	15-30	ALPHA	8.25	2.55	1.275	0.615	5.075	3	PCI/G
5.2.A.R.7.2	15-30	ALPHA	7.04	2.46	1.230	0.661	4.653	3.05	PCI/G
5.2.B.R.1.2	15-30	ALPHA	11.8	3.08	1.540	0.422	4.976	3.65	PCI/G
5.2.B.R.2.2	15-30	ALPHA	12.5	3.71	1.855	0.291	3.633	3.98	PCI/G
5.2.B.R.5.2	15-30	ALPHA	9.4	3.35	1.675	0.356	3.350	3.86	PCI/G
5.2.B.R.6.2	15-30	ALPHA	9.73	3.23	1.615	0.383	3.731	3.54	PCI/G
5.2.A.R.1.2	15-30	ALPHA	16.6	3.93	1.965	0.259	4.299	4.00	PCI/G
5.2.A.R.4.2	15-30	ALPHA	23.1	4.69	2.345	0.182	4.201	3.78	PCI/G
5.2.A.R.6.2	15-30	ALPHA	22.7	4.31	2.155	0.215	4.888	3.31	PCI/G
5.2.B.R.3.2	15-30	ALPHA	15.2	3.46	1.730	0.334	5.079	3.10	PCI/G
5.2.B.R.4.2	15-30	ALPHA	14.8	3.76	1.880	0.283	4.187	3.43	PCI/G
5.2.B.R.8.2	15-30	ALPHA	27.6	5.03	2.515	0.158	4.363	3.97	PCI/G
5.2.B.R.7.2	15-30	ALPHA	11.6	3.3	1.650	0.367	4.261	3.92	PCI/G

Average:            12.26            1 Sigma:            0.442

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.B.R.1.3	30-60	ALPHA	8.27	1.99	0.995	1.010	8.353	2.75	PCI/G
5.2.A.R.1.3	30-60	ALPHA	35.9	5.02	2.510	0.159	5.698	3.93	PCI/G
5.2.A.R.2.3	30-60	ALPHA	16.4	5.58	2.790	0.128	2.107	3.56	PCI/G
5.2.B.R.2.3	30-60	ALPHA	10.1	1.74	0.870	1.321	13.344	1.71	PCI/G

Average:            11.27            1 Sigma:            0.618

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.4	60-100	ALPHA	21.7	4.92	2.460	0.165	3.586	3.99	PCI/G
5.2.A.R.2.4	60-100	ALPHA	26.5	6.87	3.435	0.085	2.246	3.83	PCI/G
5.2.B.R.1.4	60-100	ALPHA	17	4.04	2.020	0.245	4.166	3.77	PCI/G
5.2.B.R.2.4	60-100	ALPHA	18.3	4.04	2.020	0.245	4.485	3.01	PCI/G

Average:            19.57            1 Sigma:            1.162

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.1	0-15	BETA	1.65	1.92	0.960	1.085	1.790	3.13	PCI/G
5.2.A.R.2.1	0-15	BETA	2.02	2.05	1.025	0.952	1.923	3.32	PCI/G
5.2.A.R.3.1	0-15	BETA	21.3	3.26	1.630	0.376	8.017	2.95	PCI/G
5.2.A.R.4.1	0-15	BETA	16	3.23	1.615	0.383	6.134	3.21	PCI/G
5.2.A.R.5.1	0-15	BETA	18.2	3.18	1.590	0.396	7.199	0.636	PCI/G
5.2.A.R.6.1	0-15	BETA	22.9	4.05	2.025	0.244	5.585	0.444	PCI/G
5.2.A.R.7.1	0-15	BETA	13.1	2.31	1.155	0.750	9.820	0.128	PCI/G
5.2.B.R.1.1	0-15	BETA	20.4	2.05	1.025	0.952	19.417	2.72	PCI/G
5.2.B.R.2.1	0-15	BETA	16.9	1.71	0.855	1.368	23.118	2.24	PCI/G
5.2.B.R.3.1	0-15	BETA	18.7	3.33	1.665	0.361	6.745	3.77	PCI/G
5.2.B.R.4.1	0-15	BETA	19.4	3.08	1.540	0.422	8.180	0.0754	PCI/G
5.2.B.R.5.1	0-15	BETA	20.4	3.27	1.635	0.374	7.631	0.0771	PCI/G
5.2.B.R.6.1	0-15	BETA	17.6	3.23	1.615	0.383	6.748	0.0734	PCI/G
5.2.B.R.7.1	0-15	BETA	19	3.27	1.635	0.374	7.108	0.0656	PCI/G
5.2.B.R.8.1	0-15	BETA	14.4	2.92	1.460	0.469	6.755	0.0921	PCI/G

