Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.B.R.1.2	405235001	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	13.1	3.68	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0104	0.258	14952-40-0	PCI/G	HUh	0.498		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0138	0.0417	14596-10-2	PCI/G	HUh	0.117	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0487	0.122	14234-35-6	PCI/G	HUh	0.219		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	19.7	2.86	12587-47-2	PCI/G	Hh	3.33	10.0	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.761	14913-49-6	PCI/G	HUlh	1.46		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.03	0.229	14733-03-0	PCI/G	Hh	0.135		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.321	0.636	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.562	0.104	10045-97-3	PCI/G	Hh	0.0892	0.100	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0365	0.0504	10198-40-0	PCI/G	HUh	0.0729		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.133	OER-100-93	PCI/G	Hh	0.199	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0101	0.0563		PCI/G	HUh	0.108	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0442		PCI/G	Hh	0.0658	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0457	0.126	15585-10-1	PCI/G	HUh	0.257		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	-0.016	0.176	15046-84-1	PCI/G	HUh	0.372	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.20	0.144	15092-94-1	PCI/G	Hh	0.107		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.22	0.220	15067-28-4	PCI/G	Hh	0.146		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0857	0.259	13994-20-2	PCI/G	HUh	0.727	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0364	0.0647	13981-16-3	PCI/G	Hh	0.105	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00621	0.0429	OER-100-70	PCI/G	HUh	0.104	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-4.14	7.71	14119-32-5	PCI/G	HUh	13.5	15.0	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	16.9	1.81	13966-00-2	PCI/G	Hh	0.592		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0574	0.533	14331-85-2	PCI/G	HUh	1.02		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.03	0.229	13982-63-3	PCI/G	Hh	0.135		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.04	0.294	15262-20-1	PCI/G	Hh	0.256		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.296	0.340	10098-97-2	PCI/G	HUh	0.779	2.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.43	1.28	14133-76-7	PCI/G	HUh	2.37	5.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.422	0.0952	14913-50-9	PCI/G	Hh	0.0725		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-228	R	DOE EML HA	2.13	1.25	14274-82-9	PCI/G	Hh	1.06	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-229	R	DOE EML HA	0.301	0.488	15594-54-4	PCI/G	Hh	0.691	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-230	R	DOE EML HA	1.46	0.868	14269-63-7	PCI/G	Hh	0.529	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-232	R	DOE EML HA	0.962	0.721	7440-29-1	PCI/G	Hh	0.527	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.103		PCI/G	HUlh	0.202		1.00	19.4
4.1.B.R.1.2	405235001	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	0.0866	1.90	10028-17-8	PCI/G	HUh	3.30	6.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0134	0.0454	14158-29-3	PCI/G	HUh	0.118	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.798	0.232	13968-55-3/1	PCI/G	Hh	0.128	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0583	0.0739	15117-96-1/1	PCI/G	Hh	0.0918	1.00	1.00	19.4
4.1.B.R.1.2	405235001	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.00	0.255	7440-61-1	PCI/G	Hh	0.0792	1.00	1.00	19.4
4.1.B.R.1.3	405235002	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	32.3	7.65	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0188	0.238	14952-40-0	PCI/G	HUh	0.428		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00606	0.0634	14596-10-2	PCI/G	HUh	0.132	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0438	0.115	14234-35-6	PCI/G	HUh	0.212		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	20.1	3.65	12587-47-2	PCI/G	Hh	2.74	10.0	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.812	14913-49-6	PCI/G	HUlh	1.33		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.915	0.178	14733-03-0	PCI/G	Hh	0.0819		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.024	0.636	14762-75-5	PCI/G	HUh	1.10	2.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0883	10045-97-3	PCI/G	HUlh	0.0595	0.100	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0144	0.0498	10198-40-0	PCI/G	HUh	0.0911		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.151	OER-100-93	PCI/G	Hh	0.224	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0114	0.0635		PCI/G	HUh	0.122	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0188	0.0706		PCI/G	HUh	0.119	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0466	0.120	15585-10-1	PCI/G	HUh	0.256		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.109	0.278	15046-84-1	PCI/G	HUh	0.598	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.45	0.143	15092-94-1	PCI/G	Hh	0.0964		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.12	0.207	15067-28-4	PCI/G	Hh	0.116		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0214	0.184	13994-20-2	PCI/G	HUh	0.427	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0194	0.0533	13981-16-3	PCI/G	HUh	0.0924	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00661	0.0457	OER-100-70	PCI/G	HUh	0.111	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-9.2	7.64	14119-32-5	PCI/G	HUh	13.7	15.0	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	17.8	1.78	13966-00-2	PCI/G	Hh	0.667		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.777	14331-85-2	PCI/G	HUlh	0.803		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.915	0.178	13982-63-3	PCI/G	Hh	0.0819		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.30	0.343	15262-20-1	PCI/G	Hh	0.207		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Strontium-90	R	EPA 905.0 M	-0.462	0.472	10098-97-2	PCI/G	HUh	0.991	2.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.822	1.21	14133-76-7	PCI/G	HUh	2.19	5.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.249	0.0673	14913-50-9	PCI/G	Hh	0.0645		1.00	22.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.B.R.1.3	405235002	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.89	0.555	14274-82-9	PCI/G	Hh	0.432	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.178	0.170	15594-54-4	PCI/G	Hh	0.218	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.969	0.334	14269-63-7	PCI/G	Hh	0.218	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	1.23	0.363	7440-29-1	PCI/G	Hh	0.0817	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.126		PCI/G	HUIh	0.118		1.00	22.4
4.1.B.R.1.3	405235002	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	1.12	1.97	10028-17-8	PCI/G	HUh	3.36	6.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0524	0.0754	14158-29-3	PCI/G	Hh	0.091	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.13	0.257	13968-55-3/1	PCI/G	Hh	0.097	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0337	0.0595	15117-96-1/1	PCI/G	Hh	0.0902	1.00	1.00	22.4
4.1.B.R.1.3	405235002	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.17	0.262	7440-61-1	PCI/G	Hh	0.103	1.00	1.00	22.4
4.1.B.R.1.4	405235003	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	12.3	3.18	12587-46-1	PCI/G	Hh	3.97	4.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0619	0.261	14952-40-0	PCI/G	HUh	0.517		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0141	0.0625	14596-10-2	PCI/G	HUh	0.163	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0547	0.118	14234-35-6	PCI/G	HUh	0.212		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	21.7	2.16	12587-47-2	PCI/G	Hh	2.24	10.0	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.18	1.20	14913-49-6	PCI/G	Hh	1.01		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.730	0.212	14733-03-0	PCI/G	Hh	0.173		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.31	0.650	14762-75-5	PCI/G	HUh	1.14	2.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00714	0.0487	10045-97-3	PCI/G	HUh	0.0919	0.100	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00486	0.0565	10198-40-0	PCI/G	HUh	0.111		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.205	OER-100-93	PCI/G	Hh	0.305	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0143	0.0634		PCI/G	HUh	0.165	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0673	0.115		PCI/G	Hh	0.101	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0771	0.149	15585-10-1	PCI/G	HUh	0.261		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.238	0.233	15046-84-1	PCI/G	HUh	0.714	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.22	0.151	15092-94-1	PCI/G	Hh	0.110		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.01	0.246	15067-28-4	PCI/G	Hh	0.160		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.00	0.354	13994-20-2	PCI/G	Hh	0.526	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.000753	0.0558	13981-16-3	PCI/G	HUh	0.124	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.000748	0.0555	OER-100-70	PCI/G	HUh	0.123	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	0.249	6.97	14119-32-5	PCI/G	HUh	11.9	15.0	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.5	1.70	13966-00-2	PCI/G	Hh	0.817		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.595	14331-85-2	PCI/G	HUIh	1.26		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.730	0.212	13982-63-3	PCI/G	Hh	0.173		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.987	0.335	15262-20-1	PCI/G	Hh	0.311		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.424	0.636	10098-97-2	PCI/G	HUh	1.30	2.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.375	1.05	14133-76-7	PCI/G	HUh	1.87	5.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.394	0.103	14913-50-9	PCI/G	Hh	0.0656		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.51	0.530	14274-82-9	PCI/G	Hh	0.441	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0762	0.148	15594-54-4	PCI/G	Hh	0.244	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.733	0.344	14269-63-7	PCI/G	Hh	0.369	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	1.25	0.396	7440-29-1	PCI/G	Hh	0.215	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.196		PCI/G	HUIh	0.190		1.00	17.4
4.1.B.R.1.4	405235003	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	-0.534	1.89	10028-17-8	PCI/G	HUh	3.32	6.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.00505	0.0759	14158-29-3	PCI/G	HUh	0.177	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.03	0.255	13968-55-3/1	PCI/G	Hh	0.0978	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0488	0.0724	15117-96-1/1	PCI/G	Hh	0.106	1.00	1.00	17.4
4.1.B.R.1.4	405235003	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.845	0.231	7440-61-1	PCI/G	Hh	0.0768	1.00	1.00	17.4
4.1.B.R.7.2	405235004	GEL	1597816	1203625449	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	20.6	3.58	12587-46-1	PCI/G	Hh	3.98	4.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0833	0.234	14952-40-0	PCI/G	HUh	0.418		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.028	0.0635	14596-10-2	PCI/G	HUh	0.109	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0294	0.0997	14234-35-6	PCI/G	HUh	0.193		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1597816	1203625449	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	25.9	2.14	12587-47-2	PCI/G	Hh	2.00	10.0	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.06	14913-49-6	PCI/G	HUIh	1.39		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.880	0.205	14733-03-0	PCI/G	Hh	0.109		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1598078	1203626105	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.251	0.701	14762-75-5	PCI/G	HUh	1.20	2.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.209	0.0662	10045-97-3	PCI/G	Hh	0.0653	0.100	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0229	0.027	10198-40-0	PCI/G	HUh	0.0451		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.109	OER-100-93	PCI/G	Hh	0.162	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00757	0.0335		PCI/G	HUh	0.0874	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0135	0.0506		PCI/G	HUh	0.0852	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0654	0.0936	15585-10-1	PCI/G	HUh	0.219		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1598618	1203627430	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.0259	0.221	15046-84-1	PCI/G	HUh	0.512	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.17	0.132	15092-94-1	PCI/G	Hh	0.0916		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.16	0.217	15067-28-4	PCI/G	Hh	0.351		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596392	1203621697	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Neptunium-237	R	ASTM C 147	0.181	0.537	13994-20-2	PCI/G	HUh	0.951	1.00	1.00	19.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.B.R.7.2	405235004	GEL	1596393	1203621700	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	-0.0229	0.0783	13981-16-3	PCI/G	HUh	0.194	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596393	1203621700	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24(	R	DOE EML HA	0.0106	0.0588	OER-100-70	PCI/G	HUh	0.113	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596394	1203621703	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	-5.99	7.28	14119-32-5	PCI/G	HUh	12.7	15.0	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.0	1.60	13966-00-2	PCI/G	Hh	0.576		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.649	14331-85-2	PCI/G	HUIh	0.723		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.880	0.205	13982-63-3	PCI/G	Hh	0.109		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.06	0.255	15262-20-1	PCI/G	Hh	0.239		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1597795	1203625398	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.282	0.639	10098-97-2	PCI/G	HUh	1.14	2.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1597416	1203624308	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.25	1.25	14133-76-7	PCI/G	HUh	2.31	5.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.388	0.084	14913-50-9	PCI/G	Hh	0.0599		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.43	0.656	14274-82-9	PCI/G	Hh	0.667	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.203	0.225	15594-54-4	PCI/G	Hh	0.265	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.15	0.462	14269-63-7	PCI/G	Hh	0.264	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.784	0.388	7440-29-1	PCI/G	Hh	0.263	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.168		PCI/G	HUIh	0.127		1.00	19.4
