Nickel, Aluminum, and Monel Ingot Button Sampling
Project ID: PLING00-01 (Phase I)
Laboratory Data

This data has been verified and assessed and is of known quality per Paducah Bechtel Jacobs Company, LLC procedure PMSA-1001. However the data has not been loaded to the Paducah Oak Ridge Environmental Information System (OREIS) and is currently being reported from the specific Project Environmental Measurement System (PEMS).

G.L. Dover, Bechtel Jacobs Company, LLC
Paducah Manager of Projects

ESPEMS Project Assessment Report
Laboratory Data

PLING00-01

G158	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0611	U		PCI/G			0.0611	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	6.6		1.32	PCI/G			5.38	/ X /
Plutonium-240	19.7	U		PCI/G			19.7	/ X /
Plutonium-242	0.34	U		PCI/G			0.34	/ X /
Technetium-99	14600		1500	PCI/G			2360	/ X /
Thorium-230	1.79	U		PCI/G			1.79	/ X /
Thorium-232	7.5E-05		1.5E-05	PCI/G			1E-05	/ X /
Uranium-233	0.836	U		PCI/G			0.836	/ X /
Uranium-234	0.54	U		PCI/G			0.54	/ X /
Uranium-235	0.0115		0.0023	PCI/G			0.0002	/ X /
Uranium-238	0.22		0.044	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.06	U	0.04	pCi/g		0.04	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	8880		53.3	pCi/g		418	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	-56.66	AX	15.87	pCi/g		17.54	100.11	/ X /
Beta activity	3972.82		160.1	pCi/g		509.51	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	-0.0676	A	0.0832	pCi/g		0.257	0.576	/ X /
Plutonium-239/240	0.0247	A	0.0406	pCi/g		0.0526	0.095	/ X /
Thorium-228	-0.0266	AT	0.0839	pCi/g		0.0972	0.226	/ X /
Thorium-230	1.15	T	0.345	pCi/g		0.432	0.382	/ X /
Thorium-232	0.046	AT	0.115	pCi/g		0.128	0.229	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	0.546	U	1.09	pCi/g		1.21	2.1	/ X /
Cesium-134	-0.361	U	0.722	pCi/g	R	0.722	0.835	/ X /
Cesium-137	0.0953	U	0.191	pCi/g		0.509	0.946	/ X /
Cobalt-60	0.0446	U	0.0891	pCi/g		0.626	1.18	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	0.274	U	0.549	pCi/g		0.785	1.4	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

ESPEMS Project Assessment Report
Laboratory Data

PLING00-01

G162	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0651	U		PCI/G			0.0651	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.73	U		PCI/G			5.73	/ X /
Plutonium-240	21	U		PCI/G			21	/ X /
Plutonium-242	0.363	U		PCI/G			0.363	/ X /
Technetium-99	14700		1500	PCI/G			2510	/ X /
Thorium-230	1.9	U		PCI/G			1.9	/ X /
Thorium-232	4E-05		8E-06	PCI/G			1E-05	/ X /
Uranium-233	0.89	U		PCI/G			0.89	/ X /
Uranium-234	0.575	U	-	PCI/G			0.575	/ X /
Uranium-235	0.012		0.0024	PCI/G			0.0002	/ X /
Uranium-238	0.25		0.05	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.47		0.17	pCi/g		0.18	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	9970		56.8	pCi/g		468	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-148	AX	41.06	pCi/g		45.44	100.11	/ X /
Beta activity	4813.22		176.16	pCi/g		611.92	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.00928	A	0.0987	pCi/g		0.264	0.578	/ X /
Plutonium-239/240	0.0559	A	0.0503	pCi/g		0.0609	0.0973	/ X /
Thorium-228	0.00784	A	0.0256	pCi/g		0.0552	0.199	/ X /
Thorium-230	1.13		0.251	pCi/g		0.333	0.331	/ X /
Thorium-232	0.164	A	0.104	pCi/g		0.121	0.187	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-0.235	U	0.469	pCi/g		1.24	2.07	/ X /
Cesium-134	-0.236	U	0.473	pCi/g	R	0.494	0.839	/ X /
Cesium-137	-0.153	U	0.306	pCi/g		0.579	0.875	/ X /
Cobalt-60	-0.194	U	0.387	pCi/g		0.629	1.11	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.306	U	0.611	pCi/g		0.777	1.29	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.916	/ X /
Uranium-235				wt %	A		0.916	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

ESPEMS Project Assessment Report
Laboratory Data

PLING00-01

G181	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0654	U		PCI/G			0.0654	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.76	U		PCI/G			5.76	/ X /
Plutonium-240	21.1	U		PCI/G			21.1	/ X /
Plutonium-242	0.364	U		PCI/G			0.364	/ X /
Technetium-99	20000		2000	PCI/G			2530	/ X /
Thorium-230	1.91	U		PCI/G			1.91	/ X /
Thorium-232	0.00003		6E-06	PCI/G			1E-05	/ X /
Uranium-233	0.895	U		PCI/G			0.895	/ X /
Uranium-234	0.578	U		PCI/G			0.578	/ X /
Uranium-235	0.0058		0.00116	PCI/G			0.0002	/ X /
Uranium-238	0.118		0.024	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.04	U	0.03	pCi/g		0.03	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	13200		64.7	pCi/g		619	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-133.16	AX	27.62	pCi/g		32.71	100.11	/ X /
Beta activity	7553.88		221.33	pCi/g		945.96	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.033	A	0.0846	pCi/g		0.258	0.571	/ X /
Plutonium-239/240	0.0302	A	0.0335	pCi/g		0.0473	0.0894	/ X /
Thorium-228	0.0792	AT	0.216	pCi/g		0.222	0.487	/ X /
Thorium-230	3.31	T	0.85	pCi/g		1.22	0.821	/ X /
Thorium-232	1.89	T	0.63	pCi/g		0.795	0.523	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.458	U	0.916	pCi/g		1.3	2.24	/ X /
Cesium-134	0.0265	U	0.0529	pCi/g	R	0.491	0.886	/ X /
Cesium-137	-0.181	U	0.361	pCi/g		0.553	0.955	/ X /
Cobalt-60	0.0494	U	0.0989	pCi/g		0.672	1.26	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.0941	U	0.188	pCi/g		0.796	1.36	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

