

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		Sand 11/19/2014 PXXQX111914S SO N		Mulch 11/19/2014 PM111914S SO N		P06QA 11/21/2014 P06QASS112114S SO N		P06QA 11/21/2014 P06QANS112114S SO N		P06QB 11/21/2014 P06QBSS112114S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.0149	U	0.009	0.0375	0.02	0.173	0.018	0.0230	0.009	0.188
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00293	U	0.0101	< -0.00787	U	0.016	< 0.00874	U	0.00801	< 0.00183
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.3		0.368	9.06	0.551	9.91	0.340	11.2	0.340	9.8
13982-63-3	RADIUM-226	CALC	pCi/g	0.1795		0.049	0.959	0.099	0.199	0.051	0.172	0.045	0.215
14255-04-0	LEAD-210	TRG	pCi/g	< 0.264	UJ	0.267	2.47	0.290	0.83	0.224	< 0.182	UJ	0.202
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.214		0.0619	0.431	0.121	0.124	0.0676	0.16	0.0575	0.107
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.23	UJ	0.293	< 0.208	UJ	0.478	< -0.19	UJ	0.253	< 0.127
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0127	U	0.014	< -0.00493	U	0.0201	< 0.00213	U	0.011	< -0.0000597
14733-03-0	BISMUTH-214	TRG	pCi/g	0.162		0.0354	0.941	0.0718	0.183	0.0374	0.169	0.0345	0.181
14835-02-0	RADON-219	TRG	pCi/g	< -0.0423	U	0.0849	< 0.0958	U	0.137	< -0.0687	U	0.0813	< -0.0609
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.129	U	0.172	0.67	0.281	< 0.326	U	0.187	0.176	0.157
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0507		0.0169	0.127	0.0263	0.049	0.0155	0.0352	0.0146	0.0593
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0332	U	0.139	< 0.267	U	0.152	< 0.0977	U	0.0986	< 0.00651
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.308	U	0.313	0.706	0.374	0.337	0.202	0.316	0.187	< 0.171
15067-28-4	LEAD-214	TRG	pCi/g	0.197		0.0342	0.977	0.0681	0.215	0.0348	0.175	0.0294	0.249
15117-96-1	URANIUM-235	TRG	pCi/g	< -0.0371	U	0.0538	< 0.0634	U	0.0882	< 0.0293	U	0.0688	< 0.0213
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.538	U	0.0934	< 2.67	U	0.186	< 0.587	U	0.0951	< 0.48
15262-20-1	RADIUM-228	CALC	pCi/g	0.214		0.0619	0.431	0.121	0.124	0.0676	0.16	0.0575	0.107
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0895	UJ	0.0625	< 0.231	UJ	0.115	< 0.049	U	0.0352	< 0.0702
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0359	U	0.069	< -0.0586	U	0.123	< -0.0231	U	0.0654	< 0.0163
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.196	U	0.286	< -0.0161	U	0.322	< 0.149	U	0.179	< 0.00218
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0993	U	0.148	< -0.05	U	0.410	< -0.0351	U	0.145	< -0.0563
18879-28-2	LEAD-212	TRG	pCi/g	0.19		0.0262	0.458	0.0395	0.169	0.022	0.169	0.0194	0.19
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.0141	U	0.00867	0.0355	0.0185	0.164	0.0166	0.0218	0.00864	0.178
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.68	U	1.16	< 1.17	U	2.58	< 1.06	U	1.82	< -0.891
7440-14-4	RADIUM	CALC	pCi/g	0.3935		0.079	1.39	0.156	0.323	0.085	0.332	0.073	0.322
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.994	U	1.2	0.938	2.61	0.6985	1.83	-0.2875	1.21	< 0.05775

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P06QB 11/21/2014 P06QBNS112114D SO FD			P06QB 11/21/2014 P06QBNS112114S SO N			P06QC 11/21/2014 P06QCSS112114S SO N			P06QC 11/21/2014 P06QCNS112114S SO N			P06QD 11/21/2014 P06QDSS112114S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	0.0615	J	0.025	0.0298	J	0.01	0.133		0.026	0.0307		0.014	0.197		0.024
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00455	U	0.0126	< -0.0016	U	0.00793	< -0.0219	U	0.022	< 0.0014	U	0.0104	< 0.00216	U	0.0121
13966-00-2	POTASSIUM-40	TRG	pCi/g	10.4		0.425	10.9		0.337	9.99		0.501	10.9		0.419	9.96		0.444
13982-63-3	RADIUM-226	CALC	pCi/g	0.1605		0.059	0.1455		0.043	0.2515		0.083	0.1625		0.066	0.367		0.06
14255-04-0	LEAD-210	TRG	pCi/g	0.364		0.285	0.426		0.187	0.764		0.447	0.287		0.218	0.843		0.307
14331-83-0	ACTINIUM-228	TRG	pCi/g	< 0.0561	U	0.0827	0.147		0.0728	0.186		0.117	0.166		0.0675	0.293		0.0801
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.00878	UJ	0.343	< 0.0403	UJ	0.246	< 0.0654	UJ	0.444	< -0.0153	UJ	0.320	< -0.466	UJ	0.603
14596-10-2	AMERICIUM-241	TRG	pCi/g	< -0.00194	U	0.0145	< 0.009	U	0.00886	< -0.0104	U	0.0254	< 0.000907	U	0.0119	< 0.0308	U	0.0157
14733-03-0	BISMUTH-214	TRG	pCi/g	0.156		0.0435	0.122		0.0293	0.249		0.0602	0.136		0.0435	0.352		0.0434
14835-02-0	RADON-219	TRG	pCi/g	< 0.0672	U	0.0923	< -0.0181	U	0.0822	< -0.0729	U	0.134	< 0.134	U	0.110	< 0.0131	U	0.113
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.241	U	0.170	< 0.302	U	0.184	< 0.448	U	0.374	< -0.0995	U	0.239	< 0.196	U	0.185
14913-50-9	THALLIUM-208	TRG	pCi/g	0.042		0.0222	0.0412		0.0161	0.0564		0.0275	0.0442		0.0214	0.069		0.0238
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0865	U	0.116	< 0.061	U	0.0898	< 0.046	U	0.176	< 0.108	U	0.140	< 0.113	U	0.161
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.137	U	0.294	0.268		0.212	< 0.37	U	0.506	< 0.208	U	0.264	0.43		0.333
15067-28-4	LEAD-214	TRG	pCi/g	0.165		0.0402	0.169		0.0317	0.254		0.0566	0.189		0.049	0.382		0.0417
15117-96-1	URANIUM-235	TRG	pCi/g	< -0.0302	U	0.0536	< 0.0373	U	0.0511	< 0.0549	U	0.106	< 0.0422	U	0.081	< 0.0333	U	0.0828
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.451	U	0.110	< 0.463	U	0.0867	< 0.693	U	0.155	< 0.518	U	0.134	< 1.05	U	0.114
15262-20-1	RADIUM-228	CALC	pCi/g	< 0.0561	U	0.0827	0.147		0.0728	0.186		0.117	0.166		0.0675	0.293		0.0801
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0599	UJ	0.0413	< 0.0489	U	0.0367	< 0.0156	UJ	0.0861	< 0.0789	UJ	0.0645	< 0.0329	UJ	0.0559
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.00185	U	0.0757	< -0.0153	U	0.0566	< 0.0859	U	0.106	< 0.00524	U	0.0804	< -0.0267	U	0.0944
15756-98-6	FRANCIUM-223	TRG	pCi/g	< -0.0534	U	0.199	< -0.00694	U	0.153	< 0.0174	U	0.275	< 0.0397	U	0.203	< 0.0919	U	0.300
15816-77-0	LEAD-211	TRG	pCi/g	< -0.101	U	0.185	< -0.0704	U	0.152	< 0.0152	U	0.235	< 0.0282	U	0.189	< 0.0303	U	0.203
18879-28-2	LEAD-212	TRG	pCi/g	0.168		0.0251	0.171		0.0185	0.203		0.0358	0.194		0.0299	0.222		0.0317
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0582	J	0.0236	0.0282	J	0.00989	0.126		0.0246	0.029		0.0131	0.186		0.0229
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.65	U	1.62	< 0.996	U	1.29	< 0.911	U	1.99	< 1.66	U	2.47	< 3.45	U	1.99
7440-14-4	RADIUM	CALC	pCi/g	0.2166		0.102	0.2925		0.085	0.4375		0.143	0.3285		0.094	0.66		0.1
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.8935	U	1.65	0.632		1.31	< 0.6405	U	2.05	< 0.934	U	2.48	1.94		2.02

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P06QD 11/21/2014 P06QDNS112114S SO N			P14QA 11/18/2014 P14QASS111814S SO N			P14QA 11/18/2014 P14QANS111814S SO N			P14QA 11/18/2014 P14QASB111814S SO N			P14QB 11/18/2014 P14QBSS111814S SO N						
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)							
10045-97-3	CESIUM-137	CALC	pCi/g	0.0232		0.014		0.132		0.026		0.102		0.014		0.0349		0.014		0.0696		0.02
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00996	U	0.0101		< 0.00947	U	0.0153		< 0.00325	U	0.0139		< -0.00565	U	0.0105		< 0.00469	U	0.0121
13966-00-2	POTASSIUM-40	TRG	pCi/g	10.8		0.444		10.1		0.474		12.1		0.391		11.4		0.430		11.5		0.429
13982-63-3	RADIUM-226	CALC	pCi/g	0.16		0.054		0.82		0.112		1.1045		0.071		0.1935		0.064		1.675		0.092
14255-04-0	LEAD-210	TRG	pCi/g	0.166		0.146		1.69		0.489		< 0.744	UJ	0.854		0.392		0.209		1.86		1.56
14331-83-0	ACTINIUM-228	TRG	pCi/g	< 0.13	U	0.0568		0.591		0.125		0.59		0.0788		0.195		0.0774		0.99		0.112
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0595	UJ	0.249		< -0.211	UJ	0.508		< -0.148	UJ	0.372		< -0.19	UJ	0.324		< -0.359	UJ	0.506
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00942	U	0.00834		< 0.0385	U	0.0415		< 0.0241	U	0.0286		< 0.00474	U	0.0122		< 0.0158	U	0.0462
14733-03-0	BISMUTH-214	TRG	pCi/g	0.153		0.0384		0.753		0.0898		0.979		0.0508		0.184		0.0421		1.52		0.0634
14835-02-0	RADON-219	TRG	pCi/g	< -0.0488	U	0.084		< 0.0642	U	0.152		< 0.0379	U	0.111		< -0.0966	U	0.152		< 0.0224	U	0.138
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.338	U	0.156		0.486		0.333		0.885		0.251		< 0.2	U	0.288		1.36		0.349
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0423		0.0177		0.134		0.030		0.225		0.0232		0.056		0.0231		0.31		0.0276
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.107	U	0.0641		0.364		0.184		0.664		0.152		< 0.0884	U	0.140		0.811		0.150
15065-10-8	THORIUM-234	TRG	pCi/g	0.245		0.120		1.41		0.473		1.2		0.510		< 0.152	U	0.281		1.88		0.471
15067-28-4	LEAD-214	TRG	pCi/g	0.167		0.0376		0.887		0.0669		1.23		0.049		0.203		0.0485		1.83		0.0666
15117-96-1	URANIUM-235	TRG	pCi/g	< -0.00986	U	0.0293		< 0.103	UJ	0.136		< 0.0853	U	0.0823		< 0.0171	U	0.0865		< 0.0732	U	0.103
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.457	U	0.103		< 2.43	U	0.183		< 3.36	U	0.134		< 0.554	U	0.133		< 5.01	U	0.182
15262-20-1	RADIUM-228	CALC	pCi/g	< 0.13	U	0.0568		0.591		0.125		0.59		0.0788		0.195		0.0774		0.99		0.112
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0774	U	0.0534		0.168		0.103		0.253		0.0755		< 0.0467	UJ	0.0594		0.424		0.101
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0331	U	0.0583		< -0.0323	U	0.137		< -0.00253	U	0.0897		< -0.0913	U	0.0735		< 0.0409	U	0.125
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.104	U	0.148		< -0.0183	U	0.324		< 0.141	U	0.243		< -0.321	U	0.220		< 0.429	U	0.304
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0972	U	0.148		< -0.319	U	0.307		< -0.02	U	0.211		< 0.0657	U	0.188		< 0.147	U	0.273
18879-28-2	LEAD-212	TRG	pCi/g	0.183		0.0203		0.58		0.0393		0.795		0.0317		0.211		0.0289		1.04		0.037
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0219		0.0128		0.125		0.0248		0.0968		0.0128		0.033		0.0137		0.0658		0.0189
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.0364	U	1.25		< 1.09	U	3.13		< 1.28	U	2.13		< 1.03	U	1.38		< 3.46	U	3.13
7440-14-4	RADIUM	CALC	pCi/g	0.29		0.078		1.411		0.168		1.6945		0.106		0.3885		0.101		2.665		0.145
7440-61-1	URANIUM-238	CALC	pCi/g	0.1407		1.26		1.25		3.17		1.24		2.19		< 0.591	U	1.41		2.67		3.17