4.1.B.R.7.2	405235004	GEL	1598072	1203626094	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	1.73	1.94	10028-17-8	PCI/G	Hh	3.27	6.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.00835	0.0577	14158-29-3	PCI/G	HUh	0.140	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.855	0.261	13968-55-3/1	PCI/G	Hh	0.150	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0728	0.0858	15117-96-1/1	PCI/G	Hh	0.0928	1.00	1.00	19.4
4.1.B.R.7.2	405235004	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.11	0.291	7440-61-1	PCI/G	Hh	0.107	1.00	1.00	19.4
4.1.C.R.1.3	405235005	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	13.5	3.31	12587-46-1	PCI/G	Hh	3.93	4.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.00052	0.227	14952-40-0	PCI/G	HUh	0.439		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0225	0.0594	14596-10-2	PCI/G	HUh	0.107	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0172	0.104	14234-35-6	PCI/G	HUh	0.194		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	18.4	2.38	12587-47-2	PCI/G	Hh	2.93	10.0	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.04	14913-49-6	PCI/G	HUIh	1.31		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.907	0.175	14733-03-0	PCI/G	Hh	0.120		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.188	0.608	14762-75-5	PCI/G	HUh	1.06	2.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.155	0.0586	10045-97-3	PCI/G	Hh	0.0573	0.100	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00143	0.0329	10198-40-0	PCI/G	HUh	0.0673		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.100	OER-100-93	PCI/G	Hh	0.150	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.0296		PCI/G	Hh	0.044	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0495	0.0652		PCI/G	HXh	0.0495	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0099	0.109	15585-10-1	PCI/G	HUh	0.217		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.129	0.275	15046-84-1	PCI/G	HUh	0.734	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.950	0.129	15092-94-1	PCI/G	Hh	0.0948		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.03	0.201	15067-28-4	PCI/G	Hh	0.135		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.143	0.201	13994-20-2	PCI/G	HUh	0.658	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0468	0.0651	13981-16-3	PCI/G	Hh	0.0972	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24(	R	DOE EML HA	0.00679	0.0377	OER-100-70	PCI/G	HUh	0.0723	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-3.76	6.42	14119-32-5	PCI/G	HUh	11.3	15.0	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.6	1.48	13966-00-2	PCI/G	Hh	0.672		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.784	14331-85-2	PCI/G	HUIh	0.824		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.907	0.175	13982-63-3	PCI/G	Hh	0.120		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.08	0.322	15262-20-1	PCI/G	Hh	0.258		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.135	0.565	10098-97-2	PCI/G	HUh	1.10	2.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.599	1.32	14133-76-7	PCI/G	HUh	2.36	5.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.321	0.081	14913-50-9	PCI/G	Hh	0.0577		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.44	0.609	14274-82-9	PCI/G	Hh	0.352	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.162	0.213	15594-54-4	PCI/G	Hh	0.272	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.20	0.511	14269-63-7	PCI/G	Hh	0.464	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.853	0.424	7440-29-1	PCI/G	Hh	0.368	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.169		PCI/G	HUIh	0.135		1.00	20.4
4.1.C.R.1.3	405235005	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	1.04	1.85	10028-17-8	PCI/G	HUh	3.14	6.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0134	0.0452	14158-29-3	PCI/G	HUh	0.117	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.922	0.227	13968-55-3/1	PCI/G	Hh	0.0983	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0495	0.0627	15117-96-1/1	PCI/G	Hh	0.0779	1.00	1.00	20.4
4.1.C.R.1.3	405235005	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.754	0.204	7440-61-1	PCI/G	Hh	0.0672	1.00	1.00	20.4
4.1.C.R.1.4	405235006	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	ALPHA	R	EPA 900.0/S\	12.0	4.38	12587-46-1	PCI/G	Hh	3.90	4.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0195	0.198	14952-40-0	PCI/G	HUh	0.393		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00585	0.0612	14596-10-2	PCI/G	HUh	0.128	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0559	0.082	14234-35-6	PCI/G	HUh	0.173		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/16/16	405235	BETA	R	EPA 900.0/S\	21.2	3.32	12587-47-2	PCI/G	Hh	2.68	10.0	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.06	0.592	14913-49-6	PCI/G	Hh	0.698		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.770	0.168	14733-03-0	PCI/G	Hh	0.114		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.0922	0.709	14762-75-5	PCI/G	HUh	1.22	2.00	1.00	19.5

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0344	0.0386	10045-97-3	PCI/G	HUh	0.0791	0.100	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00	0.0282	10198-40-0	PCI/G	HUIh	0.0722		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.145	OER-100-93	PCI/G	Hh	0.216	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.0428		PCI/G	Hh	0.0636	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0482		PCI/G	Hh	0.0717	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0518	0.0803	15585-10-1	PCI/G	HUh	0.144		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.433	0.424	15046-84-1	PCI/G	HUh	1.30	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.11	0.140	15092-94-1	PCI/G	Hh	0.085		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.08	0.170	15067-28-4	PCI/G	Hh	0.108		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.00979	0.450	13994-20-2	PCI/G	HUh	0.989	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0283	0.0449	13981-16-3	PCI/G	Hh	0.0621	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.00847	0.0318	OER-100-70	PCI/G	HUh	0.0535	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	-1.24	4.20	14119-32-5	PCI/G	HUh	7.24	15.0	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	16.0	1.44	13966-00-2	PCI/G	Hh	0.371		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.730	14331-85-2	PCI/G	HUIh	0.611		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.770	0.168	13982-63-3	PCI/G	Hh	0.114		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.41	0.299	15262-20-1	PCI/G	Hh	0.158		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.107	0.733	10098-97-2	PCI/G	HUh	1.33	2.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.909	1.05	14133-76-7	PCI/G	HUh	1.92	5.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.366	0.0864	14913-50-9	PCI/G	Hh	0.0537		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.90	0.599	14274-82-9	PCI/G	Hh	0.333	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0681	0.169	15594-54-4	PCI/G	HUh	0.300	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.909	0.368	14269-63-7	PCI/G	Hh	0.273	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.941	0.364	7440-29-1	PCI/G	Hh	0.201	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.118		PCI/G	HUIh	0.114		1.00	19.5
4.1.C.R.1.4	405235006	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	0.621	1.94	10028-17-8	PCI/G	HUh	3.34	6.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0147	0.0501	14158-29-3	PCI/G	HUh	0.0929	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.762	0.223	13968-55-3/1	PCI/G	Hh	0.128	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0718	0.0774	15117-96-1/1	PCI/G	Hh	0.088	1.00	1.00	19.5
4.1.C.R.1.4	405235006	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.923	0.241	7440-61-1	PCI/G	Hh	0.0968	1.00	1.00	19.5
4.1.C.R.2.3	405235007	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.6	3.46	12587-46-1	PCI/G	Hh	3.85	4.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0788	0.249	14952-40-0	PCI/G	HUh	0.471		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0419	0.0679	14596-10-2	PCI/G	Hh	0.105	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0108	0.0993	14234-35-6	PCI/G	HUh	0.190		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	15.9	2.37	12587-47-2	PCI/G	Hh	2.81	10.0	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.945	14913-49-6	PCI/G	HUIh	1.37		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.846	0.188	14733-03-0	PCI/G	Hh	0.125		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.207	0.709	14762-75-5	PCI/G	HUh	1.23	2.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.267	0.104	10045-97-3	PCI/G	Hh	0.0762	0.100	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00	0.0439	10198-40-0	PCI/G	HUIh	0.084		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.0124	0.107	OER-100-93	PCI/G	HUh	0.248	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.0306		PCI/G	Hh	0.0456	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0342	0.0587		PCI/G	Hh	0.0514	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00743	0.0993	15585-10-1	PCI/G	HUh	0.201		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	-0.276	0.459	15046-84-1	PCI/G	HUh	0.604	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.05	0.135	15092-94-1	PCI/G	Hh	0.103		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.12	0.199	15067-28-4	PCI/G	Hh	0.128		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.230	0.371	13994-20-2	PCI/G	Hh	0.575	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.000504	0.0373	13981-16-3	PCI/G	HUh	0.083	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0005	0.0371	OER-100-70	PCI/G	HUh	0.0824	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-8.65	7.14	14119-32-5	PCI/G	HUh	12.8	15.0	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.5	1.59	13966-00-2	PCI/G	Hh	0.542		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.687	14331-85-2	PCI/G	HUIh	0.874		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.846	0.188	13982-63-3	PCI/G	Hh	0.125		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.23	0.276	15262-20-1	PCI/G	Hh	0.263		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.276	0.239	10098-97-2	PCI/G	Hh	0.383	2.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.418	1.28	14133-76-7	PCI/G	HUh	2.27	5.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.368	0.0928	14913-50-9	PCI/G	Hh	0.0546		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.19	0.546	14274-82-9	PCI/G	Hh	0.621	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0163	0.132	15594-54-4	PCI/G	HUh	0.268	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.790	0.333	14269-63-7	PCI/G	Hh	0.197	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.569	0.292	7440-29-1	PCI/G	Hh	0.236	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.024	0.144		PCI/G	HUh	0.167		1.00	21.2
4.1.C.R.2.3	405235007	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	Tritium	R	EPA 906.0 M	-0.257	2.05	10028-17-8	PCI/G	HUh	3.58	6.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0199	0.0549	14158-29-3	PCI/G	HUh	0.0952	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.729	0.191	13968-55-3/1	PCI/G	Hh	0.0828	1.00	1.00	21.2

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.C.R.2.3	405235007	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0852	0.0703	15117-96-1/1	PCI/G	Hh	0.0604	1.00	1.00	21.2
4.1.C.R.2.3	405235007	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.929	0.213	7440-61-1	PCI/G	Hh	0.0377	1.00	1.00	21.2
4.1.C.R.2.4	405235008	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	14.6	3.33	12587-46-1	PCI/G	Hh	2.99	4.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0183	0.247	14952-40-0	PCI/G	HUh	0.478		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.000756	0.0561	14596-10-2	PCI/G	HUh	0.125	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.053	0.124	14234-35-6	PCI/G	HUh	0.226		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	23.5	2.51	12587-47-2	PCI/G	Hh	2.36	10.0	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	-0.0409	0.638	14913-49-6	PCI/G	HUh	1.19		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.810	0.211	14733-03-0	PCI/G	Hh	0.162		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.083	0.738	14762-75-5	PCI/G	HUh	1.27	2.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.189	0.0961	10045-97-3	PCI/G	Hh	0.0837	0.100	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00334	0.0418	10198-40-0	PCI/G	HUh	0.0848		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.132	OER-100-93	PCI/G	Hh	0.196	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.000767	0.0569		PCI/G	HUh	0.126	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0436		PCI/G	Hh	0.0648	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00693	0.141	15585-10-1	PCI/G	HUh	0.283		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	-0.121	0.196	15046-84-1	PCI/G	HUh	0.362	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.24	0.156	15092-94-1	PCI/G	Hh	0.111		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.10	0.226	15067-28-4	PCI/G	Hh	0.371		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.0552	0.307	13994-20-2	PCI/G	HUh	0.588	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0454	0.0575	13981-16-3	PCI/G	Hh	0.0714	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.00666	0.037	OER-100-70	PCI/G	HUh	0.0709	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-8.21	6.61	14119-32-5	PCI/G	HUh	11.8	15.0	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.5	1.78	13966-00-2	PCI/G	Hh	0.811		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.269	0.536	14331-85-2	PCI/G	HUh	1.07		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.810	0.211	13982-63-3	PCI/G	Hh	0.162		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.805	0.386	15262-20-1	PCI/G	Hh	0.319		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.321	0.473	10098-97-2	PCI/G	HUh	0.824	2.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.332	1.24	14133-76-7	PCI/G	HUh	2.20	5.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.233	0.108	14913-50-9	PCI/G	Hh	0.0849		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.73	0.606	14274-82-9	PCI/G	Hh	0.313	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0778	0.167	15594-54-4	PCI/G	HUh	0.276	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.07	0.415	14269-63-7	PCI/G	Hh	0.229	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.895	0.376	7440-29-1	PCI/G	Hh	0.117	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0514	0.117		PCI/G	HUh	0.131		1.00	20.7