Average:            14.19            1 Sigma:            0.335

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.2.2	15-30	BETA	19.1	3.29	1.645	0.370	7.058	2.69	PCI/G
5.2.A.R.3.2	15-30	BETA	21.6	3.41	1.705	0.344	7.430	3.87	PCI/G
5.2.A.R.5.2	15-30	BETA	15.7	2.62	1.310	0.583	9.149	3.35	PCI/G
5.2.A.R.7.2	15-30	BETA	20.3	2.69	1.345	0.553	11.222	3.2	PCI/G
5.2.B.R.1.2	15-30	BETA	19.3	2.5	1.250	0.640	12.352	2.98	PCI/G
5.2.B.R.2.2	15-30	BETA	22.9	3.24	1.620	0.381	8.726	3.61	PCI/G
5.2.B.R.5.2	15-30	BETA	14.6	3.08	1.540	0.422	6.156	4.08	PCI/G
5.2.B.R.6.2	15-30	BETA	19	3.18	1.590	0.396	7.516	3.79	PCI/G
5.2.A.R.1.2	15-30	BETA	31.2	3.15	1.575	0.403	12.577	2.56	PCI/G
5.2.A.R.4.2	15-30	BETA	26.6	3.05	1.525	0.430	11.438	3.26	PCI/G
5.2.A.R.6.2	15-30	BETA	30.6	2.98	1.490	0.450	13.783	2.70	PCI/G
5.2.B.R.3.2	15-30	BETA	23.8	2.74	1.370	0.533	12.680	2.70	PCI/G
5.2.B.R.4.2	15-30	BETA	19	2.6	1.300	0.592	11.243	2.90	PCI/G
5.2.B.R.8.2	15-30	BETA	39.4	3.28	1.640	0.372	14.649	2.74	PCI/G
5.2.B.R.7.2	15-30	BETA	15.9	2.44	1.220	0.672	10.683	3.01	PCI/G

Average:            21.94            1 Sigma:            0.374

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.B.R.1.3	30-60	BETA	18.1	1.69	0.845	1.401	25.349	2.16	PCI/G
5.2.A.R.1.3	30-60	BETA	39.3	3.2	1.600	0.391	15.352	2.23	PCI/G
5.2.A.R.2.3	30-60	BETA	17.7	3.85	1.925	0.270	4.777	3.41	PCI/G
5.2.B.R.2.3	30-60	BETA	15.9	1.67	0.835	1.434	22.805	2.19	PCI/G

Average:            19.54            1 Sigma:            0.535

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.4	60-100	BETA	31.5	3.8	1.900	0.277	8.726	3.63	PCI/G
5.2.A.R.2.4	60-100	BETA	28.9	4.26	2.130	0.220	6.370	2.69	PCI/G
5.2.B.R.1.4	60-100	BETA	21.4	2.76	1.380	0.525	11.237	3.02	PCI/G
5.2.B.R.2.4	60-100	BETA	22.9	2.72	1.360	0.541	12.381	2.74	PCI/G

Average:            24.77            1 Sigma:        0.800

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.1	0-15	Cesium-137	0.34	0.0999	0.050	400.801	136.272	0.0911	PCI/G
5.2.A.R.2.1	0-15	Cesium-137	0.363	0.0832	0.042	577.848	209.759	0.0798	PCI/G
5.2.A.R.3.1	0-15	Cesium-137	0.614	0.0805	0.040	617.260	378.998	0.0631	PCI/G
5.2.A.R.4.1	0-15	Cesium-137	0.264	0.0736	0.037	738.422	194.943	0.0581	PCI/G
5.2.A.R.5.1	0-15	Cesium-137	0.575	0.0912	0.046	480.917	276.527	0.12	PCI/G
5.2.A.R.6.1	0-15	Cesium-137	0.326	0.0771	0.039	672.901	219.366	0.944	PCI/G
5.2.A.R.7.1	0-15	Cesium-137	0.758	0.115	0.058	302.457	229.263	0.398	PCI/G
5.2.B.R.1.1	0-15	Cesium-137	0.821	0.126	0.063	251.953	206.853	0.079	PCI/G
5.2.B.R.2.1	0-15	Cesium-137	0.412	0.0905	0.045	488.386	201.215	0.0836	PCI/G
5.2.B.R.3.1	0-15	Cesium-137	0.333	0.0788	0.039	644.180	214.512	0.0681	PCI/G
5.2.B.R.4.1	0-15	Cesium-137	0.292	0.11	0.055	330.579	96.529	0.293	PCI/G
5.2.B.R.5.1	0-15	Cesium-137	0.682	0.111	0.056	324.649	221.411	0.335	PCI/G
5.2.B.R.6.1	0-15	Cesium-137	0.529	0.0904	0.045	489.467	258.928	0.4	PCI/G
5.2.B.R.7.1	0-15	Cesium-137	0.863	0.124	0.062	260.146	224.506	0.121	PCI/G
5.2.B.R.8.1	0-15	Cesium-137	0.274	0.0685	0.034	852.469	233.577	0.135	PCI/G

Average:            0.44            1 Sigma:        0.012

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.2.2	15-30	Cesium-137	0.12	0.0581	0.029	1184.971	142.197	0.0491	PCI/G
5.2.A.R.3.2	15-30	Cesium-137	0.11	0.0569	0.028	1235.479	135.903	0.0992	PCI/G
5.2.A.R.5.2	15-30	Cesium-137	0.0561	0.0468	0.023	1826.284	102.455	0.079	PCI/G
5.2.A.R.7.2	15-30	Cesium-137	0.0887	0.0522	0.026	1467.976	130.209	0.0517	PCI/G
5.2.B.R.1.2	15-30	Cesium-137	0.143	0.0658	0.033	923.864	132.113	0.0756	PCI/G
5.2.B.R.2.2	15-30	Cesium-137	0	0.0383	0.019	2726.858	0.000	0.0816	PCI/G
5.2.B.R.5.2	15-30	Cesium-137	0.0653	0.0728	0.036	754.740	49.285	0.0565	PCI/G
5.2.B.R.6.2	15-30	Cesium-137	0.196	0.0722	0.036	767.336	150.398	0.072	PCI/G
5.2.A.R.1.2	15-30	Cesium-137	0	0.0638	0.032	982.695	0.000	0.0743	PCI/G
5.2.A.R.4.2	15-30	Cesium-137	0	0.0803	0.040	620.339	0.000	0.0907	PCI/G
5.2.A.R.6.2	15-30	Cesium-137	0	0.0428	0.021	2183.597	0.000	0.0368	PCI/G
5.2.B.R.3.2	15-30	Cesium-137	0	0.071	0.036	793.493	0.000	0.0657	PCI/G
5.2.B.R.4.2	15-30	Cesium-137	0	0.0625	0.031	1024.000	0.000	0.0605	PCI/G
5.2.B.R.8.2	15-30	Cesium-137	0.121	0.0558	0.028	1284.670	155.445	0.0623	PCI/G
5.2.B.R.7.2	15-30	Cesium-137	0.105	0.0519	0.026	1484.996	155.925	0.0629	PCI/G