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P14QB 11/18/2014 P14QBNS111814D SO FD			P14QB 11/18/2014 P14QBNS111814S SO N			P14QB 11/18/2014 P14QBSB111814S SO N			P14QC 11/18/2014 P14QCSS111814S SO N			P14QC 11/18/2014 P14QCNS111814S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	0.0352	J	0.018	0.0551	J	0.021	0.0225		0.012	< 0.0350	U	0.016	0.0748		0.015
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00548	U	0.016	< -0.000782	U	0.0134	< -0.00225	U	0.0114	< -0.00771	U	0.0164	< 0.0108	U	0.0108
13966-00-2	POTASSIUM-40	TRG	pCi/g	14.3		0.512	10.6		0.488	14.2		0.358	14.3		0.562	14.8		0.392
13982-63-3	RADIUM-226	CALC	pCi/g	1.855		0.121	1.155		0.089	1.875		0.081	2.285		0.109	2.33		0.094
14255-04-0	LEAD-210	TRG	pCi/g	2.31	J	0.499	1.28	J	0.320	1.85		0.290	2.64		0.322	1.55		0.949
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.14		0.158	0.82		0.0991	1.05		0.0858	1.65		0.134	1.52		0.0948
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.614	UJ	0.607	< -0.0438	UJ	0.564	< -0.251	UJ	0.365	< -0.0525	UJ	0.460	< -0.399	UJ	0.497
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.038	U	0.0261	< 0.0405	U	0.0262	< -0.00981	U	0.0211	< 0.00909	U	0.0179	< 0.0673	U	0.0344
14733-03-0	BISMUTH-214	TRG	pCi/g	1.68		0.088	1.03		0.0634	1.69		0.0549	2.1		0.0789	2.07		0.064
14835-02-0	RADON-219	TRG	pCi/g	< -0.0399	U	0.172	< 0.108	U	0.148	< 0.107	U	0.134	< 0.0203	U	0.192	< 0.0155	U	0.123
14913-49-6	BISMUTH-212	TRG	pCi/g	1.7	J	0.344	0.767	J	0.290	1.24		0.262	1.7		0.339	1.67		0.220
14913-50-9	THALLIUM-208	TRG	pCi/g	0.352		0.0344	0.223		0.0285	0.354		0.023	0.522		0.0361	0.486		0.0295
14932-40-2	THORIUM-231	TRG	pCi/g	0.468		0.252	0.367		0.169	0.889		0.150	< 0.964	U	0.122	< 1.02	U	0.195
15065-10-8	THORIUM-234	TRG	pCi/g	1.59		0.539	1.46		0.426	2.04		0.285	2.54		0.315	2.55		0.601
15067-28-4	LEAD-214	TRG	pCi/g	2.03		0.0826	1.28		0.0626	2.06		0.0595	2.47		0.0747	2.59		0.0683
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.118	UJ	0.162	0.254	J	0.100	0.14		0.0884	0.161		0.0848	0.237		0.106
15229-37-5	BISMUTH-211	TRG	pCi/g	< 5.55	U	0.226	< 3.5	U	0.171	< 5.63	U	0.163	< 6.75	U	0.204	< 7.08	U	0.187
15262-20-1	RADIUM-228	CALC	pCi/g	1.14		0.158	0.82		0.0991	1.05		0.0858	1.65		0.134	1.52		0.0948
15623-45-7	RADIUM-223	TRG	pCi/g	0.523	J	0.126	0.212	J	0.0966	0.555		0.0868	< 0.58	UJ	0.115	< 0.572	UJ	0.103
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.148	UJ	0.166	< 0.0517	UJ	0.133	< 0.00568	U	0.101	< 0.0636	U	0.125	< 0.017	U	0.125
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.279	U	0.386	< 0.364	U	0.317	0.434		0.237	< 0.163	U	0.300	< 0.376	U	0.321
15816-77-0	LEAD-211	TRG	pCi/g	< 0.309	U	0.343	< -0.0626	U	0.291	< 0.249	U	0.225	< -0.0661	U	0.433	< 0.0861	U	0.249
18879-28-2	LEAD-212	TRG	pCi/g	1.28		0.0489	0.812		0.0407	1.26		0.0331	1.68		0.0412	1.73		0.0414
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0333	J	0.0173	0.0521	J	0.0198	0.0213		0.0111	< 0.0331	U	0.0151	0.0708		0.0144
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 4.27	U	3.67	< 2.82	U	1.87	< 2.73	U	1.71	< 1.95	U	2.66	< 4.61	U	2.06
7440-14-4	RADIUM	CALC	pCi/g	2.995		0.199	1.975		0.133	2.925		0.118	3.935		0.173	3.85		0.133
7440-61-1	URANIUM-238	CALC	pCi/g	2.93		3.71	2.14		1.92	2.385		1.73	2.245		2.68	3.58		2.15

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P14QC 11/18/2014 P14QCSB111814S SO N		P14QD 11/18/2014 P14QDSS111814S SO N		P14QD 11/18/2014 P14QDNS111814S SO N		P14QD 11/18/2014 P14QDSB111814S SO N		P14QG 11/18/2014 P14QGSS111814S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.0434	0.017	0.0674	0.02	< 0.0160	U	0.021	< 0.0132	U	0.02
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00336	U	0.0126	< -0.00818	U	0.0157	< 0.00116	U	0.0145	< 0.0144
13966-00-2	POTASSIUM-40	TRG	pCi/g	13.9	0.415	13.3	0.498	15.5	0.518	15.5	0.459	13.5	0.451
13982-63-3	RADIUM-226	CALC	pCi/g	2.09	0.087	2.03	0.102	2.9	0.121	2.915	0.101	2.055	0.092
14255-04-0	LEAD-210	TRG	pCi/g	2.13	0.260	2.39	0.203	2.76	0.423	2.63	0.298	2.11	0.279
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.34	0.0908	1.33	0.120	1.7	0.130	1.88	0.110	1.3	0.117
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.329	UJ	0.413	< 0.153	UJ	0.450	< -0.452	UJ	0.448	< -0.337
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0329	U	0.0177	< -0.0135	U	0.0202	< -0.00363	U	0.0275	< 0.0492
14733-03-0	BISMUTH-214	TRG	pCi/g	1.88	0.062	1.88	0.0731	2.61	0.0824	2.66	0.0679	1.91	0.0652
14835-02-0	RADON-219	TRG	pCi/g	< 0.272	U	0.228	< 0.161	U	0.149	< 0.102	U	0.169	< 0.093
14913-49-6	BISMUTH-212	TRG	pCi/g	1.24	0.235	1.31	0.375	1.75	0.317	2.07	0.283	1.23	0.247
14913-50-9	THALLIUM-208	TRG	pCi/g	0.429	0.0259	0.441	0.0313	0.571	0.0366	0.589	0.0297	0.372	0.0262
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.972	U	0.156	< 0.974	U	0.149	< 1.32	U	0.195	< 1.6
15065-10-8	THORIUM-234	TRG	pCi/g	2.42	0.365	2.29	0.332	3.09	0.490	3.11	0.320	2.13	0.335
15067-28-4	LEAD-214	TRG	pCi/g	2.3	0.0607	2.18	0.0713	3.19	0.0891	3.17	0.0742	2.2	0.0644
15117-96-1	URANIUM-235	TRG	pCi/g	0.176	0.0903	0.13	0.0805	0.135	0.124	0.225	0.0883	0.212	0.0924
15229-37-5	BISMUTH-211	TRG	pCi/g	< 6.28	U	0.166	< 5.96	U	0.195	< 8.73	U	0.244	< 8.67
15262-20-1	RADIUM-228	CALC	pCi/g	1.34	0.0908	1.33	0.12	1.7	0.13	1.88	0.11	1.3	0.117
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.482	UJ	0.0949	< 0.504	UJ	0.085	< 0.609	UJ	0.144	< 0.666
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0395	U	0.112	< 0.121	U	0.115	< 0.314	U	0.177	< 0.123
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.311	U	0.214	< -0.0104	U	0.284	< -0.0593	U	0.351	< 0.51
15816-77-0	LEAD-211	TRG	pCi/g	< 0.217	U	0.337	< -0.186	U	0.305	< -0.0473	U	0.445	< 0.222
18879-28-2	LEAD-212	TRG	pCi/g	1.56	0.0372	1.43	0.0394	1.9	0.0486	2	0.0408	1.34	0.0378
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0411	0.0158	0.0638	0.0186	< 0.0151	U	0.0203	< 0.0125	U	0.0189
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.57	U	1.79	< 3.55	U	2.86	< 3.21	U	2.52	2.86
7440-14-4	RADIUM	CALC	pCi/g	3.43	0.126	3.36	0.158	4.6	0.178	4.795	0.149	3.355	0.149
7440-61-1	URANIUM-238	CALC	pCi/g	1.995	1.83	2.92	2.88	3.15	2.57	2.985	2.28	1.9	2.36

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P14QG 11/18/2014 P14QGNS111814S SO N			P14QG 11/18/2014 P14QGSB111814S SO N			P15QA 11/19/2014 P15QASS111914S SO N			P15QA 11/19/2014 P15QANS111914S SO N			P15QA 11/19/2014 P15QASB111914S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	0.0218		0.018	0.0525		0.023	0.198		0.015	0.0551		0.014	< 0.00212	U	0.012
10198-40-0	COBALT-60	TRG	pCi/g	< -0.000798	U	0.0118	< 0.0109	U	0.0177	< -0.00412	U	0.00984	< 0.000288	U	0.0109	< 0.00227	U	0.0109
13966-00-2	POTASSIUM-40	TRG	pCi/g	15.2		0.432	17.4		0.577	10.6		0.350	10.7		0.321	10.8		0.404
13982-63-3	RADIUM-226	CALC	pCi/g	3		0.1	3.37		0.136	0.7515		0.06	0.6565		0.059	0.221		0.055
14255-04-0	LEAD-210	TRG	pCi/g	2.3		1.75	3.71		0.535	1.4		0.855	< 0.102	UJ	0.726	< 0.246	UJ	0.255
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.81		0.110	2.02		0.164	0.422		0.0592	0.4		0.0706	0.176		0.0775
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.387	UJ	0.449	< 0.0897	UJ	0.763	< -0.0967	UJ	0.341	< -0.305	UJ	0.307	< -0.0739	UJ	0.334
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0804	U	0.0467	< 0.0827	U	0.0308	< 0.0267	U	0.0275	< 0.0323	U	0.0226	< 0.0234	U	0.0151
14733-03-0	BISMUTH-214	TRG	pCi/g	2.68		0.0694	3.09		0.0963	0.702		0.0425	0.595		0.041	0.186		0.0377
14835-02-0	RADON-219	TRG	pCi/g	< 0.136	U	0.173	< 0.11	U	0.250	< 0.0554	U	0.0943	< 0.00639	U	0.0919	< 0.0169	U	0.0894
14913-49-6	BISMUTH-212	TRG	pCi/g	1.77		0.303	2.45		0.490	0.584		0.175	0.619		0.209	< 0.32	U	0.184
14913-50-9	THALLIUM-208	TRG	pCi/g	0.562		0.0282	0.688		0.0423	0.114		0.0175	0.109		0.0184	0.0606		0.0215
14932-40-2	THORIUM-231	TRG	pCi/g	1.53		0.191	1.49		0.242	< 0.14	U	0.148	< 0.43	U	0.139	< 0.0813	U	0.149
15065-10-8	THORIUM-234	TRG	pCi/g	3.09		0.730	3.4		0.675	0.944		0.412	0.542		0.444	0.356		0.322
15067-28-4	LEAD-214	TRG	pCi/g	3.32		0.0723	3.65		0.0958	0.801		0.043	0.718		0.0422	0.256		0.0402
15117-96-1	URANIUM-235	TRG	pCi/g	0.211		0.113	0.367		0.155	0.094		0.0779	< -0.0205	U	0.0637	< 0.0713	U	0.0627
15229-37-5	BISMUTH-211	TRG	pCi/g	< 9.07	U	0.198	< 9.98	U	0.262	< 2.19	U	0.118	< 1.96	U	0.115	< 0.701	U	0.110
15262-20-1	RADIUM-228	CALC	pCi/g	1.81		0.11	2.02		0.164	0.422		0.0592	0.4		0.0706	0.176		0.0775
15623-45-7	RADIUM-223	TRG	pCi/g	0.648		0.119	0.827		0.160	< 0.15	UJ	0.0683	< 0.154	UJ	0.062	< 0.134	UJ	0.0632
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.107	U	0.109	< 0.18	U	0.190	< 0.0578	U	0.0775	< 0.0383	U	0.0822	< 0.0371	U	0.0772
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.396	U	0.315	< 0.627	U	0.456	< 0.0692	U	0.207	< 0.126	U	0.196	< 0.136	U	0.209
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0184	U	0.367	< -0.285	U	0.723	< -0.0365	U	0.191	< -0.125	U	0.161	< -0.171	U	0.163
18879-28-2	LEAD-212	TRG	pCi/g	1.95		0.0432	2.39		0.0611	0.428		0.0249	0.382		0.0257	0.223		0.0288
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0206		0.0174	0.0497		0.0215	0.187		0.0138	0.0521		0.0131	< 0.00201	U	0.0116
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 5.58	U	2.88	< 3.1	U	4.06	< 1.13	U	2.08	< -0.644	U	1.77	< 1.6	U	1.26
7440-14-4	RADIUM	CALC	pCi/g	4.81		0.149	5.39		0.213	1.1735		0.085	1.0565		0.092	0.397		0.095
7440-61-1	URANIUM-238	CALC	pCi/g	4.335		2.97	3.25		4.12	1.037		2.12	-0.051		1.82	0.978		1.3

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P15QB 11/19/2014 P15QBSS111914S SO N			P15QB 11/19/2014 P15QBNS111914D SO FD			P15QB 11/19/2014 P15QBNS111914S SO N			P15QB 11/19/2014 P15QBSB111914S SO N			P15QC 11/19/2014 P15QCSS111914S SO N						
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)							
10045-97-3	CESIUM-137	CALC	pCi/g	0.0777		0.014		0.0640		0.013		0.0700		0.016		< 0.0121	U	0.011		0.165		0.03
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00415	U	0.00818		< -0.000584	U	0.00788		< -0.0128	U	0.0195		< -0.00616	U	0.00963		< 0.000461	U	0.0148
13966-00-2	POTASSIUM-40	TRG	pCi/g	11		0.338		11.1		0.328		10.9		0.477		11.3		0.402		12.1		0.443
13982-63-3	RADIUM-226	CALC	pCi/g	0.7215		0.056		0.251		0.044		0.2635		0.071		0.178		0.06		0.2775		0.081
14255-04-0	LEAD-210	TRG	pCi/g	< 0.616	UJ	1.14		0.397		0.217		< 0.152	UJ	0.432		0.219		0.208		1.53		0.434
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.346		0.0648		0.24		0.0709		0.281		0.0961		0.201		0.0739		0.206		0.113
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.188	UJ	0.323		< 0.00773	UJ	0.262		< -0.158	UJ	0.393		< 0.00125	UJ	0.294		< 0.267	UJ	0.519
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0133	U	0.0298		< 0.00826	U	0.0105		< 0.0034	U	0.0198		< -0.00122	U	0.0112		< 0.0168	U	0.0214
14733-03-0	BISMUTH-214	TRG	pCi/g	0.656		0.0367		0.247		0.033		0.231		0.0494		0.162		0.0408		0.26		0.0607
14835-02-0	RADON-219	TRG	pCi/g	< -0.0127	U	0.0834		< -0.00251	U	0.0702		< -0.018	U	0.122		< -0.00448	U	0.138		< 0.105	U	0.151
14913-49-6	BISMUTH-212	TRG	pCi/g	0.529		0.200		< 0.473	U	0.169		0.372		0.290		< 0.107	U	0.269		< 0.318	U	0.307
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0996		0.018		0.0694		0.0149		0.0908		0.0282		0.0696		0.0229		0.0689		0.0307
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.198	U	0.150		< 0.212	U	0.0965		< 0.218	U	0.148		< 0.0576	U	0.119		< 0.12	U	0.200
15065-10-8	THORIUM-234	TRG	pCi/g	0.908		0.528		< 0.178	U	0.235		< -0.134	U	0.355		< 0.275	U	0.330		< 0.219	U	0.473
15067-28-4	LEAD-214	TRG	pCi/g	0.787		0.0417		0.255		0.0293		0.296		0.0513		0.194		0.0435		0.295		0.0532
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0445	U	0.0669		< 0.0126	U	0.0591		< 0.0259	U	0.104		< 0.0242	U	0.0791		< 0.0152	UJ	0.0903
15229-37-5	BISMUTH-211	TRG	pCi/g	< 2.15	U	0.114		< 0.698	U	0.0802		< 0.811	U	0.140		< 0.53	U	0.119		< 0.195	U	0.306
15262-20-1	RADIUM-228	CALC	pCi/g	0.346		0.0648		0.24		0.0709		0.281		0.0961		0.201		0.0739		0.206		0.113
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.126	U	0.0676		< 0.114	U	0.0669		< 0.127	UJ	0.0796		< 0.0812	U	0.0554		< 0.129	UJ	0.0867
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.00801	U	0.0716		< 0.031	U	0.0605		< 0.054	U	0.0933		< -0.0196	U	0.0691		< -0.00847	U	0.123
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.00508	U	0.183		< 0.213	U	0.160		< -0.0816	U	0.345		< 0.106	U	0.193		< 0.168	U	0.326
15816-77-0	LEAD-211	TRG	pCi/g	< -0.0752	U	0.170		< 0.125	U	0.142		< -0.0947	U	0.238		< -0.169	U	0.155		< -0.455	U	0.461
18879-28-2	LEAD-212	TRG	pCi/g	0.399		0.024		0.253		0.0214		0.253		0.0326		0.253		0.0278		0.261		0.0381
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0735		0.0134		0.0605		0.012		0.0662		0.0155		< 0.0114	U	0.010		0.156		0.0284
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.0379	U	1.79		< 0.703	U	1.31		< 2.41	U	1.61		< 1.75	U	1.17		< -2.55	U	3.47
7440-14-4	RADIUM	CALC	pCi/g	1.0675		0.085		0.491		0.084		0.5445		0.12		0.379		0.095		0.4835		0.139
7440-61-1	URANIUM-238	CALC	pCi/g	0.47295		1.87		< 0.4405	U	1.33		< 1.138	U	1.65		< 1.0125	U	1.22		< -1.1655	U	3.5