ESPEMS Project Assessment Report
Laboratory Data

PLING00-01

G188	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.065	U		PCI/G			0.065	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.72	U		PCI/G			5.72	/ X /
Plutonium-240	20.9	U		PCI/G			20.9	/ X /
Plutonium-242	0.362	U		PCI/G			0.362	/ X /
Technetium-99	18900		1900	PCI/G			2510	/ X /
Thorium-230	1.9	U		PCI/G			1.9	/ X /
Thorium-232	0.00011		2.1E-05	PCI/G			1E-05	/ X /
Uranium-233	0.889	U		PCI/G			0.889	/ X /
Uranium-234	0.574	U		PCI/G			0.574	/ X /
Uranium-235	0.0131		0.0026	PCI/G			0.0002	/ X /
Uranium-238	0.164		0.033	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	-0.09	U	0.08	pCi/g		0.08	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	12500		63.6	pCi/g		585	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-26.79	AX	5.78	pCi/g		6.77	100.11	/ X /
Beta activity	6167.29		199.82	pCi/g		777.01	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0428	A	0.116	pCi/g		0.272	0.583	/ X /
Plutonium-239/240	0.0138	A	0.0506	pCi/g		0.0606	0.107	/ X /
Thorium-228	0.0531	AT	0.106	pCi/g		0.117	0.22	/ X /
Thorium-230	2.49	T	0.432	pCi/g		0.626	0.376	/ X /
Thorium-232	0.778	T	0.248	pCi/g		0.287	0.222	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	1.5	U	3	pCi/g		3	2.25	/ X /
Cesium-134	0.0534	U	0.107	pCi/g	R	0.473	0.863	/ X /
Cesium-137	-0.137	U	0.273	pCi/g		0.476	0.834	/ X /
Cobalt-60	0.285	U	0.57	pCi/g		0.57	1.1	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.557	U	1.11	pCi/g		1.11	1.3	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M127 from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0658	U		PCI/G			0.0658	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.79	U		PCI/G			5.79	/ X /
Plutonium-240	21.2	U		PCI/G			21.2	/ X /
Plutonium-242	0.367	U		PCI/G			0.367	/ X /
Thorium-230	1.93	U		PCI/G			1.93	/ X /
Thorium-232	5.8E-05		1.2E-05	PCI/G			1E-05	/ X /
Uranium-233	0.9	U		PCI/G			0.9	/ X /
Uranium-234	0.582	U		PCI/G			0.582	/ X /
Uranium-235	0.00059		0.00012	PCI/G			0.0002	/ X /
Uranium-238	0.00322		0.00064	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.17	U	0.08	pCi/g		0.09	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0.359	U	3.96	pCi/g		3.96	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	8.29	A	11.72	pCi/g		11.77	100.11	/ X /
Beta activity	0	A	0	pCi/g		0	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.123	A	0.0805	pCi/g		0.258	0.569	/ X /
Plutonium-239/240	0.0368	A	0.0298	pCi/g		0.0448	0.0865	/ X /
Thorium-228	0.0077	A	0.0314	pCi/g		0.0582	0.156	/ X /
Thorium-230	0.0025	A	0.0933	pCi/g		0.151	0.32	/ X /
Thorium-232	0.00988	A	0.0198	pCi/g		0.059	0.16	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-0.133	U	0.265	pCi/g		1.09	1.84	/ X /
Cesium-134	-0.313	U	0.626	pCi/g	R	0.626	0.675	/ X /
Cesium-137	-0.13	U	0.26	pCi/g		0.454	0.799	/ X /
Cobalt-60	0.0537	U	0.107	pCi/g		0.651	1.22	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	0.33	U	0.66	pCi/g		0.722	1.31	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M15 from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/N/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.06	U		PCI/G			0.06	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.28	U		PCI/G			5.28	/ X /
Plutonium-240	19.3	U		PCI/G			19.3	/ X /
Plutonium-242	0.334	U		PCI/G			0.334	/ X /
Thorium-230	1.76	U		PCI/G			1.76	/ X /
Thorium-232	0.00034		6.8E-05	PCI/G			9E-06	/ X /
Uranium-233	0.821	U		PCI/G			0.821	/ X /
Uranium-234	0.53	U		PCI/G			0.53	/ X /
Uranium-235	0.00071		0.00014	PCI/G			0.0002	/ X /
Uranium-238	0.00548		0.0011	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.08	U	0.04	pCi/g		0.04	0.419	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	2.14	U	2.54	pCi/g		2.55	2.56	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-6.23	A	12.46	pCi/g		12.49	75.26	/ X /
Beta activity	-1.45	A	0.7	pCi/g		0.73	48.94	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	-0.05	AT	0.164	pCi/g		0.314	0.669	/ X /
Plutonium-239/240	0.04	AT	0.114	pCi/g		0.12	0.16	/ X /
Thorium-228	-0.0018	A	0.0454	pCi/g		0.0687	0.175	/ X /
Thorium-230	-0.0312	A	0.055	pCi/g		0.126	0.38	/ X /
Thorium-232	-0.0142	A	0.0311	pCi/g		0.0634	0.177	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-1.31	U	2.61	pCi/g		2.61	2.53	/ X /
Cesium-134	-0.333	U	0.666	pCi/g	R	0.666	0.626	/ X /
Cesium-137	0.0829	U	0.166	pCi/g		0.397	0.718	/ X /
Cobalt-60	0.104	U	0.208	pCi/g		0.356	0.686	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	-0.0842	U	0.168	pCi/g		0.789	1.34	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M210A from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0678	U		PCI/G			6.78	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.97	U		PCI/G			5.97	/ X /
Plutonium-240	21.8	U		PCI/G			21.8	/ X /
Plutonium-242	0.377	U		PCI/G			0.377	/ X /
Thorium-230	1.98	U		PCI/G			1.98	/ X /
Thorium-232	0.00014		2.7E-05	PCI/G			1E-05	/ X /
Uranium-233	0.927	U		PCI/G			0.927	/ X /
Uranium-234	0.599	U		PCI/G			0.599	/ X /
Uranium-235	0.00036		7.2E-05	PCI/G			0.0002	/ X /
Uranium-238	0.00352		0.0007	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.14	U	0.07	pCi/g		0.07	0.419	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	4.38		2.68	pCi/g		2.69	2.56	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	18.01	A	18.01	pCi/g		18.17	75.26	/ X /
Beta activity	8.72	A	3.56	pCi/g		3.71	48.94	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0929	A	0.161	pCi/g		0.315	0.648	/ X /
Plutonium-239/240	0.0207	A	0.0727	pCi/g		0.0808	0.126	/ X /
Thorium-228	-0.0346	A	0.0432	pCi/g		0.0675	0.179	/ X /
Thorium-230	0.00255	A	0.127	pCi/g		0.17	0.347	/ X /
Thorium-232	-0.0306	A	0.064	pCi/g		0.0846	0.208	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.359	U	0.718	pCi/g		1.6	2.67	/ X /
Cesium-134	-0.475	U	0.949	pCi/g	R	0.949	0.593	/ X /
Cesium-137	-0.19	U	0.38	pCi/g		0.387	0.664	/ X /
Cobalt-60	0.234	U	0.468	pCi/g		0.468	0.741	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	-0.23	U	0.46	pCi/g		0.811	1.36	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M213B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0655	U		PCI/G			0.0655	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.76	U		PCI/G			5.76	/ X /
Plutonium-240	21.1	U		PCI/G			21.1	/ X /
Plutonium-242	0.365	U		PCI/G			0.365	/ X /
Thorium-230	1.91	U		PCI/G			1.91	/ X /
Thorium-232	0.00016		3.2E-05	PCI/G			1E-05	/ X /
Uranium-233	0.895	U		PCI/G			0.895	/ X /
Uranium-234	0.578	U		PCI/G			0.578	/ X /
Uranium-235	0.00034		6.8E-05	PCI/G			0.0002	/ X /
Uranium-238	0.00213		0.00043	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.06	U	0.03	pCi/g		0.03	0.419	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	3.66		2.67	pCi/g		2.68	2.56	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	6.23	A	8.81	pCi/g		8.85	75.26	/ X /
Beta activity	-2.91	A	1.45	pCi/g		1.5	48.94	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	-0.0768	AT	0.147	pCi/g		0.304	0.659	/ X /
Plutonium-239/240	0.0538	AT	0.09	pCi/g		0.0973	0.139	/ X /
Thorium-228	0.0232	A	0.043	pCi/g		0.0674	0.19	/ X /
Thorium-230	-0.0133	A	0.154	pCi/g		0.191	0.359	/ X /
Thorium-232	0.00431	A	0.0898	pCi/g		0.105	0.231	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-1.59	U	3.18	pCi/g		3.18	2.57	/ X /
Cesium-134	-0.338	U	0.676	pCi/g	R	0.676	0.634	/ X /
Cesium-137	0.00872	U	0.0174	pCi/g		0.359	0.645	/ X /
Cobalt-60	0.122	U	0.244	pCi/g		0.326	0.642	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.0496	U	0.0993	pCi/g		0.838	1.43	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M214B	from STATIONS on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:			

