Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C002-SB001																								C002-SB002		
	RST 3 Sample No.	C002-SB001-0012-01			CB002-SB001-1224-01			CB002-SB001-2436-01			CB002-SB001-3648-01			C002-SB001-4860-01			C002-SB001-6072-01			C002-SB001-7284-01			C002-SB001-8496-01			C002-SB002-0012-01		
	Sample Depth (inches)	0-12			12-24			24-36			36-48			48-60			60-72			72-84			84-96			0-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	0.41		0.14	0.74	J	1.28	ND			1.55	J	1.69	0.66		0.13	0.63		0.1	0.93		0.16	0.92		0.13	0.42		0.12
Bismuth-214 (Bi-214)	1,310,000	0.3	J	0.04	NA			NA			NA			0.67	J	0.08	0.77	J	0.09	0.53	J	0.06	0.48	J	0.05	0.36	J	0.04
Cesium-137 (Cs-137)	11.20	ND			NA			NA			NA			ND			ND			ND			ND			0.01		0.01
Potassium-40 (K-40)	26.7	7.46	J	0.85	11.61		2.18	10.16		6.09	11.21		3.01	11.3	J	1.26	12	J	1.32	11.4	J	1.27	12	J	1.33	9.98	J	1.12
Lead-210 (Pb-210)	418	0.43		0.15	7.9	J	13	120.52		77.6	5.78	J	3	0.76		0.2	0.85		0.18	0.29		0.1	0.28		0.09	0.48		0.12
Lead-212 (Pb-212)	657,000	0.36		0.04	0.69		0.16	1.13		0.564	1.1		0.28	0.55		0.06	0.52		0.06	0.79		0.09	0.81		0.09	0.44		0.05
Lead-214 (Pb-214)	7,330,000	0.36	J	0.04	ND			ND			ND			0.75	J	0.09	0.88	J	0.1	0.6	J	0.07	0.56	J	0.07	0.42	J	0.05
Radium-226* (Ra-226)	2.52	0.63		0.17	5.62		0.8	89.39		11.93	2.21		0.39	1.08		0.2	1.16		0.18	1.2	J	0.21	1.19		0.18	0.73		0.18
Radium-228 (Ra-228)	16.2	0.34		0.05	0.92		0.28	ND			0.95		0.5	0.55		0.07	0.53		0.06	0.8		0.09	0.81		0.09	0.46		0.06
Thorium-227 (Th-227)	NS	0.08		0.07	NA			NA			NA			0.07		0.04	0.07		0.04	0.12		0.06	0.1		0.05	0.12		0.06
Thorium-228 (Th-228)	13,300	0.6		0.16	0.65		0.33	1.17		0.5	1.34		0.58	0.5		0.09	0.63		0.11	0.75		0.12	0.74		0.12	0.54		0.11
Thorium-230 (Th-230)	2,060	0.45		0.13	1.89		0.58	10.3		2.09	0.6		0.34	0.48		0.1	0.5		0.1	0.62		0.11	0.54		0.1	0.55		0.12
Thorium-232 Th-232)	5	0.45		0.13	0.81		0.35	1.29		0.51	1.1		0.47	0.52		0.1	0.59		0.11	0.71		0.12	0.71		0.11	0.42		0.09
Thorium-234 Th-234)	47,500	0.28		0.14	0		0.99	ND			ND			0.58		0.15	0.43		0.14	0.58		0.14	0.78		0.13	0.27		0.13
Thallium-208 (Tl-208)	3,400,000	0.1	J	0.01	0.29		0.1	ND			0.54		0.16	0.18	J	0.02	0.16	J	0.02	0.26	J	0.03	0.24	J	0.03	0.14	J	0.02
Uranium-234 (U-234)	3,260	0.53		0.1	NA			NA			NA			0.5		0.09	0.31		0.07	0.64		0.11	0.89		0.14	0.38		0.08
Uranium-235 (U-235)	37.7	0.02	J	0.02	0.28		0.14	6.56	R	1.29	0.29	R	0.14	0.02	J	0.02	ND			0.03		0.03	0.05		0.03	ND		
Uranium-238 (U-238)	158	0.55	J	0.1	0.59		0.2	0.92		0.31	0.6		0.26	0.46	J	0.09	0.38	J	0.08	0.64	J	0.11	0.92	J	0.14	0.4	J	0.08
Uranium-233/234 (U-233/234)	3,260	NA			0.52		0.19	0.74		0.27	0.37		0.19	NA			NA			NA			NA			NA		
Uranium-235/236 (U-235/236)	37.7	NA			0.07		0.07	0.08	J	0.1	0.08	J	0.11	NA			NA			NA			NA			NA		