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P15QC 11/19/2014 P15QCNS111914S SO N			P15QC 11/19/2014 P15QCSB111914S SO N			P15QD 11/19/2014 P15QDSS111914S SO N			P15QD 11/19/2014 P15QDNS111914S SO N			P15QD 11/19/2014 P15QDSB111914S SO N						
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)							
10045-97-3	CESIUM-137	CALC	pCi/g	0.115		0.021		0.0202		0.013		0.100		0.016		< 0.00400	U	0.011		< 0.000174	U	0.006
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00369	U	0.0152		< 0.00681	U	0.011		< -0.000394	U	0.0088		< -0.00164	U	0.0119		< 0.00347	U	0.00707
13966-00-2	POTASSIUM-40	TRG	pCi/g	9.65		0.410		10.7		0.423		10.2		0.358		10.6		0.448		11.2		0.329
13982-63-3	RADIUM-226	CALC	pCi/g	0.2435		0.06		0.1725		0.051		0.522		0.051		0.177		0.086		0.1875		0.042
14255-04-0	LEAD-210	TRG	pCi/g	0.523		0.291		0.194		0.127		1.16		0.164		< 0.436	UJ	0.444		< 0.134	UJ	0.189
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.163		0.0702		0.127		0.0516		0.246		0.0497		0.274		0.102		0.189		0.0623
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.103	UJ	0.313		< 0.0372	UJ	0.255		< -0.129	UJ	0.263		< -0.0852	UJ	0.365		< -0.0254	UJ	0.217
14596-10-2	AMERICIUM-241	TRG	pCi/g	< -0.00273	U	0.0174		< -0.00672	U	0.0107		< -0.00323	U	0.0105		< -0.0123	U	0.0208		< 0.0184	U	0.0156
14733-03-0	BISMUTH-214	TRG	pCi/g	0.231		0.0438		0.199		0.0393		0.46		0.0361		0.16		0.0708		0.161		0.0303
14835-02-0	RADON-219	TRG	pCi/g	< -0.0375	U	0.0957		< 0.0382	U	0.0828		< 0.0374	U	0.0901		< 0.0444	U	0.112		< -0.0247	U	0.0663
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.417	U	0.185		< -0.0494	U	0.172		0.384		0.157		< 0.311	U	0.317		0.321		0.148
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0554		0.0241		0.0598		0.0162		0.0837		0.0158		0.04		0.0259		0.0515		0.0133
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0907	U	0.095		< 0.103	U	0.0656		< 0.159	U	0.0707		< 0.24	U	0.144		< 0.14	U	0.0876
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.127	U	0.278		0.255		0.152		0.912		0.251		< 0.372	U	0.475		0.363		0.161
15067-28-4	LEAD-214	TRG	pCi/g	0.256		0.0409		0.146		0.0325		0.584		0.0367		0.194		0.0489		0.214		0.0288
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0627	U	0.075		< 0.038	U	0.0371		< 0.000402	U	0.0473		< -0.0282	U	0.0725		< 0.00249	U	0.0598
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.701	U	0.112		< 0.398	U	0.0889		< 1.6	U	0.100		< 0.532	U	0.134		< 0.586	U	0.0788
15262-20-1	RADIUM-228	CALC	pCi/g	0.163		0.0702		0.127		0.0516		0.246		0.0497		0.274		0.102		0.189		0.0623
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.134	UJ	0.0616		< 0.0936	U	0.058		< 0.148	U	0.0583		< 0.0657	UJ	0.0679		< 0.0577	U	0.0445
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0375	U	0.0765		< 0.0362	U	0.0583		< 0.0321	U	0.064		< 0.0054	U	0.0842		< 0.0141	U	0.0494
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.0508	U	0.207		< -0.104	U	0.154		< 0.172	U	0.164		< -0.121	U	0.226		< 0.0227	U	0.132
15816-77-0	LEAD-211	TRG	pCi/g	< 0.16	U	0.191		< -0.136	U	0.146		< -0.0555	U	0.174		< -0.0221	U	0.198		< -0.0365	U	0.116
18879-28-2	LEAD-212	TRG	pCi/g	0.21		0.0263		0.186		0.0189		0.341		0.0219		0.243		0.0316		0.236		0.0188
378253-40-8	BARIUM-137m	TRG	pCi/g	0.109		0.0201		0.0191		0.0122		0.0948		0.0154		< 0.00378	U	0.0104		< 0.000165	U	0.0061
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< -0.53	U	1.89		< 0.165	U	1.16		2.3		2.06		< 0.353	U	1.89		< 0.979	U	1.20
7440-14-4	RADIUM	CALC	pCi/g	0.4065		0.092		0.2995		0.073		0.768		0.072		0.451		0.133		0.3765		0.075
7440-61-1	URANIUM-238	CALC	pCi/g	< -0.2015	U	1.91		0.21		1.17		1.606		2.08		< 0.3625	U	1.95		0.671		1.21

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P24QA 11/18/2014 P24QASS111814S SO N		P24QA 11/18/2014 P24QANS111814S SO N		P24QA 11/18/2014 P24QASB111814S SO N		P24QB 11/18/2014 P24QBSS111814S SO N		P24QB 11/18/2014 P24QBNS111814D SO N						
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)					
10045-97-3	CESIUM-137	CALC	pCi/g	0.0903	0.021	0.0789	0.014	< 0.0117	U	0.009	0.156	0.017	0.0424	0.016				
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00776	U	0.015	< -0.000442	U	0.00936	< -0.0103	U	0.0111	< 0.00483	U	0.00911	< -0.00273	U	0.0131
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.4	0.471	11.9	0.379	11.9	0.433	11.2	0.397	12.6	0.428					
13982-63-3	RADIUM-226	CALC	pCi/g	0.694	0.083	0.6295	0.056	0.2245	0.05	0.311	0.053	0.194	0.071					
14255-04-0	LEAD-210	TRG	pCi/g	1.46	0.346	0.78	0.199	0.202	0.169	0.938	0.204	0.453	0.392					
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.413	0.0945	0.43	0.0739	0.21	0.0549	0.201	0.0598	< 0.0359	UJ	0.101				
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.243	UJ	0.399	< -0.0908	UJ	0.298	< 0.101	UJ	0.267	< 0.148	UJ	0.327	< 0.298	UJ	0.463
14596-10-2	AMERICIUM-241	TRG	pCi/g	< -0.00785	U	0.0214	< 0.0117	U	0.0116	< -0.00163	U	0.011	< 0.0073	U	0.0104	< 0.0124	U	0.0186
14733-03-0	BISMUTH-214	TRG	pCi/g	0.671	0.0607	0.546	0.0402	0.242	0.0366	0.276	0.0385	0.174	0.0522					
14835-02-0	RADON-219	TRG	pCi/g	< 0.0091	U	0.121	< 0.0129	U	0.0939	< 0.0501	U	0.0859	< 0.0189	U	0.0859	< 0.0491	U	0.142
14913-49-6	BISMUTH-212	TRG	pCi/g	0.514	0.207	0.725	0.160	< 0.0455	U	0.236	0.364	0.173	< 0.284	U	0.321			
14913-50-9	THALLIUM-208	TRG	pCi/g	0.133	0.0281	0.142	0.0196	0.0653	0.0152	0.073	0.0138	0.081	0.024					
14932-40-2	THORIUM-231	TRG	pCi/g	0.285	0.141	0.318	0.102	0.179	0.0554	0.106	0.0983	< -0.187	UJ	0.153				
15065-10-8	THORIUM-234	TRG	pCi/g	0.671	0.263	0.629	0.231	0.236	0.141	0.321	0.243	< 0.0126	U	0.497				
15067-28-4	LEAD-214	TRG	pCi/g	0.717	0.0559	0.713	0.0394	0.207	0.0344	0.346	0.0361	0.214	0.0484					
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.00961	U	0.0818	< 0.0492	U	0.0676	< 0.0382	U	0.043	< -0.0152	U	0.051	< 0.0174	U	0.110
15229-37-5	BISMUTH-211	TRG	pCi/g	< 1.96	U	0.153	< 1.95	U	0.108	< 0.567	U	0.0941	< 0.947	U	0.0988	< 0.178	U	0.277
15262-20-1	RADIUM-228	CALC	pCi/g	0.413	0.0945	0.43	0.0739	0.21	0.0549	0.201	0.0598	< 0.0359	UJ	0.101				
15623-45-7	RADIUM-223	TRG	pCi/g	0.208	0.0817	0.144	0.0592	0.0728	0.0444	< 0.107	UJ	0.0551	0.103	0.0839				
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0171	U	0.0958	< 0.0564	U	0.069	< 0.0459	U	0.061	< 0.0285	U	0.067	< 0.0933	U	0.113
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.138	U	0.248	< 0.116	U	0.181	< -0.0266	U	0.158	< 0.179	U	0.173	< 0.225	U	0.280
15816-77-0	LEAD-211	TRG	pCi/g	< 0.023	U	0.244	< -0.0554	U	0.185	< -0.0814	U	0.171	< -0.0376	U	0.175	< -0.501	U	0.421
18879-28-2	LEAD-212	TRG	pCi/g	0.508	0.0325	0.519	0.0245	0.19	0.0191	0.268	0.0212	0.237	0.0352					
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0854	0.0196	0.0746	0.0132	< 0.0111	U	0.0088	0.148	0.0163	0.0401	0.0152				
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	5.27	2.29	< 1.56	U	1.66	< 0.972	U	1.85	< 1.26	U	1.64	< 0.808	U	3.03	
7440-14-4	RADIUM	CALC	pCi/g	1.107	0.125	1.0595	0.093	0.4345	0.074	0.512	0.08	0.2299	0.124					
7440-61-1	URANIUM-238	CALC	pCi/g	2.9705	2.31	1.0945	1.68	0.604	1.86	0.7905	1.66	< 0.4103	U	3.07				

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P24QB 11/18/2014 P24QBNS111814S SO N			P24QB 11/18/2014 P24QBSB111814S SO N			P24QC 11/18/2014 P24QCSS111814S SO N			P24QC 11/18/2014 P24QCNS111814S SO N			P24QC 11/18/2014 P24QCSB111814S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)			
10045-97-3	CESIUM-137	CALC	pCi/g	0.0332	0.011	< 0.00961	U	0.019	0.0556	0.023	< -0.0311	U	0.013	0.0257	0.018			
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00057	U	0.00772	< 0.00568	U	0.00999	< 0.00871	U	0.0161	< 0.00974	U	0.0129	< -0.00042	U	0.0134
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.8	0.344	10.9	0.401	14.3	0.534	16.2	0.489	13	0.476					
13982-63-3	RADIUM-226	CALC	pCi/g	0.1855	0.043	0.159	0.051	2.15	0.122	3.05	0.1	1.385	0.112					
14255-04-0	LEAD-210	TRG	pCi/g	0.312	0.212	< -0.0274	UJ	0.166	2.34	0.491	2.87	0.293	1.43	0.438				
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.222	J	0.0498	0.171	0.0712	1.55	0.162	1.89	0.106	1.04	0.117				
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0969	UJ	0.253	< -0.103	UJ	0.280	< -0.575	UJ	0.655	< -0.146	UJ	0.512	< 0.388	UJ	0.488
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.000201	U	0.00989	< 0.00936	U	0.0107	< 0.0575	U	0.0276	< 0.039	U	0.0183	< 0.00792	U	0.0253
14733-03-0	BISMUTH-214	TRG	pCi/g	0.174	0.0288	0.137	0.0341	1.99	0.0908	2.73	0.0721	1.26	0.084					
14835-02-0	RADON-219	TRG	pCi/g	< -0.0131	U	0.0697	< 0.0153	U	0.0857	< -0.157	U	0.185	< 0.105	U	0.151	< 0.142	U	0.188
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.278	U	0.142	< 0.218	U	0.208	1.74	0.450	2.12	0.269	< 1.07	U	0.312		
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0573	0.0155	0.0729	0.0219	0.427	0.0448	0.585	0.0268	0.323	0.031					
14932-40-2	THORIUM-231	TRG	pCi/g	0.105	J	0.100	< 0.0958	U	0.107	< 0.446	U	0.247	< 1.48	U	0.142	< 0.639	U	0.200
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.253	U	0.251	0.306	0.276	2.68	0.622	3.49	0.354	2.23	0.586				
15067-28-4	LEAD-214	TRG	pCi/g	0.197	0.0325	0.181	0.0373	2.31	0.0817	3.37	0.0686	1.51	0.0736					
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0144	U	0.055	< -0.0345	U	0.0494	< 0.0374	UJ	0.169	0.148	0.102	< 0.0883	UJ	0.131	
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.539	U	0.0889	< 0.495	U	0.102	< 6.32	U	0.223	< 9.22	U	0.188	< 4.13	U	0.201
15262-20-1	RADIUM-228	CALC	pCi/g	0.222	J	0.0498	0.171	0.0712	1.55	0.162	1.89	0.106	1.04	0.117				
15623-45-7	RADIUM-223	TRG	pCi/g	0.0846	0.0494	< 0.0106	UJ	0.0669	< 0.541	UJ	0.123	< 0.776	UJ	0.100	< 0.379	UJ	0.107	
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.0217	U	0.0686	< 0.0061	U	0.0683	< 0.0472	U	0.177	< 0.167	U	0.144	< -0.0147	U	0.131
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.0221	U	0.157	< 0.18	U	0.163	< 0.586	U	0.416	< 0.16	U	0.300	< 0.222	U	0.307
15816-77-0	LEAD-211	TRG	pCi/g	< -0.116	U	0.124	< 0.00538	U	0.149	< -0.0879	U	0.376	< 0.489	U	0.370	< -0.158	U	0.416
18879-28-2	LEAD-212	TRG	pCi/g	0.223	0.0207	0.234	0.0245	1.53	0.0539	2.14	0.0421	1.07	0.0443					
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0314	0.0108	< 0.00909	U	0.0179	0.0526	0.0215	< -0.0294	U	0.0125	0.0243	0.0174			
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.1	U	1.36	< 0.983	U	1.17	< 1.77	U	3.79	3.04	2.40	< 0.975	U	2.40	
7440-14-4	RADIUM	CALC	pCi/g	0.4075	0.066	0.33	0.087	3.7	0.203	4.94	0.145	2.425	0.162					
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.1765	U	1.38	0.6445	1.2	2.225	3.84	3.265	2.43	1.6025	2.47				