Average:            0.06            1 Sigma:        0.007

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.B.R.1.3	30-60	Cesium-137	0.0617	0.0673	0.034	883.141	54.490	0.0685	PCI/G
5.2.A.R.1.3	30-60	Cesium-137	0.0309	0.0428	0.021	2183.597	67.473	0.0883	PCI/G
5.2.A.R.2.3	30-60	Cesium-137	0.0325	0.0369	0.018	2937.699	95.475	0.0774	PCI/G
5.2.B.R.2.3	30-60	Cesium-137	0.109	0.0489	0.024	1672.793	182.334	0.0699	PCI/G

Average:            0.05            1 Sigma:        0.011

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.2.A.R.1.4	60-100	Cesium-137	-0.0037	0.0402	0.020	2475.186	-9.158	0.0763	PCI/G
5.2.A.R.2.4	60-100	Cesium-137	0	0.0333	0.017	3607.211	0.000	0.0772	PCI/G
5.2.B.R.1.4	60-100	Cesium-137	-0.00406	0.0411	0.021	2367.971	-9.614	0.0794	PCI/G
5.2.B.R.2.4	60-100	Cesium-137	0.0159	0.0264	0.013	5739.210	91.253	0.0564	PCI/G

Average:            0.01            1 Sigma:        0.008

### Sub-Area 5.3

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.1	0-15	ALPHA	9.56	2.14	1.070	0.873	8.350	2.7	PCI/G
5.3.A.R.2.1	0-15	ALPHA	6	2.85	1.425	0.492	2.955	1.29	PCI/G
5.3.A.R.3.1	0-15	ALPHA	10.5	3.33	1.665	0.361	3.788	1.06	PCI/G
5.3.A.R.4.1	0-15	ALPHA	10.2	3.4	1.700	0.346	3.529	1.55	PCI/G

Average:            8.98            1 Sigma:        0.695

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.2	15-30	ALPHA	17.1	4.02	2.010	0.248	4.233	3.95	PCI/G
5.3.A.R.2.2	15-30	ALPHA	12.5	3.02	1.510	0.439	5.482	3.3	PCI/G
5.3.A.R.3.2	15-30	ALPHA	8.9	2.87	1.435	0.486	4.322	3.46	PCI/G
5.3.A.R.4.2	15-30	ALPHA	10.3	3.24	1.620	0.381	3.925	3.23	PCI/G

Average:            11.57           1 Sigma:        0.803

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.3	30-60	ALPHA	15.1	3.78	1.890	0.280	4.227	2.92	PCI/G

Average:            15.10           1 Sigma:        1.890

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.4	60-100	ALPHA	9.99	1.98	0.990	1.020	10.193	2.24	PCI/G

Average:            9.99            1 Sigma:        0.990

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.1	0-15	BETA	21.6	2.06	1.030	0.943	20.360	2.66	PCI/G
5.3.A.R.2.1	0-15	BETA	23.4	3.94	1.970	0.258	6.030	0.0698	PCI/G
5.3.A.R.3.1	0-15	BETA	21.5	3.24	1.620	0.381	8.192	0.0602	PCI/G
5.3.A.R.4.1	0-15	BETA	19.5	2.78	1.390	0.518	10.093	0.0999	PCI/G

Average:            21.28           1 Sigma:        0.690

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.2	15-30	BETA	18.3	2.68	1.340	0.557	10.192	2.85	PCI/G
5.3.A.R.2.2	15-30	BETA	14.8	2.3	1.150	0.756	11.191	2.73	PCI/G
5.3.A.R.3.2	15-30	BETA	18.2	2.39	1.195	0.700	12.745	2.74	PCI/G
5.3.A.R.4.2	15-30	BETA	17.7	3.32	1.660	0.363	6.423	4.22	PCI/G

Average:            17.07            1 Sigma:            0.649

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.3	30-60	BETA	18.7	2.48	1.240	0.650	12.162	2.72	PCI/G

Average:            18.70            1 Sigma:            1.240

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.4	60-100	BETA	18.5	1.86	0.930	1.156	21.390	2.39	PCI/G

Average:            18.50            1 Sigma:            0.930

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.1	0-15	Cesium-137	0.659	0.119	0.060	282.466	186.145	0.0761	PCI/G
5.3.A.R.2.1	0-15	Cesium-137	0.609	0.12	0.060	277.778	169.167	0.33	PCI/G
5.3.A.R.3.1	0-15	Cesium-137	0.559	0.102	0.051	384.468	214.917	0.3	PCI/G
5.3.A.R.4.1	0-15	Cesium-137	0.635	0.086	0.043	540.833	343.429	0.217	PCI/G