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0643	U		PCI/G			0.0643	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.66	U		PCI/G			5.66	/ X /
Plutonium-240	20.7	U		PCI/G			20.7	/ X /
Plutonium-242	0.358	U		PCI/G			0.358	/ X /
Thorium-230	1.88	U		PCI/G			1.88	/ X /
Thorium-232	0.00009		1.8E-05	PCI/G			1E-05	/ X /
Uranium-233	0.879	U		PCI/G			0.879	/ X /
Uranium-234	0.568	U		PCI/G			0.568	/ X /
Uranium-235	0.00052		0.00010	PCI/G			0.0002	/ X /
Uranium-238	0.00369		0.00074	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0	U	0	pCi/g		0	4.36	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	1.08	U	3.77	pCi/g		3.77	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	-8.48	A	16.96	pCi/g		17	100.11	/ X /
Beta activity	1.63	A	0.71	pCi/g		0.74	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0469	A	0.0754	pCi/g		0.255	0.569	/ X /
Plutonium-239/240	0.0423	A	0.0378	pCi/g		0.0506	0.0882	/ X /
Thorium-228	0.0212	AT	0.0674	pCi/g		0.0834	0.194	/ X /
Thorium-230	0.773	T	0.241	pCi/g		0.304	0.347	/ X /
Thorium-232	0.0308	AT	0.0789	pCi/g		0.0967	0.206	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	0.777	U	1.55	pCi/g		1.55	1.84	/ X /
Cesium-134	-0.102	U	0.204	pCi/g	R	0.565	0.864	/ X /
Cesium-137	-0.252	U	0.504	pCi/g		0.524	0.888	/ X /
Cobalt-60	0.318	U	0.637	pCi/g		0.637	1.12	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	0.502	U	1	pCi/g		1	1.36	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M218B	from STATIONS on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:			

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0506	U		PCI/G			0.0506	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	4.45	U		PCI/G			4.45	/ X /
Plutonium-240	16.3	U		PCI/G			16.3	/ X /
Plutonium-242	0.282	U		PCI/G			0.282	/ X /
Thorium-230	1.48	U		PCI/G			1.48	/ X /
Thorium-232	0.00010		0.00002	PCI/G			8E-06	/ X /
Uranium-233	0.691	U		PCI/G			0.691	/ X /
Uranium-234	0.447	U		PCI/G			0.447	/ X /
Uranium-235	0.0009		0.00018	PCI/G			0.0002	/ X /
Uranium-238	0.00794		0.00159	PCI/G			2E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.15	U	0.07	pCi/g		0.08	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	12.7		3.22	pCi/g		3.28	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-8.13	A	4.2	pCi/g		4.31	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0507	A	0.0748	pCi/g		0.255	0.569	/ X /
Plutonium-239/240	0.0397	A	0.0319	pCi/g		0.0463	0.0867	/ X /
Thorium-228	-0.06	A	0.039	pCi/g		0.063	0.165	/ X /
Thorium-230	0.0154	A	0.0803	pCi/g		0.144	0.307	/ X /
Thorium-232	0.0149	A	0.0384	pCi/g		0.0676	0.165	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-0.0465	U	0.0931	pCi/g		1.06	1.79	/ X /
Cesium-134	-0.175	U	0.349	pCi/g	R	0.508	0.876	/ X /
Cesium-137	0.0298	U	0.0596	pCi/g		0.5	0.916	/ X /
Cobalt-60	0.0226	U	0.0453	pCi/g		0.668	1.24	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.522	U	1.04	pCi/g		1.04	1.26	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M22 from STATIONS on: Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0525	U		PCI/G			0.0525	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	4.62	U		PCI/G			4.62	/ X /
Plutonium-240	16.9	U		PCI/G			16.9	/ X /
Plutonium-242	0.292	U		PCI/G			0.292	/ X /
Thorium-230	1.53	U		PCI/G			1.53	/ X /
Thorium-232	6.3E-05		1.3E-05	PCI/G			8E-06	/ X /
Uranium-233	0.718	U		PCI/G			0.718	/ X /
Uranium-234	0.463	U		PCI/G			0.463	/ X /
Uranium-235	0.00064		0.00013	PCI/G			0.0002	/ X /
Uranium-238	0.00875		0.00175	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.11	U	0.06	pCi/g		0.06	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	0.872	U	0.847	pCi/g		0.848	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	0	A	0	pCi/g		0	100.11	/ X /
Beta activity	0	A	0	pCi/g		0	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0597	A	0.0754	pCi/g		0.256	0.569	/ X /
Plutonium-239/240	0.0654	A	0.0366	pCi/g		0.0501	0.0867	/ X /
Thorium-228	0.0358	A	0.0562	pCi/g		0.0747	0.179	/ X /
Thorium-230	-0.156	A	0.135	pCi/g		0.18	0.452	/ X /
Thorium-232	-0.0151	A	0.139	pCi/g		0.15	0.313	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	0.033	U	0.0661	pCi/g		1.04	1.77	/ X /
Cesium-134	0.0211	U	0.0421	pCi/g	R	0.472	0.761	/ X /
Cesium-137	0.0931	U	0.186	pCi/g		0.609	0.987	/ X /
Cobalt-60	-0.216	U	0.432	pCi/g		0.601	1.05	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.531	U	1.06	pCi/g		1.06	1.33	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M232B from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method:	ICPMS	Lab Test:	
Neptunium-237	0.0607	U		PCI/G			0.0607	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	6.06		1.21	PCI/G			5.36	/ X /
Plutonium-240	19.6	U		PCI/G			19.6	/ X /
Plutonium-242	0.338	U		PCI/G			0.338	/ X /
Thorium-230	1.93	U		PCI/G			1.93	/ X /
Thorium-232	9.3E-05		1.9E-05	PCI/G			1E-05	/ X /
Uranium-233	0.831	U		PCI/G			0.831	/ X /
Uranium-234	0.536	U		PCI/G			0.536	/ X /
Uranium-235	0.00106		0.00021	PCI/G			0.0002	/ X /
Uranium-238	0.00718		0.00144	PCI/G			3E-05	/ X /
				Lab: PGDP	Method:	IN7105	Lab Test:	IN7105
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method:	RL-7103	Lab Test:	RL-7103
Neptunium-237	0.13	U	0.07	pCi/g		0.07	0.436	/ X /
				Lab: PGDP	Method:	RL-7116	Lab Test:	RL-7116
Technetium-99	0.0984	U	0.14	pCi/g		0.14	2.64	/ X /
				Lab: PGDP	Method:	RL-7119	Lab Test:	RL-7119
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-8.13	A	4.2	pCi/g		4.31	57.23	/ X /
				Lab: PGDP	Method:	RL-7120	Lab Test:	RL-7120
Plutonium-238	0.0826	A	0.0838	pCi/g		0.259	0.57	/ X /
Plutonium-239/240	0.0285	A	0.0343	pCi/g		0.0478	0.0889	/ X /
Thorium-228	0.00672	AT	0.0979	pCi/g		0.109	0.238	/ X /
Thorium-230	1.14	T	0.301	pCi/g		0.384	0.357	/ X /
Thorium-232	0.0707	AT	0.103	pCi/g		0.118	0.205	/ X /
				Lab: PGDP	Method:	RL-7124	Lab Test:	RL-7124
Americium-241	0.0155	U	0.0309	pCi/g		1.05	1.8	/ X /
Cesium-134	-0.0657	U	0.132	pCi/g	R	0.466	0.828	/ X /
Cesium-137	0.0752	U	0.15	pCi/g		0.474	0.885	/ X /
Cobalt-60	0.14	U	0.28	pCi/g		0.596	1.16	/ X /
Mass of U-235	0	U	0	pCi/g		0	3E-08	/ X /
Neptunium-237	0.196	U	0.392	pCi/g		0.842	1.48	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