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P24QD 11/18/2014 P24QDSS111814S SO N		P24QD 11/18/2014 P24QDNS111814S SO N		P24QD 11/18/2014 P24QDSB111814S SO N		P29QA 11/21/2014 P29QASS112114S SO N		P29QA 11/21/2014 P29QANS112114S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.110	0.023	0.0458	0.017	0.0501	0.017	0.106	0.014	0.161	0.028
10198-40-0	COBALT-60	TRG	pCi/g	< 0.0019	U	< -0.00669	U	< 0.0113	U	< 0.00376	U	< 0.0000602	U
13966-00-2	POTASSIUM-40	TRG	pCi/g	12.6	0.543	15.1	0.453	13.6	0.506	11.5	0.374	11.8	0.505
13982-63-3	RADIUM-226	CALC	pCi/g	1.61	0.103	2.37	0.096	1.575	0.095	1.023	0.067	0.856	0.102
14255-04-0	LEAD-210	TRG	pCi/g	2.34	0.378	2.59	2.07	1.79	0.259	1.35	0.237	1.07	0.432
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.958	0.117	1.64	0.108	1.15	0.112	0.512	0.062	0.492	0.117
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0948	UJ	< -0.3	UJ	< 0.341	UJ	< 0.282	UJ	< -0.342	UJ
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00336	U	< 0.0721	U	< 0.00591	U	< 0.0187	U	< 0.0212	U
14733-03-0	BISMUTH-214	TRG	pCi/g	1.48	0.0748	2.1	0.0647	1.58	0.0638	0.956	0.0473	0.805	0.0708
14835-02-0	RADON-219	TRG	pCi/g	< 0.14	U	< 0.194	U	< 0.0414	U	< 0.000454	U	< 0.0542	U
14913-49-6	BISMUTH-212	TRG	pCi/g	1.4	0.290	1.41	0.345	1.12	0.353	0.561	0.200	0.441	0.341
14913-50-9	THALLIUM-208	TRG	pCi/g	0.352	0.0321	0.47	0.0266	0.343	0.0233	0.139	0.0181	0.115	0.0313
14932-40-2	THORIUM-231	TRG	pCi/g	0.697	0.169	1.05	0.243	0.674	0.116	< 0.429	U	< 0.39	U
15065-10-8	THORIUM-234	TRG	pCi/g	1.84	0.415	2.69	0.758	1.91	0.330	0.851	0.228	0.589	0.543
15067-28-4	LEAD-214	TRG	pCi/g	1.74	0.0707	2.64	0.0708	1.57	0.0704	1.09	0.0476	0.907	0.074
15117-96-1	URANIUM-235	TRG	pCi/g	0.124	0.105	0.143	0.119	0.163	0.109	< 0.0393	U	< 0.107	UJ
15229-37-5	BISMUTH-211	TRG	pCi/g	< 4.75	U	< 7.23	U	< 4.31	U	< 2.98	U	< 2.48	U
15262-20-1	RADIUM-228	CALC	pCi/g	0.958	0.117	1.64	0.108	1.15	0.112	0.512	0.062	0.492	0.117
15623-45-7	RADIUM-223	TRG	pCi/g	0.443	0.122	0.587	0.111	0.364	0.0931	< 0.224	UJ	< 0.115	UJ
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.318	U	< 0.0984	U	< 0.00536	U	< 0.0331	U	< -0.0253	U
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.0358	U	< 0.543	U	< 0.061	U	< -0.0712	U	< 0.204	U
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0548	U	< 0.0771	U	< -0.215	U	< 0.00255	U	< -0.293	U
18879-28-2	LEAD-212	TRG	pCi/g	1.11	0.0419	1.7	0.0436	1.19	0.041	0.525	0.0261	0.477	0.0419
378253-40-8	BARIUM-137m	TRG	pCi/g	0.104	0.0216	0.0433	0.0159	0.0474	0.0162	0.1	0.0131	0.152	0.0265
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 2.2	U	< 4.43	U	4.08	2.14	< 0.477	U	< 0.926	U
7440-14-4	RADIUM	CALC	pCi/g	2.568	0.156	4.01	0.144	2.725	0.147	1.535	0.091	1.348	0.155
7440-61-1	URANIUM-238	CALC	pCi/g	2.02	2.9	3.56	1.93	2.995	2.17	0.664	1.95	0.7575	3.19

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P29QA 11/21/2014 P29QASB112114S SO N		P29QB 11/21/2014 P29QBSS112114S SO N		P29QB 11/21/2014 P29QBNS112114S SO N		P29QB 11/21/2014 P29QBSS112114S SO N		P29QC 11/21/2014 P29QCSS112114S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.0150	U	0.015	0.154	0.022	0.179	0.022	0.0182	0.013	0.0867
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00734	U	0.0118	< -0.00311	U	0.0129	< -0.0226	U	0.0101	< -0.000919
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.9		0.444	10.8		0.470	11.2		0.426	12.6
13982-63-3	RADIUM-226	CALC	pCi/g	0.139		0.055	0.745		0.087	0.66		0.089	0.195
14255-04-0	LEAD-210	TRG	pCi/g	0.332		0.308	1.04		0.248	0.822		0.447	0.242
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.127		0.0841	0.385		0.106	0.293		0.127	0.239
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0634	UJ	0.278	< -0.0815	UJ	0.414	< 0.141	UJ	0.466	< 0.127
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0117	U	0.0112	< 0.00713	U	0.0165	< 0.0311	U	0.026	< 0.0032
14733-03-0	BISMUTH-214	TRG	pCi/g	0.134		0.0376	0.695		0.0674	0.62		0.0658	0.188
14835-02-0	RADON-219	TRG	pCi/g	< 0.031	U	0.0854	< 0.0947	U	0.127	< 0.0381	U	0.141	< 0.0421
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.253	U	0.251	0.447		0.337	0.556		0.287	< 0.000163
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0336		0.0191	0.129		0.0261	0.119		0.0304	0.0662
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0516	U	0.117	< 0.112	U	0.157	< 0.159	U	0.161	< 0.077
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.268	U	0.294	0.589		0.372	0.972		0.523	0.372
15067-28-4	LEAD-214	TRG	pCi/g	0.144		0.0405	0.795		0.0557	0.7		0.0605	0.202
15117-96-1	URANIUM-235	TRG	pCi/g	< -0.0679	U	0.0568	< 0.0714	U	0.0931	0.149		0.118	< 0.00823
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.394	U	0.111	< 2.18	U	0.152	< 1.91	U	0.165	< 0.553
15262-20-1	RADIUM-228	CALC	pCi/g	0.127		0.0841	0.385		0.106	0.293		0.127	0.239
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0756	UJ	0.0539	< 0.204	UJ	0.0969	< 0.131	UJ	0.112	< 0.0878
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0113	U	0.0706	< 0.0634	U	0.0989	< -0.000589	U	0.111	< 0.00402
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.028	U	0.183	< -0.0131	U	0.286	< 0.162	U	0.291	< -0.0869
15816-77-0	LEAD-211	TRG	pCi/g	< -0.0833	U	0.152	< -0.191	U	0.259	< -0.165	U	0.249	< -0.0599
18879-28-2	LEAD-212	TRG	pCi/g	0.187		0.0245	0.42		0.0325	0.367		0.0374	0.15
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.0142	U	0.0145	0.146		0.0205	0.169		0.0211	0.0172
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.87	U	1.90	< -0.224	U	2.46	< 1.35	U	1.55	< -0.385
7440-14-4	RADIUM	CALC	pCi/g	0.266		0.101	1.13		0.137	0.953		0.155	0.434
7440-61-1	URANIUM-238	CALC	pCi/g	< 1.069	U	1.92	0.1825		2.49	1.161		1.64	-0.0065

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P29QC 11/21/2014 P29QCNS112114S SO N		P29QC 11/21/2014 P29QCSB112114S SO N		P29QD 11/21/2014 P29QDSS112114S SO N		P29QD 11/21/2014 P29QDNS112114D SO FD		P29QD 11/21/2014 P29QDNS112114S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.0327	0.018	< 0.00362	U 0.007	0.0448	0.013	0.0211	0.018	0.0180	0.012
10198-40-0	COBALT-60	TRG	pCi/g	< -0.0061	U 0.0154	< 0.00303	U 0.00758	< -0.0118	U 0.0137	< -0.0000347	U 0.0127	< 0.00241	U 0.00809
13966-00-2	POTASSIUM-40	TRG	pCi/g	10.1	0.420	12.1	0.351	11.2	0.478	10.2	0.469	10.3	0.347
13982-63-3	RADIUM-226	CALC	pCi/g	0.3695	0.069	0.17	0.042	1.0355	0.081	0.2635	0.078	0.271	0.052
14255-04-0	LEAD-210	TRG	pCi/g	0.639	0.286	0.303	0.220	1.2	0.190	< 0.273	UJ 0.426	0.326	0.190
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.247	0.0859	0.186	0.0541	0.488	0.0875	0.215	0.0895	0.238	0.0628
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.193	UJ 0.365	< 0.0766	UJ 0.256	< -0.109	UJ 0.351	< 0.153	UJ 0.417	< -0.0229	UJ 0.258
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0194	U 0.0196	< 0.0078	U 0.00995	< -0.000438	U 0.0131	< -0.00679	U 0.0234	< 0.00675	U 0.00949
14733-03-0	BISMUTH-214	TRG	pCi/g	0.35	0.0496	0.161	0.030	0.931	0.0582	0.241	0.0532	0.244	0.0358
14835-02-0	RADON-219	TRG	pCi/g	< -0.11	U 0.134	< 0.0331	U 0.0712	< 0.0634	U 0.126	< 0.152	U 0.155	< 0.0313	U 0.0791
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.399	U 0.152	0.272	0.106	0.578	0.231	< 0.076	U 0.228	< 0.293	U 0.141
14913-50-9	THALLIUM-208	TRG	pCi/g	0.086	0.0239	0.048	0.015	0.161	0.0244	0.0528	0.0216	0.0579	0.0154
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.14	U 0.141	< 0.0751	U 0.0906	< 0.414	U 0.0989	< 0.0513	U 0.132	< 0.0856	U 0.103
15065-10-8	THORIUM-234	TRG	pCi/g	0.397	0.336	< 0.0909	U 0.188	1.38	0.260	0.684	0.542	< 0.173	U 0.215
15067-28-4	LEAD-214	TRG	pCi/g	0.389	0.0473	0.179	0.0296	1.14	0.0559	0.286	0.0572	0.298	0.0372
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0808	U 0.0905	< -0.0118	U 0.0587	0.136	0.0745	< 0.0345	U 0.0985	< 0.0499	U 0.0598
15229-37-5	BISMUTH-211	TRG	pCi/g	< 1.06	U 0.129	< 0.489	U 0.0808	< 3.13	U 0.153	< 0.782	U 0.156	< 0.814	U 0.102
15262-20-1	RADIUM-228	CALC	pCi/g	0.247	0.0859	0.186	0.0541	0.488	0.0875	0.215	0.0895	0.238	0.0628
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.111	UJ 0.0675	< 0.098	U 0.0502	< 0.217	UJ 0.0724	< 0.246	UJ 0.136	< 0.0953	U 0.0452
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0728	U 0.0874	< -0.027	U 0.0607	< -0.00971	U 0.0922	< -0.103	U 0.110	< 0.0806	U 0.0574
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.181	U 0.235	< 0.0329	U 0.160	< 0.16	U 0.219	< 0.114	U 0.257	< 0.123	U 0.153
15816-77-0	LEAD-211	TRG	pCi/g	< -0.135	U 0.188	< -0.015	U 0.128	< 0.000228	U 0.315	< 0.102	U 0.337	< -0.023	U 0.139
18879-28-2	LEAD-212	TRG	pCi/g	0.251	0.0332	0.175	0.0196	0.538	0.0271	0.197	0.0335	0.212	0.019
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0309	0.0175	< 0.00342	U 0.00665	0.0424	0.0125	0.02	0.0173	0.017	0.0112
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< -1.93	U 2.05	< 0.129	U 1.21	< 2.93	U 1.58	< 0.533	U 1.54	< -0.0925	U 1.48
7440-14-4	RADIUM	CALC	pCi/g	0.6165	0.11	0.356	0.069	1.5235	0.119	0.4785	0.119	0.509	0.081
7440-61-1	URANIUM-238	CALC	pCi/g	-0.7665	2.08	< 0.10995	U 1.22	2.155	1.6	0.6085	1.63	< 0.04025	U 1.5