Average:            0.62            1 Sigma:            0.026

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.2	15-30	Cesium-137	0	0.0369	0.018	2937.699	0.000	0.0804	PCI/G
5.3.A.R.2.2	15-30	Cesium-137	0.0604	0.0457	0.023	1915.259	115.682	0.071	PCI/G
5.3.A.R.3.2	15-30	Cesium-137	0.177	0.0598	0.030	1118.556	197.984	0.0677	PCI/G
5.3.A.R.4.2	15-30	Cesium-137	0.0692	0.0428	0.021	2183.597	151.105	0.0715	PCI/G

Average:            0.06            1 Sigma:            0.011

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.3	30-60	Cesium-137	0.00388	0.0311	0.016	4135.607	16.046	0.061	PCI/G

Average:            0.00            1 Sigma:            0.016

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.3.A.R.1.4	60-100	Cesium-137	-0.0157	0.0325	0.016	3786.982	-59.456	0.0602	PCI/G

Average:            -0.02            1 Sigma:            0.016

## Appendix H2: Soil Analysis

### Sub-Area 5.4

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.1	0-15	ALPHA	9.69	3.44	1.720	0.338	3.275	3.96	PCI/G
5.4.A.R.2.1	0-15	ALPHA	6.91	2.99	1.495	0.447	3.092	1.15	PCI/G
5.4.A.R.3.1	0-15	ALPHA	11.9	3.58	1.790	0.312	3.714	1.29	PCI/G
5.4.A.R.4.1	0-15	ALPHA	12.2	3.56	1.780	0.316	3.851	1.03	PCI/G

Average:            9.86            1 Sigma:            0.841

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.2	15-30	ALPHA	11.2	3.14	1.570	0.406	4.544	3.93	PCI/G
5.4.A.R.2.2	15-30	ALPHA	10	2.83	1.415	0.499	4.994	3.29	PCI/G
5.4.A.R.4.2	15-30	ALPHA	8.56	3.96	1.980	0.255	2.183	3.55	PCI/G
5.4.A.R.3.2	15-30	ALPHA	15	3.54	1.770	0.319	4.788	3.92	PCI/G

Average:            11.16            1 Sigma:            0.822

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.3	30-60	ALPHA	9.45	4.22	2.110	0.225	2.123	3.42	PCI/G

Average:            9.45            1 Sigma:            2.110

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.4	60-100	ALPHA	13.3	3.94	1.970	0.258	3.427	3.88	PCI/G

Average:            13.30            1 Sigma:            1.970

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.1	0-15	BETA	16.5	2.77	1.385	0.521	8.602	2.83	PCI/G
5.4.A.R.2.1	0-15	BETA	19.6	3.39	1.695	0.348	6.822	0.0594	PCI/G
5.4.A.R.3.1	0-15	BETA	17.1	2.64	1.320	0.574	9.814	0.0531	PCI/G
5.4.A.R.4.1	0-15	BETA	18.2	2.89	1.445	0.479	8.716	0.0729	PCI/G

Average:            17.66            1 Sigma:            0.721

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.2	15-30	BETA	15	2.15	1.075	0.865	12.980	2.68	PCI/G
5.4.A.R.2.2	15-30	BETA	13.3	2.57	1.285	0.606	8.055	3.53	PCI/G
5.4.A.R.4.2	15-30	BETA	16.5	3.53	1.765	0.321	5.297	3.04	PCI/G
5.4.A.R.3.2	15-30	BETA	16.1	2.6	1.300	0.592	9.527	3.35	PCI/G

Average:            15.04            1 Sigma:            0.648

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.3	30-60	BETA	18.1	3.82	1.910	0.274	4.961	3.37	PCI/G

Average:            18.10            1 Sigma:            1.910

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.4	60-100	BETA	16.6	3.02	1.510	0.439	7.280	3.57	PCI/G

Average:            16.60            1 Sigma:            1.510

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.1	0-15	Cesium-137	0.41	0.101	0.051	392.118	160.769	0.0979	PCI/G
5.4.A.R.2.1	0-15	Cesium-137	0.548	0.102	0.051	384.468	210.688	0.301	PCI/G
5.4.A.R.3.1	0-15	Cesium-137	0.584	0.144	0.072	192.901	112.654	0.399	PCI/G
5.4.A.R.4.1	0-15	Cesium-137	0.364	0.0814	0.041	603.686	219.742	0.359	PCI/G

Average:            0.45            1 Sigma:            0.025

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.2	15-30	Cesium-137	0.0108	0.041	0.021	2379.536	25.699	0.0829	PCI/G
5.4.A.R.2.2	15-30	Cesium-137	0.0779	0.0794	0.040	634.482	49.426	0.0522	PCI/G
5.4.A.R.4.2	15-30	Cesium-137	0	0.0553	0.028	1308.006	0.000	0.0518	PCI/G
5.4.A.R.3.2	15-30	Cesium-137	0	0.0359	0.018	3103.638	0.000	0.0773	PCI/G

Average:            0.01            1 Sigma:            0.012

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.3	30-60	Cesium-137	0.00254	0.0268	0.013	5569.169	14.146	0.0519	PCI/G

Average:            0.00            1 Sigma:            0.013

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.4.A.R.1.4	60-100	Cesium-137	0	0.0307	0.015	4244.077	0.000	0.0638	PCI/G

Average:            0.00            1 Sigma:            0.015

### Sub-Area 5.5

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.1	0-15	ALPHA	9.84	3.81	1.905	0.276	2.711	3.98	PCI/G
5.5.A.R.2.1	0-15	ALPHA	12.8	3.68	1.840	0.295	3.781	0.321	PCI/G
5.5.A.R.3.1	0-15	ALPHA	8.9	3.38	1.690	0.350	3.116	0.361	PCI/G
5.5.A.R.4.1	0-15	ALPHA	9.55	3.03	1.515	0.436	4.161	0.13	PCI/G