4.1.C.R.2.4	405235008	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	1.42	2.08	10028-17-8	PCI/G	HUh	3.53	6.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0134	0.0311	14158-29-3	PCI/G	HUh	0.0921	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.03	0.227	13968-55-3/1	PCI/G	Hh	0.105	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0256	0.051	15117-96-1/1	PCI/G	Hh	0.0828	1.00	1.00	20.7
4.1.C.R.2.4	405235008	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.808	0.200	7440-61-1	PCI/G	Hh	0.0694	1.00	1.00	20.7
4.1.D.R.1.3	405235009	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	22.6	4.30	12587-46-1	PCI/G	Hh	3.04	4.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.157	0.211	14952-40-0	PCI/G	HUh	0.349		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.023	0.0528	14596-10-2	PCI/G	Hh	0.0838	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0387	0.126	14234-35-6	PCI/G	HUh	0.246		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	22.4	2.59	12587-47-2	PCI/G	Hh	2.70	10.0	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.13	14913-49-6	PCI/G	HUIh	1.48		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.11	0.206	14733-03-0	PCI/G	Hh	0.130		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.714	0.802	14762-75-5	PCI/G	Hh	1.35	2.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	1.44	0.141	10045-97-3	PCI/G	Hh	0.0816	0.100	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0135	0.045	10198-40-0	PCI/G	HUh	0.093		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.105	OER-100-93	PCI/G	Hh	0.157	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00737	0.0326		PCI/G	HUh	0.0851	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0346	0.0593		PCI/G	Hh	0.0519	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.077	0.142	15585-10-1	PCI/G	HUh	0.295		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.0486	0.219	15046-84-1	PCI/G	HUh	0.469	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.23	0.128	15092-94-1	PCI/G	Hh	0.0876		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.16	0.204	15067-28-4	PCI/G	Hh	0.125		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.244	0.540	13994-20-2	PCI/G	HUh	0.948	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.00709	0.0458	13981-16-3	PCI/G	HUh	0.0936	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0191	0.0439	OER-100-70	PCI/G	Hh	0.0696	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-6.39	6.93	14119-32-5	PCI/G	HUh	12.3	15.0	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.7	1.73	13966-00-2	PCI/G	Hh	0.584		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.637	14331-85-2	PCI/G	HUIh	0.638		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.11	0.206	13982-63-3	PCI/G	Hh	0.130		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.23	0.340	15262-20-1	PCI/G	Hh	0.289		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.735	0.710	10098-97-2	PCI/G	HUh	1.47	2.00	1.00	23.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.D.R.1.3	405235009	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.944	1.27	14133-76-7	PCI/G	HUh	2.32	5.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.370	0.110	14913-50-9	PCI/G	Hh	0.0768		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	0.970	0.460	14274-82-9	PCI/G	Hh	0.356	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0551	0.163	15594-54-4	PCI/G	HUh	0.296	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.758	0.377	14269-63-7	PCI/G	Hh	0.392	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	1.29	0.445	7440-29-1	PCI/G	Hh	0.261	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0975		PCI/G	HUlh	0.0827		1.00	23.6
4.1.D.R.1.3	405235009	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.397	2.08	10028-17-8	PCI/G	HUh	3.59	6.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0068	0.047	14158-29-3	PCI/G	HUh	0.114	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.23	0.301	13968-55-3/1	PCI/G	Hh	0.152	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0328	0.0744	15117-96-1/1	PCI/G	HUh	0.128	1.00	1.00	23.6
4.1.D.R.1.3	405235009	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.818	0.245	7440-61-1	PCI/G	Hh	0.120	1.00	1.00	23.6
4.1.D.R.1.4	405235010	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	15.9	3.91	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0885	0.226	14952-40-0	PCI/G	HUh	0.422		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00982	0.0634	14596-10-2	PCI/G	HUh	0.130	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0788	0.103	14234-35-6	PCI/G	HUh	0.213		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	23.5	2.58	12587-47-2	PCI/G	Hh	2.74	10.0	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.33	14913-49-6	PCI/G	HUlh	1.52		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.774	0.182	14733-03-0	PCI/G	Hh	0.134		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.232	0.707	14762-75-5	PCI/G	HUh	1.21	2.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.310	0.0918	10045-97-3	PCI/G	Hh	0.0698	0.100	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00	0.0324	10198-40-0	PCI/G	HUlh	0.0816		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.122	OER-100-93	PCI/G	Hh	0.182	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00427	0.0369		PCI/G	HUh	0.0854	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0404		PCI/G	Hh	0.0602	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0481	0.114	15585-10-1	PCI/G	HUh	0.238		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.030	0.155	15046-84-1	PCI/G	HUh	0.347	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.11	0.141	15092-94-1	PCI/G	Hh	0.0996		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.13	0.213	15067-28-4	PCI/G	Hh	0.120		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0377	0.167	13994-20-2	PCI/G	HUh	0.434	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	-0.0211	0.0707	13981-16-3	PCI/G	HUh	0.170	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.00444	0.0465	OER-100-70	PCI/G	HUh	0.097	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-1.6	6.58	14119-32-5	PCI/G	HUh	11.4	15.0	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.5	1.65	13966-00-2	PCI/G	Hh	0.779		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0151	0.546	14331-85-2	PCI/G	HUh	0.989		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.774	0.182	13982-63-3	PCI/G	Hh	0.134		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.12	0.275	15262-20-1	PCI/G	Hh	0.194		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.276	0.501	10098-97-2	PCI/G	HUh	0.880	2.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.3	1.15	14133-76-7	PCI/G	HUh	2.13	5.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.428	0.0832	14913-50-9	PCI/G	Hh	0.0587		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-228	R	DOE EML HA	1.58	1.06	14274-82-9	PCI/G	Hh	1.06	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-229	R	DOE EML HA	-0.0307	0.225	15594-54-4	PCI/G	HUh	0.541	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-230	R	DOE EML HA	0.655	0.580	14269-63-7	PCI/G	Hh	0.480	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-232	R	DOE EML HA	0.430	0.490	7440-29-1	PCI/G	Hh	0.479	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.199		PCI/G	HUlh	0.181		1.00	20.1
4.1.D.R.1.4	405235010	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.287	2.03	10028-17-8	PCI/G	HUh	3.51	6.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0171	0.0584	14158-29-3	PCI/G	HUh	0.108	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.741	0.202	13968-55-3/1	PCI/G	Hh	0.0903	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0451	0.0616	15117-96-1/1	PCI/G	Hh	0.084	1.00	1.00	20.1
4.1.D.R.1.4	405235010	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.988	0.232	7440-61-1	PCI/G	Hh	0.0903	1.00	1.00	20.1
4.1.D.R.3.2	405235011	GEL	1597816	1203625449	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	14.2	3.46	12587-46-1	PCI/G	Hh	3.42	4.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0188	0.242	14952-40-0	PCI/G	HUh	0.399		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Americium-241	R	DOE EML HA	-0.00946	0.200	14596-10-2	PCI/G	HUh	0.458	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00882	0.112	14234-35-6	PCI/G	HUh	0.217		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1597816	1203625449	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	23.0	2.53	12587-47-2	PCI/G	Hh	2.57	10.0	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.762	14913-49-6	PCI/G	HUlh	1.17		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.13	0.188	14733-03-0	PCI/G	Hh	0.113		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1598078	1203626105	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.0917	0.685	14762-75-5	PCI/G	HUh	1.19	2.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.255	0.0833	10045-97-3	PCI/G	Hh	0.0782	0.100	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00648	0.0355	10198-40-0	PCI/G	HUh	0.0709		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Curium-242	R	DOE EML HA	0.196	0.545	OER-100-93	PCI/G	Hh	0.587	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Curium-243/244	R	DOE EML HA	-0.0386	0.118		PCI/G	HUh	0.335	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596390	1203621694	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/01/16	405235	Curium-245/246	R	DOE EML HA	-0.00869	0.128		PCI/G	HUh	0.275	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.106	0.0981	15585-10-1	PCI/G	HUh	0.155		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1598618	1203627430	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.0943	0.144	15046-84-1	PCI/G	HUh	0.499	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.962	0.130	15092-94-1	PCI/G	Hh	0.0886		1.00	16.3

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.19	0.193	15067-28-4	PCI/G	Hh	0.0926		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596392	1203621697	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.0501	0.278	13994-20-2	PCI/G	HUh	0.534	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596393	1203621700	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0814	0.106	13981-16-3	PCI/G	Hh	0.150	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596393	1203621700	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0272	0.0749	OER-100-70	PCI/G	HUh	0.130	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596394	1203621703	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Plutonium-241	R	DOE EML HA	-4.75	5.90	14119-32-5	PCI/G	HUh	10.3	15.0	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.5	1.61	13966-00-2	PCI/G	Hh	0.668		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.713	14331-85-2	PCI/G	HUlh	0.700		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.13	0.188	13982-63-3	PCI/G	Hh	0.113		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.13	0.312	15262-20-1	PCI/G	Hh	0.192		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1597795	1203625398	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.237	0.610	10098-97-2	PCI/G	HUh	1.10	2.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1597416	1203624308	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.654	1.01	14133-76-7	PCI/G	HUh	1.83	5.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.309	0.0942	14913-50-9	PCI/G	Hh	0.0662		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.73	0.653	14274-82-9	PCI/G	Hh	0.491	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0209	0.131	15594-54-4	PCI/G	HUh	0.248	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.66	0.532	14269-63-7	PCI/G	Hh	0.247	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596388	1203621688	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	1.07	0.432	7440-29-1	PCI/G	Hh	0.246	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596247	1203621350	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.168		PCI/G	HUlh	0.149		1.00	16.3
4.1.D.R.3.2	405235011	GEL	1598072	1203626094	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.641	1.82	10028-17-8	PCI/G	HUh	3.11	6.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.00718	0.0399	14158-29-3	PCI/G	HUh	0.0765	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.819	0.232	13968-55-3/1	PCI/G	Hh	0.0916	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.071	0.0812	15117-96-1/1	PCI/G	Hh	0.101	1.00	1.00	16.3
4.1.D.R.3.2	405235011	GEL	1596389	1203621691	SAMPLE	TARGET	12/09/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.823	0.232	7440-61-1	PCI/G	Hh	0.0793	1.00	1.00	16.3
4.1.D.R.2.4	405235012	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	11.6	3.25	12587-46-1	PCI/G	Hh	3.42	4.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.00685	0.243	14952-40-0	PCI/G	HUh	0.428		1.00	17
4.1.D.R.2.4	405235012	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.00646	0.0446	14596-10-2	PCI/G	HUh	0.109	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0103	0.121	14234-35-6	PCI/G	HUh	0.250		1.00	17