	Location No.	C002-SB002																								C002-SB003		
	RST 3 Sample No.	C002-SB002-1224-01			C002-SB002-2436-01			C002-SB002-3648-01			CB002-SB002-4860-01			CB002-SB002-6072-01			C002-SB002-7284-01			C002-SB002-7284-02			C002-SB002-8496-01			C002-SB003-0012-01		
	Sample Depth (inches)	12-24			24-36			36-48			48-60			60-72			72-84			72-84			84-96			0-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	1.32		0.27	0.79		0.16	0.97		0.16	1.84	J	2.64	2.36		2.21	1.09		0.19	0.97		0.15	0.93		0.15	0.78		0.17
Bismuth-214 (Bi-214)	1,310,000	1.29	J	0.15	1.64	J	0.18	4.5	J	0.49	NA			NA			0.77	J	0.09	0.71	J	0.08	0.51	J	0.06	0.97	J	0.11
Cesium-137 (Cs-137)	11.20	0.05		0.01	0.04		0.01	0.07		0.01	NA			NA			ND			ND			ND			0.16		0.02
Potassium-40 (K-40)	26.7	15.5	J	1.73	13.2	J	1.46	12.2	J	1.35	8.46		3.88	12.57		3.84	14.1	J	1.56	13.4	J	1.48	11.9	J	1.32	11	J	1.23
Lead-210 (Pb-210)	418	0.97		0.17	2.11		0.31	8.99		1.1	14.25	J	5.31	3.56	J	5.41	0.84		0.18	0.77		0.22	0.51		0.17	1.34		0.19
Lead-212 (Pb-212)	657,000	1.31		0.15	0.73		0.08	0.9		0.1	1.34		0.36	1.5		0.35	1.02		0.11	0.94		0.11	0.8		0.09	0.76		0.09
Lead-214 (Pb-214)	7,330,000	1.47	J	0.16	1.89	J	0.21	5.07	J	0.56	ND			ND			0.88	J	0.1	0.83	J	0.09	0.57	J	0.07	1.11	J	0.13
Radium-226* (Ra-226)	2.52	2.23		0.34	2.57		0.34	5.84		0.7	12.83		1.83	8.71		1.3	1.67		0.25	1.5		0.23	0.94		0.18	1.71		0.29
Radium-228 (Ra-228)	16.2	1.32		0.15	0.73		0.09	0.91		0.11	1.69		0.56	1.79		0.58	0.99		0.12	0.98		0.11	0.79		0.09	0.7		0.09
Thorium-227 (Th-227)	NS	0.12		0.05	0.11		0.05	0.14		0.06	NA			NA			0.08		0.05	0.15		0.06	0.1		0.05	0.12		0.05
Thorium-228 (Th-228)	13,300	0.99		0.14	0.56		0.1	0.89		0.14	1.06	J	0.56	1.5	J	0.69	1.11	J	0.17	1.09	J	0.16	0.76	J	0.12	3.73	J	0.42
Thorium-230 (Th-230)	2,060	1.08		0.15	0.93		0.15	1.57		0.21	2.02	J	0.75	0.85	J	0.47	0.68		0.12	0.64		0.12	0.61		0.11	1.08		0.16
Thorium-232 Th-232)	5	0.85		0.13	0.62		0.11	0.76		0.12	0.8	J	0.45	1.36	J	0.6	1.01	J	0.16	1.12	J	0.16	0.74	J	0.12	3.83	J	0.43
Thorium-234 Th-234)	47,500	0.68		0.18	0.72		0.18	0.61		0.27	0.21		3.94	ND			0.81		0.18	0.87		0.21	0.52		0.17	0.68		0.17
Thallium-208 (Tl-208)	3,400,000	0.41	J	0.05	0.22	J	0.03	0.28	J	0.03	0.64		0.24	0.63		0.22	0.32	J	0.04	0.3	J	0.03	0.26	J	0.03	0.22	J	0.03
Uranium-234 (U-234)	3,260	0.74		0.12	0.53		0.1	0.57		0.1	NA			NA			0.71	J	0.15	0.78	J	0.14	0.62	J	0.14	0.79	J	0.14
Uranium-235 (U-235)	37.7	ND			0.04		0.03	0.03		0.03	0.9	R	0.3	0.67	R	0.28	0.04		0.04	0.03	J	0.03	ND			0.05		0.04
Uranium-238 (U-238)	158	0.71	J	0.12	0.64	J	0.11	0.64	J	0.11	0.91		0.33	0.88		0.21	0.64		0.14	0.73		0.14	0.62		0.14	0.8		0.14
Uranium-233/234 (U-233/234)	3,260	NA			NA			NA			1.02		0.36	1.03		0.24	NA			NA			NA			NA		
Uranium-235/236 (U-235/236)	37.7	NA			NA			NA			0.12	J	0.13	0.04	J	0.05	NA			NA			NA			NA		

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected; J - An estimated result. .

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NARELL).

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C002-SB003																					C003-SB001					
	RST 3 Sample No.	C002-SB003-1224-01			CB002-SB003-2436-01			CB002-SB003-3648-01			C002-SB003-4860-01			C002-SB003-6072-01			C002-SB003-7284-01			C002-SB003-8496-01			C003-SB001-0012-01			C003-SB001-1224-01		
	Sample Depth (inches)	12-24			24-36			36-48			48-60			60-72			72-84			84-96			0-12			12-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/5/2016			4/5/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	0.96		0.14	1.08		0.73	3.64	J	4.26	0.85		0.18	1.12		0.17	0.94		0.15	1.13		0.19	1.2		0.24	ND		
Bismuth-214 (Bi-214)	1,310,000	1.3	J	0.14	NA			NA			1.78	J	0.2	0.59	J	0.07	0.56	J	0.06	0.71		0.08	0.53		0.07	NA		
Cesium-137 (Cs-137)	11.20	0.09	J	0.01	NA			NA			ND			ND			ND			ND			ND			NA		
Potassium-40 (K-40)	26.7	12.9		1.42	13.03		2.49	19.62		4.97	10.8	J	1.21	9.5	J	1.06	14.3	J	1.58	15		1.66	13.6		1.53	12.82		2.59
Lead-210 (Pb-210)	418	1.27		0.24	ND			51.32		13.99	1.84		0.23	0.55		0.13	0.32		0.1	0.48		0.11	0.59		0.22	0		4.36
Lead-212 (Pb-212)	657,000	0.85		0.1	0.64		0.14	0.91		0.41	0.78		0.09	1.04		0.12	0.85		0.09	1.01		0.11	1.18		0.13	0.86		0.2
Lead-214 (Pb-214)	7,330,000	1.46	J	0.16	ND			ND			2.03	J	0.22	0.74	J	0.08	0.6	J	0.07	0.82		0.09	0.65		0.08	ND		
Radium-226* (Ra-226)	2.52	2.02		0.28	0.95		0.21	60.5		8.11	2.69		0.36	1.47		0.24	1.37		0.21	1.5		0.23	1.1		0.27	1.29		0.24
Radium-228 (Ra-228)	16.2	0.82		0.09	0.69	J	0.26	1.29	J	1.37	0.79		0.1	0.99		0.11	0.93		0.11	1.02		0.12	1.16		0.14	0.92		0.34
Thorium-227 (Th-227)	NS	0.11		0.05	NA			NA			0.15		0.06	0.09		0.04	0.16		0.06	0.06	J	0.04	0.05	J	0.04	NA		
Thorium-228 (Th-228)	13,300	0.75	J	0.12	0.74		0.4	0.95		0.47	0.85	J	0.13	0.86	J	0.12	0.82	J	0.13	1.03	J	0.15	0.98	J	0.16	0.92		0.4
Thorium-230 (Th-230)	2,060	1		0.15	0.68		0.36	44.8		7.63	1.32		0.18	0.72		0.11	0.74		0.12	0.77	J	0.13	0.5	J	0.11	0.9		0.37
Thorium-232 Th-232)	5	0.88	J	0.14	0.35		0.25	0.85		0.4	0.77	J	0.12	0.94	J	0.13	0.73	J	0.12	0.91	J	0.14	0.99	J	0.16	0.33		0.21
Thorium-234 Th-234)	47,500	0.68		0.18	ND			ND			0.53		0.13	0.82		0.18	0.55		0.14	0.6		0.14	0.54		0.22	ND		
Thallium-208 (Tl-208)	3,400,000	0.26	J	0.03	0.2		0.07	0.41		0.25	0.24	J	0.03	0.31	J	0.04	0.27	J	0.03	0.32		0.04	0.34		0.04	0.27		0.09
Uranium-234 (U-234)	3,260	0.56	J	0.11	NA			NA			0.67	J	0.13	0.96	J	0.16	1	J	0.17	0.82		0.15	0.64		0.11	NA		
Uranium-235 (U-235)	37.7	0.03		0.03	0.11	R	0.12	4.29	R	0.83	0.03	J	0.03	0.04		0.04	ND			0.04		0.03	0.04		0.03	0.11	R	0.1
Uranium-238 (U-238)	158	0.6		0.12	0.41		0.19	1.2		0.34	0.70		0.13	0.81	J	0.14	0.87		0.16	0.84		0.15	0.62		0.11	0.42		0.16
Uranium-233/234 (U-233/234)	3,260	NA			0.55		0.22	1.03		0.31	NA			NA			NA			NA			NA			0.44		0.17
Uranium-235/236 (U-235/236)	37.7	NA			0.04		0.09	0.09	J	0.09	NA			NA			NA			NA			NA			0.11	J	0.09