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P29QD 11/21/2014 P29QDSB112114S SO N			P34QA 11/17/2014 P34QASS111714S SO N			P34QA 11/17/2014 P34QANS111714S SO N			P34QA 11/17/2014 P34QASB111714S SO N			P34QB 11/17/2014 P34QBSS111714S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< -0.00551	U	0.009	0.0601		0.015	< 0.0121	U	0.017	0.0443		0.011	0.0237		0.013
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00207	U	0.00983	< -0.0126	U	0.0112	< -0.0166	U	0.0202	< 0.0104	U	0.00937	< -0.00214	U	0.0107
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.9		0.427	10.9		0.426	15.3		0.509	12.2		0.345	14.2		0.415
13982-63-3	RADIUM-226	CALC	pCi/g	0.159		0.069	1.455		0.079	2.475		0.119	0.821		0.058	2.58		0.099
14255-04-0	LEAD-210	TRG	pCi/g	0.294		0.210	1.95		0.267	2.67		0.518	1.02		0.234	4.58		3.59
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.15		0.0769	0.722		0.0915	1.74		0.139	0.501		0.0747	1.52		0.0954
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.399	UJ	0.303	< -0.051	UJ	0.392	< -0.011	UJ	0.550	< -0.0218	UJ	0.305	< -0.271	UJ	0.518
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00687	U	0.0117	< 0.0134	U	0.0151	< 0.0886	U	0.0487	< 0.0139	U	0.0129	< 0.0843	U	0.0655
14733-03-0	BISMUTH-214	TRG	pCi/g	0.17		0.0484	1.3		0.054	2.32		0.0851	0.767		0.0386	2.33		0.0674
14835-02-0	RADON-219	TRG	pCi/g	< 0.0405	U	0.092	< 0.0446	U	0.140	< -0.0967	U	0.179	< -0.00318	U	0.0989	0.311		0.196
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.104	U	0.208	0.759		0.210	1.53		0.399	0.769		0.175	1.81		0.305
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0569		0.0208	0.225		0.0255	0.485		0.0374	0.167		0.0181	0.476		0.0297
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0802	U	0.133	0.397		0.115	1.26		0.202	0.329		0.115	1.27		0.226
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.142	U	0.312	1.53		0.288	2.97		0.558	1.09		0.250	2.67		1.12
15067-28-4	LEAD-214	TRG	pCi/g	0.148		0.0491	1.61		0.0571	2.63		0.0826	0.875		0.0428	2.83		0.0723
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0643	U	0.0842	0.141		0.0842	0.176		0.142	< 0.0503	U	0.0732	0.24		0.116
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.405	U	0.134	< 4.41	U	0.157	< 7.21	U	0.226	< 2.4	U	0.118	< 7.75	U	0.198
15262-20-1	RADIUM-228	CALC	pCi/g	0.15		0.0769	0.722		0.0915	1.74		0.139	0.501		0.0747	1.52		0.0954
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.109	U	0.0562	0.308		0.0731	0.518		0.137	0.275		0.0589	0.592		0.108
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0775	U	0.0839	< 0.0968	U	0.127	< 0.0997	U	0.131	< 0.0157	U	0.0804	< 0.0815	U	0.128
15756-98-6	FRANCIUM-223	TRG	pCi/g	< -0.158	U	0.200	< 0.102	U	0.241	< 0.552	U	0.329	< 0.17	U	0.190	< 0.125	U	0.322
15816-77-0	LEAD-211	TRG	pCi/g	< -0.108	U	0.166	< -0.168	U	0.249	< 0.0954	U	0.333	< 0.0203	U	0.167	< -0.00305	U	0.358
18879-28-2	LEAD-212	TRG	pCi/g	0.145		0.0286	0.724		0.0298	1.65		0.0509	0.644		0.0265	1.68		0.0428
378253-40-8	BARIUM-137m	TRG	pCi/g	< -0.00521	U	0.00897	0.0569		0.0138	< 0.0114	U	0.0163	0.0419		0.0108	0.0224		0.0126
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.922	U	1.97	< 1.23	U	1.77	< 3.55	U	2.42	< 0.842	U	1.82	< 2.37	U	2.40
7440-14-4	RADIUM	CALC	pCi/g	0.309		0.103	2.177		0.121	4.215		0.183	1.322		0.094	4.1		0.137
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.532	U	1.99	1.38		1.79	3.26		2.48	0.966		1.84	2.52		2.65

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P34QB 11/17/2014 P34QBNS111714S SO N			P34QB 11/17/2014 P34QBSB111714S SO N			P34QC 11/17/2014 P34QCSS111714S SO N			P34QC 11/17/2014 P34QCNS111714D SO FD			P34QC 11/17/2014 P34QCNS111714S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< -0.0000186	U	0.015	0.0370	0.027	0.0359	0.02	0.0307	J	0.017	0.0506	J	0.016		
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00849	U	0.0132	< 0.00492	U	0.0157	< 0.00211	U	0.0163	< 0.00956	U	0.0138	< -0.00658	U	0.0132
13966-00-2	POTASSIUM-40	TRG	pCi/g	14.7		0.494	16		0.489	14.2		0.458	15.3		0.487	11.6		0.432
13982-63-3	RADIUM-226	CALC	pCi/g	2.64		0.107	2.345		0.118	1.74		0.094	2.375	J	0.107	1.24	J	0.089
14255-04-0	LEAD-210	TRG	pCi/g	2.4		0.333	2.29		0.445	1.8		0.378	2.1	J	0.386	1.21	J	0.302
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.65		0.117	1.34		0.138	1.31		0.0992	1.41	J	0.140	0.776	J	0.104
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.355	UJ	0.483	< -0.599	UJ	0.598	< 0.132	UJ	0.532	< 0.307	UJ	0.573	< -0.16	UJ	0.359
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0345	U	0.0199	< 0.051	U	0.0265	< 0.0577	U	0.0239	< 0.062	U	0.0258	< 0.0173	U	0.0173
14733-03-0	BISMUTH-214	TRG	pCi/g	2.4		0.0759	2.13		0.0801	1.58		0.066	2.2	J	0.0716	1.12	J	0.0638
14835-02-0	RADON-219	TRG	pCi/g	< 0.112	U	0.212	< 0.238	U	0.203	< -0.0855	U	0.295	< 0.045	U	0.153	< -0.0109	U	0.121
14913-49-6	BISMUTH-212	TRG	pCi/g	1.88		0.357	1.39		0.396	1.31		0.312	1.61	J	0.301	0.969	J	0.220
14913-50-9	THALLIUM-208	TRG	pCi/g	0.496		0.032	0.465		0.0383	0.39		0.0289	0.496	J	0.0334	0.25	J	0.0271
14932-40-2	THORIUM-231	TRG	pCi/g	1.23		0.176	1.03		0.240	0.588		0.174	0.834	J	0.199	0.475	J	0.155
15065-10-8	THORIUM-234	TRG	pCi/g	2.9		0.469	2.49		0.615	2.48		0.428	2.4	J	0.497	1.24	J	0.390
15067-28-4	LEAD-214	TRG	pCi/g	2.88		0.0756	2.56		0.0863	1.9		0.0665	2.55	J	0.0794	1.36	J	0.0626
15117-96-1	URANIUM-235	TRG	pCi/g	0.212		0.123	0.252		0.152	< 0.0937	UJ	0.111	0.165		0.143	0.157		0.102
15229-37-5	BISMUTH-211	TRG	pCi/g	< 7.89	U	0.207	< 7.04	U	0.237	< 5.2	U	0.182	< 6.98	U	0.217	< 3.72	U	0.172
15262-20-1	RADIUM-228	CALC	pCi/g	1.65		0.117	1.34		0.138	1.31		0.0992	1.41	J	0.14	0.776	J	0.104
15623-45-7	RADIUM-223	TRG	pCi/g	0.623		0.110	0.535		0.123	0.485		0.109	0.621	J	0.118	0.365	J	0.105
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.00659	U	0.129	< 0.0428	U	0.164	< 0.0444	U	0.114	< 0.0602	U	0.166	< 0.0164	U	0.0912
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.0231	U	0.354	< 0.502	U	0.386	< 0.704	U	0.318	< 0.945	U	0.350	< 0.133	U	0.245
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0641	U	0.410	< -0.517	U	0.485	< 0.296	U	0.276	< -0.34	U	0.272	< -0.12	U	0.234
18879-28-2	LEAD-212	TRG	pCi/g	1.8		0.0466	1.68		0.053	1.33		0.0432	1.69	J	0.0489	0.698	J	0.0341
378253-40-8	BARIUM-137m	TRG	pCi/g	< -0.0000176	U	0.0146	0.035		0.0256	0.034		0.0185	0.029	J	0.0164	0.0479	J	0.0148
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 2.3	U	2.22	< 2.26	U	3.46	< 4.49	U	2.50	< 9.41	U	2.97	< 3.51	U	2.05
7440-14-4	RADIUM	CALC	pCi/g	4.29		0.159	3.685		0.181	3.05		0.136	3.785	J	0.176	2.016	J	0.137
7440-61-1	URANIUM-238	CALC	pCi/g	2.6		2.27	2.375		3.51	3.485		2.54	5.905	J	3.01	2.375	J	2.09

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P34QC 11/17/2014 P34QCSB111714S SO N			P34QD 11/17/2014 P34QDSS111714S SO N			P34QD 11/17/2014 P34QDNS111714S SO N			P34QD 11/17/2014 P34QDSB111714S SO N			P34QP 11/17/2014 P34QPSS111714S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)			
10045-97-3	CESIUM-137	CALC	pCi/g	0.0403		0.015	< 0.0170	U	0.018	< 0.0140	U	0.016	0.0443		0.025	< 0.00892	U	0.018
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00642	U	0.0108	< 0.00206	U	0.0152	< 0.00198	U	0.0106	< 0.000359	U	0.0182	< 0.000895	U	0.0169
13966-00-2	POTASSIUM-40	TRG	pCi/g	15.5		0.399	15.1		0.520	15.3		0.411	16.9		0.510	15.6		0.556
13982-63-3	RADIUM-226	CALC	pCi/g	2.235		0.084	1.94		0.093	2.085		0.081	2.425		0.119	2.68		0.136
14255-04-0	LEAD-210	TRG	pCi/g	2.47		0.303	1.91		0.296	2.09		0.271	2.35		0.495	2.24		0.529
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.4		0.0829	1.2		0.122	1.41		0.0911	1.56		0.157	1.7		0.146
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.422	UJ	0.395	< 0.0051	UJ	0.416	< 0.0178	UJ	0.364	< 0.046	UJ	0.681	< 0.526	UJ	0.699
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0512	U	0.0172	< -0.0179	U	0.0199	< 0.0165	U	0.015	< 0.0465	U	0.026	< 0.0606	U	0.0495
14733-03-0	BISMUTH-214	TRG	pCi/g	2.01		0.0579	1.81		0.0653	1.86		0.0568	2.21		0.0833	2.44		0.0981
14835-02-0	RADON-219	TRG	pCi/g	< 0.172	U	0.134	< 0.026	U	0.166	< 0.0999	U	0.117	< -0.0182	U	0.173	< 0.0676	U	0.202
14913-49-6	BISMUTH-212	TRG	pCi/g	1.6		0.268	1.43		0.330	1.41		0.255	1.77		0.361	1.69		0.424
14913-50-9	THALLIUM-208	TRG	pCi/g	0.439		0.0268	0.392		0.0289	0.427		0.0223	0.497		0.0403	0.503		0.0388
14932-40-2	THORIUM-231	TRG	pCi/g	1.07		0.147	0.922		0.103	1.06		0.126	1.13		0.256	1.16		0.229
15065-10-8	THORIUM-234	TRG	pCi/g	2.95		0.404	1.9		0.332	2.27		0.370	2.67		0.605	3.48		0.519
15067-28-4	LEAD-214	TRG	pCi/g	2.46		0.0606	2.07		0.0662	2.31		0.0581	2.64		0.0855	2.92		0.0946
15117-96-1	URANIUM-235	TRG	pCi/g	0.191		0.102	0.118		0.078	0.126		0.0814	0.144		0.168	0.229		0.163
15229-37-5	BISMUTH-211	TRG	pCi/g	< 6.76	U	0.166	< 5.66	U	0.181	< 6.31	U	0.159	< 7.23	U	0.234	< 8.01	U	0.259
15262-20-1	RADIUM-228	CALC	pCi/g	1.4		0.0829	1.2		0.122	1.41		0.0911	1.56		0.157	1.7		0.146
15623-45-7	RADIUM-223	TRG	pCi/g	0.509		0.095	0.559		0.106	0.484		0.100	0.684		0.123	0.619		0.138
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0166	U	0.109	< 0.0651	U	0.111	< 0.0652	U	0.102	< 0.0484	U	0.163	< 0.0396	U	0.157
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.399	U	0.261	< 0.378	U	0.262	< -0.0433	U	0.339	< 0.416	U	0.384	< 0.814	U	0.369
15816-77-0	LEAD-211	TRG	pCi/g	< -0.201	U	0.229	< 0.0633	U	0.376	< 0.109	U	0.319	< 0.312	U	0.338	< 0.136	U	0.368
18879-28-2	LEAD-212	TRG	pCi/g	1.62		0.0371	1.41		0.0369	1.51		0.0349	1.79		0.0516	1.89		0.0553
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0381		0.0141	< 0.0161	U	0.0169	< 0.0132	U	0.015	0.0419		0.0239	< 0.00844	U	0.017
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	4.07		2.91	< 4.24	U	2.88	3.7		1.73	< 2.14	U	3.45	< 1.83	U	2.78
7440-14-4	RADIUM	CALC	pCi/g	3.635		0.118	3.14		0.153	3.495		0.122	3.985		0.197	4.38		0.2
7440-61-1	URANIUM-238	CALC	pCi/g	3.51		2.94	3.07		2.9	2.985		1.77	2.405		3.5	2.655		2.83

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P34QP 11/17/2014 P34QPNS111714S SO N		P34QP 11/17/2014 P34QPSB111714S SO N		P35QA 11/20/2014 P35QASS112014S SO N		P35QA 11/20/2014 P35QANS112014S SO N		P35QA 11/20/2014 P35QASB112014S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.108	0.02	0.0613	0.014	< 0.00432	U	0.015	< 0.0215	U	0.018
10198-40-0	COBALT-60	TRG	pCi/g	< -0.000181	U	0.0126	< -0.00435	U	0.0107	< 0.000262	U	0.0126	< 0.00679
13966-00-2	POTASSIUM-40	TRG	pCi/g	13.4	0.473	12.3	0.406	17	0.452	17.8	0.539	14.4	0.552
13982-63-3	RADIUM-226	CALC	pCi/g	1.875	0.098	1.0585	0.079	3	0.102	3.295	0.129	2.16	0.1
14255-04-0	LEAD-210	TRG	pCi/g	1.99	0.388	1.09	0.269	3.05	1.96	2.98	0.558	2.01	0.256
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.12	0.111	0.682	0.084	2.03	0.107	1.96	0.151	1.27	0.113
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0885	UJ	0.414	< -0.253	UJ	0.409	< 0.0131	UJ	0.806	< -0.038
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0163	U	0.0178	< 0.0129	U	0.0149	< 0.047	U	0.0308	< 0.00876
14733-03-0	BISMUTH-214	TRG	pCi/g	1.68	0.068	0.997	0.0524	2.68	0.0687	2.96	0.0905	1.96	0.0708
14835-02-0	RADON-219	TRG	pCi/g	< 0.168	U	0.163	< -0.103	U	0.150	< 0.289	U	0.212	< 0.103
14913-49-6	BISMUTH-212	TRG	pCi/g	1.19	0.330	0.593	0.287	2.07	0.293	1.91	0.454	1.55	0.288
14913-50-9	THALLIUM-208	TRG	pCi/g	0.374	0.0302	0.235	0.0261	0.554	0.028	0.643	0.045	0.413	0.0294
14932-40-2	THORIUM-231	TRG	pCi/g	1.05	0.170	0.409	0.155	< 1.18	U	0.259	< 1.67	U	0.229
15065-10-8	THORIUM-234	TRG	pCi/g	2.09	0.445	1.34	0.400	2.83	0.819	3.51	0.712	2.37	0.293
15067-28-4	LEAD-214	TRG	pCi/g	2.07	0.0711	1.12	0.0593	3.32	0.0759	3.63	0.0925	2.36	0.0712
15117-96-1	URANIUM-235	TRG	pCi/g	0.115	0.108	< 0.0806	U	0.0936	0.266	0.115	0.247	0.172	0.188
15229-37-5	BISMUTH-211	TRG	pCi/g	< 5.67	U	0.195	< 3.06	U	0.162	< 9.07	U	0.253	< 6.44
15262-20-1	RADIUM-228	CALC	pCi/g	1.12	0.111	0.682	0.084	2.03	0.107	1.96	0.151	1.27	0.113
15623-45-7	RADIUM-223	TRG	pCi/g	0.456	0.122	0.367	0.097	< 0.734	UJ	0.122	< 0.777	UJ	0.145
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.104	U	0.116	< -0.0156	U	0.0843	< -0.00891	U	0.207	< 0.0633
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.113	U	0.283	< 0.154	U	0.236	< 0.16	U	0.373	< 0.36
15816-77-0	LEAD-211	TRG	pCi/g	< 0.315	U	0.313	< 0.0208	U	0.217	< 0.282	U	0.318	< 0.513
18879-28-2	LEAD-212	TRG	pCi/g	1.31	0.0405	0.819	0.0355	2.02	0.0468	2.29	0.0581	1.46	0.0388
378253-40-8	BARIUM-137m	TRG	pCi/g	0.102	0.0191	0.058	0.0132	< 0.00409	U	0.014	< 0.0203	U	0.0192
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	2.79	1.82	2.66	2.05	4.5	2.03	4.23	3.49	< 3.37	U
7440-14-4	RADIUM	CALC	pCi/g	2.995	0.148	1.7405	0.115	5.03	0.148	5.255	0.199	3.43	0.151
7440-61-1	URANIUM-238	CALC	pCi/g	2.44	1.87	2	2.09	3.665	2.19	3.87	3.56	2.87	2.41