4.1.D.R.2.4	405235012	GEL	1597816	1203625449	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	24.8	2.62	12587-47-2	PCI/G	Hh	2.63	10.0	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.08	14913-49-6	PCI/G	HUlh	1.56		1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.847	0.209	14733-03-0	PCI/G	Hh	0.137		1.00	17
4.1.D.R.2.4	405235012	GEL	1598078	1203626105	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.321	0.659	14762-75-5	PCI/G	HUh	1.12	2.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.364	0.102	10045-97-3	PCI/G	Hh	0.103	0.100	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00745	0.0467	10198-40-0	PCI/G	HUh	0.0973		1.00	17
4.1.D.R.2.4	405235012	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.102	OER-100-93	PCI/G	Hh	0.152	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00775	0.043		PCI/G	HUh	0.0825	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596390	1203621694	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0503	0.0662		PCI/G	HXh	0.0503	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.11	0.155	15585-10-1	PCI/G	HUh	0.275		1.00	17
4.1.D.R.2.4	405235012	GEL	1598618	1203627430	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/27/16	405235	Iodine-129	R	DOE EML HA	0.131	0.161	15046-84-1	PCI/G	HUh	0.521	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.39	0.158	15092-94-1	PCI/G	Hh	0.0897		1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.01	0.208	15067-28-4	PCI/G	Hh	0.149		1.00	17
4.1.D.R.2.4	405235012	GEL	1596392	1203621697	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.0255	0.267	13994-20-2	PCI/G	HUh	0.557	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.00464	0.0485	13981-16-3	PCI/G	HUh	0.101	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596393	1203621700	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0198	0.0375	OER-100-70	PCI/G	HUh	0.116	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596394	1203621703	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-4.13	6.82	14119-32-5	PCI/G	HUh	12.0	15.0	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.8	1.96	13966-00-2	PCI/G	Hh	0.908		1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.324	0.525	14331-85-2	PCI/G	HUh	1.05		1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.847	0.209	13982-63-3	PCI/G	Hh	0.137		1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.01	0.321	15262-20-1	PCI/G	Hh	0.298		1.00	17
4.1.D.R.2.4	405235012	GEL	1597795	1203625398	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.780	0.883	10098-97-2	PCI/G	Hh	1.48	2.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1597416	1203624308	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.629	1.08	14133-76-7	PCI/G	HUh	1.96	5.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.331	0.106	14913-50-9	PCI/G	Hh	0.0886		1.00	17
4.1.D.R.2.4	405235012	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-228	R	DOE EML HA	1.17	0.926	14274-82-9	PCI/G	Hh	0.977	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-229	R	DOE EML HA	-0.031	0.225	15594-54-4	PCI/G	HUh	0.541	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-230	R	DOE EML HA	1.19	0.757	14269-63-7	PCI/G	Hh	0.540	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596388	1203621688	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/01/16	405235	Thorium-232	R	DOE EML HA	0.887	0.653	7440-29-1	PCI/G	Hh	0.333	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596247	1203621350	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.185		PCI/G	HUlh	0.164		1.00	17
4.1.D.R.2.4	405235012	GEL	1598072	1203626094	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.731	1.86	10028-17-8	PCI/G	HUh	3.19	6.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0538	0.0681	14158-29-3	PCI/G	Hh	0.0846	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.798	0.206	13968-55-3/1	PCI/G	Hh	0.0822	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0918	0.0809	15117-96-1/1	PCI/G	Hh	0.0946	1.00	1.00	17
4.1.D.R.2.4	405235012	GEL	1596389	1203621691	SAMPLE	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.871	0.214	7440-61-1	PCI/G	Hh	0.0645	1.00	1.00	17
4.2A.R.2.3	405235013	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	ALPHA	R	EPA 900.0/S\	17.1	4.66	12587-46-1	PCI/G	Hh	3.84	4.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0235	0.246	14952-40-0	PCI/G	HUh	0.466		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0102	0.0307	14596-10-2	PCI/G	HUh	0.0864	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0468	0.134	14234-35-6	PCI/G	HUh	0.260		1.00	21.6
4.2A.R.2.3	405235013	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	BETA	R	EPA 900.0/S\	24.3	3.36	12587-47-2	PCI/G	Hh	3.15	10.0	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.02	14913-49-6	PCI/G	HUlh	1.58		1.00	21.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.858	0.186	14733-03-0	PCI/G	Hh	0.123		1.00	21.6
4.2A.R.2.3	405235013	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.0611	0.626	14762-75-5	PCI/G	HUh	1.08	2.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	1.22	0.158	10045-97-3	PCI/G	Hh	0.0943	0.100	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0363	0.0431	10198-40-0	PCI/G	HUh	0.0683		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0992	OER-100-93	PCI/G	Hh	0.148	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0115	0.0515		PCI/G	HUh	0.101	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0323	0.0554		PCI/G	Hh	0.0485	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0172	0.146	15585-10-1	PCI/G	HUh	0.294		1.00	21.6
4.2A.R.2.3	405235013	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0471	0.319	15046-84-1	PCI/G	HUh	0.718	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.18	0.136	15092-94-1	PCI/G	Hh	0.102		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.03	0.203	15067-28-4	PCI/G	Hh	0.148		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.127	0.437	13994-20-2	PCI/G	HUh	0.837	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.000765	0.0567	13981-16-3	PCI/G	HUh	0.126	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0388	0.0771	OER-100-70	PCI/G	Hh	0.125	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-6.24	8.21	14119-32-5	PCI/G	HUh	14.5	15.0	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.4	1.78	13966-00-2	PCI/G	Hh	0.742		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.09	14331-85-2	PCI/G	HUlh	0.832		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.858	0.186	13982-63-3	PCI/G	Hh	0.123		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.907	0.350	15262-20-1	PCI/G	Hh	0.278		1.00	21.6
4.2A.R.2.3	405235013	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.385	0.682	10098-97-2	PCI/G	HUh	1.36	2.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.556	1.12	14133-76-7	PCI/G	HUh	2.01	5.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.329	0.0958	14913-50-9	PCI/G	Hh	0.0729		1.00	21.6
4.2A.R.2.3	405235013	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-228	R	DOE EML HA	2.23	1.33	14274-82-9	PCI/G	Hh	1.06	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-229	R	DOE EML HA	-0.0188	0.271	15594-54-4	PCI/G	HUh	0.584	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-230	R	DOE EML HA	0.658	0.652	14269-63-7	PCI/G	Hh	0.583	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-232	R	DOE EML HA	1.20	0.838	7440-29-1	PCI/G	Hh	0.581	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.108		PCI/G	HUlh	0.106		1.00	21.6
4.2A.R.2.3	405235013	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.645	2.14	10028-17-8	PCI/G	HUh	3.68	6.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0102	0.0383	14158-29-3	PCI/G	HUh	0.0644	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.778	0.213	13968-55-3/1	PCI/G	Hh	0.111	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.065	0.070	15117-96-1/1	PCI/G	Hh	0.0796	1.00	1.00	21.6
4.2A.R.2.3	405235013	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.750	0.209	7440-61-1	PCI/G	Hh	0.111	1.00	1.00	21.6
4.2A.R.1.3	405235014	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	17.6	4.06	12587-46-1	PCI/G	Hh	3.43	4.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0454	0.230	14952-40-0	PCI/G	HUh	0.451		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00484	0.0551	14596-10-2	PCI/G	HUh	0.117	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0232	0.125	14234-35-6	PCI/G	HUh	0.215		1.00	15.2
4.2A.R.1.3	405235014	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	21.5	2.78	12587-47-2	PCI/G	Hh	3.23	10.0	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.928	14913-49-6	PCI/G	HUlh	1.31		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.734	0.194	14733-03-0	PCI/G	Hh	0.140		1.00	15.2
4.2A.R.1.3	405235014	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.0653	0.648	14762-75-5	PCI/G	HUh	1.12	2.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.651	0.115	10045-97-3	PCI/G	Hh	0.0842	0.100	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0222	0.043	10198-40-0	PCI/G	HUh	0.0952		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.0526	0.148	OER-100-93	PCI/G	Hh	0.158	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00368	0.0318		PCI/G	HUh	0.0736	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0173	0.0486		PCI/G	Hh	0.0519	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0276	0.114	15585-10-1	PCI/G	HUh	0.223		1.00	15.2
4.2A.R.1.3	405235014	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0846	0.298	15046-84-1	PCI/G	HUh	0.592	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.15	0.129	15092-94-1	PCI/G	Hh	0.0938		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.941	0.177	15067-28-4	PCI/G	Hh	0.130		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.150	0.630	13994-20-2	PCI/G	HUh	1.24	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0265	0.0609	13981-16-3	PCI/G	Hh	0.0966	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0402	0.0793	OER-100-70	PCI/G	HUh	0.134	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-8.27	7.14	14119-32-5	PCI/G	HUh	12.8	15.0	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.8	1.64	13966-00-2	PCI/G	Hh	0.686		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.997	14331-85-2	PCI/G	HUlh	0.832		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.734	0.194	13982-63-3	PCI/G	Hh	0.140		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.22	0.270	15262-20-1	PCI/G	Hh	0.266		1.00	15.2
4.2A.R.1.3	405235014	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.0021	0.944	10098-97-2	PCI/G	HUh	1.72	2.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.179	1.17	14133-76-7	PCI/G	HUh	2.03	5.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.296	0.105	14913-50-9	PCI/G	Hh	0.0728		1.00	15.2
4.2A.R.1.3	405235014	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-228	R	DOE EML HA	1.94	1.43	14274-82-9	PCI/G	Hh	1.46	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-229	R	DOE EML HA	-0.0914	0.337	15594-54-4	PCI/G	HUh	0.922	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-230	R	DOE EML HA	1.45	1.02	14269-63-7	PCI/G	Hh	0.705	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Thorium-232	R	DOE EML HA	0.326	0.555	7440-29-1	PCI/G	Hh	0.489	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0993		PCI/G	HUlh	0.196		1.00	15.2
4.2A.R.1.3	405235014	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.668	1.89	10028-17-8	PCI/G	HUh	3.25	6.00	1.00	15.2

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2A.R.1.3	405235014	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.00397	0.0415	14158-29-3	PCI/G	HUh	0.0865	1.00	1.00	15.2
4.2A.R.1.3	405235015	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.886	0.238	13968-55-3/1	PCI/G	Hh	0.111	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.044	0.0633	15117-96-1/1	PCI/G	Hh	0.0764	1.00	1.00	15.2
4.2A.R.1.3	405235014	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.07	0.259	7440-61-1	PCI/G	Hh	0.0879	1.00	1.00	15.2
4.2A.R.1.4	405235015	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	19.0	4.27	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.376	0.266	14952-40-0	PCI/G	HUh	0.400		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Americium-241	R	DOE EML HA	0.0111	0.0681	14596-10-2	PCI/G	HUh	0.134	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0241	0.102	14234-35-6	PCI/G	HUh	0.206		1.00	7.15
4.2A.R.1.4	405235015	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	19.4	2.44	12587-47-2	PCI/G	Hh	2.83	10.0	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.878	14913-49-6	PCI/G	HUlh	1.34		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.879	0.200	14733-03-0	PCI/G	Hh	0.130		1.00	7.15
4.2A.R.1.4	405235015	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.327	0.617	14762-75-5	PCI/G	HUh	1.05	2.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.257	0.0964	10045-97-3	PCI/G	Hh	0.0799	0.100	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00	0.0531	10198-40-0	PCI/G	HUlh	0.0945		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-242	R	DOE EML HA	0.00	0.166	OER-100-93	PCI/G	Hh	0.253	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-243/244	R	DOE EML HA	-0.00328	0.0487		PCI/G	HUh	0.105	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-245/246	R	DOE EML HA	0.106	0.121		PCI/G	Hh	0.118	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0622	0.139	15585-10-1	PCI/G	HUh	0.252		1.00	7.15
4.2A.R.1.4	405235015	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00	0.176	15046-84-1	PCI/G	HUlh	0.244	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.07	0.136	15092-94-1	PCI/G	Hh	0.0919		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.16	0.195	15067-28-4	PCI/G	Hh	0.349		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.0721	0.360	13994-20-2	PCI/G	HUh	0.720	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0659	0.0753	13981-16-3	PCI/G	Hh	0.0941	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0147	0.034	OER-100-70	PCI/G	HUh	0.101	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-7.61	6.12	14119-32-5	PCI/G	HUh	11.0	15.0	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	17.4	1.80	13966-00-2	PCI/G	Hh	0.678		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.802	14331-85-2	PCI/G	HUlh	0.825		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.879	0.200	13982-63-3	PCI/G	Hh	0.130		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.964	0.340	15262-20-1	PCI/G	Hh	0.292		1.00	7.15