	Location No.	C003-SB001									C003-SB002												C003-SB003					
	RST 3 Sample No.	C003-SB001-2436-01			C003-SB001-3648-01			C003-SB001-3648-02			C003-SB002-0012-01			C003-SB002-1224-01			C003-SB002-2436-01			C003-SB002-3648-01			C003-SB003-0012-01			C003-SB003-1224-01		
	Sample Depth (inches)	24-36			36-48			36-48			0-12			12-24			24-36			36-48			0-12			12-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/216			4/5/2016			4/5/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	ND			0.77		0.13	0.79		0.13	0.62		0.16	1.02		0.14	0.86	J	1.2	2.33	J	2.82	0.83		0.17	0.88		0.18
Bismuth-214 (Bi-214)	1,310,000	NA			0.78		0.09	0.9		0.1	0.43		0.06	0.88		0.1	NA			NA			0.51		0.06	0.63		0.07
Cesium-137 (Cs-137)	11.20	NA			ND			ND			ND			0.01	J	0.01	NA			NA			ND			0.01		0.01
Potassium-40 (K-40)	26.7	13.81		2.86	13.6		1.5	13.6		1.5	12.7		1.42	13		1.44	14.62		2.53	11.66		2.49	16.5		1.83	13.2		1.47
Lead-210 (Pb-210)	418	ND			0.73		0.16	0.74		0.2	0.8		0.2	0.85		0.2	ND			61		41.09	0.32		0.12	0.65		0.16
Lead-212 (Pb-212)	657,000	0.94		0.23	0.74		0.08	0.72		0.08	0.56		0.06	0.91		0.1	1		0.21	0.84		0.34	0.76		0.09	0.79		0.09
Lead-214 (Pb-214)	7,330,000	ND			0.9		0.1	1.01		0.11	0.49		0.06	1.01		0.11	ND			ND			0.58		0.07	0.71		0.08
Radium-226* (Ra-226)	2.52	3.39		0.55	1.31		0.2	1.53		0.23	0.89		0.22	1.64		0.24	0.67		0.16	29.96		4.05	1.01		0.2	1.24		0.2
Radium-228 (Ra-228)	16.2	1.31		0.4	0.75		0.09	0.74		0.08	0.52		0.07	0.91		0.1	1.22		0.3	1.24		0.88	0.78		0.09	0.84		0.1
Thorium-227 (Th-227)	NS	NA			0.06	J	0.04	0.04	J	0.04	0.08	J	0.06	0.05	J	0.05	NA			NA			0.06	J	0.04	0.07	J	0.04
Thorium-228 (Th-228)	13,300	0.72		0.36	0.65	J	0.12	0.8	J	0.14	0.62	J	0.15	0.81	J	0.17	1.09		0.46	0.7		0.3	0.67	J	0.11	0.86	J	0.14
Thorium-230 (Th-230)	2,060	0.63		0.32	0.62	J	0.12	0.63	J	0.13	0.61	J	0.15	0.72	J	0.16	0.26		0.2	10.2		1.9	0.47	J	0.09	0.8	J	0.13
Thorium-232 Th-232)	5	0.63		0.32	0.58	J	0.11	0.83	J	0.15	0.5	J	0.13	0.66	J	0.15	0.76		0.35	0.84		0.32	0.69	J	0.12	0.88	J	0.14
Thorium-234 Th-234)	47,500	ND			0.51		0.15	0.55		0.18	0.52		0.25	0.55		0.17	0.64		2.61	ND			0.41		0.14	0.56		0.16
Thallium-208 (Tl-208)	3,400,000	0.4		0.12	0.24		0.03	0.23		0.03	0.16		0.02	0.29		0.03	0.38		0.11	0.22	J	0.25	0.24		0.03	0.27		0.03
Uranium-234 (U-234)	3,260	NA			0.51		0.1	0.53		0.10	0.5		0.09	0.43		0.09	NA			NA			0.57		0.12	0.61		0.11
Uranium-235 (U-235)	37.7	0.34	R	0.15	0.05		0.03	0.03	J	0.03	0.02	J	0.02	0.04	J	0.03	ND			1.88	R	0.46	ND			0.02	J	0.02
Uranium-238 (U-238)	158	0.52		0.24	0.62		0.12	0.56		0.11	0.46		0.09	0.47		0.09	0.55		0.16	0.3		0.17	0.57		0.12	0.60		0.11
Uranium-233/234 (U-233/234)	3,260	0.46		0.22	NA			NA			NA			NA			0.62		0.17	0.56		0.24	NA			NA		
Uranium-235/236 (U-235/236)	37.7	0.05	J	0.11	NA			NA			NA			NA			0.1	J	0.07	0.06		0.1	NA			NA		

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected.

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NARELL)