ESPEMS Project Assessment Report
Laboratory Data

PLING00-01

M272B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method:	ICPMS	Lab Test:	
Neptunium-237	0.0638	U		PCI/G			0.0638	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.61	U		PCI/G			5.61	/ X /
Plutonium-240	20.5	U		PCI/G			20.5	/ X /
Plutonium-242	0.355	U		PCI/G			0.355	/ X /
Thorium-230	1.87	U		PCI/G			1.87	/ X /
Thorium-232	2.6E-05		5.3E-06	PCI/G			1E-05	/ X /
Uranium-233	0.872	U		PCI/G			0.872	/ X /
Uranium-234	0.563	U		PCI/G			0.563	/ X /
Uranium-235	0.00086		0.00017	PCI/G			0.0002	/ X /
Uranium-238	0.00439		0.00088	PCI/G			3E-05	/ X /
				Lab: PGDP	Method:	IN7105	Lab Test:	IN7105
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method:	RL-7103	Lab Test:	RL-7103
Neptunium-237	0	U	0	pCi/g		0	0.436	/ X /
				Lab: PGDP	Method:	RL-7116	Lab Test:	RL-7116
Technetium-99	57.6		4.98	pCi/g		5.66	2.64	/ X /
				Lab: PGDP	Method:	RL-7119	Lab Test:	RL-7119
Alpha activity	-11.95	AX	23.9	pCi/g		23.95	100.11	/ X /
Beta activity	30.95	A	9.89	pCi/g		10.58	57.23	/ X /
				Lab: PGDP	Method:	RL-7120	Lab Test:	RL-7120
Plutonium-238	0.0286	A	0.0677	pCi/g		0.253	0.568	/ X /
Plutonium-239/240	0.0646	A	0.0369	pCi/g		0.0503	0.0858	/ X /
Thorium-228	-0.0107	A	0.0455	pCi/g		0.0668	0.179	/ X /
Thorium-230	0.193	A	0.112	pCi/g		0.167	0.427	/ X /
Thorium-232	0.03	A	0.0546	pCi/g		0.078	0.184	/ X /
				Lab: PGDP	Method:	RL-7124	Lab Test:	RL-7124
Americium-241	0.125	U	0.25	pCi/g		1.04	1.79	/ X /
Cesium-134	-0.171	U	0.341	pCi/g	R	0.502	0.867	/ X /
Cesium-137	0.0389	U	0.0778	pCi/g		0.478	0.79	/ X /
Cobalt-60	-0.0617	U	0.123	pCi/g		0.556	1.03	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	0.0496	U	0.0992	pCi/g		0.734	1.28	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0523	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0523	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M28	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0585	U		PCI/G			0.0585	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.15	U		PCI/G			5.15	/ X /
Plutonium-240	18.8	U		PCI/G			18.8	/ X /
Plutonium-242	0.326	U		PCI/G			0.326	/ X /
Thorium-230	1.71	U		PCI/G			1.71	/ X /
Thorium-232	0.00021		4.1E-05	PCI/G			9E-06	/ X /
Uranium-233	0.8	U		PCI/G			0.8	/ X /
Uranium-234	0.517	U		PCI/G			0.517	/ X /
Uranium-235	0.00098		0.0002	PCI/G			0.0002	/ X /
Uranium-238	0.00939		0.00188	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0	U	0	pCi/g		0	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0	U	0	pCi/g		0	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-0.89	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-13	A	7.51	pCi/g		7.67	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0439	A	0.0725	pCi/g		0.254	0.568	/ X /
Plutonium-239/240	0.0289	A	0.0313	pCi/g		0.0457	0.0865	/ X /
Thorium-228	-0.0245	A	0.073	pCi/g		0.0879	0.205	/ X /
Thorium-230	0.183	A	0.197	pCi/g		0.233	0.417	/ X /
Thorium-232	0.056	A	0.119	pCi/g		0.131	0.258	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.639	U	1.28	pCi/g		1.28	1.89	/ X /
Cesium-134	-0.139	U	0.279	pCi/g	R	0.51	0.773	/ X /
Cesium-137	0.503	U	1.01	pCi/g		1.01	1.01	/ X /
Cobalt-60	0.216	U	0.432	pCi/g		0.634	1.25	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.189	U	0.378	pCi/g		0.83	1.4	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M281B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0636	U		PCI/G			0.0636	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.59	U		PCI/G			5.59	/ X /
Plutonium-240	20.5	U		PCI/G			20.5	/ X /
Plutonium-242	0.345	U		PCI/G			0.345	/ X /
Thorium-230	1.86	U		PCI/G			1.86	/ X /
Thorium-232	0.00089		0.00018	PCI/G			1E-05	/ X /
Uranium-233	0.869	U		PCI/G			0.869	/ X /
Uranium-234	0.561	U		PCI/G			0.561	/ X /
Uranium-235	0.00928		0.00186	PCI/G			0.0002	/ X /
Uranium-238	0.22		0.044	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0	U	0	pCi/g		0	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	8.77		3.02	pCi/g		3.05	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	14.26	A	16.47	pCi/g		16.57	100.11	/ X /
Beta activity	19.51	A	6.9	pCi/g		7.29	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0811	A	0.075	pCi/g		0.256	0.568	/ X /
Plutonium-239/240	0.0356	A	0.0306	pCi/g		0.0453	0.0861	/ X /
Thorium-228	0.0148	A	0.0279	pCi/g		0.0564	0.167	/ X /
Thorium-230	0.351		0.178	pCi/g		0.222	0.35	/ X /
Thorium-232	-0.0091	A	0.0702	pCi/g		0.0896	0.21	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	0.488	U	0.975	pCi/g		1.07	1.77	/ X /
Cesium-134	-0.316	U	0.633	pCi/g	R	0.633	0.704	/ X /
Cesium-137	0.142	U	0.283	pCi/g		0.526	0.983	/ X /