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P35QB 11/20/2014 P35QBSS112014S SO N			P35QB 11/20/2014 P35QBNS112014S SO N			P35QB 11/20/2014 P35QBSB112014S SO N			P35QC 11/20/2014 P35QCSS112014S SO N			P35QC 11/20/2014 P35QCNS112014D SO FD		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.0183	U	0.016	< 0.0265	U	0.014	< 0.0143	U	0.017	0.0770		0.02	0.0665		0.012
10198-40-0	COBALT-60	TRG	pCi/g	< 0.0115	U	0.0129	< 0.00348	U	0.00924	< -0.0247	U	0.020	< 0.00267	U	0.0146	< 0.00331	U	0.00934
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.8		0.451	13.7		0.378	14.9		0.530	15.3		0.538	12.4		0.366
13982-63-3	RADIUM-226	CALC	pCi/g	1.0635		0.079	1.825		0.075	2.575		0.122	2.845		0.121	1.0855	J	0.066
14255-04-0	LEAD-210	TRG	pCi/g	1.35		0.217	1.89		0.266	2.38		0.457	3.02		0.367	1.47		0.236
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.704		0.0948	1.15		0.078	1.61		0.134	1.78		0.132	0.717	J	0.0869
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.125	UJ	0.343	< -0.307	UJ	0.332	< 0.672	UJ	0.623	< 0.86	UJ	0.666	< 0.277	UJ	0.352
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00427	U	0.0126	< 0.0314	U	0.0134	< 0.0638	U	0.0388	< 0.0467	U	0.0221	< 0.0154	U	0.0124
14733-03-0	BISMUTH-214	TRG	pCi/g	0.977		0.0556	1.58		0.0513	2.38		0.0808	2.6		0.081	0.981	J	0.0484
14835-02-0	RADON-219	TRG	pCi/g	< -0.0269	U	0.109	< 0.136	U	0.131	< 0.123	U	0.180	< 0.131	U	0.182	< 0.0876	U	0.104
14913-49-6	BISMUTH-212	TRG	pCi/g	0.636		0.225	1.23		0.221	1.68		0.371	1.32		0.404	0.882	J	0.182
14913-50-9	THALLIUM-208	TRG	pCi/g	0.198		0.0224	0.361		0.0247	0.532		0.0393	0.517		0.0388	0.23	J	0.0207
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.512	U	0.102	< 1.03	U	0.120	< 1.1	U	0.228	< 1.35	U	0.188	< 0.476	U	0.106
15065-10-8	THORIUM-234	TRG	pCi/g	1.46		0.264	2.24		0.329	3.31		0.518	3.25		0.467	1.47		0.325
15067-28-4	LEAD-214	TRG	pCi/g	1.15		0.056	2.07		0.0547	2.77		0.0916	3.09		0.0903	1.19	J	0.0453
15117-96-1	URANIUM-235	TRG	pCi/g	0.0781		0.0632	0.204		0.0841	0.227		0.145	0.316		0.128	< 0.0643	U	0.0726
15229-37-5	BISMUTH-211	TRG	pCi/g	< 3.13	U	0.153	< 5.65	U	0.150	< 7.57	U	0.251	< 8.45	U	0.247	< 3.26	U	0.124
15262-20-1	RADIUM-228	CALC	pCi/g	0.704		0.0948	1.15		0.078	1.61		0.134	1.78		0.132	0.717	J	0.0869
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.341	UJ	0.0867	< 0.451	UJ	0.0771	< 0.521	UJ	0.127	< 0.568	UJ	0.123	< 0.294	U	0.0697
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0126	U	0.0864	< 0.0589	U	0.0881	< -0.073	U	0.147	< 0.23	U	0.163	< 0.0538	U	0.0901
15756-98-6	FRANCIUM-223	TRG	pCi/g	< -0.0369	U	0.213	< 0.178	U	0.212	< 0.494	U	0.352	< 0.125	U	0.371	< 0.103	U	0.193
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0933	U	0.220	< 0.0452	U	0.276	< 0.414	U	0.456	< 0.302	U	0.367	< -0.0902	U	0.268
18879-28-2	LEAD-212	TRG	pCi/g	0.807		0.030	1.34		0.0327	1.86		0.0546	1.81		0.0505	0.824	J	0.0272
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.0173	U	0.0148	< 0.0251	U	0.0133	< 0.0135	U	0.016	0.0728		0.0188	0.0629		0.0118
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.78	U	1.70	< 1.35	U	1.79	< 3.81	U	2.28	< 2.54	U	3.00	< 1.83	U	1.83
7440-14-4	RADIUM	CALC	pCi/g	1.7675		0.123	2.975		0.108	4.185		0.181	4.625		0.179	1.8025	J	0.109
7440-61-1	URANIUM-238	CALC	pCi/g	1.62		1.72	1.795		1.82	3.56		2.34	2.895		3.04	1.65		1.86

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P35QC 11/20/2014 P35QCNS112014S SO N		P35QC 11/20/2014 P35QCSB112014S SO N		P35QD 11/20/2014 P35QDSS112014S SO N		P35QD 11/20/2014 P35QDNS112014S SO N		P35QD 11/20/2014 P35QDSB112014S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.0480		0.02	< -0.00166	U	0.012	0.0241		0.011	0.131
10198-40-0	COBALT-60	TRG	pCi/g	< -0.0043	U	0.0174	< -0.0192	U	0.0186	< 0.00122	U	0.00821	< 0.00558
13966-00-2	POTASSIUM-40	TRG	pCi/g	14.6		0.471	12.7		0.484	11.6		0.353	12.8
13982-63-3	RADIUM-226	CALC	pCi/g	2.535	J	0.103	0.8105		0.085	0.837		0.061	1.0365
14255-04-0	LEAD-210	TRG	pCi/g	1.78		0.390	0.874		0.440	1.13		0.233	1.23
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.54	J	0.103	0.645		0.105	0.598		0.0733	0.729
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.107	UJ	0.707	< 0.00922	UJ	0.410	< -0.277	UJ	0.305	< 0.144
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0738	U	0.0259	< -0.00495	U	0.0226	< 0.0236	U	0.0127	< 0.0468
14733-03-0	BISMUTH-214	TRG	pCi/g	2.31	J	0.0699	0.786		0.0584	0.752		0.0437	0.963
14835-02-0	RADON-219	TRG	pCi/g	< 0.144	U	0.265	< -0.00419	U	0.127	< -0.0351	U	0.135	< -0.0299
14913-49-6	BISMUTH-212	TRG	pCi/g	1.56	J	0.348	0.67		0.283	0.749		0.180	0.627
14913-50-9	THALLIUM-208	TRG	pCi/g	0.499	J	0.0328	0.172		0.0322	0.166		0.0187	0.223
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.862	U	0.216	< 0.287	U	0.165	< 0.121	U	0.0986	< 0.524
15065-10-8	THORIUM-234	TRG	pCi/g	2.96		0.493	0.621		0.525	0.885		0.262	1.24
15067-28-4	LEAD-214	TRG	pCi/g	2.76	J	0.0756	0.835		0.0621	0.922		0.0421	1.11
15117-96-1	URANIUM-235	TRG	pCi/g	0.208		0.129	0.165		0.112	< -0.0282	U	0.0523	< 0.0862
15229-37-5	BISMUTH-211	TRG	pCi/g	< 7.55	U	0.207	< 2.28	U	0.170	< 2.52	U	0.115	< 3.03
15262-20-1	RADIUM-228	CALC	pCi/g	1.54	J	0.103	0.645		0.105	0.598		0.0733	0.729
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.628	UJ	0.117	< 0.241	UJ	0.101	< 0.183	U	0.0566	< 0.385
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.0617	U	0.224	< -0.0597	U	0.0975	< 0.0973	U	0.0867	< -0.0221
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.98	U	0.372	< 0.00402	U	0.265	< -0.0107	U	0.194	< 0.257
15816-77-0	LEAD-211	TRG	pCi/g	< 0.127	U	0.484	< 0.0215	U	0.254	< 0.0993	U	0.168	< -0.0262
18879-28-2	LEAD-212	TRG	pCi/g	1.71	J	0.0483	0.622		0.0376	0.624		0.0257	0.765
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0454		0.0185	< -0.00157	U	0.011	0.0228		0.0108	0.124
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 1.84	U	3.29	< 1.23	U	2.08	< 0.659	U	1.37	< 0.69
7440-14-4	RADIUM	CALC	pCi/g	4.075	J	0.146	1.4555		0.135	1.435		0.095	1.7655
7440-61-1	URANIUM-238	CALC	pCi/g	2.4		3.33	0.9255		2.15	0.772		1.39	0.965

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P35QP 11/20/2014 P35QPSS112014S SO N			P35QP 11/20/2014 P35QPNS112014S SO N				P35QP 11/20/2014 P35QPSB112014S SO N				P37QA 11/20/2014 P37QASS112014S SO N				P37QA 11/20/2014 P37QANS112014S SO N				
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)						
10045-97-3	CESIUM-137	CALC	pCi/g	0.0271		0.023		< 0.00409	U	0.018		< 0.00314	U	0.016		0.162		0.022		0.160		0.021	
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00177	U	0.0155		< -0.00883	U	0.0158		< -0.00685	U	0.0148		< -0.000646	U	0.0114		< 0.00467	U	0.00955	
13966-00-2	POTASSIUM-40	TRG	pCi/g	16.3		0.550		16.7		0.514		16.3		0.532		10.8		0.449		11		0.412	
13982-63-3	RADIUM-226	CALC	pCi/g	3.3		0.127		3.27		0.126		2.805		0.108		0.312		0.056		0.206		0.059	
14255-04-0	LEAD-210	TRG	pCi/g	3.61		0.435		2.48		0.382		2.38		0.314		0.554		0.310		< 0.243	UJ	0.294	
14331-83-0	ACTINIUM-228	TRG	pCi/g	1.94		0.142		1.92		0.145		1.67		0.122		0.27		0.104		0.203		0.0738	
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.165	UJ	0.537		< -0.411	UJ	1.06		< -0.178	UJ	0.438		< -0.561	UJ	0.624		< 0.0429	UJ	0.298	
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0278	U	0.0225		< 0.0994	U	0.0298		< 0.0162	U	0.0166		< 0.0243	U	0.0174		< 0.00675	U	0.0115	
14733-03-0	BISMUTH-214	TRG	pCi/g	3.02		0.0869		3		0.0833		2.5		0.073		0.31		0.0433		0.192		0.0451	
14835-02-0	RADON-219	TRG	pCi/g	< 0.185	U	0.173		< -0.000886	U	0.190		< 0.0901	U	0.211		< 0.00246	U	0.108		< -0.0887	U	0.0888	
14913-49-6	BISMUTH-212	TRG	pCi/g	2.36		0.365		1.87		0.349		1.7		0.360		< 0.578	U	0.237		< 0.226	U	0.218	
14913-50-9	THALLIUM-208	TRG	pCi/g	0.652		0.0365		0.668		0.0401		0.523		0.0304		0.068		0.0209		0.0614		0.0209	
14932-40-2	THORIUM-231	TRG	pCi/g	< 1.53	U	0.218		< 0.981	U	0.215		< 1.37	U	0.172		< 0.123	U	0.176		< 0.136	U	0.136	
15065-10-8	THORIUM-234	TRG	pCi/g	3.67		0.545		3.38		0.540		3.16		0.384		< 0.1	U	0.320		< 0.195	U	0.270	
15067-28-4	LEAD-214	TRG	pCi/g	3.58		0.0932		3.54		0.0948		3.11		0.079		0.314		0.0352		0.22		0.0387	
15117-96-1	URANIUM-235	TRG	pCi/g	0.249		0.126		0.164		0.147		0.25		0.0809		< 0.0224	U	0.0966		< 0.000651	U	0.076	
15229-37-5	BISMUTH-211	TRG	pCi/g	< 9.8	U	0.255		< 9.67	U	0.259		< 8.49	U	0.216		< 0.858	U	0.0963		< 0.601	U	0.106	
15262-20-1	RADIUM-228	CALC	pCi/g	1.94		0.142		1.92		0.145		1.67		0.122		0.27		0.104		0.203		0.0738	
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.786	UJ	0.129		< 0.783	UJ	0.117		< 0.629	UJ	0.103		< 0.0442	UJ	0.0628		< 0.0378	U	0.0818	
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.185	U	0.171		< -0.101	U	0.261		< 0.226	U	0.108		< 0.0382	U	0.086		< 0.00255	U	0.0713	
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.13	U	0.370		< 1.82	U	0.407		< 0.338	U	0.286		< -0.143	U	0.292		< 0.048	U	0.187	
15816-77-0	LEAD-211	TRG	pCi/g	< -0.474	U	0.347		< 0.0132	U	0.361		< 0.168	U	0.382		< -0.0798	U	0.190		< 0.0997	U	0.173	
18879-28-2	LEAD-212	TRG	pCi/g	2.16		0.0538		2.31		0.0546		1.91		0.0423		0.265		0.0305		0.234		0.0245	
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0256		0.0213		< 0.00387	U	0.0174		< 0.00297	U	0.0149		0.153		0.021		0.151		0.020	
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 3.94	U	2.96		< 4.57	U	2.53		< 2.62	U	2.25		< -1.14	U	2.52		< 1.57	U	1.37	
7440-14-4	RADIUM	CALC	pCi/g	5.24		0.191		5.19		0.192		4.475		0.163		0.582		0.118		0.409		0.095	
7440-61-1	URANIUM-238	CALC	pCi/g	3.805		3.01		3.975		2.59		2.89		2.28		< -0.52	U	2.54		< 0.8825	U	1.4	