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C003-SB003						C003-SB004												C003-SB005								
	RST 3 Sample No.	C003-SB003-2436-01			C003-SB003-3648-01			C003-SB004-0012-01			C003-SB004-1224-01			C003-SB004-2436-01			C003-SB004-3648-01			C003-SB005-0012-01			C003-SB005-1224-01			C003-SB005-2436-01		
	Sample Depth (inches)	24-36			36-48			0-12			12-24			24-36			36-48			0-12			12-24			24-36		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	1.58		1.13	-0.53		2.35	0.82		0.16	1.11		0.19	2.48		1.24	1.21		0.82	0.42		0.18	ND			0.46		4.69
Bismuth-214 (Bi-214)	1,310,000	NA			NA			0.78		0.09	0.63		0.07	NA			NA			0.36		0.05	NA			NA		
Cesium-137 (Cs-137)	11.20	NA			NA			0.01		0.01	ND			NA			NA			ND			NA			NA		
Potassium-40 (K-40)	26.7	14.78		2.7	5.76		1.6	13.1		1.46	13.3		1.48	15.18		3.14	12.64		2.2	4.78		0.57	15.21		3.36	29.8		5.68
Lead-210 (Pb-210)	418	ND			ND			0.77		0.2	0.64		0.16	2.98	J	4.26	ND			0.65		0.18	11.7		6.3	33.66		11.5
Lead-212 (Pb-212)	657,000	0.89		0.2	0.73		0.23	0.63		0.07	1		0.11	0.96		0.25	0.65		0.16	0.31		0.04	1		0.29	1.16		0.4
Lead-214 (Pb-214)	7,330,000	ND			ND			0.92		0.1	0.74		0.08	ND			ND			0.44		0.06	ND			ND		
Radium-226* (Ra-226)	2.52	0.86		0.2	2.11		0.44	1.39		0.24	1.31		0.2	6.68		1.03	0.95		0.21	0.87		0.24	13.17		1.86	28.31		3.9
Radium-228 (Ra-228)	16.2	0.72		0.38	1.02		0.36	0.68		0.08	0.99		0.11	1.97		0.53	0.8		0.25	0.29		0.06	1.08		0.8	0.97	J	0.84
Thorium-227 (Th-227)	NS	NA			NA			0.07	J	0.04	0.07	J	0.04	NA			NA			0.13	J	0.07	NA			NA		
Thorium-228 (Th-228)	13,300	1.54		0.62	0.52		0.25	0.51	J	0.09	0.78	J	0.13	1.12		0.53	0.81	J	0.46	0.3		0.09	0.44		0.28	0.95		0.46
Thorium-230 (Th-230)	2,060	0.35		0.27	0.64		0.26	0.56	J	0.1	0.58	J	0.11	1.47		0.58	0.44	J	0.32	0.31		0.1	3.92		0.92	2.97		0.86
Thorium-232 Th-232)	5	1.43		0.58	0.55		0.24	0.52	J	0.09	0.72	J	0.12	0.59		0.35	0.72	J	0.41	0.27		0.08	0.54		0.26	0.61		0.34
Thorium-234 Th-234)	47,500	ND			ND			0.33		0.17	0.58		0.16	ND			ND			0.47		0.25	ND			5.24	J	0.34
Thallium-208 (Tl-208)	3,400,000	0.47		0.1	0.15	J	0.18	0.19		0.02	0.3		0.04	0.41		0.14	0.24		0.09	0.1		0.02	0.28		0.28	ND		
Uranium-234 (U-234)	3,260	NA			NA			0.6		0.11	0.59		0.12	NA			NA			0.39		0.1	NA			NA		
Uranium-235 (U-235)	37.7	0.13	R	0.11	0.11	R	0.16	0.04		0.03	ND			0.51	R	0.21	0.14	R	0.11	0.02		0.02	1.24	R	0.32	2.34		0.59
Uranium-238 (U-238)	158	0.75		0.22	0.61		0.22	0.6		0.11	0.64		0.12	0.69		0.19	0.55		0.18	0.48		0.11	0.59		0.2	1.2		0.28
Uranium-233/234 (U-233/234)	3,260	0.63		0.21	0.58		0.21	NA			NA			0.64		0.18	0.54		0.17	NA			0.46		0.18	1.08		0.27
Uranium-235/236 (U-235/236)	37.7	0.1	J	0.08	0.04	J	0.07	NA			NA			0.08		0.06	0.1	J	0.07	NA			0.07		0.08	0.1	J	0.07

	Location No.	C003-SB005			C003-SB006												C003-SB007											
	RST 3 Sample No.	C003-SB005-3648-01			C003-SB006-0012-01			C003-SB006-1224-01			C003-SB006-2436-01			C003-SB006-3648-01			C003-SB007-0012-01			C003-SB007-1224-01			C003-SB007-2436-01			C003-SS007-2436-02		
	Sample Depth (inches)	36-48			0-12			12-24			24-36			36-48			0-12			12-24			24-36			24-36		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/5/2016			4/5/2016			4/8/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	ND			0.56		0.18	1.94	J	2.86	1.59		1.27	1.02		0.15	0.45		0.11	1	J	1.42	2.32		1.07	1.75		0.94
Bismuth-214 (Bi-214)	1,310,000	NA			2.24		0.25	NA			NA			0.48		0.06	2.78		0.31	NA			NA			NA		
Cesium-137 (Cs-137)	11.20	NA			0.02		0.01	NA			NA			ND			ND			NA			NA			NA		
Potassium-40 (K-40)	26.7	11.61		2.55	10.1		1.14	13.31		3.55	12.5		2.72	13.8		1.52	10.6		1.18	12.17		18.8	13.64		2.96	12.22		2.36
Lead-210 (Pb-210)	418	0		1.82	2.79		0.4	25.15		8.05	ND			0.36		0.1	2.65		0.37	ND			ND			ND		
Lead-212 (Pb-212)	657,000	0.81		0.21	0.57		0.07	0.82		0.31	0.81		0.2	0.87		0.1	0.42		0.05	0.67		0.19	0.89		0.23	0.79		0.19
Lead-214 (Pb-214)	7,330,000	ND			2.65		0.29	ND			ND			0.58		0.07	3.19		0.35	ND			ND			ND		
Radium-226* (Ra-226)	2.52	1.19		0.27	3.72		0.49	18.41		2.57	0.56		0.18	1.12		0.18	3.84		0.47	2.83		0.19	1		0.22	0.87		0.23
Radium-228 (Ra-228)	16.2	0.66	J	0.27	0.57		0.08	1.74		0.67	1.02		0.36	0.92		0.1	0.45		0.06	1.01		0.26	1.53		0.4	1.09		0.31
Thorium-227 (Th-227)	NS	NA			0.04	J	0.04	NA			NA			ND			0.11	J	0.08	NA			NA			NA		
Thorium-228 (Th-228)	13,300	0.63		0.34	0.59		0.13	0.72	J	0.34	0.77	J	0.4	0.63	J	0.1	0.5		0.13	0.68	J	0.36	0.96	J	0.45	0.95	J	0.46
Thorium-230 (Th-230)	2,060	0.37		0.23	0.73		0.15	3.17		0.76	0.43	J	0.28	0.43	J	0.08	1.67		0.27	0.81	J	0.36	0.57	J	0	0.49	J	0.3
Thorium-232 Th-232)	5	0.76		0.33	0.51		0.12	0.88		0.33	0.82	J	0.39	0.57	J	0.09	0.41		0.11	0.44	J	0.26	0.66	J	0.34	0.94	J	0.42
Thorium-234 Th-234)	47,500	1.78	J	1.52	0.07		0.24	ND			ND			0.58		0.13	0.56		0.16	ND			ND			ND		
Thallium-208 (Tl-208)	3,400,000	0.31		0.11	0.17		0.02	ND			0.31		0.11	0.28		0.03	0.14		0.02	0.34		0.12	0.4		0.13	0.27		0.09
Uranium-234 (U-234)	3,260	NA			ND			NA			NA			0.6		0.12	0.41		0.09	NA			NA			NA		
Uranium-235 (U-235)	37.7	0.21	R	0.1	0.02	J	0.02	1.51	R	0.4	0.13	R	0.14	0.04		0.03	0		0.02	0.23	R	0.13	0.18	R	0.1	ND		
Uranium-238 (U-238)	158	0.36		0.19	0.39		0.08	0.46		0.18	0.41	J	0.18	0.53		0.11	0.41		0.09	0.54	J	0.19	0.49	J	0.22	0.49	J	0.21
Uranium-233/234 (U-233/234)	3,260	0.47		0.22	NA			0.54		0.2	0.42	J	0.19	NA			NA			0.44	J	0.17	0.35	J	0.18	0.61	J	0.24
Uranium-235/236 (U-235/236)	37.7	0.08	J	0.1	NA			-0.005		0.071	ND			NA			NA			0.03	J	0.07	ND			0.08	J	0.09

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected; J - An estimated result. .