Cobalt-60	-0.243	U	0.486	pCi/g		0.488	0.837	/ X /
Mass of U-235	0	U	0	g U-235/g		0	0.916	/ X /
Neptunium-237	0.715	U	1.43	pCi/g		1.43	1.56	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M286A	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method:	ICPMS	Lab Test:	
Neptunium-237	0.0634	U		PCI/G			0.0634	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	7.53		1.51	PCI/G			5.58	/ X /
Plutonium-240	20.4	U		PCI/G			20.4	/ X /
Plutonium-242	0.353	U		PCI/G			0.353	/ X /
Thorium-230	1.85	U		PCI/G			1.85	/ X /
Thorium-232	4.2E-05		8.5E-06	PCI/G			1E-05	/ X /
Uranium-233	0.867	U		PCI/G			0.867	/ X /
Uranium-234	0.56	U		PCI/G			0.56	/ X /
Uranium-235	0.00124		0.00025	PCI/G			0.0002	/ X /
Uranium-238	0.0136		0.0027	PCI/G			3E-05	/ X /
				Lab: PGDP	Method:	IN7105	Lab Test:	IN7105
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method:	RL-7103	Lab Test:	RL-7103
Neptunium-237	0.13	U	0.07	pCi/g		0.07	0.436	/ X /
				Lab: PGDP	Method:	RL-7116	Lab Test:	RL-7116
Technetium-99	4.01		2.87	pCi/g		2.87	2.64	/ X /
				Lab: PGDP	Method:	RL-7119	Lab Test:	RL-7119
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	0	A	0	pCi/g		0	57.23	/ X /
				Lab: PGDP	Method:	RL-7120	Lab Test:	RL-7120
Plutonium-238	0.078	A	0.112	pCi/g		0.27	0.579	/ X /
Plutonium-239/240	0.0249	A	0.0528	pCi/g		0.0625	0.105	/ X /
Thorium-228	0.0343	A	0.0716	pCi/g		0.0869	0.184	/ X /
Thorium-230	-0.0509	A	0.0698	pCi/g		0.138	0.314	/ X /
Thorium-232	0.0328	A	0.0591	pCi/g		0.0813	0.186	/ X /
				Lab: PGDP	Method:	RL-7124	Lab Test:	RL-7124
Americium-241	0.222	U	0.444	pCi/g		1.06	1.84	/ X /
Cesium-134	-0.315	U	0.631	pCi/g	R	0.631	0.772	/ X /
Cesium-137	-0.551	U	1.1	pCi/g		1.1	0.77	/ X /
Cobalt-60	0.123	U	0.247	pCi/g		0.513	1.03	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.134	U	0.268	pCi/g		0.77	1.31	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M290A	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0687	U		PCI/G			0.0687	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	6.05	U		PCI/G			6.05	/ X /
Plutonium-240	22.1	U		PCI/G			22.1	/ X /
Plutonium-242	0.383	U		PCI/G			0.383	/ X /
Thorium-230	2.01	U		PCI/G			2.01	/ X /
Thorium-232	0.00016		3.1E-05	PCI/G			1E-05	/ X /
Uranium-233	0.94	U		PCI/G			0.94	/ X /
Uranium-234	0.607	U		PCI/G			0.607	/ X /
Uranium-235	0.0017		0.00034	PCI/G			0.0002	/ X /
Uranium-238	0.031		0.0062	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.11	U	0.06	pCi/g		0.06	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0.562	U	2.55	pCi/g		2.55	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	0	A	0	pCi/g		0	100.11	/ X /
Beta activity	-16.26	A	10.28	pCi/g		10.47	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0844	A	0.0767	pCi/g		0.256	0.568	/ X /
Plutonium-239/240	0.0326	A	0.0293	pCi/g		0.0445	0.0862	/ X /
Thorium-228	0.0158	A	0.0374	pCi/g		0.0616	0.141	/ X /
Thorium-230	0.0672	A	0.0693	pCi/g		0.139	0.304	/ X /
Thorium-232	-0.0012	A	0.0275	pCi/g		0.062	0.16	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-1.1	U	2.19	pCi/g		2.19	1.76	/ X /
Cesium-134	-0.146	U	0.292	pCi/g	R	0.464	0.808	/ X /
Cesium-137	-0.344	U	0.689	pCi/g		0.689	0.948	/ X /
Cobalt-60	-0.339	U	0.677	pCi/g		0.677	0.862	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.545	U	1.09	pCi/g		1.09	1.29	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M295B from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0569	U		PCI/G			0.0569	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5	U		PCI/G			5	/ X /
Plutonium-240	18.3	U		PCI/G			18.3	/ X /
Plutonium-242	0.317	U		PCI/G			0.317	/ X /
Thorium-230	1.66	U		PCI/G			1.66	/ X /
Thorium-232	0.00008		1.6E-05	PCI/G			9E-06	/ X /
Uranium-233	0.778	U		PCI/G			0.778	/ X /
Uranium-234	0.502	U		PCI/G			0.502	/ X /
Uranium-235	0.00063		0.00013	PCI/G			0.0002	/ X /
Uranium-238	0.0101		0.002	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.02	U	0.01	pCi/g		0.1	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0.689	U	4.38	pCi/g		4.38	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	7.9	A	11.17	pCi/g		11.22	100.11	/ X /
Beta activity	3.25	A	1.39	pCi/g		1.44	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.122	A	0.0835	pCi/g		0.259	0.569	/ X /
Plutonium-239/240	0.0871	A	0.042	pCi/g		0.0546	0.0875	/ X /
Thorium-228	-0.0169	A	0.0169	pCi/g		0.0518	0.151	/ X /
Thorium-230	0.0347	A	0.0743	pCi/g		0.141	0.308	/ X /
Thorium-232	0.00331	A	0.0424	pCi/g		0.0786	0.164	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.89	U	1.78	pCi/g		1.78	1.86	/ X /
Cesium-134	-0.353	U	0.706	pCi/g	R	0.706	0.7	/ X /