Average:            10.15            1 Sigma:            0.859

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.2	15-30	ALPHA	7.69	2.92	1.460	0.469	3.608	3.46	PCI/G
5.5.A.R.2.2	15-30	ALPHA	5.23	2.74	1.370	0.533	2.787	3.94	PCI/G
5.5.A.R.3.2	15-30	ALPHA	9.5	2.97	1.485	0.453	4.308	3.01	PCI/G
5.5.A.R.4.2	15-30	ALPHA	9.86	3.33	1.665	0.361	3.557	3.94	PCI/G

Average:            7.85            1 Sigma:            0.742

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.3	30-60	ALPHA	17.3	5.81	2.905	0.118	2.050	3.91	PCI/G

Average:            17.30            1 Sigma:            2.905



## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.4	60-100	ALPHA	9.05	3.67	1.835	0.297	2.688	3.96	PCI/G

Average:            9.05            1 Sigma:        1.835

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.1	0-15	BETA	16.5	3.26	1.630	0.376	6.210	3.09	PCI/G
5.5.A.R.2.1	0-15	BETA	17.8	3.23	1.615	0.383	6.825	3.44	PCI/G
5.5.A.R.3.1	0-15	BETA	15.7	3.35	1.675	0.356	5.596	3.7	PCI/G
5.5.A.R.4.1	0-15	BETA	15.5	2.99	1.495	0.447	6.935	3.42	PCI/G

Average:            16.35            1 Sigma:        0.800

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.2	15-30	BETA	15.9	2.78	1.390	0.518	8.229	3.69	PCI/G
5.5.A.R.2.2	15-30	BETA	11	2.55	1.275	0.615	6.767	3.05	PCI/G
5.5.A.R.3.2	15-30	BETA	13	2.78	1.390	0.518	6.728	2.56	PCI/G
5.5.A.R.4.2	15-30	BETA	15.7	2.86	1.430	0.489	7.678	2.48	PCI/G

Average:            13.74            1 Sigma:        0.684

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.3	30-60	BETA	17	3.65	1.825	0.300	5.104	2.90	PCI/G

Average:            17.00            1 Sigma:        1.825

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.4	60-100	BETA	18.4	3.22	1.610	0.386	7.098	0.108	PCI/G

Average:            18.40            1 Sigma:        1.610

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.1	0-15	Cesium-137	0.491	0.0825	0.041	587.695	288.558	0.065	PCI/G
5.5.A.R.2.1	0-15	Cesium-137	0.408	0.0769	0.038	676.406	275.974	0.13	PCI/G
5.5.A.R.3.1	0-15	Cesium-137	0.568	0.0833	0.042	576.461	327.430	0.187	PCI/G
5.5.A.R.4.1	0-15	Cesium-137	0.633	0.11	0.055	330.579	209.256	0.16	PCI/G

Average:            0.51            1 Sigma:        0.021

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.2	15-30	Cesium-137	0.0166	0.0293	0.015	4659.344	77.345	0.0584	PCI/G
5.5.A.R.2.2	15-30	Cesium-137	0.00698	0.0372	0.019	2890.508	20.176	0.0752	PCI/G
5.5.A.R.3.2	15-30	Cesium-137	-0.000237	0.0367	0.018	2969.805	-0.704	0.0704	PCI/G
5.5.A.R.4.2	15-30	Cesium-137	0.0302	0.0415	0.021	2322.543	70.141	0.0858	PCI/G

Average:            0.01            1 Sigma:        0.009

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.3	30-60	Cesium-137	-0.00906	0.0273	0.014	5367.038	-48.625	0.0515	PCI/G

Average:            -0.01            1 Sigma:        0.014

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.5.A.R.1.4	60-100	Cesium-137	0.000574	0.036	0.018	3086.420	1.772	0.0705	PCI/G

Average:            0.00            1 Sigma:        0.018

### Sub-Area 5.6

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.1	0-15	ALPHA	5.54	3.01	1.505	0.441	2.446	3.8	PCI/G
5.6.A.R.2.1	0-15	ALPHA	5.81	2.85	1.425	0.492	2.861	0.124	PCI/G
5.6.A.R.3.1	0-15	ALPHA	10.1	3.31	1.655	0.365	3.687	0.292	PCI/G
5.6.A.R.4.1	0-15	ALPHA	6.55	2.79	1.395	0.514	3.366	0.869	PCI/G

Average:            6.82            1 Sigma:        0.743

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.2	15-30	ALPHA	3.95	2.39	1.195	0.700	2.766	3.67	PCI/G
5.6.A.R.2.2	15-30	ALPHA	11.9	3.18	1.590	0.396	4.707	3.18	PCI/G
5.6.A.R.3.2	15-30	ALPHA	9.96	2.93	1.465	0.466	4.641	3.1	PCI/G
5.6.A.R.4.2	15-30	ALPHA	11.2	4.09	2.045	0.239	2.678	3.99	PCI/G

Average:            8.21            1 Sigma:        0.745

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.4	60-100	ALPHA	4.78	2.79	1.395	0.514	2.456	3.97	PCI/G