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NARELA)

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C003-SB007			C003-SB008												C003-SB009									C003-SB009		
	RST 3 Sample No.	C003-SB007-3648-01			C003-SB008-0012-01			C003-SB008-1224-01			C003-SB008-2436-01			C003-SB008-3648-01			C003-SB009-0012-01			C003-SB009-1224-01			C003-SB009-2436-01			C003-SB009-3648-01		
	Sample Depth (inches)	36-48			0-12			12-24			24-36			36-48			0-12			12-24			24-36			36-48		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	[1]EPA SSAL																											
Bismuth-212 (Bi-212)	6,440,000	0.77		0.18	0.31		0.14	0.75		0.14	2.73	J	3.16	0.97	J	1.2	0.31		0.17	0.66		0.17	ND			7.56		2.7
Bismuth-214 (Bi-214)	1,310,000	0.73		0.09	ND			9.46		1.04	NA			NA			0.66		0.08	1.46		0.16	NA			NA		
Cesium-137 (Cs-137)	11.20	ND			0		0.01	ND			NA			NA			ND			ND			NA			NA		
Potassium-40 (K-40)	26.7	9		1.01	9.27		1.05	12.4		1.38	11.3		3.28	9.02		2.05	9.17		1.04	12		1.34	10.56		2.65	15.83		3.74
Lead-210 (Pb-210)	418	0.45		0.15	0.45		0.17	12		1.43	49.49		9.42	3.55		2	0.55	J	0.2	1.45	J	0.22	ND			4.19	J	5.63
Lead-212 (Pb-212)	657,000	0.69		0.08	0.44		0.05	0.68		0.08	1.09		0.29	1.1		0.22	0.38		0.04	0.53		0.06	1.02		0.27	3.89		0.69
Lead-214 (Pb-214)	7,330,000	0.88		0.1	0.49		0.06	10.8		1.19	ND			ND			0.79		0.09	1.66		0.19	ND			ND		
Radium-226* (Ra-226)	2.52	1.3		0.23	0.71		0.21	12.2		1.41	39.18		4.35	1.24		0.29	1.04		0.26	2.15		0.29	3.01		0.51	6.58		1.07
Radium-228 (Ra-228)	16.2	0.68		0.08	0.44		0.06	0.66		0.08	2.12		0.91	1.38		0.33	0.4		0.06	0.57		0.08	1.08		0.4	4.62		0.92
Thorium-227 (Th-227)	NS	ND			0.18	J	0.09	0.23	J	0.08	NA			NA			0.07	J	0.05	ND			NA			NA		
Thorium-228 (Th-228)	13,300	0.76	J	0.12	0.36		0.1	0.68	J	0.12	1.06	J	0.37	0.94	J	0.44	0.38		0.08	0.46		0.09	0.85	J	0.42	3.23	J	0.88
Thorium-230 (Th-230)	2,060	0.6	J	0.1	0.56		0.13	3.64	J	0.44	12.8	J	2.32	1.11	J	0.46	0.55	J	0.11	0.95	J	0.14	1.19	J	0.44	2.6	J	0.74
Thorium-232 Th-232)	5	0.7	J	0.11	0.34		0.09	0.58	J	0.11	0.95	J	0.34	0.9	J	0.41	0.32		0.07	0.5		0.09	0.69	J	0.33	2.62	J	0.75
Thorium-234 Th-234)	47,500	0.61		0.19	0.3		0.16	ND			ND			1.25	J	1.29	0.18	J	0.2	0.41		0.17	ND			4.81	J	1.94
Thallium-208 (Tl-208)	3,400,000	0.21		0.03	0.12		0.02	0.21		0.03	0.23	J	0.28	0.4		0.12	0.1		0.02	0.17		0.02	0.46		0.16	1.61		0.33
Uranium-234 (U-234)	3,260	0.56		0.11	0.48		0.11	0.54		0.10	NA			NA			0.37	J	0.09	0.46	J	0.08	NA			NA		
Uranium-235 (U-235)	37.7	0.03		0.03	0.04		0.03	0.02	J	0.02	2.84	R	0.5	0.2	R	0.13	0.02	J	0.02	0.02	J	0.02	0.23	R	0.17	0.64	R	0.23
Uranium-238 (U-238)	158	0.54		0.11	0.41		0.1	0.48	J	0.09	0.78	J	0.26	0.82	J	0.24	0.37	J	0.08	0.54	J	0.09	0.37		0.19	2.77	J	0.6
Uranium-233/234 (U-233/234)	3,260	NA			NA			NA			0.69	J	0.24	0.71	J	0.22	NA			NA			0.82	J	0.3	2.55	J	0.57
Uranium-235/236 (U-235/236)	37.7	NA			NA			NA			0.04	J	0.08	0.08	J	0.07	NA			NA			0		0.1	0.15	J	0.12