Cesium-137	-0.238	U	0.476	pCi/g		0.505	0.0858	/ X /
Cobalt-60	0.336	U	0.672	pCi/g		0.672	1.31	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.288	U	0.577	pCi/g		0.748	1.25	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M297B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0651	U		PCI/G			0.0651	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.73	U		PCI/G			5.73	/ X /
Plutonium-240	21	U		PCI/G			21	/ X /
Plutonium-242	0.363	U		PCI/G			0.363	/ X /
Thorium-230	1.91	U		PCI/G			1.91	/ X /
Thorium-232	7.4E-05		1.5E-05	PCI/G			1E-05	/ X /
Uranium-233	0.891	U		PCI/G			0.891	/ X /
Uranium-234	0.575	U		PCI/G			0.575	/ X /
Uranium-235	0.00061		0.00012	PCI/G			0.0002	/ X /
Uranium-238	0.00885		0.00177	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	-0.06	U	0.05	pCi/g		0.05	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	0.337	U	0.733	pCi/g		0.734	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-3.25	A	1.53	pCi/g		1.58	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0139	A	0.0756	pCi/g		0.255	0.57	/ X /
Plutonium-239/240	0.0533	A	0.0387	pCi/g		0.0515	0.088	/ X /
Thorium-228	-0.025	A	0.0231	pCi/g		0.0542	0.152	/ X /
Thorium-230	0.152	A	0.106	pCi/g		0.162	0.315	/ X /
Thorium-232	-0.02	A	0.023	pCi/g		0.0603	0.176	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-0.417	U	0.834	pCi/g		1.02	1.68	/ X /
Cesium-134	-0.0376	U	0.0752	pCi/g	R	0.484	0.864	/ X /
Cesium-137	0.011	U	0.22	pCi/g		0.604	1.08	/ X /
Cobalt-60	0.119	U	0.237	pCi/g		0.451	0.935	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	-0.468	U	0.937	pCi/g		0.937	1.24	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M299B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0653	U		PCI/G			0.0653	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.75	U		PCI/G			5.75	/ X /
Plutonium-240	21	U		PCI/G			21	/ X /
Plutonium-242	0.364	U		PCI/G			0.364	/ X /
Thorium-230	1.91	U		PCI/G			1.91	/ X /
Thorium-232	0.00012		2.3E-05	PCI/G			1E-05	/ X /
Uranium-233	0.893	U		PCI/G			0.893	/ X /
Uranium-234	0.577	U		PCI/G			0.577	/ X /
Uranium-235	0.00159		0.00032	PCI/G			0.0002	/ X /
Uranium-238	0.0302		0.006	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.09	U	0.05	pCi/g		0.05	0.436	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	2.14	U	2.82	pCi/g		2.82	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	0	A	0	pCi/g		0	100.11	/ X /
Beta activity	-16.26	A	7.46	pCi/g		7.72	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0718	A	0.0764	pCi/g		0.256	0.569	/ X /
Plutonium-239/240	0.0252	A	0.0284	pCi/g		0.0437	0.0864	/ X /
Thorium-228	0.031	A	0.0415	pCi/g		0.0644	0.191	/ X /
Thorium-230	0.212	A	0.122	pCi/g		0.176	0.327	/ X /
Thorium-232	-0.0139	A	0.0383	pCi/g		0.0676	0.182	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-0.691	U	1.38	pCi/g		1.6	2.61	/ X /
Cesium-134	0.0745	U	0.149	pCi/g	R	0.362	0.651	/ X /
Cesium-137	0.112	U	0.224	pCi/g		0.371	0.679	/ X /
Cobalt-60	-0.133	U	0.267	pCi/g		0.366	0.652	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.361	U	0.721	pCi/g		0.805	1.4	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M304B	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0845	U		PCI/G			0.0845	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	7.44	U		PCI/G			7.44	/ X /
Plutonium-240	27.2	U		PCI/G			27.2	/ X /
Plutonium-242	0.471	U		PCI/G			0.471	/ X /
Thorium-230	2.47	U		PCI/G			2.47	/ X /
Thorium-232	7.1E-05		1.4E-05	PCI/G			1E-05	/ X /
Uranium-233	1.16	U		PCI/G			1.16	/ X /
Uranium-234	0.747	U		PCI/G			0.747	/ X /
Uranium-235	0.00111		0.00022	PCI/G			0.0003	/ X /
Uranium-238	0.0183		0.0037	PCI/G			4E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.19	U	0.09	pCi/g		0.1	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0.183	U	0.396	pCi/g		0.396	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	16.57	A	19.14	pCi/g		19.26	100.11	/ X /
Beta activity	-6.5	A	3.25	pCi/g		3.35	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0643	A	0.0734	pCi/g		0.255	0.568	/ X /
Plutonium-239/240	0.0478	A	0.0316	pCi/g		0.0462	0.0854	/ X /
Thorium-228	0.0132	AT	0.0451	pCi/g		0.0666	0.195	/ X /
Thorium-230	0.0547	AT	0.131	pCi/g		0.178	0.379	/ X /
Thorium-232	-0.0085	AT	0.0671	pCi/g		0.0872	0.213	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.0277	U	0.0555	pCi/g		1.61	2.66	/ X /
Cesium-134	-0.0211	U	0.0422	pCi/g	R	0.388	0.601	/ X /
Cesium-137	-0.126	U	0.252	pCi/g		0.379	0.66	/ X /
Cobalt-60	0.139	U	0.278	pCi/g		0.307	0.616	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.284	U	0.567	pCi/g		0.809	1.4	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