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P37QA 11/20/2014 P37QASB112014S SO N			P37QB 11/19/2014 P37QBSS111914S SO N			P37QB 11/19/2014 P37QBNS111914D SO FD			P37QB 11/19/2014 P37QBNS111914S SO N			P37QB 11/19/2014 P37QBSB111914S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.00788	U	0.007	0.102	0.023		0.0357	0.012		< 0.0167	U	0.012	< 0.00431	U	0.007
10198-40-0	COBALT-60	TRG	pCi/g	< 0.00336	U	0.00808	< 0.00737	U	0.0139	< 0.0061	U	0.00722	< 0.0032	U	0.012	< -0.00257	U	0.00773
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.9		0.326	13		0.442	11		0.327	10.8		0.416	11.9		0.350
13982-63-3	RADIUM-226	CALC	pCi/g	0.1845		0.041	0.5075		0.087	0.2105		0.047	0.1785		0.055	0.1735		0.041
14255-04-0	LEAD-210	TRG	pCi/g	0.341		0.198	1		0.385	< 0.279	UJ	0.679	0.377		0.267	0.234		0.147
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.187		0.0569	0.251		0.133	0.155		0.0591	0.176		0.072	0.157		0.0629
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.00446	UJ	0.234	< 0.127	UJ	0.500	< -0.271	UJ	0.366	< -0.172	UJ	0.287	< 0.111	UJ	0.233
14596-10-2	AMERICIUM-241	TRG	pCi/g	< -0.00121	U	0.00957	< 0.0111	U	0.0209	< 0.0113	U	0.0209	< 0.00179	U	0.0196	< 0.00402	U	0.00866
14733-03-0	BISMUTH-214	TRG	pCi/g	0.169		0.0313	0.447		0.0631	0.189		0.0354	0.183		0.0425	0.142		0.0297
14835-02-0	RADON-219	TRG	pCi/g	< -0.0744	U	0.111	< -0.0184	U	0.146	< -0.0142	U	0.0715	< 0.0219	U	0.0924	< -0.0218	U	0.0693
14913-49-6	BISMUTH-212	TRG	pCi/g	0.235		0.135	0.652		0.399	< 0.239	U	0.150	< 0.37	U	0.183	< 0.284	U	0.159
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0623		0.0139	0.105		0.0247	0.0621		0.0144	0.0558		0.0209	0.0626		0.0157
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.0309	U	0.0901	< -0.0208	U	0.166	< 0.00873	U	0.0932	< 0.202	U	0.120	< 0.068	U	0.116
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.16	U	0.205	< 0.0267	U	0.506	< 0.21	U	0.325	< 0.136	U	0.288	0.263		0.206
15067-28-4	LEAD-214	TRG	pCi/g	0.2		0.0271	0.568		0.0595	0.232		0.0307	0.174		0.0354	0.205		0.0283
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0217	U	0.0664	< 0.0775	UJ	0.124	< 0.0455	U	0.0731	< 0.0379	U	0.0681	< 0.0376	U	0.039
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.548	U	0.074	< 0.0542	U	0.316	< 0.633	U	0.0838	< 0.475	U	0.0969	< 0.561	U	0.0773
15262-20-1	RADIUM-228	CALC	pCi/g	0.187		0.0569	0.251		0.133	0.155		0.0591	0.176		0.072	0.157		0.0629
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0443	U	0.0445	< 0.17	UJ	0.0994	< 0.122	U	0.0677	< 0.106	U	0.0589	< 0.0675	U	0.0443
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.0812	U	0.0557	< -0.0227	U	0.138	< -0.0301	U	0.0637	< 0.0349	U	0.0701	< 0.0667	U	0.0602
15756-98-6	FRANCIUM-223	TRG	pCi/g	< -0.146	U	0.151	< -0.026	U	0.320	< -0.0118	U	0.171	< 0.0258	U	0.182	< 0.136	U	0.141
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0063	U	0.136	< -0.481	U	0.459	< -0.0108	U	0.125	< -0.136	U	0.176	< -0.0672	U	0.125
18879-28-2	LEAD-212	TRG	pCi/g	0.228		0.0192	0.388		0.0385	0.211		0.0228	0.204		0.0247	0.203		0.0189
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.00745	U	0.00651	0.0966		0.0218	0.0338		0.0118	< 0.0158	U	0.0109	< 0.00408	U	0.00679
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.0382	U	1.63	< -1.2	U	3.26	< 1.95	U	1.26	< 0.632	U	1.89	< -0.392	U	1.20
7440-14-4	RADIUM	CALC	pCi/g	0.3715		0.07	0.7585		0.159	0.3655		0.075	0.3545		0.091	0.3305		0.075
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.0991	U	1.64	< -0.58665	U	3.3	< 1.08	U	1.3	< 0.384	U	1.91	-0.0645		1.22

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P37QC 11/19/2014 P37QCSS111914S SO N			P37QC 11/19/2014 P37QCNS111914S SO N			P37QC 11/19/2014 P37QCSB111914S SO N			P37QD 11/19/2014 P37QDSS111914S SO N			P37QD 11/19/2014 P37QDNS111914S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	0.172	0.019	< -0.000329	U	0.01	< -0.00000641	U	0.007	0.0883	0.023	0.0333	0.021			
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00653	U	0.0113	< 0.0102	U	0.0106	< -0.00215	U	0.00803	< -0.00207	U	0.0157	< -0.0249	U	0.0218
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.7	0.351	11	0.420	11.4	0.356	12	0.532	11	0.512					
13982-63-3	RADIUM-226	CALC	pCi/g	0.4065	0.054	0.2105	0.045	0.192	0.043	0.702	0.114	0.4315	0.084					
14255-04-0	LEAD-210	TRG	pCi/g	< 0.238	UJ	0.758	0.234	0.160	0.192	0.188	1.14	0.496	0.783	0.461				
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.281	0.074	< 0.23	U	0.0614	0.229	0.0556	0.458	0.106	0.244	0.0895				
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.108	UJ	0.307	< 0.0529	UJ	0.252	< -0.0633	UJ	0.228	< 0.176	UJ	0.524	< -0.184	UJ	0.440
14596-10-2	AMERICIUM-241	TRG	pCi/g	< -0.00789	U	0.0224	< -0.00598	U	0.0104	< 0.00185	U	0.0086	< 0.00338	U	0.0285	< 0.0238	U	0.0237
14733-03-0	BISMUTH-214	TRG	pCi/g	0.379	0.0356	0.219	0.030	0.176	0.0299	0.633	0.0897	0.408	0.058					
14835-02-0	RADON-219	TRG	pCi/g	< -0.0582	U	0.093	< 0.0399	U	0.0829	< -0.0156	U	0.0695	< 0.13	U	0.160	< 0.00893	U	0.127
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.476	U	0.189	< 0.173	U	0.216	0.28	0.138	< 0.382	U	0.357	< 0.225	U	0.299	
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0803	0.0194	0.0708	0.0151	0.0649	0.0143	0.13	0.0347	0.0817	0.028					
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.15	U	0.155	< 0.114	U	0.0641	< 0.0936	U	0.0888	< 0.275	U	0.154	< 0.181	U	0.165
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.353	U	0.423	0.33	0.168	0.263	0.231	1.15	0.562	< 0.158	U	0.548			
15067-28-4	LEAD-214	TRG	pCi/g	0.434	0.0405	0.202	0.0335	0.208	0.0315	0.771	0.0705	0.455	0.0613					
15117-96-1	URANIUM-235	TRG	pCi/g	< -0.00728	U	0.0655	< 0.00729	U	0.0286	< -0.0161	U	0.0412	< 0.0723	UJ	0.123	< 0.0561	U	0.107
15229-37-5	BISMUTH-211	TRG	pCi/g	< 1.19	U	0.111	< 0.553	U	0.0916	< 0.567	U	0.0861	< 2.11	U	0.193	< 1.24	U	0.168
15262-20-1	RADIUM-228	CALC	pCi/g	0.281	0.074	< 0.23	U	0.0614	0.229	0.0556	0.458	0.106	0.244	0.0895				
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0948	UJ	0.0653	< 0.0668	U	0.0493	< 0.0653	U	0.0524	< 0.187	UJ	0.107	< 0.0536	UJ	0.0596
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.00909	U	0.0728	< -0.038	U	0.0579	< 0.0433	U	0.0538	< -0.0106	U	0.124	< -0.0329	U	0.0999
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.165	U	0.193	< 0.0888	U	0.152	< 0.0788	U	0.141	< 0.106	U	0.324	< 0.0712	U	0.264
15816-77-0	LEAD-211	TRG	pCi/g	< 0.136	U	0.164	< -0.0859	U	0.150	< -0.0261	U	0.141	< -0.191	U	0.324	< -0.0448	U	0.225
18879-28-2	LEAD-212	TRG	pCi/g	0.287	0.0248	0.228	0.020	0.221	0.0186	0.451	0.039	0.313	0.0345					
378253-40-8	BARIUM-137m	TRG	pCi/g	0.163	0.0183	< -0.000311	U	0.00951	< -0.00000606	U	0.00661	0.0835	0.0216	0.0315	0.0203			
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< -1.67	U	1.85	< -0.889	U	1.17	< -0.0274	U	1.18	< 4.12	U	2.91	< 0.629	U	1.54
7440-14-4	RADIUM	CALC	pCi/g	0.6875	0.092	0.4405	0.076	0.421	0.071	1.16	0.156	0.6755	0.123					
7440-61-1	URANIUM-238	CALC	pCi/g	< -0.6585	U	1.9	-0.2795	1.18	0.1178	1.2	2.635	2.96	< 0.3935	U	1.63			

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Location ID Sample Date Sample ID Sample Matrix Sample Type				P37QD 11/19/2014 P37QDSB111914S SO N		P37QG 11/19/2014 P37QGSS111914S SO N		P37QG 11/19/2014 P37QGNS111914S SO N		P37QG 11/19/2014 P37QGSB111914S SO N		P38QA 11/20/2014 P38QASS112014S SO N						
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)					
10045-97-3	CESIUM-137	CALC	pCi/g	0.0208	0.014	0.0436	0.017	0.0221	0.012	< 0.0145	U	0.011	0.0446	0.017				
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00287	U	0.00989	< 0.00939	U	0.0169	< -0.0025	U	0.00979	< -0.00375	U	0.0126	< -0.000247	U	0.0128
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.3	0.403	11.3	0.424	10.7	0.423	11.8	0.445	11.1	0.509					
13982-63-3	RADIUM-226	CALC	pCi/g	0.207	0.061	0.3685	0.061	0.199	0.063	0.2015	0.07	0.6895	0.088					
14255-04-0	LEAD-210	TRG	pCi/g	0.31	0.209	0.495	0.297	< 0.143	UJ	0.227	0.488	0.400	1.18	0.259				
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.183	0.0855	0.324	0.0822	0.162	0.077	0.237	0.114	0.344	0.107					
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< 0.0761	UJ	0.305	< -0.0129	UJ	0.366	< 0.181	UJ	0.307	< 0.571	UJ	0.452	< 0.0551	UJ	0.463
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00511	U	0.0116	< 0.0261	U	0.0173	< 0.0107	U	0.012	< 0.0194	U	0.0257	< 0.0122	U	0.0156
14733-03-0	BISMUTH-214	TRG	pCi/g	0.173	0.0412	0.345	0.040	0.174	0.0437	0.163	0.0532	0.632	0.0637					
14835-02-0	RADON-219	TRG	pCi/g	< -0.112	U	0.144	< 0.0683	U	0.105	< 0.0397	U	0.0915	< 0.169	U	0.122	< 0.152	U	0.128
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.0271	U	0.227	< 0.365	U	0.246	< 0.222	U	0.230	< 0.21	U	0.355	0.512	0.306	
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0516	J	0.023	0.0916	0.0258	0.0502	0.0222	0.0605	0.0355	0.101	0.0253				
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.121	U	0.129	< 0.226	U	0.138	< -0.0563	U	0.0951	< 0.135	U	0.183	< 0.205	U	0.146
15065-10-8	THORIUM-234	TRG	pCi/g	< 0.063	UJ	0.282	< 0.205	U	0.329	< 0.0233	U	0.293	< 0.138	U	0.484	0.735	0.295	
15067-28-4	LEAD-214	TRG	pCi/g	0.241	0.0454	0.392	0.0456	0.224	0.045	0.24	0.0455	0.747	0.0607					
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.00856	U	0.0798	< -0.0492	U	0.0831	< 0.00304	U	0.0766	< -0.0234	U	0.0852	< 0.0121	U	0.0894
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.66	U	0.124	< 1.07	U	0.125	< 0.611	U	0.123	< 0.656	U	0.124	< 2.04	U	0.166
15262-20-1	RADIUM-228	CALC	pCi/g	0.183	0.0855	0.324	0.0822	0.162	0.077	0.237	0.114	0.344	0.107					
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.0968	UJ	0.0638	< 0.129	UJ	0.0726	< 0.124	UJ	0.0703	< 0.081	UJ	0.0726	< 0.242	UJ	0.0875
15623-47-9	THORIUM-227	TRG	pCi/g	< -0.0318	U	0.0713	< 0.0514	U	0.0838	< -0.0313	U	0.0727	< -0.00143	U	0.105	< -0.0208	U	0.0953
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.061	U	0.202	< 0.109	U	0.236	< -0.352	U	0.255	< -0.0945	U	0.270	< -0.142	U	0.326
15816-77-0	LEAD-211	TRG	pCi/g	< -0.0673	U	0.164	< 0.134	U	0.215	< -0.133	U	0.227	< -0.166	U	0.218	< -0.369	U	0.274
18879-28-2	LEAD-212	TRG	pCi/g	0.241	0.0284	0.323	0.0311	0.228	0.0269	0.246	0.0371	0.417	0.0329					
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0197	0.0133	0.0412	0.0163	0.0209	0.0116	< 0.0137	U	0.0108	0.0422	0.016				
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.675	U	1.18	4.63	2.12	< 0.539	U	1.87	< 0.39	U	2.97	< 2.45	U	2.48	
7440-14-4	RADIUM	CALC	pCi/g	0.39	0.105	0.6925	0.102	0.361	0.099	0.4385	0.134	1.0335	0.139					
7440-61-1	URANIUM-238	CALC	pCi/g	< 0.369	U	1.21	< 2.4175	U	2.15	< 0.28115	U	1.89	< 0.264	U	3.01	1.5925	2.5	