	Location No.	C003-SB010																								C003-SB011		
	RST 3 Sample No.	C003-SB010-0012-01			C003-SB010-1224-01			C003-SB010-2436-01			C003-SB010-3648-01			C003-SB010-4860-01			C003-SB010-6072-01			C003-SB010-7284-01			C003-SB010-8496-01			C003-SB011-0012-01		
	Sample Depth (inches)	0-12			12-24			24-36			36-48			48-60			60-72			72-84			84-96			0-12		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/5/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	[1]EPA SSAL																											
Bismuth-212 (Bi-212)	6,440,000	0.57		0.11	1.09		0.26	8.63		10.22	ND			ND			1.89		0.3	3.48		0.49	1.17		0.16	0.99		0.21
Bismuth-214 (Bi-214)	1,310,000	0.36		0.04	26.5		2.9	NA			NA			NA			5.03		0.55	3.21		0.36	0.98		0.11	0.58		0.07
Cesium-137 (Cs-137)	11.20	0.01	J	0.01	0.07		0.02	NA			NA			NA			ND			ND			ND			ND		
Potassium-40 (K-40)	26.7	9.23		1.03	13.1		1.48	21.54		6.3	10.3	J	19.5	18.2		5.71	11.3		1.27	9.59		1.09	13.4		1.49	20.8		2.31
Lead-210 (Pb-210)	418	1.48	J	0.23	32.7	J	3.81	184.76		91.79	810.09		128.76	230.53		124.28	4.27	J	0.51	2.84	J	0.37	0.63	J	0.13	0.58	J	0.19
Lead-212 (Pb-212)	657,000	0.52		0.06	0.85		0.1	2.35		0.89	ND			ND			1.6		0.18	3.42		0.38	1.16		0.13	1.03		0.12
Lead-214 (Pb-214)	7,330,000	0.43		0.05	30		3.29	ND			ND		19.15	ND			5.85		0.64	3.81		0.42	1.13		0.13	0.68		0.08
Radium-226* (Ra-226)	2.52	0.7		0.13	35.2		3.92	255.39		33.81	926.1		122.85	195.8		26	7.41		0.88	5.16		0.68	2.28		0.31	1.13		0.25
Radium-228 (Ra-228)	16.2	0.55		0.06	0.87		0.12	2.67		2.32	ND			ND			1.61		0.18	3.28		0.36	1.16		0.13	0.98		0.12
Thorium-227 (Th-227)	NS	0.08	J	0.04	0.70	J	0.15	NA			NA			NA			0.25	J	0.07	0.26	J	0.09	0.13	J	0.06	0.15		0.09
Thorium-228 (Th-228)	13,300	0.46		0.08	0.86		0.13	1.45	J	0.65	1.91	J	1.03	1.17	J	0.48	1.79		0.21	2.35		0.32	1.06		0.16	1.04		0.21
Thorium-230 (Th-230)	2,060	0.44	J	0.08	15	J	1.52	128	J	21	546	J	88.2	116		18.9	4.46	J	0.46	3.98	J	0.5	1.13	J	0.16	0.79		0.18
Thorium-232 Th-232)	5	0.54		0.09	0.91		0.14	1.72	J	0.66	2.93	J	1.27	0.95	J	0.41	1.67		0.2	2.38		0.32	1.22		0.17	0.85		0.19
Thorium-234 Th-234)	47,500	0.46		0.13	0.78		0.43	21.57	J	12.07	ND			ND			0.9		0.22	1.79		0.39	1.28		0.18	0.73		0.21
Thallium-208 (Tl-208)	3,400,000	0.17		0.02	0.26		0.03	ND			2.39		2.33	ND			0.49		0.06	0.99		0.11	0.36		0.04	0.3		0.04
Uranium-234 (U-234)	3,260	0.39	J	0.07	0.63	J	0.1	NA			NA			NA			1.34	J	0.17	1.74	J	0.2	1.41	J	0.18	0.84		0.14
Uranium-235 (U-235)	37.7	0.01	J	0.02	0.04		0.02	18.78	R	2.78	62.47	R	8.88	4.48	R	0.96	0.07		0.03	0.08		0.03	0.08		0.04	0.02	J	0.02
Uranium-238 (U-238)	158	0.49	J	0.08	0.72	J	0.11	1.46	J	0.41	1.31	J	0.38	1.13	J	0.36	1.35	J	0.17	1.85	J	0.22	1.44	J	0.18	0.81		0.14
Uranium-233/234 (U-233/234)	3,260	NA			NA			1.21	J	0.37	1.76	J	0.46	0.98	J	0.33	NA			NA			NA			NA		
Uranium-235/236 (U-235/236)	37.7	NA			NA			0.15	J	0.13	0.12	J	0.11	0.14	J	0.12	NA			NA			NA			NA		

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected; J - An estimated result. .

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NARELA)

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C003-SB011									C003-SB012												C003-SB013					
	RST 3 Sample No.	C003-SB011-1224-01			C003-SB011-2436-01			C003-SB011-3648-01			C003-SB012-0012-01			C003-SB012-1224-01			C003-SB012-2436-01			C003-SB012-3648-01			C003-SB013-0012-01			C003-SB013-1224-01		
	Sample Depth (inches)	12-24			24-36			36-48			0-12			12-24			24-36			36-48			0-12			12-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	[1]**EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	1.94	J	1.89	ND			0.95		0.17	0.47		0.19	2.03		1.55	5.95		3.72	7.03		6.02	0.61		0.19	0.95		0.18
Bismuth-214 (Bi-214)	1,310,000	NA			NA			0.44		0.05	0.35		0.05	NA			NA			NA			0.43		0.06	1.8		0.2
Cesium-137 (Cs-137)	11.20	NA			NA			ND			ND			NA			NA			NA			ND			ND		
Potassium-40 (K-40)	26.7	13.39		2.98	16.6		3.02	14.6		1.62	11.1		1.25	15.03		3.14	14.76		5.41	22.58		5.32	12.6		1.42	12.3		1.36
Lead-210 (Pb-210)	418	11.29	J	5.29	ND			0.69	J	0.18	0.43	J	0.13	8.64	J	5.16	205.99		96.84	73.9		17.08	0.44	J	0.22	2.01	J	0.29
Lead-212 (Pb-212)	657,000	0.68		0.22	0.85		0.2	0.84		0.1	0.47		0.06	0.91		0.26	ND			0.59	J	0.46	0.5		0.06	0.74		0.08
Lead-214 (Pb-214)	7,330,000	ND			ND			0.51		0.06	0.4		0.06	ND			ND			ND			0.47		0.06	2.05		0.23
Radium-226* (Ra-226)	2.52	5.49		0.87	1.68		0.29	1		0.19	0.67		0.23	8.15		1.19	132.07		17.54	75.94		10.80	0.85		0.08	2.79		0.36
Radium-228 (Ra-228)	16.2	0.6	J	0.67	0.84		0.42	0.88		0.1	0.45		0.07	1.01		0.62	2.21		0.93	1.04	J	1.5	0.54		0.21	0.82		0.1
Thorium-227 (Th-227)	NS	NA			NA			0.1		0.05	0.13		0.05	NA			NA			NA			0.06		0.04	0.12		0.05
Thorium-228 (Th-228)	13,300	0.87	J	0.44	1.02	J	0.46	0.69		0.11	0.4		0.08	0.72	J	0.38	0.6	J	0.38	0.81	J	3.7	0.51		0.11	0.66		0.11
Thorium-230 (Th-230)	2,060	1.1	J	0.46	0.94	J	0.42	0.44		0.09	0.36		0.08	8.42	J	1.74	84.8	J	14	21	J	3.74	0.53		0.12	1.24		0.18
Thorium-232 Th-232)	5	0.74	J	0.36	0.79	J	0.38	0.7		0.11	0.46		0.08	0.63	J	0.32	1.06	J	0.46	0.71	J	0.33	0.58		0.12	0.5		0.09
Thorium-234 Th-234)	47,500	ND			ND			0.54		0.17	0.51		0.22	ND			ND			ND			0.46		0.02	0.55		0.16
Thallium-208 (Tl-208)	3,400,000	0.34		0.14	0.33		0.1	0.26		0.03	0.14		0.02	0.5		0.15	ND			0.32	J	0.4	0.16		0.04	0.22		0.03
Uranium-234 (U-234)	3,260	NA			NA			0.48		0.11	0.37		0.07	NA			NA			NA			0.41		0.09	0.35		0.09
Uranium-235 (U-235)	37.7	0.47	R	0.18	0.07	R	0.13	0.03		0.03	ND			0.92	R	0.29	9.27	R	1.47	5.51	R	1.05	0.03	J	0.03	0.02	J	0.02
Uranium-238 (U-238)	158	0.38	J	0.17	0.57	J	0.21	0.49		0.11	0.34		0.07	0.37	J	0.18	0.67	J	0.23	3.07		0.67	0.41		0.09	0.44		0.1
Uranium-233/234 (U-233/234)	3,260	0.24	J	0.13	0.36	J	0.16	NA			NA			0.4	J	0.19	0.8	J	0.26	4.38	J	0.88	NA			NA		
Uranium-235/236 (U-235/236)	37.7	0.04	J	0.08	ND			NA			NA			0.04	J	0.09	0.04	J	0.08	0.25	J	0.16	NA			NA		