4.2A.R.1.4	405235015	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.139	0.756	10098-97-2	PCI/G	HUh	1.41	2.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.265	0.925	14133-76-7	PCI/G	HUh	1.64	5.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.352	0.0898	14913-50-9	PCI/G	Hh	0.0652		1.00	7.15
4.2A.R.1.4	405235015	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.32	0.551	14274-82-9	PCI/G	Hh	0.451	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.153	0.217	15594-54-4	PCI/G	Hh	0.336	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.516	0.336	14269-63-7	PCI/G	Hh	0.406	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.974	0.393	7440-29-1	PCI/G	Hh	0.224	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.159		PCI/G	HUlh	0.158		1.00	7.15
4.2A.R.1.4	405235015	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	-1.12	1.71	10028-17-8	PCI/G	HUh	3.05	6.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.00798	0.0745	14158-29-3	PCI/G	HUh	0.173	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.674	0.230	13968-55-3/1	PCI/G	Hh	0.160	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.102	0.097	15117-96-1/1	PCI/G	Hh	0.102	1.00	1.00	7.15
4.2A.R.1.4	405235015	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.881	0.256	7440-61-1	PCI/G	Hh	0.129	1.00	1.00	7.15
4.2A.R.2.4	405235016	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	16.1	3.81	12587-46-1	PCI/G	Hh	3.52	4.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.157	0.227	14952-40-0	PCI/G	HUh	0.431		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Americium-241	R	DOE EML HA	-0.0511	0.0689	14596-10-2	PCI/G	HUh	0.236	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0581	0.116	14234-35-6	PCI/G	HUh	0.213		1.00	20.4
4.2A.R.2.4	405235016	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	23.6	2.65	12587-47-2	PCI/G	Hh	2.83	10.0	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.14	14913-49-6	PCI/G	HUlh	1.39		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.734	0.186	14733-03-0	PCI/G	Hh	0.114		1.00	20.4
4.2A.R.2.4	405235016	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.359	0.742	14762-75-5	PCI/G	HUh	1.26	2.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.080	0.089	10045-97-3	PCI/G	Hh	0.086	0.100	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0157	0.0357	10198-40-0	PCI/G	HUh	0.079		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-242	R	DOE EML HA	0.00	0.219	OER-100-93	PCI/G	Hh	0.332	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-243/244	R	DOE EML HA	-0.013	0.0652		PCI/G	HUh	0.168	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Curium-245/246	R	DOE EML HA	0.0361	0.101		PCI/G	Hh	0.108	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0746	0.106	15585-10-1	PCI/G	HUh	0.238		1.00	20.4
4.2A.R.2.4	405235016	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0336	0.117	15046-84-1	PCI/G	HUh	0.563	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.09	0.138	15092-94-1	PCI/G	Hh	0.0936		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.02	0.200	15067-28-4	PCI/G	Hh	0.135		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.108	0.204	13994-20-2	PCI/G	HUh	0.631	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	-0.0115	0.0348	13981-16-3	PCI/G	HUh	0.0979	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0121	0.0454	OER-100-70	PCI/G	HUh	0.0763	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-8.9	6.01	14119-32-5	PCI/G	HUh	10.8	15.0	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.0	1.39	13966-00-2	PCI/G	Hh	0.376		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.259	0.411	14331-85-2	PCI/G	HUh	0.747		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.734	0.186	13982-63-3	PCI/G	Hh	0.114		1.00	20.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.899	0.294	15262-20-1	PCI/G	Hh	0.184		1.00	20.4
4.2A.R.2.4	405235016	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.157	0.413	10098-97-2	PCI/G	HUh	0.766	2.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.98	1.23	14133-76-7	PCI/G	HUh	2.24	5.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.321	0.0818	14913-50-9	PCI/G	Hh	0.0556		1.00	20.4
4.2A.R.2.4	405235016	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	0.879	0.681	14274-82-9	PCI/G	Hh	1.04	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.113	0.177	15594-54-4	PCI/G	Hh	0.266	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.31	0.487	14269-63-7	PCI/G	Hh	0.454	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	1.40	0.470	7440-29-1	PCI/G	Hh	0.298	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.175		PCI/G	HUIh	0.192		1.00	20.4
4.2A.R.2.4	405235016	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	-0.501	2.13	10028-17-8	PCI/G	HUh	3.73	6.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0171	0.0465	14158-29-3	PCI/G	HUh	0.124	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.764	0.242	13968-55-3/1	PCI/G	Hh	0.131	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0706	0.0832	15117-96-1/1	PCI/G	Hh	0.090	1.00	1.00	20.4
4.2A.R.2.4	405235016	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.689	0.230	7440-61-1	PCI/G	Hh	0.131	1.00	1.00	20.4
4.2A.R.3.2	405235017	GEL	1597816	1203625449	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	19.4	4.17	12587-46-1	PCI/G	Hh	3.05	4.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.100	0.247	14952-40-0	PCI/G	HUh	0.496		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0671	0.121	14596-10-2	PCI/G	HUh	0.309	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.019	0.131	14234-35-6	PCI/G	HUh	0.251		1.00	22.5
4.2A.R.3.2	405235017	GEL	1597816	1203625449	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	21.2	2.50	12587-47-2	PCI/G	Hh	2.73	10.0	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.65	0.904	14913-49-6	PCI/G	Hh	0.837		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.13	0.189	14733-03-0	PCI/G	Hh	0.132		1.00	22.5
4.2A.R.3.2	405235017	GEL	1598078	1203626105	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.168	0.740	14762-75-5	PCI/G	HUh	1.29	2.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	3.94	0.228	10045-97-3	PCI/G	Hh	0.0716	0.100	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.011	0.0417	10198-40-0	PCI/G	HUh	0.078		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.192	OER-100-93	PCI/G	Hh	0.285	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0141	0.0781		PCI/G	HUh	0.150	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	-0.0146	0.0646		PCI/G	HUh	0.169	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0439	0.0997	15585-10-1	PCI/G	HUh	0.215		1.00	22.5
4.2A.R.3.2	405235017	GEL	1598618	1203627430	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00	0.330	15046-84-1	PCI/G	HUIh	0.676	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.19	0.137	15092-94-1	PCI/G	Hh	0.0944		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.13	0.234	15067-28-4	PCI/G	Hh	0.145		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596392	1203621697	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.152	0.517	13994-20-2	PCI/G	HUh	0.974	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596393	1203621700	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0101	0.0564	13981-16-3	PCI/G	HUh	0.108	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596393	1203621700	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0248	0.0683	OER-100-70	PCI/G	HUh	0.118	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596394	1203621703	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/30/16	405235	Plutonium-241	R	DOE EML HA	-9.98	8.06	14119-32-5	PCI/G	HUh	14.4	15.0	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	16.0	1.58	13966-00-2	PCI/G	Hh	0.702		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.04	14331-85-2	PCI/G	HUIh	0.948		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.13	0.189	13982-63-3	PCI/G	Hh	0.132		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.829	0.336	15262-20-1	PCI/G	Hh	0.251		1.00	22.5
4.2A.R.3.2	405235017	GEL	1597795	1203625398	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.570	0.475	10098-97-2	PCI/G	Hh	0.747	2.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1597416	1203624308	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.03	1.32	14133-76-7	PCI/G	HUh	2.40	5.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.342	0.104	14913-50-9	PCI/G	Hh	0.0704		1.00	22.5
4.2A.R.3.2	405235017	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.59	0.554	14274-82-9	PCI/G	Hh	0.370	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	-0.122	0.270	15594-54-4	PCI/G	HUh	0.586	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.18	0.466	14269-63-7	PCI/G	Hh	0.511	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.739	0.328	7440-29-1	PCI/G	Hh	0.237	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.158		PCI/G	HUIh	0.145		1.00	22.5
4.2A.R.3.2	405235017	GEL	1598072	1203626094	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.921	2.14	10028-17-8	PCI/G	HUh	3.66	6.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0271	0.0616	14158-29-3	PCI/G	HUh	0.106	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.04	0.387	13968-55-3/1	PCI/G	Hh	0.196	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	-0.00851	0.0734	15117-96-1/1	PCI/G	HUh	0.170	1.00	1.00	22.5
4.2A.R.3.2	405235017	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.35	0.440	7440-61-1	PCI/G	Hh	0.233	1.00	1.00	22.5
4.2A.R.4.2	405235018	GEL	1597816	1203625449	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.3	3.55	12587-46-1	PCI/G	Hh	4.00	4.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.116	0.222	14952-40-0	PCI/G	HUh	0.448		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0041	0.0428	14596-10-2	PCI/G	HUh	0.0894	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.046	0.108	14234-35-6	PCI/G	HUh	0.212		1.00	21.7
4.2A.R.4.2	405235018	GEL	1597816	1203625449	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	21.0	2.40	12587-47-2	PCI/G	Hh	2.39	10.0	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.699	14913-49-6	PCI/G	HUIh	1.19		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.578	0.166	14733-03-0	PCI/G	Hh	0.121		1.00	21.7
4.2A.R.4.2	405235018	GEL	1598078	1203626105	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.0823	0.648	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	2.22	0.163	10045-97-3	PCI/G	Hh	0.0621	0.100	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0103	0.0236	10198-40-0	PCI/G	HUh	0.0511		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.105	OER-100-93	PCI/G	Hh	0.157	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0143	0.0331		PCI/G	HUh	0.0979	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596390	1203621694	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0836	0.0807		PCI/G	HXh	0.0502	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0371	0.0869	15585-10-1	PCI/G	HUh	0.159		1.00	21.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2A.R.4.2	405235018	GEL	1598618	1203627430	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.237	0.378	15046-84-1	PCI/G	HUh	0.630	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.06	0.121	15092-94-1	PCI/G	Hh	0.085		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.177	15067-28-4	PCI/G	Hh	0.118		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596392	1203621697	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0813	0.154	13994-20-2	PCI/G	HUh	0.475	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596393	1203621700	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0285	0.0752	13981-16-3	PCI/G	HUh	0.135	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596393	1203621700	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00436	0.0376	OER-100-70	PCI/G	HUh	0.0871	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596394	1203621703	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Plutonium-241	R	DOE EML HA	-0.157	5.24	14119-32-5	PCI/G	HUh	8.99	15.0	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.2	1.35	13966-00-2	PCI/G	Hh	0.500		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.673	14331-85-2	PCI/G	HUlh	0.790		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.578	0.166	13982-63-3	PCI/G	Hh	0.121		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.974	0.282	15262-20-1	PCI/G	Hh	0.204		1.00	21.7
4.2A.R.4.2	405235018	GEL	1597795	1203625398	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.336	0.801	10098-97-2	PCI/G	HUh	1.41	2.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1597416	1203624308	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.527	1.22	14133-76-7	PCI/G	HUh	2.19	5.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.262	0.0775	14913-50-9	PCI/G	Hh	0.0598		1.00	21.7
4.2A.R.4.2	405235018	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.22	0.546	14274-82-9	PCI/G	Hh	0.438	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.143	0.188	15594-54-4	PCI/G	Hh	0.240	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.732	0.402	14269-63-7	PCI/G	Hh	0.453	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596388	1203621688	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.671	0.343	7440-29-1	PCI/G	Hh	0.239	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596247	1203621350	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.110		PCI/G	HUlh	0.107		1.00	21.7
4.2A.R.4.2	405235018	GEL	1598072	1203626094	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.0322	2.18	10028-17-8	PCI/G	HUh	3.79	6.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0404	0.0643	14158-29-3	PCI/G	Hh	0.0889	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.671	0.244	13968-55-3/1	PCI/G	Hh	0.157	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0162	0.0608	15117-96-1/1	PCI/G	HUh	0.102	1.00	1.00	21.7
