Table 8A
Validated Soil Analytical Results Summary (Radioisotopes) Table
Holy Trinity Cemetery Radiological Site
Robert Avenue, Lewiston, New York

	Location No.	H001-SS001			H001-SS002			H001-SS003			H001-SS004			H001-SS005			H001-SS005			H001-SS006			H001-SS007			H001-SS008			Rinsate Blank		
	RST 3 Sample No.	**H001-SS001-0012-01**			**H001-SS002-0012-01**			**H001-SS003-0012-01**			**H001-SS004-0012-01**			**H001-SS005-0012-01**			**H001-SS005-0012-02[1]**			**H001-SS006-0012-01**			**H001-SS007-0618-01**			**H001-SS008-0012-01**			**RB-H-150812**		
	Sample Depth (inches)	0 - 12			0 - 12			0 - 12			0 - 12			0 - 12			0 - 12			0 - 12			6 - 18			0 - 12			NA		
	Sample Matrix	Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Soil			Aqueous		
	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	Value (µg/L)	Qualifier	Total Uncertainty
Radioisotope	**EPA SSAL**	**Background**																													
Thorium-228	26,900	0.86	V	0.18	0.69	V	0.17	12.2	V	1.25	1.03	V	0.2	0.88	V	0.19	0.85	V	0.18	0.96	V	0.18	0.92	V	0.19	34.9	VJ	4.38	ND	V	
Thorium-230	5,910	1.06	V	0.21	24	V	2.22	7.46	V	0.84	0.84	V	0.18	1.04	V	0.2	0.96	V	0.19	1	V	0.19	1.03	V	0.2	16.6	VJ	2.65	0.13	V	0.11
Thorium-232	6,150	1.01	V	0.2	0.8	V	0.18	11.4	V	1.18	0.88	V	0.18	0.8	V	0.17	0.84	V	0.18	0.91	V	0.18	0.93	V	0.19	31.6	VJ	4.07	ND	V	
Uranium-233/234	10,000	0.83	V	0.18	23.4	V	2.25	7.1	V	0.79	0.77	V	0.18	0.58	V	0.15	0.72	V	0.18	0.88	V	0.2	0.79	V	0.18	12.6	V	1.27	ND	V	
Uranium-235/236	48.8	0.04	VJ	0.04	0.94	V	0.26	0.31	V	0.12	0.02	VJ	0.03	ND	V		0.04	VJ	0.05	0.05	VJ	0.05	0.03	VJ	0.04	0.74	V	0.2	ND	V	
Uranium-238	209	0.9	V	0.19	21.6	V	2.09	7.55	V	0.83	0.72	V	0.18	0.75	V	0.17	0.72	V	0.18	0.8	V	0.18	0.72	V	0.18	13	V	1.3	ND	V	
Ac-228	165,000	1.38	V	0.36	NA	V		49	V	5.65	1.39	V	0.36	NA	V		0.94	V	0.26	1.25	V	0.34	1.27	V	0.36	65.3	V	6.99	ND	V	
Bi-210	NS	NA	V		20	V	6.08	NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		ND	V	
Bi-212	8,280,000	NA	V		NA	V		57.4	V	9.91	NA	V		NA	V		NA	V		NA	V		NA	V		72.4	V	10.8	ND	V	
Bi-214	1,690,000	0.82	V	0.23	36.4	V	3.91	78.1	V	8.41	1.12	V	0.24	0.71	V	0.22	0.72	V	0.2	1.07	V	0.27	0.87	V	0.27	52	V	5.61	ND	V	
Cesium-137	17,700	0.31	V	0.12	ND	V		ND	V		ND	V		0.1	VJ	0.07	0.25	V	0.12	0.28	V	0.12	0.18	V	0.08	ND	V		ND	V	
K-40	34.4	18.1	V	3.41	4.62	V	1.6	18	V	5.35	18.3	V	3.2	16.8	V	2.67	18.7	V	3.08	16.1	V	2.97	19.9	V	3.67	13.9	V	4.27	ND	V	
Pb-210	1,300	NA	V		20	V	6.08	25	V	10.4	NA	V		NA	V		NA	V		NA	V		NA	V		25	V	12.7	ND	V	
Pb-212	847,000	1.04	V	0.28	NA	V		48.2	V	6.4	1.19	V	0.25	0.96	V	0.21	0.95	V	0.24	1.09	V	0.27	1.23	V	0.31	66.9	V	8.75	ND	V	
Pb-214	9,430,000	0.89	V	0.2	38.3	V	4.08	79	V	8.42	0.96	V	0.23	0.95	V	0.19	0.87	V	0.23	1.05	V	0.24	0.99	V	0.27	57.8	V	6.22	ND	V	
Th-234	NS	NA	V		NA	V		62.9	V	13.3	NA	V		NA	V		NA	V		NA	V		NA	V		41.9	V	10.1	ND	V	
Tl-208	4,380,000	0.38	V	0.11	NA	V		16.5	V	1.86	0.42	V	0.12	0.39	V	0.1	0.29	V	0.1	0.41	V	0.13	0.37	V	0.13	23.2	V	2.54	ND	V	
Radium-226*	3.25	1.05	V	0.31	**35.5**	V	3.8	**77.7**	V	8.35	0.941	V	0.27	1	V	0.24	0.84	V	0.2	1.23	V	0.32	0.9	V	0.22	**54.1**	V	5.93	NA		
Radium-228	21.0	1.38	V	0.36	0.55	VJ	0.49	**49**	V	5.65	1.39	V	0.36	0.58	V	0.25	0.94	V	0.26	1.25	V	0.34	1.27	V	0.36	**65.3**	V	6.99			
Radium-226**	NS	NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		NA	V		ND	V	
Radium-228***	NS																												ND	V	

Notes:
RST 3 - Removal Support Team 3.
No. - Identity Number.
NS - No Standard.
NA - Not Analyzed.
ND - Non-Detect.
J - An unusually uncertain or estimated result.
V - Verified by Certified Health Physicist.
pCi/g - picocuries per gram.
µg/L - micrograms per liter.
EPA SSAL - U.S. Environmental Protection Agency Site-Specific Action Level [Preliminary Remediation Goals (PRGs)].
Values in red exceed the EPA SSAL for the respective radioisotope.
EPA SSAL values are in pCi/g.
H001-SS005-0012-02[1] is a duplicate of H001-SS005-0012-01
*Radium-226 (21-day ingrowth) via Department of Energy (DOE) gamma spectroscopy Method GA-01-R (soil only).
**Radium-226 via EPA SW-846 Method 9315 (aqueous only).
***Radium-228 Gas Flow Proportional Counter (GFPC) via EPA SW-846 Method 9320 (aqueous only).