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M307A from STATIONS on Media: NA SmpMethod: GR SampleType: REG

Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.0883	U		PCI/G			0.0883	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	7.77	U		PCI/G			7.77	/ X /
Plutonium-240	28.4	U		PCI/G			28.4	/ X /
Plutonium-242	0.492	U		PCI/G			0.492	/ X /
Thorium-230	2.58	U		PCI/G			2.58	/ X /
Thorium-232	7.2E-05		1.4E-05	PCI/G			1E-05	/ X /
Uranium-233	1.21	U		PCI/G			1.21	/ X /
Uranium-234	0.78	U		PCI/G			0.78	/ X /
Uranium-235	0.00067		0.00013	PCI/G			0.0003	/ X /
Uranium-238	0.0112		0.0022	PCI/G			4E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	-0.02	U	0.01	pCi/g		0.01	0.419	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	2.44	U	2.56	pCi/g		2.57	2.56	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	12.12	A	14	pCi/g		14.09	75.26	/ X /
Beta activity	4.36	A	1.9	pCi/g		1.98	48.94	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	0.0206	AT	0.174	pCi/g		0.321	0.663	/ X /
Plutonium-239/240	-0.0442	AT	0.0194	pCi/g		0.0394	0.144	/ X /
Thorium-228	-0.0597	A	0.035	pCi/g		0.0628	0.169	/ X /
Thorium-230	-0.053	A	0.0558	pCi/g		0.126	0.298	/ X /
Thorium-232	0.0142	A	0.0348	pCi/g		0.0653	0.167	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-0.207	U	0.414	pCi/g		1.62	2.66	/ X /
Cesium-134	-0.709	U	1.42	pCi/g	R	1.42	0.559	/ X /
Cesium-137	-0.13	U	0.259	pCi/g		0.381	0.663	/ X /
Cobalt-60	0.138	U	0.276	pCi/g		0.314	0.627	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	-0.383	U	0.766	pCi/g		0.798	1.33	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M310B from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0666	U		PCI/G			0.0666	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.86	U		PCI/G			5.86	/ X /
Plutonium-240	21.4	U		PCI/G			21.4	/ X /
Plutonium-242	0.371	U		PCI/G			0.371	/ X /
Thorium-230	1.95	U		PCI/G			1.95	/ X /
Thorium-232	0.0118		0.0024	PCI/G			1E-05	/ X /
Uranium-233	0.911	U	[illegible]	PCI/G			0.911	/ X /
Uranium-234	0.588	U		PCI/G			0.588	/ X /
Uranium-235	0.00056		0.00011	PCI/G			0.0002	/ X /
Uranium-238	0.00903		0.00181	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	-0.02	U	0.02	pCi/g		0.02	0.436	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	0.893	U	2.66	pCi/g		2.66	2.64	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-8.13	A	4.2	pCi/g		4.31	57.23	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0872	A	0.0859	pCi/g		0.26	0.571	/ X /
Plutonium-239/240	0.035	A	0.0366	pCi/g		0.0497	0.0897	/ X /
Thorium-228	-0.033	A	0.0546	pCi/g		0.0734	0.18	/ X /
Thorium-230	0.131	A	0.119	pCi/g		0.17	0.337	/ X /
Thorium-232	-0.028	A	0.0545	pCi/g		0.078	0.187	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	0.389	U	0.777	pCi/g		1.77	2.63	/ X /
Cesium-134	-0.468	U	0.936	pCi/g	R	0.936	0.574	/ X /
Cesium-137	-0.0874	U	0.175	pCi/g		0.392	0.688	/ X /
Cobalt-60	0.0825	U	0.165	pCi/g		0.365	0.697	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	-0.291	U	0.581	pCi/g		0.804	1.35	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M32	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method: ICPMS		Lab Test:	
Neptunium-237	0.062	U		PCI/G			0.062	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.46	U		PCI/G			5.46	/ X /
Plutonium-240	20	U		PCI/G			20	/ X /
Plutonium-242	0.345	U		PCI/G			0.345	/ X /
Thorium-230	1.81	U		PCI/G			1.81	/ X /
Thorium-232	4.6E-05		9.1E-06	PCI/G			1E-05	/ X /
Uranium-233	0.848	U		PCI/G			0.848	/ X /
Uranium-234	0.548	U		PCI/G			0.548	/ X /
Uranium-235	0.00076		0.00015	PCI/G			0.0002	/ X /
Uranium-238	0.0104		0.0021	PCI/G			3E-05	/ X /
				Lab: PGDP	Method: IN7105		Lab Test: IN7105	
Uranium	3	*NU		mg/kg			3	/ X /
				Lab: PGDP	Method: RL-7103		Lab Test: RL-7103	
Neptunium-237	0.21	U	0.1	pCi/g		0.1	0.423	/ X /
				Lab: PGDP	Method: RL-7116		Lab Test: RL-7116	
Technetium-99	0.879	U	7.13	pCi/g		7.13	2.64	/ X /
				Lab: PGDP	Method: RL-7119		Lab Test: RL-7119	
Alpha activity	-8.29	A	16.57	pCi/g		16.61	100.11	/ X /
Beta activity	-17.88	A	11.92	pCi/g		12.12	57.23	/ X /
				Lab: PGDP	Method: RL-7120		Lab Test: RL-7120	
Plutonium-238	-0.01	A	0.0726	pCi/g		0.254	0.57	/ X /
Plutonium-239/240	0.0093	A	0.0272	pCi/g		0.0428	0.0875	/ X /
Thorium-228	-0.0153	A	0.0549	pCi/g		0.0736	0.156	/ X /
Thorium-230	0.0805	A	0.13	pCi/g		0.177	0.32	/ X /
Thorium-232	-0.0219	A	0.0634	pCi/g		0.0844	0.199	/ X /
				Lab: PGDP	Method: RL-7124		Lab Test: RL-7124	
Americium-241	-0.607	U	1.22	pCi/g		1.22	1.76	/ X /
Cesium-134	-0.233	U	0.466	pCi/g	R	0.474	0.806	/ X /
Cesium-137	-0.243	U	0.487	pCi/g		0.504	0.855	/ X /
Cobalt-60	0.367	U	0.734	pCi/g		0.734	1.07	/ X /
Mass of U-235	0	U	0	g U-235/g		0	3E-08	/ X /
Neptunium-237	0.299	U	0.598	pCi/g		0.83	1.48	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0543	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0543	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

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M58	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.066	U		PCI/G			0.066	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.81	U		PCI/G			5.81	/ X /
Plutonium-240	21.3	U		PCI/G			21.3	/ X /
Plutonium-242	0.368	U		PCI/G			0.368	/ X /
Thorium-230	1.93	U		PCI/G			1.93	/ X /
Thorium-232	9.1E-05		1.8E-05	PCI/G			1E-05	/ X /
Uranium-233	0.903	U		PCI/G			0.903	/ X /
Uranium-234	0.583	U		PCI/G			0.583	/ X /
Uranium-235	0.00071		0.00014	PCI/G			0.0002	/ X /
Uranium-238	0.0123		0.0025	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.12	U	0.06	pCi/g		0.06	0.419	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	2.92		2.83	pCi/g		2.83	2.56	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	12.46	A	14.39	pCi/g		14.48	75.26	/ X /
Beta activity	-1.45	A	0.7	pCi/g		0.73	48.94	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0251	AT	0.188	pCi/g		0.329	0.667	/ X /
Plutonium-239/240	-0.0042	AT	0.0604	pCi/g		0.0696	0.148	/ X /
Thorium-228	0.0243	A	0.055	pCi/g		0.0756	0.164	/ X /
Thorium-230	0.0738	A	0.0901	pCi/g		0.146	0.308	/ X /
Thorium-232	-0.0158	A	0.0356	pCi/g		0.0657	0.178	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-0.486	U	0.973	pCi/g		1.64	2.68	/ X /
Cesium-134	-0.387	U	0.775	pCi/g	R	0.775	0.678	/ X /
Cesium-137	0.115	U	0.231	pCi/g		0.394	0.718	/ X /
Cobalt-60	0.336	U	0.671	pCi/g		0.671	0.798	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	-0.235	U	0.469	pCi/g		0.809	1.36	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

M7 from STATIONS on Media: NA SmpMethod: GR SampleType: REG
Comments:

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.0632	U		PCI/G			0.0632	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.56	U		PCI/G			5.56	/ X /
Plutonium-240	20.3	U		PCI/G			20.3	/ X /
Plutonium-242	0.352	U		PCI/G			0.352	/ X /
Thorium-230	1.85	U		PCI/G			1.85	/ X /
Thorium-232	6.7E-05		1.4E-05	PCI/G			1E-05	/ X /
Uranium-233	0.864	U		PCI/G			0.864	/ X /
Uranium-234	0.558	U		PCI/G			0.558	/ X /
Uranium-235	0.00021		4.2E-05	PCI/G			0.0002	/ X /
Uranium-238	0.0031		0.00062	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	-0.02	U	0.01	pCi/g		0.01	0.419	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	3.07		3.54	pCi/g		3.54	2.56	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	30.47	A	24.88	pCi/g		25.2	75.26	/ X /
Beta activity	8.72	A	3.56	pCi/g		3.71	48.94	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0852	AT	0.186	pCi/g		0.33	0.661	/ X /
Plutonium-239/240	-0.0065	AT	0.0846	pCi/g		0.0914	0.155	/ X /
Thorium-228	0.00161	A	0.0733	pCi/g		0.0897	0.21	/ X /
Thorium-230	-0.0409	A	0.0834	pCi/g		0.14	0.318	/ X /
Thorium-232	-0.0298	A	0.0307	pCi/g		0.0634	0.205	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-1.47	U	2.95	pCi/g		2.95	2.52	/ X /
Cesium-134	-0.431	U	0.861	pCi/g	R	0.861	0.642	/ X /
Cesium-137	-0.195	U	0.389	pCi/g		0.406	0.697	/ X /
Cobalt-60	-0.297	U	0.594	pCi/g		0.594	0.63	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.0438	U	0.0876	pCi/g		0.797	1.36	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235	0	U	0	pCi/g		0		/ X /
Uranium-235				wt %	A			/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

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P1061	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL Method: ICPMS Lab Test:				
Neptunium-237	0.163		0.033	PCI/G			0.0593	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.22	U		PCI/G			5.22	/ X /
Plutonium-240	19.1	U		PCI/G			19.1	/ X /
Plutonium-242	0.33	U		PCI/G			0.33	/ X /
Technetium-99	23500		2400	PCI/G			2290	/ X /
Thorium-230	1.73	U		PCI/G			1.73	/ X /
Thorium-232	0.00013		2.5E-05	PCI/G			9E-06	/ X /
Uranium-233	0.811	U		PCI/G			0.811	/ X /
Uranium-234	0.524	U		PCI/G			0.524	/ X /
Uranium-235	0.0154		0.0031	PCI/G			0.0002	/ X /
Uranium-238	0.537		0.107	PCI/G			3E-05	/ X /
				Lab: PGDP Method: IN7105 Lab Test: IN7105				
Uranium	3	*N		mg/kg			3	/ X /
				Lab: PGDP Method: RL-7103 Lab Test: RL-7103				
Neptunium-237	0.23	U	0.1	pCi/g		0.1	0.419	/ X /
				Lab: PGDP Method: RL-7116 Lab Test: RL-7116				
Technetium-99	18300		78.5	pCi/g		855	2.56	/ X /
				Lab: PGDP Method: RL-7119 Lab Test: RL-7119				
Alpha activity	-49.4	AX	8.5	pCi/g		10.7	75.26	/ X /
Beta activity	11388.1		257.37	pCi/g		1410.2	48.94	/ X /
				Lab: PGDP Method: RL-7120 Lab Test: RL-7120				
Plutonium-238	0.0904	A	0.151	pCi/g		0.31	0.643	/ X /
Plutonium-239/240	0.0328	A	0.0611	pCi/g		0.0707	0.119	/ X /
Thorium-228	0.0225	A	0.0349	pCi/g		0.0624	0.146	/ X /
Thorium-230	0.0157	A	0.0566	pCi/g		0.127	0.286	/ X /
Thorium-232	-0.0143	A	0.0223	pCi/g		0.0595	0.153	/ X /
				Lab: PGDP Method: RL-7124 Lab Test: RL-7124				
Americium-241	-1.98	U	3.95	pCi/g		3.95	2.98	/ X /
Cesium-134	-0.111	U	0.221	pCi/g	R	0.373	0.65	/ X /
Cesium-137	0.159	U	0.319	pCi/g		0.365	0.675	/ X /
Cobalt-60	0.216	U	0.432	pCi/g		0.432	0.664	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.936	U	1.87	pCi/g		1.87	1.5	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment

P1068	from STATIONS	on	Media: NA	SmpMethod: GR	SampleType: REG
	Comments:				

	Results	Qual	+/-	Units	FootNote	TPU	Detection Limit	V/V/A*
				Lab: ORNL	Method:	ICPMS	Lab Test:	
Neptunium-237	0.163		0.033	PCI/G			0.0592	/ X /
Plutonium-238	1	U		PCI/G			1	/ X /
Plutonium-239	5.21	U		PCI/G			5.21	/ X /
Plutonium-240	19.1	U		PCI/G			19.1	/ X /
Plutonium-242	0.33	U		PCI/G			0.33	/ X /
Technetium-99	20800		2100	PCI/G			2290	/ X /
Thorium-230	1.73	U		PCI/G			1.73	/ X /
Thorium-232	8.2E-05		1.7E-05	PCI/G			9E-06	/ X /
Uranium-233	0.81	U		PCI/G			0.81	/ X /
Uranium-234	0.523	U		PCI/G			0.523	/ X /
Uranium-235	0.0108		0.0022	PCI/G			0.0002	/ X /
Uranium-238	0.323		0.065	PCI/G			3E-05	/ X /
				Lab: PGDP	Method:	IN7105	Lab Test:	IN7105
Uranium	3	U		mg/kg			3	/ X /
				Lab: PGDP	Method:	RL-7103	Lab Test:	RL-7103
Neptunium-237	0.19	U	0.08	pCi/g		0.09	0.419	/ X /
				Lab: PGDP	Method:	RL-7116	Lab Test:	RL-7116
Technetium-99	14600		70.3	pCi/g		686	2.56	/ X /
				Lab: PGDP	Method:	RL-7119	Lab Test:	RL-7119
Alpha activity	4.6	A	0.91	pCi/g		1.1	75.26	/ X /
Beta activity	7964.57		215.04	pCi/g		993.26	48.94	/ X /
				Lab: PGDP	Method:	RL-7120	Lab Test:	RL-7120
Plutonium-238	0.0663	A	0.124	pCi/g		0.296	0.634	/ X /
Plutonium-239/240	0.0489	A	0.0601	pCi/g		0.07	0.106	/ X /
Thorium-228	-0.0168	A	0.0111	pCi/g		0.0528	0.14	/ X /
Thorium-230	0.00208	A	0.049	pCi/g		0.123	0.283	/ X /
Thorium-232	-0.0127	A	0.011	pCi/g		0.0563	0.151	/ X /
				Lab: PGDP	Method:	RL-7124	Lab Test:	RL-7124
Americium-241	-2.35	U	4.71	pCi/g		4.71	2.91	/ X /
Cesium-134	-0.314	U	0.629	pCi/g	R	0.629	0.634	/ X /
Cesium-137	0.573	U	1.15	pCi/g		1.15	0.775	/ X /
Cobalt-60	0.312	U	0.625	pCi/g		0.625	0.686	/ X /
Mass of U-235	0	U	0	g U-235/g		0	1E-08	/ X /
Neptunium-237	0.67	U	1.34	pCi/g		1.34	1.52	/ X /
Uranium		U		pCi/g	AQ			/ X /
Uranium-234		U		pCi/g	AQ			/ X /
Uranium-235				wt %	A		0.0252	/ X /
Uranium-235	0	U	0	pCi/g		0	0.0252	/ X /
Uranium-238		U		pCi/g	Q			/ X /

*Verification/Validation/Assessment