4.2A.R.4.2	405235018	GEL	1596389	1203621691	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.761	0.258	7440-61-1	PCI/G	Hh	0.149	1.00	1.00	21.7
4.2B.R.2.4	405235019	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	16.1	4.31	12587-46-1	PCI/G	Hh	3.87	4.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0607	0.172	14952-40-0	PCI/G	HUh	0.312		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0148	0.0342	14596-10-2	PCI/G	HUh	0.101	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0623	0.148	14234-35-6	PCI/G	HUh	0.169		1.00	17.5
4.2B.R.2.4	405235019	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	16.3	2.92	12587-47-2	PCI/G	Hh	3.15	10.0	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.674	14913-49-6	PCI/G	HUlh	1.12		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.698	0.153	14733-03-0	PCI/G	Hh	0.102		1.00	17.5
4.2B.R.2.4	405235019	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	0.259	0.665	14762-75-5	PCI/G	HUh	1.13	2.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0561	0.0482	10045-97-3	PCI/G	Hh	0.0498	0.100	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0119	0.041	10198-40-0	PCI/G	HUh	0.0685		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.108	OER-100-93	PCI/G	Hh	0.161	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00749	0.0331		PCI/G	HUh	0.0864	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0527	0.0694		PCI/G	HXh	0.0527	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0127	0.0837	15585-10-1	PCI/G	HUh	0.166		1.00	17.5
4.2B.R.2.4	405235019	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.152	0.253	15046-84-1	PCI/G	HUh	0.899	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.927	0.113	15092-94-1	PCI/G	Hh	0.0823		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.916	0.156	15067-28-4	PCI/G	Hh	0.0951		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.00	0.470	13994-20-2	PCI/G	Hh	0.700	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	-0.00708	0.0489	13981-16-3	PCI/G	HUh	0.119	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	0.0684	0.0782	OER-100-70	PCI/G	Hh	0.0977	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	-9.54	6.66	14119-32-5	PCI/G	HUh	12.0	15.0	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.1	1.32	13966-00-2	PCI/G	Hh	0.393		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.750	14331-85-2	PCI/G	HUlh	0.628		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.698	0.153	13982-63-3	PCI/G	Hh	0.102		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.828	0.255	15262-20-1	PCI/G	Hh	0.199		1.00	17.5
4.2B.R.2.4	405235019	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.149	0.454	10098-97-2	PCI/G	HUh	0.927	2.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.451	1.22	14133-76-7	PCI/G	HUh	2.17	5.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.348	0.075	14913-50-9	PCI/G	Hh	0.0507		1.00	17.5
4.2B.R.2.4	405235019	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.22	0.456	14274-82-9	PCI/G	Hh	0.349	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0288	0.110	15594-54-4	PCI/G	HUh	0.205	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.463	0.256	14269-63-7	PCI/G	Hh	0.253	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.679	0.286	7440-29-1	PCI/G	Hh	0.170	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.046	0.110		PCI/G	HUh	0.100		1.00	17.5
4.2B.R.2.4	405235019	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	0.271	1.95	10028-17-8	PCI/G	HUh	3.37	6.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.00385	0.0577	14158-29-3	PCI/G	HUh	0.135	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.738	0.235	13968-55-3/1	PCI/G	Hh	0.0567	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.128	0.106	15117-96-1/1	PCI/G	Hh	0.091	1.00	1.00	17.5
4.2B.R.2.4	405235019	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.922	0.262	7440-61-1	PCI/G	Hh	0.0907	1.00	1.00	17.5
4.2B.R.1.4	405235020	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	12.9	3.42	12587-46-1	PCI/G	Hh	3.86	4.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0243	0.209	14952-40-0	PCI/G	HUh	0.421		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0333	0.0589	14596-10-2	PCI/G	Hh	0.0892	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0107	0.0847	14234-35-6	PCI/G	HUh	0.173		1.00	14.3

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2B.R.1.4	405235020	GEL	1597816	1203625449	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	21.8	2.67	12587-47-2	PCI/G	Hh	3.05	10.0	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.981	14913-49-6	PCI/G	HUIh	0.702		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.626	0.161	14733-03-0	PCI/G	Hh	0.134		1.00	14.3
4.2B.R.1.4	405235020	GEL	1598078	1203626105	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.364	0.649	14762-75-5	PCI/G	HUh	1.14	2.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0381	10045-97-3	PCI/G	HUIh	0.0831	0.100	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0221	0.0298	10198-40-0	PCI/G	HUh	0.0531		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.103	OER-100-93	PCI/G	Hh	0.153	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00712	0.0315		PCI/G	HUh	0.0821	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596390	1203621694	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0167	0.047		PCI/G	Hh	0.0501	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0634	0.108	15585-10-1	PCI/G	HUh	0.245		1.00	14.3
4.2B.R.1.4	405235020	GEL	1598618	1203627430	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0571	0.291	15046-84-1	PCI/G	HUh	0.835	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.961	0.126	15092-94-1	PCI/G	Hh	0.0847		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.02	0.181	15067-28-4	PCI/G	Hh	0.305		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596392	1203621697	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0197	0.295	13994-20-2	PCI/G	HUh	0.690	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0243	0.0668	13981-16-3	PCI/G	HUh	0.116	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596393	1203621700	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0272	0.0438	OER-100-70	PCI/G	HUh	0.139	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596394	1203621703	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	-7.36	8.04	14119-32-5	PCI/G	HUh	14.3	15.0	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.7	1.41	13966-00-2	PCI/G	Hh	0.546		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.116	0.445	14331-85-2	PCI/G	HUh	0.896		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.626	0.161	13982-63-3	PCI/G	Hh	0.134		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.703	0.292	15262-20-1	PCI/G	Hh	0.258		1.00	14.3
4.2B.R.1.4	405235020	GEL	1597795	1203625398	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.30	0.630	10098-97-2	PCI/G	HUh	1.26	2.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1597416	1203624308	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.951	1.17	14133-76-7	PCI/G	HUh	2.14	5.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.302	0.0928	14913-50-9	PCI/G	Hh	0.0526		1.00	14.3
4.2B.R.1.4	405235020	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.11	0.464	14274-82-9	PCI/G	Hh	0.328	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.135	0.172	15594-54-4	PCI/G	Hh	0.239	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.928	0.368	14269-63-7	PCI/G	Hh	0.269	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596388	1203621688	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.673	0.304	7440-29-1	PCI/G	Hh	0.101	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596247	1203621350	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.192		PCI/G	HUIh	0.157		1.00	14.3
4.2B.R.1.4	405235020	GEL	1598072	1203626094	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 M	-0.266	1.89	10028-17-8	PCI/G	HUh	3.30	6.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	0.0108	0.0756	14158-29-3	PCI/G	HUh	0.155	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.602	0.223	13968-55-3/1	PCI/G	Hh	0.113	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.0564	0.0813	15117-96-1/1	PCI/G	Hh	0.098	1.00	1.00	14.3
4.2B.R.1.4	405235020	GEL	1596389	1203621691	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.847	0.266	7440-61-1	PCI/G	Hh	0.151	1.00	1.00	14.3
4.2B.R.2.3	405235021	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	8.46	3.09	12587-46-1	PCI/G	Hh	3.90	4.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0409	0.194	14952-40-0	PCI/G	HUh	0.383		1.00	16.5
4.2B.R.2.3	405235021	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.000535	0.0397	14596-10-2	PCI/G	HUh	0.0881	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0541	0.0882	14234-35-6	PCI/G	HUh	0.161		1.00	16.5
4.2B.R.2.3	405235021	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	13.9	2.55	12587-47-2	PCI/G	Hh	3.32	10.0	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.477	0.931	14913-49-6	PCI/G	HUh	1.12		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.709	0.165	14733-03-0	PCI/G	Hh	0.105		1.00	16.5
4.2B.R.2.3	405235021	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.211	0.697	14762-75-5	PCI/G	HUh	1.19	2.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.130	0.0708	10045-97-3	PCI/G	Hh	0.0737	0.100	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0124	0.0304	10198-40-0	PCI/G	HUh	0.0686		1.00	16.5
4.2B.R.2.3	405235021	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.0112	0.0964	OER-100-93	PCI/G	HUh	0.223	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00652	0.0288		PCI/G	HUh	0.0752	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.122	0.0902		PCI/G	HXh	0.0459	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0116	0.0856	15585-10-1	PCI/G	HUh	0.171		1.00	16.5
4.2B.R.2.3	405235021	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.057	0.204	15046-84-1	PCI/G	HUh	0.456	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.748	0.132	15092-94-1	PCI/G	Hh	0.103		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.805	0.188	15067-28-4	PCI/G	Hh	0.118		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0443	0.400	13994-20-2	PCI/G	HUh	0.969	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0188	0.0726	13981-16-3	PCI/G	HUh	0.141	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00208	0.0744	OER-100-70	PCI/G	HUh	0.164	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	9.46	7.66	14119-32-5	PCI/G	Hh	12.7	15.0	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.5	1.38	13966-00-2	PCI/G	Hh	0.602		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.06	14331-85-2	PCI/G	HUIh	0.668		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.709	0.165	13982-63-3	PCI/G	Hh	0.105		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.02	0.391	15262-20-1	PCI/G	Hh	0.201		1.00	16.5
4.2B.R.2.3	405235021	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.281	0.605	10098-97-2	PCI/G	HUh	1.08	2.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	1.02	1.78	14133-76-7	PCI/G	HUh	3.01	5.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.259	0.0824	14913-50-9	PCI/G	Hh	0.0629		1.00	16.5
4.2B.R.2.3	405235021	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.13	0.629	14274-82-9	PCI/G	Hh	0.584	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	-0.0135	0.117	15594-54-4	PCI/G	HUh	0.270	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.787	0.427	14269-63-7	PCI/G	Hh	0.169	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.645	0.398	7440-29-1	PCI/G	Hh	0.310	1.00	1.00	16.5

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2B.R.2.3	405235021	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.106		PCI/G	HUIh	0.119		1.00	16.5
4.2B.R.2.3	405235021	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	2.57	2.07	10028-17-8	PCI/G	Hh	3.33	6.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.00834	0.0576	14158-29-3	PCI/G	HUh	0.140	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.665	0.200	13968-55-3/1	PCI/G	Hh	0.104	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0262	0.0515	15117-96-1/1	PCI/G	Hh	0.0714	1.00	1.00	16.5
4.2B.R.2.3	405235021	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.606	0.192	7440-61-1	PCI/G	Hh	0.104	1.00	1.00	16.5
4.2B.R.1.3	405235022	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	7.10	2.95	12587-46-1	PCI/G	Hh	3.98	4.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.119	0.177	14952-40-0	PCI/G	HUh	0.327		1.00	19.4
4.2B.R.1.3	405235022	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0502	0.0592	14596-10-2	PCI/G	Hh	0.064	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0437	0.0837	14234-35-6	PCI/G	HUh	0.147		1.00	19.4
4.2B.R.1.3	405235022	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	16.5	2.16	12587-47-2	PCI/G	Hh	2.09	10.0	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.652	14913-49-6	PCI/G	HUIh	0.912		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.839	0.166	14733-03-0	PCI/G	Hh	0.0894		1.00	19.4
4.2B.R.1.3	405235022	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.675	0.682	14762-75-5	PCI/G	Hh	1.14	2.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.645	0.0922	10045-97-3	PCI/G	Hh	0.0604	0.100	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0214	0.0323	10198-40-0	PCI/G	HUh	0.0612		1.00	19.4
4.2B.R.1.3	405235022	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.0223	0.0986	OER-100-93	PCI/G	HUh	0.257	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0374	0.0539		PCI/G	Hh	0.065	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0153	0.0429		PCI/G	Hh	0.0458	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00	0.0944	15585-10-1	PCI/G	HUIh	0.186		1.00	19.4