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P38QA 11/20/2014 P38QANS112014S SO N			P38QA 11/20/2014 P38QASB112014S SO N			P38QB 11/20/2014 P38QBSS112014S SO N			P38QB 11/20/2014 P38QBNS112014D SO FD			P38QB 11/20/2014 P38QBNS112014S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.0156	U	0.021	0.0444		0.016	< 0.0181	U	0.014	< 0.0127	U	0.014	< 0.0182	U	0.009
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00705	U	0.0129	< -0.00421	U	0.0125	< 0.00845	U	0.0139	< -0.00377	U	0.0115	< 0.0104	U	0.00975
13966-00-2	POTASSIUM-40	TRG	pCi/g	11.4		0.403	12.3		0.472	12.1		0.472	13		0.412	13.1		0.363
13982-63-3	RADIUM-226	CALC	pCi/g	1.235		0.087	1.595		0.098	0.9365		0.075	1.225		0.07	1.0115		0.065
14255-04-0	LEAD-210	TRG	pCi/g	1.25		0.301	1.6		0.293	1.3		0.318	< 0.738	UJ	0.798	0.797		0.207
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.66		0.0945	0.808		0.106	0.583		0.0903	0.546		0.0777	0.5		0.0694
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.0262	UJ	0.580	< 0.149	UJ	0.423	< -0.0862	UJ	0.681	< 0.0749	UJ	0.374	< 0.271	UJ	0.329
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0384	U	0.0211	< 0.00706	U	0.0179	< 0.026	U	0.019	< 0.0382	U	0.0274	< 0.0187	U	0.0135
14733-03-0	BISMUTH-214	TRG	pCi/g	1.12		0.0579	1.45		0.0679	0.905		0.0526	1.1		0.0476	0.913		0.0462
14835-02-0	RADON-219	TRG	pCi/g	< 0.1	U	0.136	< 0.0523	U	0.130	< 0.0249	U	0.129	< 0.0591	U	0.0999	< -0.05	U	0.134
14913-49-6	BISMUTH-212	TRG	pCi/g	0.51		0.255	0.785		0.339	< 0.593	U	0.220	0.675		0.180	0.519		0.199
14913-50-9	THALLIUM-208	TRG	pCi/g	0.19		0.0246	0.224		0.0294	0.162		0.0261	0.197		0.0219	0.151		0.0174
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.359	U	0.131	< 0.51	U	0.163	< 0.353	U	0.189	< 0.304	U	0.146	< 0.37	U	0.121
15065-10-8	THORIUM-234	TRG	pCi/g	1.76		0.378	1.61		0.427	0.938		0.401	1.26		0.467	1.05		0.264
15067-28-4	LEAD-214	TRG	pCi/g	1.35		0.0651	1.74		0.0712	0.968		0.0532	1.35		0.0507	1.11		0.0451
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0863	U	0.113	0.123		0.119	< 0.068	U	0.0945	0.128		0.0866	< 0.0491	U	0.0833
15229-37-5	BISMUTH-211	TRG	pCi/g	< 3.69	U	0.178	< 4.76	U	0.195	< 2.65	U	0.145	< 3.68	U	0.139	< 3.02	U	0.123
15262-20-1	RADIUM-228	CALC	pCi/g	0.66		0.0945	0.808		0.106	0.583		0.0903	0.546		0.0777	0.5		0.0694
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.301	UJ	0.0924	< 0.372	UJ	0.0938	< 0.138	UJ	0.0874	< 0.262	UJ	0.0798	< 0.267	UJ	0.057
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0763	U	0.101	< -0.0274	U	0.114	< 0.0957	U	0.120	< 0.00986	U	0.0862	< 0.124	U	0.130
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.654	U	0.281	< 0.22	U	0.294	< 0.343	U	0.332	< 0.212	U	0.237	< 0.16	U	0.199
15816-77-0	LEAD-211	TRG	pCi/g	< -0.273	U	0.263	< -0.111	U	0.266	< 0.127	U	0.232	< 0.0223	U	0.202	< -0.144	U	0.185
18879-28-2	LEAD-212	TRG	pCi/g	0.673		0.0358	0.793		0.0391	0.512		0.0344	0.672		0.0298	0.605		0.0255
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.0148	U	0.0195	0.042		0.0149	< 0.0171	U	0.0134	< 0.012	U	0.013	< 0.0172	U	0.00839
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	2.98		2.71	< 1.05	U	2.75	5.4		2.57	< 1.1	U	1.88	< 0.355	U	1.49
7440-14-4	RADIUM	CALC	pCi/g	1.895		0.129	2.403		0.145	1.5195		0.117	1.771		0.104	1.5115		0.095
7440-61-1	URANIUM-238	CALC	pCi/g	2.37		2.74	1.33		2.78	3.169		2.6	1.18		1.94	0.7025		1.51

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P38QB 11/20/2014 P38QBSB112014S SO N			P38QC 11/20/2014 P38QCSS112014S SO N			P38QC 11/20/2014 P38QCNS112014S SO N			P38QC 11/20/2014 P38QCSB112014S SO N			P38QD 11/20/2014 P38QDSS112014S SO N		
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)		Result	Unc (+/-)	
10045-97-3	CESIUM-137	CALC	pCi/g	< 0.0155	U	0.02	0.0204		0.017	< 0.00511	U	0.011	< 0.0156	U	0.015	0.0248		0.017
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00442	U	0.014	< 0.000704	U	0.0117	< -0.000345	U	0.00823	< 0.00957	U	0.0139	< 0.00435	U	0.00974
13966-00-2	POTASSIUM-40	TRG	pCi/g	13.4		0.495	11.6		0.462	12.4		0.373	12		0.468	12.4		0.409
13982-63-3	RADIUM-226	CALC	pCi/g	0.852		0.093	0.2535		0.062	0.2155		0.048	0.2305		0.063	0.2355		0.053
14255-04-0	LEAD-210	TRG	pCi/g	0.938		0.412	1.09		0.270	0.384		0.175	0.248		0.169	< 0.148	UJ	0.730
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.453		0.115	0.134		0.0841	0.297		0.0512	0.233		0.0907	0.22		0.0583
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.376	UJ	0.597	< -0.195	UJ	0.317	< 0.0676	UJ	0.280	< -0.121	UJ	0.302	< -0.127	UJ	0.325
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.0182	U	0.0218	< 0.0035	U	0.0131	< 0.00692	U	0.0106	< 0.00204	U	0.0101	< 0.0251	U	0.0223
14733-03-0	BISMUTH-214	TRG	pCi/g	0.778		0.0668	0.261		0.0389	0.182		0.0347	0.199		0.0484	0.211		0.0395
14835-02-0	RADON-219	TRG	pCi/g	< 0.0585	U	0.147	< 0.00415	U	0.102	< -0.0523	U	0.0744	< 0.039	U	0.0965	< -0.00649	U	0.0897
14913-49-6	BISMUTH-212	TRG	pCi/g	0.516		0.420	0.405		0.191	< 0.412	U	0.179	< 0.292	U	0.204	< 0.305	U	0.162
14913-50-9	THALLIUM-208	TRG	pCi/g	0.15		0.0324	0.0693		0.0213	0.0893		0.017	0.0823		0.0186	0.0734		0.0166
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.462	U	0.176	< 0.073	U	0.0956	< 0.0998	U	0.105	< 0.0988	U	0.0899	< 0.253	U	0.114
15065-10-8	THORIUM-234	TRG	pCi/g	0.775		0.537	< 0.28	U	0.293	0.329		0.250	0.262		0.147	< 0.367	U	0.375
15067-28-4	LEAD-214	TRG	pCi/g	0.926		0.0643	0.246		0.0489	0.249		0.0336	0.262		0.0398	0.26		0.0346
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0595	UJ	0.123	< 0.014	U	0.0715	< 0.0156	U	0.0475	< 0.0253	U	0.0465	< 0.0111	U	0.0871
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.0186	U	0.319	< 0.673	U	0.134	< 0.68	U	0.0919	< 0.717	U	0.109	< 0.712	U	0.0946
15262-20-1	RADIUM-228	CALC	pCi/g	0.453		0.115	0.134		0.0841	0.297		0.0512	0.233		0.0907	0.22		0.0583
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.213	UJ	0.101	< 0.0799	UJ	0.0601	< 0.0994	U	0.0481	< 0.0726	U	0.0582	< 0.086	UJ	0.0623
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.0125	U	0.123	< 0.0145	U	0.0811	< -0.0533	U	0.0632	< -0.0281	U	0.0657	< 0.0368	U	0.0774
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.153	U	0.326	< -0.0213	U	0.209	< 0.00744	U	0.168	< 0.0537	U	0.179	< 0.0487	U	0.208
15816-77-0	LEAD-211	TRG	pCi/g	< 0.0496	U	0.297	< -0.0596	U	0.206	< -0.134	U	0.130	< -0.0238	U	0.169	< -0.0872	U	0.160
18879-28-2	LEAD-212	TRG	pCi/g	0.506		0.0422	0.277		0.0307	0.307		0.0223	0.253		0.0232	0.279		0.0248
378253-40-8	BARIUM-137m	TRG	pCi/g	< 0.0147	U	0.0187	0.0193		0.0162	< 0.00483	U	0.0104	< 0.0148	U	0.0139	0.0235		0.0163
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< 0.226	U	3.37	< 1.22	U	2.12	< 0.017	U	1.58	< 0.648	U	1.35	< 0.919	U	1.74
7440-14-4	RADIUM	CALC	pCi/g	1.305		0.148	0.3875		0.105	0.5125		0.07	0.4635		0.11	0.4555		0.078
7440-61-1	URANIUM-238	CALC	pCi/g	0.5005		3.41	< 0.75	U	2.14	0.173		1.6	0.455		1.36	< 0.643	U	1.78

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

		Location ID Sample Date Sample ID Sample Matrix Sample Type		P38QD 11/20/2014 P38QDNS112014S SO N		P38QD 11/20/2014 P38QDSB112014S SO N		P38QG 11/20/2014 P38QGSS112014S SO N		P38QG 11/20/2014 P38QGNS112014S SO N		P38QG 11/20/2014 P38QGSB112014S SO N	
CAS Number	Chemical Name	Result Type	Unit	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)	Result	Unc (+/-)
10045-97-3	CESIUM-137	CALC	pCi/g	0.0277	0.013	< 0.00444	U 0.015	0.0242	0.018	< 0.0281	U 0.023	< 0.0119	U 0.013
10198-40-0	COBALT-60	TRG	pCi/g	< -0.00924	U 0.00914	< 0.00065	U 0.0076	< -0.0108	U 0.023	< -0.00502	U 0.0145	< -0.00102	U 0.0117
13966-00-2	POTASSIUM-40	TRG	pCi/g	12.4	0.407	11.7	0.351	12.4	0.546	14	0.496	12.1	0.467
13982-63-3	RADIUM-226	CALC	pCi/g	0.261	0.053	0.213	0.046	0.241	0.082	0.216	0.082	0.216	0.067
14255-04-0	LEAD-210	TRG	pCi/g	0.35	0.197	< 0.398	UJ 1.05	0.655	0.451	< 0.198	UJ 0.387	0.314	0.225
14331-83-0	ACTINIUM-228	TRG	pCi/g	0.239	0.0639	0.218	0.0624	0.234	0.101	0.234	0.128	0.189	0.0719
14331-85-2	PROTACTINIUM-231	TRG	pCi/g	< -0.158	UJ 0.272	< 0.27	UJ 0.268	< 0.195	UJ 0.464	< -0.631	UJ 0.514	< 0.222	UJ 0.334
14596-10-2	AMERICIUM-241	TRG	pCi/g	< 0.00705	U 0.0101	< 0.0214	U 0.024	< 0.0231	U 0.0262	< 0.00824	U 0.0207	< 0.00535	U 0.013
14733-03-0	BISMUTH-214	TRG	pCi/g	0.219	0.0371	0.184	0.0336	0.239	0.059	0.175	0.0643	0.175	0.0479
14835-02-0	RADON-219	TRG	pCi/g	< 0.0257	U 0.0857	< -0.0281	U 0.0781	< 0.034	U 0.139	< -0.104	U 0.144	< 0.0394	U 0.102
14913-49-6	BISMUTH-212	TRG	pCi/g	< 0.253	U 0.163	0.298	0.206	< 0.581	U 0.395	< 0.302	U 0.275	< -0.21	U 0.261
14913-50-9	THALLIUM-208	TRG	pCi/g	0.0722	0.0163	0.0534	0.016	0.0798	0.0271	0.0697	0.032	0.062	0.0246
14932-40-2	THORIUM-231	TRG	pCi/g	< 0.115	U 0.0985	< 0.11	U 0.126	< 0.127	U 0.167	< 0.155	U 0.230	< 0.0115	U 0.124
15065-10-8	THORIUM-234	TRG	pCi/g	0.356	0.219	< 0.292	U 0.426	< 0.351	U 0.543	< 0.466	U 0.461	< 0.148	U 0.271
15067-28-4	LEAD-214	TRG	pCi/g	0.303	0.0383	0.242	0.0313	0.243	0.0575	0.257	0.0508	0.257	0.0468
15117-96-1	URANIUM-235	TRG	pCi/g	< 0.0348	U 0.0552	< -0.023	U 0.0569	< 0.0722	U 0.102	< 0.00577	UJ 0.149	< 0.0201	U 0.0903
15229-37-5	BISMUTH-211	TRG	pCi/g	< 0.829	U 0.105	< 0.661	U 0.0855	< 0.664	U 0.157	< 0.701	U 0.139	< 0.703	U 0.128
15262-20-1	RADIUM-228	CALC	pCi/g	0.239	0.0639	0.218	0.0624	0.234	0.101	0.234	0.128	0.189	0.0719
15623-45-7	RADIUM-223	TRG	pCi/g	< 0.106	U 0.0523	< 0.0891	U 0.0563	< 0.00213	UJ 0.103	< 0.0901	UJ 0.0881	< 0.0395	UJ 0.0418
15623-47-9	THORIUM-227	TRG	pCi/g	< 0.00374	U 0.0637	< -0.00892	U 0.0624	< -0.00222	U 0.106	< -0.0363	U 0.140	< 0.0327	U 0.0801
15756-98-6	FRANCIUM-223	TRG	pCi/g	< 0.212	U 0.164	< 0.0568	U 0.163	< 0.0267	U 0.281	< -0.24	U 0.314	< -0.00492	U 0.222
15816-77-0	LEAD-211	TRG	pCi/g	< -0.0549	U 0.169	< 0.0377	U 0.156	< 0.056	U 0.244	< -0.0178	U 0.253	< 0.0314	U 0.204
18879-28-2	LEAD-212	TRG	pCi/g	0.278	0.0207	0.238	0.0216	0.265	0.0378	0.305	0.0375	0.217	0.0306
378253-40-8	BARIUM-137m	TRG	pCi/g	0.0262	0.0127	< 0.0042	U 0.0144	0.0229	0.0175	< 0.0266	U 0.0217	< 0.0113	U 0.0122
378783-76-7	PROTACTINIUM-234m	TRG	pCi/g	< -0.886	U 1.41	< -1.12	U 1.58	< 2.62	U 2.68	< 0.268	U 3.22	< 0.3	U 2.43
7440-14-4	RADIUM	CALC	pCi/g	0.5	0.083	0.431	0.077	0.475	0.13	0.45	0.152	0.405	0.098
7440-61-1	URANIUM-238	CALC	pCi/g	-0.265	1.43	< -0.414	U 1.64	< 1.4855	U 2.73	< 0.367	U 3.25	< 0.224	U 2.45

See last page for notes.

Table 1
Validated Radiological Results
Supplemental Soil Characterization
Pines Area of Investigation

Notes:

CALC - Result calculated per USEPA provided spreadsheet

CAS - Chemical Abstract Service

FD - Sample type: Field Duplicate

ID - Identifier

J - The result is an estimated quantity; the associated numerical value is the approximate concentration of the analyte in the sample

N - Sample type: Normal

pCi/g - picoCuries per gram

SO - Sample matrix: Soil

TRG - Result reported by laboratory

U - The analyte was analyzed for, but was not detected above the sample reporting limit

Unc (+/-) - Uncertainty reported by laboratory in radiological counts