	Location No.	C003-SB013									C003-SB014												C003-SB015					
	RST 3 Sample No.	C003-SB013-2436-01			C003-SB013-2436-02			C003-SB013-3648-01			C003-SB014-0012-01			C003-SB014-1224-01			C003-SB014-2436-01			C003-SB014-3648-01			C003-SB015-0012-01			C003-SB015-1224-01		
	Sample Depth (inches)	24-36			24-36			36-48			0-12			12-24			24-36			36-48			0-12			12-24		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	[1]**EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	0.72	J	1.23	ND			ND			0.59		0.14	ND			2.85	J	4.25	2.32		1.24	1.04		0.18	1.13	J	1.32
Bismuth-214 (Bi-214)	1,310,000	NA			NA			NA			0.58		0.07	NA			NA			NA			0.87		0.1	NA		
Cesium-137 (Cs-137)	11.20	NA			NA			NA			0.01	J	0.01	NA			NA			NA			0.07		0.01	NA		
Potassium-40 (K-40)	26.7	12.38		2.33	12.77		2.59	16.94		4.82	11.5		1.29	13.81		2.85	18.58		4.68	12.64		3.03	13.5		1.51	14.35		2.51
Lead-210 (Pb-210)	418	ND			3.54	J	3.31	129.86		65.09	0.59	J	0.19	10.94	J	3.62	123.07		66.32	6.84	J	4.36	1.38	J	0.28	ND		
Lead-212 (Pb-212)	657,000	0.49		0.15	0.56		0.16	ND			0.55		0.06	0.61		0.19	0.99		0.5	0.92		0.23	0.86		0.1	0.84		0.2
Lead-214 (Pb-214)	7,330,000	ND			ND			ND			0.66		0.08	ND			ND			ND			1.05		0.12	ND		
Radium-226* (Ra-226)	2.52	3.49		0.53	3.61		0.57	110.8		14.72	1.02		0.2	5.06		0.75	93.09		12.38	5.64		0.84	1.79		0.29	2.92		0.54
Radium-228 (Ra-228)	16.2	0.76		0.26	0.92		0.35	ND			0.56		0.07	0.6	J	0.43	1.94		1.16	1.23		0.45	0.86		0.11	1.08		0.32
Thorium-227 (Th-227)	NS	NA			NA			NA			0.08		0.05	NA			NA			NA			0.12		0.06	NA		
Thorium-228 (Th-228)	13,300	0.54	J	0.31	1.06	J	0.45	0.69	J	0.38	0.47		0.09	0.42	J	0.3	0.94		0.38	0.66	J	0.29	0.92		0.14	1.08		0.42
Thorium-230 (Th-230)	2,060	1.74	J	0.56	2.02	J	0.63	34.5		5.95	0.65		0.12	5.21		1.21	33.2		5.63	2.28		0.6	0.78		0.13	0.42		0.24
Thorium-232 Th-232)	5	0.52	J	0.28	0.48	J	0.28	0.97		0.42	0.47		0.09	0.5		0.28	0.9		0.36	0.49		0.23	0.84		0.14	0.72		0.32
Thorium-234 Th-234)	47,500	ND			ND			ND			0.37		0.15	1.66	J	2.04	ND			1.8	J	1.71	0.79		0.27	ND		
Thallium-208 (Tl-208)	3,400,000	0.28		0.1	0.25		0.08	ND			0.17		0.02	0.14	J	0.170	ND			0.38		0.14	0.26		0.03	0.37		0.11
Uranium-234 (U-234)	3,260	NA			NA			NA			0.4		0.09	NA			NA			NA			0.53		0.11	NA		
Uranium-235 (U-235)	37.7	0.4	R	0.16	0.36	R	0.14	8.31	R	1.44	0.04		0.03	0.45	R	0.18	6.58	R	1.09	0.41	R	0.16	0.03	J	0.03	0.36	R	0.16
Uranium-238 (U-238)	158	0.46	J	0.18	0.33	0.17	0.17	0.63		0.23	0.44		0.09	0.38		0.19	1.01		0.29	0.57		0.2	0.6		0.11	0.54		0.2
Uranium-233/234 (U-233/234)	3,260	0.44	J	0.18	0.46	J	0.2	0.91		0.28	NA			0.4		0.02	0.97		0.29	0.72		0.13	NA			0.45		0.18
Uranium-235/236 (U-235/236)	37.7	0.08	J	0.08	0.06	J	0.09	0.02		0.08	NA			0.000		0.101	0.07		0.08	0.13		0.10	NA			0.03		0.07

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected; J - An estimated result. .

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NARELA)

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Table 4
Validated Soil Analytical Results Summary Table - Radioisotopes
Canadian Radium and Uranium Corp. Site
Mount Kisco, New York
April 2016