Average:            4.78            1 Sigma:        1.395

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.1	0-15	BETA	9.87	2.93	1.465	0.466	4.599	3.12	PCI/G
5.6.A.R.2.1	0-15	BETA	41.9	3.95	1.975	0.256	10.742	3.12	PCI/G
5.6.A.R.3.1	0-15	BETA	16.5	3.14	1.570	0.406	6.694	2.82	PCI/G
5.6.A.R.4.1	0-15	BETA	11	2.2	1.100	0.826	9.091	4.5	PCI/G

Average:            15.93            1 Sigma:        0.715

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.2	15-30	BETA	14.4	2.43	1.215	0.677	9.755	3.79	PCI/G
5.6.A.R.2.2	15-30	BETA	18.6	2.87	1.435	0.486	9.033	3.81	PCI/G
5.6.A.R.3.2	15-30	BETA	18.2	2.7	1.350	0.549	9.986	4.48	PCI/G
5.6.A.R.4.2	15-30	BETA	12.1	3.53	1.765	0.321	3.884	3.55	PCI/G

Average:            16.07            1 Sigma:        0.701

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.4	60-100	BETA	13.6	2.97	1.485	0.453	6.167	0.113	PCI/G

Average:            13.60            1 Sigma:        1.485

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.1	0-15	Cesium-137	1.14	0.128	0.064	244.141	278.320	0.0661	PCI/G
5.6.A.R.2.1	0-15	Cesium-137	0.907	0.104	0.052	369.822	335.429	0.124	PCI/G
5.6.A.R.3.1	0-15	Cesium-137	0.606	0.0856	0.043	545.899	330.815	0.115	PCI/G
5.6.A.R.4.1	0-15	Cesium-137	0.428	0.0713	0.036	786.830	336.763	1.14	PCI/G

Average:            0.66            1 Sigma:        0.023

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.2	15-30	Cesium-137	0	0.0659	0.033	921.063	0.000	0.0772	PCI/G
5.6.A.R.2.2	15-30	Cesium-137	0.139	0.0501	0.025	1593.619	221.513	0.0601	PCI/G
5.6.A.R.3.2	15-30	Cesium-137	0.0713	0.0691	0.035	837.730	59.730	0.084	PCI/G
5.6.A.R.4.2	15-30	Cesium-137	0	0.0924	0.046	468.507	0.000	0.059	PCI/G

Average:            0.07            1 Sigma:        0.016

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
5.6.A.R.1.4	60-100	Cesium-137	0.00468	0.0376	0.019	2829.335	13.241	0.0729	PCI/G

Average:            0.00            1 Sigma:        0.019

### Confirmatory Area

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.1.C1	0-5	ALPHA	9.44	3.16	1.58	0.40	3.78	3.84	PCI/G
C.2.C1	0-5	ALPHA	8.06	3.09	1.545	0.42	3.38	3.37	PCI/G
C.3.C1	0-5	ALPHA	10.1	3.43	1.715	0.34	3.43	3.84	PCI/G
C.4.C1	0-5	ALPHA	22.3	5.12	2.56	0.15	3.40	3.98	PCI/G

Average:            10.67            1 Sigma:        0.87

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.2.C4	30-100	ALPHA	13.1	3.94	1.97	0.26	3.38	3.96	PCI/G

Average:            13.10            1 Sigma:        1.97

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.1.C1	0-5	BETA	29	2.82	1.41	0.50	14.59	2.22	PCI/G
C.2.C1	0-5	BETA	20.4	3.4	1.7	0.35	7.06	3.92	PCI/G
C.3.C1	0-5	BETA	8.69	2.27	1.135	0.78	6.75	2.71	PCI/G
C.4.C1	0-5	BETA	40.2	4.42	2.21	0.20	8.23	3.15	PCI/G

Average:            20.01            1 Sigma:        0.74

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.2.C4	30-100	BETA	46.8	4.09	2.045	0.24	11.19	2.63	PCI/G

Average:            46.80            1 Sigma:        2.05

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.1.C1	0-5	Cesium-137	1.24	0.141	0.0705	201.20	249.48	0.0961	PCI/G
C.2.C1	0-5	Cesium-137	8.68	0.236	0.118	71.82	623.38	0.0642	PCI/G
C.3.C1	0-5	Cesium-137	0.935	0.214	0.107	87.34	81.67	0.133	PCI/G
C.4.C1	0-5	Cesium-137	1.41	0.172	0.086	135.21	190.64	0.13	PCI/G

Average: 2.31      1 Sigma: 0.04

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
C.2.C4	30-100	Cesium-137	30.2	0.572	0.286	12.23	369.21	0.0999	PCI/G

Average: 30.20      1 Sigma: 0.29

## Homeowners

### HO3

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.1	0-15	ALPHA	13.2	3.73	1.87	0.29	3.80	3.85	PCI/G
HO.3.1	0-15	ALPHA	10.8	3.43	1.72	0.34	3.67	3.99	PCI/G
HO.3.1	0-15	ALPHA	16.6	4.43	2.22	0.20	3.38	3.85	PCI/G

Average: 13.1      1 Sigma: 1.10

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.2	15-30	ALPHA	9.00	3.45	1.73	0.34	3.02	3.82	PCI/G
HO.3.2	15-30	ALPHA	15.9	4.26	2.13	0.22	3.50	3.94	PCI/G
HO.3.2	15-30	ALPHA	15.2	3.99	2.00	0.25	3.82	3.96	PCI/G

Average: 12.8      1 Sigma: 1.11

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.1	0-15	BETA	4.81	1.72	0.86	1.35	6.50	2.15	PCI/G
HO.3.1	0-15	BETA	18.3	2.82	1.41	0.50	9.20	3.45	PCI/G
HO.3.1	0-15	BETA	13.6	2.37	1.19	0.71	9.69	2.29	PCI/G