4.2B.R.1.3	405235022	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.163	0.312	15046-84-1	PCI/G	HUh	0.734	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.961	0.107	15092-94-1	PCI/G	Hh	0.0763		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.997	0.168	15067-28-4	PCI/G	Hh	0.245		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.227	0.582	13994-20-2	PCI/G	HUh	1.04	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.0154	0.0356	13981-16-3	PCI/G	HUh	0.106	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.000637	0.0472	OER-100-70	PCI/G	HUh	0.105	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	12.5	8.08	14119-32-5	PCI/G	Hh	13.3	15.0	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.1	1.10	13966-00-2	PCI/G	Hh	0.381		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.651	14331-85-2	PCI/G	HUIh	0.623		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.839	0.166	13982-63-3	PCI/G	Hh	0.0894		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.593	0.211	15262-20-1	PCI/G	Hh	0.200		1.00	19.4
4.2B.R.1.3	405235022	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.311	0.441	10098-97-2	PCI/G	HUh	0.908	2.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.616	1.86	14133-76-7	PCI/G	HUh	3.24	5.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.357	0.074	14913-50-9	PCI/G	Hh	0.0449		1.00	19.4
4.2B.R.1.3	405235022	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.07	0.608	14274-82-9	PCI/G	Hh	0.558	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0426	0.160	15594-54-4	PCI/G	HUh	0.269	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.770	0.426	14269-63-7	PCI/G	Hh	0.268	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.433	0.330	7440-29-1	PCI/G	Hh	0.268	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.113		PCI/G	HUIh	0.110		1.00	19.4
4.2B.R.1.3	405235022	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	1.14	1.76	10028-17-8	PCI/G	HUh	3.05	6.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-232	R	DOE EML HA	0.000625	0.0463	14158-29-3	PCI/G	HUh	0.103	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-233/234	R	DOE EML HA	0.802	0.240	13968-55-3/1	PCI/G	Hh	0.0547	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-235/236	R	DOE EML HA	0.060	0.082	15117-96-1/1	PCI/G	Hh	0.112	1.00	1.00	19.4
4.2B.R.1.3	405235022	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-238	R	DOE EML HA	0.948	0.260	7440-61-1	PCI/G	Hh	0.0547	1.00	1.00	19.4
4.2B.R.11.2	405235023	GEL	1597811	1203625435	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.3	3.50	12587-46-1	PCI/G	Hh	3.97	4.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.00	0.201	14952-40-0	PCI/G	HUIh	0.425		1.00	22.6
4.2B.R.11.2	405235023	GEL	1602285	1203636290	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0279	0.0547	14596-10-2	PCI/G	HUh	0.152	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0252	0.0922	14234-35-6	PCI/G	HUh	0.184		1.00	22.6
4.2B.R.11.2	405235023	GEL	1597811	1203625435	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	20.6	2.30	12587-47-2	PCI/G	Hh	2.01	10.0	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.958	14913-49-6	PCI/G	HUIh	0.739		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.922	0.202	14733-03-0	PCI/G	Hh	0.113		1.00	22.6
4.2B.R.11.2	405235023	GEL	1598080	1203626126	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.518	0.749	14762-75-5	PCI/G	HUh	1.26	2.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.349	0.105	10045-97-3	PCI/G	Hh	0.0611	0.100	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00735	0.0289	10198-40-0	PCI/G	HUh	0.0633		1.00	22.6
4.2B.R.11.2	405235023	GEL	1602285	1203636290	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.122	OER-100-93	PCI/G	Hh	0.182	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1602285	1203636290	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.000691	0.0512		PCI/G	HUh	0.114	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1602285	1203636290	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0536	0.0773		PCI/G	Hh	0.0932	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0261	0.122	15585-10-1	PCI/G	HUh	0.232		1.00	22.6
4.2B.R.11.2	405235023	GEL	1598620	1203627437	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0562	0.220	15046-84-1	PCI/G	HUh	0.523	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.09	0.119	15092-94-1	PCI/G	Hh	0.0829		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.19	0.182	15067-28-4	PCI/G	Hh	0.108		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596399	1203621715	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0115	0.411	13994-20-2	PCI/G	HUh	0.948	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596400	1203621718	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.032	0.0637	13981-16-3	PCI/G	Hh	0.103	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596400	1203621718	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00748	0.0331	OER-100-70	PCI/G	HUh	0.0863	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596402	1203621725	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-241	R	DOE EML HA	-1.13	6.99	14119-32-5	PCI/G	HUh	12.2	15.0	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.4	1.34	13966-00-2	PCI/G	Hh	0.483		1.00	22.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.570	14331-85-2	PCI/G	HUIh	0.721		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.922	0.202	13982-63-3	PCI/G	Hh	0.113		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.733	0.299	15262-20-1	PCI/G	Hh	0.245		1.00	22.6
4.2B.R.11.2	405235023	GEL	1597796	1203625401	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.402	0.432	10098-97-2	PCI/G	HUh	0.930	2.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1597412	1203624301	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.627	1.89	14133-76-7	PCI/G	HUh	3.22	5.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.325	0.0773	14913-50-9	PCI/G	Hh	0.0591		1.00	22.6
4.2B.R.11.2	405235023	GEL	1596395	1203621706	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.26	0.708	14274-82-9	PCI/G	Hh	0.642	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596395	1203621706	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0988	0.227	15594-54-4	PCI/G	Hh	0.360	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596395	1203621706	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.910	0.513	14269-63-7	PCI/G	Hh	0.427	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596395	1203621706	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.858	0.494	7440-29-1	PCI/G	Hh	0.395	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596249	1203621354	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.104		PCI/G	HUIh	0.0941		1.00	22.6
4.2B.R.11.2	405235023	GEL	1598075	1203626098	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	2.23	2.08	10028-17-8	PCI/G	Hh	3.41	6.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596396	1203621709	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Uranium-232	R	DOE EML HA	0.00054	0.040	14158-29-3	PCI/G	HUh	0.0889	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596396	1203621709	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Uranium-233/234	R	DOE EML HA	0.949	0.254	13968-55-3/1	PCI/G	Hh	0.112	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596396	1203621709	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Uranium-235/236	R	DOE EML HA	0.068	0.0749	15117-96-1/1	PCI/G	Hh	0.051	1.00	1.00	22.6
4.2B.R.11.2	405235023	GEL	1596396	1203621709	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Uranium-238	R	DOE EML HA	0.822	0.235	7440-61-1	PCI/G	Hh	0.0938	1.00	1.00	22.6
4.2B.R.2.2	405235024	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	9.08	3.25	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.183	0.227	14952-40-0	PCI/G	HUh	0.373		1.00	19.4
4.2B.R.2.2	405235024	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.012	0.0537	14596-10-2	PCI/G	HUh	0.105	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00429	0.106	14234-35-6	PCI/G	HUh	0.205		1.00	19.4
4.2B.R.2.2	405235024	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	18.8	2.53	12587-47-2	PCI/G	Hh	2.56	10.0	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.551	14913-49-6	PCI/G	HUIh	1.13		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.954	0.213	14733-03-0	PCI/G	Hh	0.107		1.00	19.4
4.2B.R.2.2	405235024	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.613	0.670	14762-75-5	PCI/G	Hh	1.13	2.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.779	0.117	10045-97-3	PCI/G	Hh	0.058	0.100	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0112	0.0408	10198-40-0	PCI/G	HUh	0.0813		1.00	19.4
4.2B.R.2.2	405235024	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.0626	0.119	OER-100-93	PCI/G	HUh	0.366	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0304	0.0521		PCI/G	Hh	0.0456	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0342	0.0587		PCI/G	Hh	0.0514	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0166	0.0926	15585-10-1	PCI/G	HUh	0.187		1.00	19.4
4.2B.R.2.2	405235024	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.241	0.272	15046-84-1	PCI/G	HUh	0.254	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.01	0.125	15092-94-1	PCI/G	Hh	0.0834		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.03	0.198	15067-28-4	PCI/G	Hh	0.128		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.126	0.360	13994-20-2	PCI/G	HUh	1.04	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.000735	0.0545	13981-16-3	PCI/G	HUh	0.121	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.00146	0.0671	OER-100-70	PCI/G	HUh	0.147	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-241	R	DOE EML HA	3.92	7.32	14119-32-5	PCI/G	HUh	12.5	15.0	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.0	1.44	13966-00-2	PCI/G	Hh	0.678		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.638	14331-85-2	PCI/G	HUIh	0.840		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.954	0.213	13982-63-3	PCI/G	Hh	0.107		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.912	0.297	15262-20-1	PCI/G	Hh	0.220		1.00	19.4
4.2B.R.2.2	405235024	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/21/16	405235	Strontium-90	R	EPA 905.0 M	0.234	0.374	10098-97-2	PCI/G	HUh	0.655	2.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.62	1.85	14133-76-7	PCI/G	HUh	3.23	5.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.273	0.0921	14913-50-9	PCI/G	Hh	0.0624		1.00	19.4
4.2B.R.2.2	405235024	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.35	1.07	14274-82-9	PCI/G	Hh	1.29	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0324	0.338	15594-54-4	PCI/G	HUh	0.706	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.263	0.465	14269-63-7	PCI/G	Hh	0.705	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.805	0.640	7440-29-1	PCI/G	Hh	0.345	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.131		PCI/G	HUIh	0.136		1.00	19.4
4.2B.R.2.2	405235024	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.732	1.92	10028-17-8	PCI/G	HUh	3.44	6.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0142	0.0329	14158-29-3	PCI/G	HUh	0.0975	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.795	0.258	13968-55-3/1	PCI/G	Hh	0.101	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0211	0.0594	15117-96-1/1	PCI/G	Hh	0.0634	1.00	1.00	19.4
4.2B.R.2.2	405235024	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.996	0.290	7440-61-1	PCI/G	Hh	0.129	1.00	1.00	19.4
4.2B.R.1.2	405235025	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	15.3	4.30	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0352	0.297	14952-40-0	PCI/G	HUh	0.569		1.00	21.4
4.2B.R.1.2	405235025	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0257	0.0646	14596-10-2	PCI/G	HUh	0.117	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.148	0.187	14234-35-6	PCI/G	HUh	0.361		1.00	21.4
4.2B.R.1.2	405235025	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	25.3	3.08	12587-47-2	PCI/G	Hh	2.50	10.0	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.945	14913-49-6	PCI/G	HUIh	1.53		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.921	0.232	14733-03-0	PCI/G	Hh	0.165		1.00	21.4
4.2B.R.1.2	405235025	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.573	0.730	14762-75-5	PCI/G	HUh	1.23	2.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	5.38	0.275	10045-97-3	PCI/G	Hh	0.0889	0.100	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0029	0.050	10198-40-0	PCI/G	HUh	0.0979		1.00	21.4
4.2B.R.1.2	405235025	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0979	OER-100-93	PCI/G	Hh	0.146	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0323	0.0641		PCI/G	HUh	0.162	1.00	1.00	21.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2B.R.1.2	405235025	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0478	0.063		PCI/G	HXh	0.0478	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0645	0.130	15585-10-1	PCI/G	HUh	0.275		1.00	21.4
4.2B.R.1.2	405235025	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.205	0.277	15046-84-1	PCI/G	HUh	0.922	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.953	0.183	15092-94-1	PCI/G	Hh	0.138		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.962	0.226	15067-28-4	PCI/G	Hh	0.191		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.103	0.352	13994-20-2	PCI/G	HUh	0.982	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0198	0.062	13981-16-3	PCI/G	HUh	0.116	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	-0.025	0.0353	OER-100-70	PCI/G	HUh	0.115	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-241	R	DOE EML HA	0.281	6.48	14119-32-5	PCI/G	HUh	11.2	15.0	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.1	1.74	13966-00-2	PCI/G	Hh	0.733		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.964	14331-85-2	PCI/G	HUIh	1.13		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.921	0.232	13982-63-3	PCI/G	Hh	0.165		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.11	0.317	15262-20-1	PCI/G	Hh	0.323		1.00	21.4
4.2B.R.1.2	405235025	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	Strontium-90	R	EPA 905.0 M	0.106	0.613	10098-97-2	PCI/G	HUh	1.11	2.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.6	1.95	14133-76-7	PCI/G	HUh	3.46	5.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.267	0.114	14913-50-9	PCI/G	Hh	0.0789		1.00	21.4