	Location No.	C003-SB015						C003-SB016												C004-SB001								
	RST 3 Sample No.	C003-SB015-2436-01			C003-SB015-3648-01			C003-SB016-0012-01			C003-SB016-1224-01			C003-SB016-2436-01			C003-SB016-3648-01			C004-SB001-0012-01			C004-SB001-1224-01			C004-SB001-2436-01		
	Sample Depth (inches)	24-36			36-48			0-12			12-24			24-36			36-48			0-12			12-24			24-36		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																											
Bismuth-212 (Bi-212)	6,440,000	1.03		0.14	ND			0.97		0.19	1.33		1	1.52		1.18	0.99		0.14	1.75		1	1.44	J	1.6	ND		
Bismuth-214 (Bi-214)	1,310,000	0.55		0.06	NA			0.39		0.05	NA			NA			0.54		0.06	NA			NA			NA		
Cesium-137 (Cs-137)	11.20	0.01		0	NA			ND			NA			NA			ND			NA			NA			NA		
Potassium-40 (K-40)	26.7	12.9		1.42	14.74		3.35	16.9		1.88	11.9		2.79	14.11		2.98	13		1.44	14.15		2.63	13.32		3.32	13.71		2.45
Lead-210 (Pb-210)	418	0.56	J	0.16	12.48	J	5.91	0.62	J	0.18	ND			ND			0.55	J	0.17	ND			2.43	J	2.54	ND		
Lead-212 (Pb-212)	657,000	0.88		0.1	0.98		0.28	0.77		0.09	0.86		0.2	0.89		0.22	0.9		0.1	0.86		0.21	0.87		0.22	0.73		0.18
Lead-214 (Pb-214)	7,330,000	0.65		0.07	ND			0.48		0.06	ND			ND			0.62		0.07	ND			ND			ND		
Radium-226* (Ra-226)	2.52	1.16		0.18	11.76		1.68	0.87		0.22	1.06		0.26	0.82		0.24	1.11		0.18	1.70		0.32	3.63		0.58	2.96		0.45
Radium-228 (Ra-228)	16.2	0.9		0.1	0.05		0.99	0.8		0.1	1.24		0.32	1.27		0.37	0.94		0.11	1.28		0.34	1.12		0.44	1.1		0.33
Thorium-227 (Th-227)	NS	0.09		0.05	NA			0.11		0.06	NA			NA			0.12		0.06	NA			NA			NA		
Thorium-228 (Th-228)	13,300	0.81		0.13	0.76		0.33	0.67		0.12	1.35		0.52	0.88		0.36	0.81		0.13	0.8	J	0.36	1.09		0.39	1.23		0.39
Thorium-230 (Th-230)	2,060	0.54		0.1	1.33		0.43	0.49		0.1	0.41		0.26	0.16	J	0.14	0.7		0.12	0.32		0.21	1.02		0.35	0.66		0.26
Thorium-232 Th-232)	5	0.85		0.13	0.6		0.27	0.6		0.11	1.16		0.44	0.57		0.27	0.86		0.14	0.53		0.27	1.06		0.36	0.77		0.29
Thorium-234 Th-234)	47,500	0.6		0.16	0		2.25	0.69		0.27	ND			ND			0.61		0.17	ND			ND			3.3		3.37
Thallium-208 (Tl-208)	3,400,000	0.28		0.03	0.51		0.16	0.22		0.03	0.36		0.11	0.33		0.1	0.29		0.03	0.3		0.09	0.34		0.12	0.28		0.09
Uranium-234 (U-234)	3,260	0.52		0.1	NA			0.49		0.1	NA			NA			0.59		0.13	NA			NA			NA		
Uranium-235 (U-235)	37.7	0.03	J	0.03	0.98		0.29	ND			0.19	R	0.17	ND			ND			0.17	R	0.17	0.36	R	0.18	0.26		0.16
Uranium-238 (U-238)	158	0.46		0.1	0.46		0.19	0.48		0.1	0.42		0.17	0.38		0.16	0.51		0.12	0.45		0.18	0.51		0.19	0.66		0.23
Uranium-233/234 (U-233/234)	3,260	NA			0.61		0.22	NA			0.44		0.18	0.32		0.15	NA			0.45		0.18	0.76		0.24	0.65		0.23
Uranium-235/236 (U-235/236)	37.7	NA			0.077		0.08	NA			0.10		0.09	0.03		0.07	NA			0.02		0.08	0.10		0.09	0.04		0.08

	Location No.	C004-SB001												Rinsate Blank					
	RST 3 Sample No.	C004-SB001-3648-01			C004-SB001-3648-02			C004-SB001-7284-01			C004-SB001-8496-01			RB-040516			RB-040616		
	Sample Depth (inches)	36-48			36-48			72-84			84-96			NA			NA		
	Sample Matrix	Soil			Soil			Soil			Soil			Aqueous			Aqueous		
	Sample Date	4/6/2016			4/6/2016			4/6/2016			4/6/2016			4/5/2016			4/6/2016		
	Sample Result	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty	Value (pCi/g)	Qualifier	Total Uncertainty
Radioisotope	**[1]EPA SSAL**																		
Bismuth-212 (Bi-212)	6,440,000	2.02		0.92	0.95	J	0.61	2.04		1.70	ND			NA			NA		
Bismuth-214 (Bi-214)	1,310,000	NA			NA			NA			NA			NA			NA		
Cesium-137 (Cs-137)	11.2	NA			NA			NA			NA			NA			NA		
Potassium-40 (K-40)	26.7	15.92		3.2	17.2		2.98	12.42		2.69	15.75		3.17	NA			NA		
Lead-210 (Pb-210)	418	ND			ND			ND			ND			NA			NA		
Lead-212 (Pb-212)	657,000	1.26		0.27	1.05		0.21	0.89		0.21	0.95		0.25	NA			NA		
Lead-214 (Pb-214)	7,330,000	ND			ND			ND			ND			NA			NA		
Radium-226* (Ra-226)	2.52	0.9		0.24	0.71		0.19	0.61		0.18	11.04		1.55	NA			NA		
Radium-228 (Ra-228)	16.2	1.63		0.42	1.17		0.35	1.05		0.32	1.37		0.42	NA			NA		
Thorium-227 (Th-227)	NS	NA			NA			NA			NA			NA			NA		
Thorium-228 (Th-228)	13,300	0.9		0.36	0.88		0.34	0.68	J	0.31	1.10		0.38	0.10	J	0.09	0.19		0.1
Thorium-230 (Th-230)	2,060	0.27		0.18	0.47		0.22	0.48		0.24	2.9		0.69	0.04	J	0.04	0.03		0.04
Thorium-232 Th-232)	5.11	0.56		0.27	0.73		0.28	0.76		0.31	0.49		0.22	0	J	0.04	0.02		0.04
Thorium-234 Th-234)	47,500	ND			ND			ND			ND			NA			NA		
Thallium-208 (Tl-208)	3,400,000	0.47		0.14	0.37		0.1	0.37		0.12	0.17	J	0.17	NA			NA		
Uranium-234 (U-234)	3,260	NA			NA			NA			NA			NA			NA		
Uranium-235 (U-235)	37.7	0.07		0.13	0.13	R	0.14	0.12	R	0.16	0.77	R	0.26	NA			NA		
Uranium-238 (U-238)	158	0.47		0.18	0.46		0.17	0.24		0.13	0.47		0.18	0.05		0.09	ND		
Uranium-233/234 (U-233/234)	3,260	0.41		0.17	0.38		0.16	0.39		0.18	0.44		0.18	0.05	UJ	0.09	0.08		0.09
Uranium-235/236 (U-235/236)	37.7	0.08		0.08	0.01		0.07	0.05		0.08	0.00		0.07	0.05		0.10	0.02		0.09
Radium-226** (Ra-226)	NS	NA			NA			NA			NA			0.99		0.72	ND		
Radium-228*** (Ra-228)	NS													0.72	J	0.41	0.45	J	0.41

Notes:

RST 3 - Removal Support Team 3.

No. - Number; NA - Not analyzed; ND - Not detected; J - An estimated result. .

pCi/g - picocuries per gram; µg/L - micrograms per liter.

[1]U.S. Environmental Protection Agency (EPA) Site-Specific Action Level (SSAL) values are presented in pCi/g.

Background sampling location.

Samples analyzed by EPA's National Analytical Radiation Environmental Laboratory (NAREL).

Samples analyzed by RST 3-procured laboratory, PACE Analytical Services.

Values in red equal or exceed the EPA SSAL for the respective radioisotope.

Radium-226* (21-day ingrowth) analyzed by gamma spectroscopy via EPA 901.1 modified (soil only).

Radium-226** analyzed via EPA Method 903.1 (aqueous only).

Radium-228*** - analyzed via EPA Method 904.0 (aqueous only).