Average: 9.9      1 Sigma: 0.62

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.2	15-30	BETA	17.7	3.12	1.56	0.41	7.27	3.30	PCI/G
HO.3.2	15-30	BETA	27.6	3.90	1.95	0.26	7.26	3.83	PCI/G
HO.3.2	15-30	BETA	17.4	2.89	1.45	0.48	8.33	3.53	PCI/G

Average: 19.8      1 Sigma: 0.93

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.1	0-15	Cesium-137	0.207	0.0838	0.04	569.60	117.91	0.0928	PCI/G
HO.3.1	0-15	Cesium-137	0.257	0.0758	0.04	696.18	178.92	0.0681	PCI/G
HO.3.1	0-15	Cesium-137	0.174	0.0812	0.04	606.66	105.56	0.0757	PCI/G

Average: 0.2      1 Sigma: 0.02

## Appendix H2: Soil Analysis

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.3.2	15-30	Cesium-137	0.226	0.0606	0.03	1089.22	246.16	0.0707	PCI/G
HO.3.2	15-30	Cesium-137	0.224	0.081	0.04	609.66	136.56	0.060	PCI/G
HO.3.2	15-30	Cesium-137	0.203	0.068	0.03	865.05	175.61	0.049	PCI/G

Average:            0.2            1 Sigma:        0.02

### HO4

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.1	0-15	ALPHA	9.22	3.24	1.62	0.38	3.51	3.96	PCI/G
HO.4.1	0-15	ALPHA	10.1	3.43	1.72	0.34	3.43	3.91	PCI/G
HO.4.1	0-15	ALPHA	11.9	3.56	1.78	0.32	3.76	3.98	PCI/G

Average:            10.3            1 Sigma:        0.98

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.2	15-30	ALPHA	10.2	3.52	1.76	0.32	3.29	3.88	PCI/G
HO.4.2	15-30	ALPHA	14.6	3.65	1.83	0.30	4.38	3.97	PCI/G
HO.4.2	15-30	ALPHA	13.7	3.63	1.82	0.30	4.16	4.00	PCI/G

Average:            12.8            1 Sigma:        1.04

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.1	0-15	BETA	18.9	2.83	1.42	0.50	9.44	2.97	PCI/G
HO.4.1	0-15	BETA	20.0	2.86	1.43	0.49	9.78	2.81	PCI/G
HO.4.1	0-15	BETA	18.3	2.39	1.20	0.70	12.81	2.07	PCI/G

Average:            19.0            1 Sigma:        0.77

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.2	15-30	BETA	16.2	2.65	1.33	0.57	9.23	2.48	PCI/G
HO.4.2	15-30	BETA	17.5	2.47	1.24	0.66	11.47	2.58	PCI/G
HO.4.2	15-30	BETA	14.5	2.54	1.27	0.62	8.99	3.02	PCI/G

Average:            16.1            1 Sigma:        0.74

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.1	0-15	Cesium-137	0.191	0.0652	0.03	940.95	179.72	0.0682	PCI/G
HO.4.1	0-15	Cesium-137	0.269	0.076	0.04	692.52	186.29	0.0674	PCI/G
HO.4.1	0-15	Cesium-137	0.286	0.0876	0.04	521.26	149.08	0.0632	PCI/G

Average:            0.2            1 Sigma:        0.02

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.4.2	15-30	Cesium-137	0.269	0.0577	0.03	1201.46	323.19	0.0543	PCI/G
HO.4.2	15-30	Cesium-137	0.225	0.075	0.04	711.11	160.00	0.0536	PCI/G
HO.4.2	15-30	Cesium-137	0.330	0.0895	0.04	499.36	164.79	0.0763	PCI/G

Average:            0.3            1 Sigma:        0.02

## Appendix H2: Soil Analysis

### H05

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.1	0-15	ALPHA	20.6	5.08	2.54	0.16	3.19	3.96	PCI/G
HO.5.1	0-15	ALPHA	13.7	3.88	1.94	0.27	3.64	3.97	PCI/G
HO.5.1	0-15	ALPHA	13.0	3.87	1.94	0.27	3.47	3.88	PCI/G

Average:            15.0            1 Sigma:            1.21

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.2	15-30	ALPHA	10.5	3.49	1.75	0.33	3.45	3.99	PCI/G
HO.5.2	15-30	ALPHA	7.92	3.28	1.64	0.37	2.94	3.95	PCI/G
HO.5.2	15-30	ALPHA	12.2	3.35	1.68	0.36	4.35	3.58	PCI/G

Average:            10.2            1 Sigma:            0.97

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.1	0-15	BETA	24.7	3.64	1.82	0.30	7.46	3.14	PCI/G
HO.5.1	0-15	BETA	18.3	2.63	1.32	0.58	10.58	2.29	PCI/G
HO.5.1	0-15	BETA	17.3	2.90	1.45	0.48	8.23	3.38	PCI/G

Average:            19.4            1 Sigma:            0.86

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.2	15-30	BETA	22.4	3.22	1.61	0.39	8.64	3.52	PCI/G
HO.5.2	15-30	BETA	24.7	3.33	1.67	0.36	8.91	3.38	PCI/G
HO.5.2	15-30	BETA	17.1	2.59	1.30	0.60	10.20	3.06	PCI/G

Average:            20.7            1 Sigma:            0.86

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.1	0-15	Cesium-137	0.346	0.110	0.06	330.58	114.38	0.0886	PCI/G
HO.5.1	0-15	Cesium-137	0.445	0.0993	0.05	405.66	180.52	0.0547	PCI/G
HO.5.1	0-15	Cesium-137	0.340	0.113	0.06	313.26	106.51	0.096	PCI/G

Average:            0.4            1 Sigma:            0.03

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
HO.5.2	15-30	Cesium-137	0.629	0.100	0.05	400.00	251.60	0.0655	PCI/G
HO.5.2	15-30	Cesium-137	0.667	0.108	0.05	342.94	228.74	0.0721	PCI/G
HO.5.2	15-30	Cesium-137	0.789	0.104	0.05	369.82	291.79	0.0656	PCI/G

Average:            0.7            1 Sigma:            0.03

## Appendix H2: Soil Analysis

### Reach

#### Reach 7

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.1	0-15	ALPHA	12.7	3.67	1.84	0.30	3.77	3.91	PCI/G
REACH7.1.1	0-15	ALPHA	20.5	4.31	2.16	0.22	4.41	3.99	PCI/G
REACH7.1.1	0-15	ALPHA	11.9	3.37	1.69	0.35	4.19	3.93	PCI/G

Average:            14.3            1 Sigma:            1.08

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.2	15-30	ALPHA	11.4	3.71	1.86	0.29	3.31	3.89	PCI/G
REACH7.1.2	15-30	ALPHA	19.1	4.39	2.20	0.21	3.96	3.94	PCI/G
REACH7.1.2	15-30	ALPHA	11.8	3.72	1.86	0.29	3.41	3.99	PCI/G

Average:            13.6            1 Sigma:            1.13

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.1	0-15	BETA	23.8	3.63	1.82	0.30	7.22	4.37	PCI/G
REACH7.1.1	0-15	BETA	26.7	2.94	1.47	0.46	12.36	2.64	PCI/G
REACH7.1.1	0-15	BETA	18.7	2.48	1.24	0.65	12.16	2.50	PCI/G

Average:            22.4            1 Sigma:            0.84

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.2	15-30	BETA	19.5	2.72	1.36	0.54	10.54	2.60	PCI/G
REACH7.1.2	15-30	BETA	28.7	3.11	1.56	0.41	11.87	2.42	PCI/G
REACH7.1.2	15-30	BETA	17.2	2.55	1.28	0.62	10.58	2.45	PCI/G

Average:            21.0            1 Sigma:            0.80

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.1	0-15	Cesium-137	0.122	0.0832	0.04	577.85	70.50	0.0719	PCI/G
REACH7.1.1	0-15	Cesium-137	0.0846	0.0495	0.02	1632.49	138.11	0.0578	PCI/G
REACH7.1.1	0-15	Cesium-137	0.00	0.0534	0.03	1402.74	0.00	0.116	PCI/G

Average:            0.1            1 Sigma:            0.02

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH7.1.2	15-30	Cesium-137	0.156	0.0635	0.03	992.00	154.75	0.0735	PCI/G
REACH7.1.2	15-30	Cesium-137	0.136	0.0546	0.03	1341.76	182.48	0.073	PCI/G
REACH7.1.2	15-30	Cesium-137	0.151	0.0607	0.03	1085.63	163.93	0.0521	PCI/G

Average:            0.1            1 Sigma:            0.02

Appendix H2: Soil Analysis

Reach 21

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.1	0-15	ALPHA	11.6	3.74	1.87	0.29	3.32	3.96	PCI/G
REACH21.1.1	0-15	ALPHA	18.3	4.31	2.16	0.22	3.94	3.84	PCI/G
REACH21.1.1	0-15	ALPHA	11.7	3.49	1.75	0.33	3.84	3.88	PCI/G

Average: 13.4      1 Sigma: 1.10

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.2	15-30	ALPHA	9.62	3.54	1.77	0.32	3.07	3.93	PCI/G
REACH21.1.2	15-30	ALPHA	16.8	4.38	2.19	0.21	3.50	3.90	PCI/G

Average: 12.5      1 Sigma: 1.38

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.1	0-15	BETA	16.4	2.76	1.38	0.53	8.61	3.05	PCI/G
REACH21.1.1	0-15	BETA	25.9	3.35	1.68	0.36	9.23	3.58	PCI/G
REACH21.1.1	0-15	BETA	20.1	2.60	1.30	0.59	11.89	2.55	PCI/G

Average: 20.2      1 Sigma: 0.82

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.2	15-30	BETA	22.4	3.46	1.73	0.33	7.48	3.65	PCI/G
REACH21.1.2	15-30	BETA	22.6	2.94	1.47	0.46	10.46	2.81	PCI/G

Average: 22.5      1 Sigma: 1.12

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.1	0-15	Cesium-137	0.271	0.0813	0.04	605.17	164.00	0.074	PCI/G
REACH21.1.1	0-15	Cesium-137	0.306	0.124	0.06	260.15	79.60	0.0889	PCI/G
REACH21.1.1	0-15	Cesium-137	0.302	0.130	0.07	236.69	71.48	0.0861	PCI/G

Average: 0.3      1 Sigma: 0.03

Sample_No	Depth	Parameter	Lab_Result	Uncertainty	1 Sigma	Wi	WiXi	MDL	Units
REACH21.1.2	15-30	Cesium-137	0.119	0.054	0.03	1371.74	163.24	0.0631	PCI/G
REACH21.1.2	15-30	Cesium-137	0.0908	0.0871	0.04	527.26	47.88	0.094	PCI/G

Average: 0.1      1 Sigma: 0.02