4.2B.R.1.2	405235025	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.25	0.633	14274-82-9	PCI/G	Hh	0.569	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0147	0.154	15594-54-4	PCI/G	HUh	0.321	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.922	0.478	14269-63-7	PCI/G	Hh	0.455	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.759	0.412	7440-29-1	PCI/G	Hh	0.289	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.191		PCI/G	HUIh	0.194		1.00	21.4
4.2B.R.1.2	405235025	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.0983	1.82	10028-17-8	PCI/G	HUh	3.39	6.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.00636	0.0594	14158-29-3	PCI/G	HUh	0.138	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.747	0.250	13968-55-3/1	PCI/G	Hh	0.142	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0155	0.0581	15117-96-1/1	PCI/G	HUh	0.0977	1.00	1.00	21.4
4.2B.R.1.2	405235025	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.889	0.271	7440-61-1	PCI/G	Hh	0.142	1.00	1.00	21.4
4.2C.R.1.3	405235026	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	15.3	4.06	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.00958	0.210	14952-40-0	PCI/G	HUh	0.385		1.00	16.6
4.2C.R.1.3	405235026	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0129	0.0441	14596-10-2	PCI/G	HUh	0.0818	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00334	0.0702	14234-35-6	PCI/G	HUh	0.141		1.00	16.6
4.2C.R.1.3	405235026	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	17.4	2.92	12587-47-2	PCI/G	Hh	3.43	10.0	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.670	14913-49-6	PCI/G	HUIh	1.23		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.660	0.159	14733-03-0	PCI/G	Hh	0.0941		1.00	16.6
4.2C.R.1.3	405235026	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.510	0.695	14762-75-5	PCI/G	HUh	1.17	2.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.153	0.0572	10045-97-3	PCI/G	Hh	0.0499	0.100	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0265	0.0292	10198-40-0	PCI/G	HUh	0.0494		1.00	16.6
4.2C.R.1.3	405235026	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0871	OER-100-93	PCI/G	Hh	0.130	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00302	0.0261		PCI/G	HUh	0.0604	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0675	0.0688		PCI/G	Hh	0.068	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0305	0.0757	15585-10-1	PCI/G	HUh	0.171		1.00	16.6
4.2C.R.1.3	405235026	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0231	0.175	15046-84-1	PCI/G	HUh	0.400	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.920	0.119	15092-94-1	PCI/G	Hh	0.0844		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.847	0.170	15067-28-4	PCI/G	Hh	0.107		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Neptunium-237	R	ASTM C 147	0.00244	0.181	13994-20-2	PCI/G	HUh	0.403	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.000592	0.0439	13981-16-3	PCI/G	HUh	0.0976	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	0.0224	0.0514	OER-100-70	PCI/G	Hh	0.0815	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	8.50	6.75	14119-32-5	PCI/G	Hh	11.2	15.0	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.5	1.28	13966-00-2	PCI/G	Hh	0.316		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.661	14331-85-2	PCI/G	HUIh	0.589		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.660	0.159	13982-63-3	PCI/G	Hh	0.0941		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.966	0.306	15262-20-1	PCI/G	Hh	0.196		1.00	16.6
4.2C.R.1.3	405235026	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.601	0.458	10098-97-2	PCI/G	HUh	1.00	2.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.392	1.78	14133-76-7	PCI/G	HUh	3.10	5.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.283	0.0683	14913-50-9	PCI/G	Hh	0.0506		1.00	16.6
4.2C.R.1.3	405235026	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.69	0.824	14274-82-9	PCI/G	Hh	0.601	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.194	0.280	15594-54-4	PCI/G	Hh	0.338	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.793	0.501	14269-63-7	PCI/G	Hh	0.429	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.824	0.497	7440-29-1	PCI/G	Hh	0.336	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.108		PCI/G	HUIh	0.101		1.00	16.6
4.2C.R.1.3	405235026	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.600	1.85	10028-17-8	PCI/G	HUh	3.34	6.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0262	0.0329	14158-29-3	PCI/G	HUh	0.110	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.633	0.216	13968-55-3/1	PCI/G	Hh	0.132	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0314	0.0618	15117-96-1/1	PCI/G	Hh	0.0856	1.00	1.00	16.6
4.2C.R.1.3	405235026	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.530	0.195	7440-61-1	PCI/G	Hh	0.0854	1.00	1.00	16.6
4.2C.R.1.4	405235027	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	12.2	4.79	12587-46-1	PCI/G	Hh	3.89	4.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0503	0.233	14952-40-0	PCI/G	HUh	0.469		1.00	18.2

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.2C.R.1.4	405235027	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.024	0.0424	14596-10-2	PCI/G	Hh	0.0642	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0387	0.108	14234-35-6	PCI/G	HUh	0.200		1.00	18.2
4.2C.R.1.4	405235027	GEL	1597811	1203625435	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	24.0	3.81	12587-47-2	PCI/G	Hh	2.79	10.0	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.03	14913-49-6	PCI/G	HUIh	1.49		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.854	0.191	14733-03-0	PCI/G	Hh	0.114		1.00	18.2
4.2C.R.1.4	405235027	GEL	1598080	1203626126	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.528	0.674	14762-75-5	PCI/G	HUh	1.13	2.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0442	10045-97-3	PCI/G	HUIh	0.0921	0.100	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0217	0.0423	10198-40-0	PCI/G	HUh	0.0754		1.00	18.2
4.2C.R.1.4	405235027	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0737	OER-100-93	PCI/G	Hh	0.110	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00768	0.0232		PCI/G	HUh	0.0651	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1602285	1203636290	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0211	0.0415		PCI/G	Hh	0.0576	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.103	0.106	15585-10-1	PCI/G	HUh	0.254		1.00	18.2
4.2C.R.1.4	405235027	GEL	1598620	1203627437	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0423	0.247	15046-84-1	PCI/G	HUh	0.525	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.963	0.133	15092-94-1	PCI/G	Hh	0.103		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.786	0.187	15067-28-4	PCI/G	Hh	0.126		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596399	1203621715	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.0716	0.507	13994-20-2	PCI/G	HUh	1.02	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.00984	0.0445	13981-16-3	PCI/G	HUh	0.112	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596400	1203621718	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.00403	0.0421	OER-100-70	PCI/G	HUh	0.0878	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596402	1203621725	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	4.77	6.96	14119-32-5	PCI/G	HUh	11.8	15.0	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.0	1.59	13966-00-2	PCI/G	Hh	0.769		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.974	14331-85-2	PCI/G	HUIh	0.862		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.854	0.191	13982-63-3	PCI/G	Hh	0.114		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.865	0.383	15262-20-1	PCI/G	Hh	0.270		1.00	18.2
4.2C.R.1.4	405235027	GEL	1597796	1203625401	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.0791	0.605	10098-97-2	PCI/G	HUh	1.16	2.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1597412	1203624301	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.141	1.93	14133-76-7	PCI/G	HUh	3.33	5.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.357	0.0944	14913-50-9	PCI/G	Hh	0.0644		1.00	18.2
4.2C.R.1.4	405235027	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	0.721	0.573	14274-82-9	PCI/G	Hh	0.661	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.164	0.261	15594-54-4	PCI/G	Hh	0.361	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.911	0.495	14269-63-7	PCI/G	Hh	0.195	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596395	1203621706	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.10	0.540	7440-29-1	PCI/G	Hh	0.195	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596249	1203621354	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.126		PCI/G	HUIh	0.158		1.00	18.2
4.2C.R.1.4	405235027	GEL	1598075	1203626098	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	1.19	1.90	10028-17-8	PCI/G	HUh	3.29	6.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0321	0.0366	14158-29-3	PCI/G	HUh	0.125	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.982	0.280	13968-55-3/1	PCI/G	Hh	0.0966	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0558	0.0803	15117-96-1/1	PCI/G	Hh	0.0969	1.00	1.00	18.2
4.2C.R.1.4	405235027	GEL	1596396	1203621709	SAMPLE	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.968	0.280	7440-61-1	PCI/G	Hh	0.133	1.00	1.00	18.2
4.3.AR1.3	405235028	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.1	3.58	12587-46-1	PCI/G	Hh	3.89	4.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.136	0.253	14952-40-0	PCI/G	HUh	0.394		1.00	22.7
4.3.AR1.3	405235028	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0504	0.0708	14596-10-2	PCI/G	Hh	0.110	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0174	0.113	14234-35-6	PCI/G	HUh	0.226		1.00	22.7
4.3.AR1.3	405235028	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	47.8	3.72	12587-47-2	PCI/G	Hh	2.57	10.0	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.84	0.908	14913-49-6	PCI/G	Hh	0.822		1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.04	0.178	14733-03-0	PCI/G	Hh	0.117		1.00	22.7
4.3.AR1.3	405235028	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.394	0.710	14762-75-5	PCI/G	HUh	1.20	2.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.132	0.0782	10045-97-3	PCI/G	Hh	0.0728	0.100	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00215	0.0369	10198-40-0	PCI/G	HUh	0.0767		1.00	22.7
4.3.AR1.3	405235028	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0981	OER-100-93	PCI/G	Hh	0.146	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0139	0.0474		PCI/G	HUh	0.0879	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.090	0.0781		PCI/G	HXh	0.045	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0403	0.114	15585-10-1	PCI/G	HUh	0.250		1.00	22.7
4.3.AR1.3	405235028	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.211	0.243	15046-84-1	PCI/G	HUh	0.342	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.19	0.139	15092-94-1	PCI/G	Hh	0.102		1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.12	0.163	15067-28-4	PCI/G	Hh	0.364		1.00	22.7
4.3.AR1.3	405235028	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0874	0.298	13994-20-2	PCI/G	HUh	0.830	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.00618	0.0273	13981-16-3	PCI/G	HUh	0.0713	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.0292	0.0516	OER-100-70	PCI/G	Hh	0.0781	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	11.2	6.89	14119-32-5	PCI/G	Hh	11.3	15.0	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.6	1.63	13966-00-2	PCI/G	Hh	0.578		1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.745	14331-85-2	PCI/G	HUIh	0.746		1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.04	0.178	13982-63-3	PCI/G	Hh	0.117		1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.827	0.270	15262-20-1	PCI/G	Hh	0.270		1.00	22.7
4.3.AR1.3	405235028	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.331	0.532	10098-97-2	PCI/G	HUh	0.931	2.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.604	1.89	14133-76-7	PCI/G	HUh	3.24	5.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.355	0.0778	14913-50-9	PCI/G	Hh	0.0518		1.00	22.7
4.3.AR1.3	405235028	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.22	0.837	14274-82-9	PCI/G	Hh	0.925	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0633	0.237	15594-54-4	PCI/G	HUh	0.399	1.00	1.00	22.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.3.AR1.3	405235028	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	1.23	0.653	14269-63-7	PCI/G	Hh	0.398	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.72	0.763	7440-29-1	PCI/G	Hh	0.397	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0334	0.163		PCI/G	HUh	0.157		1.00	22.7
4.3.AR1.3	405235028	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	-0.54	1.80	10028-17-8	PCI/G	HUh	3.51	6.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0116	0.0349	14158-29-3	PCI/G	HUh	0.0981	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.999	0.242	13968-55-3/1	PCI/G	Hh	0.0907	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0453	0.0671	15117-96-1/1	PCI/G	Hh	0.0982	1.00	1.00	22.7
4.3.AR1.3	405235028	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.880	0.228	7440-61-1	PCI/G	Hh	0.0907	1.00	1.00	22.7
4.3.B.R.1.3	405235029	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	9.55	3.39	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.175	0.417	14952-40-0	PCI/G	HUh	0.478		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00423	0.0482	14596-10-2	PCI/G	HUh	0.102	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0671	0.122	14234-35-6	PCI/G	HUh	0.215		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	17.6	2.35	12587-47-2	PCI/G	Hh	2.24	10.0	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.03	0.964	14913-49-6	PCI/G	Hh	0.907		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.758	0.185	14733-03-0	PCI/G	Hh	0.144		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.285	0.621	14762-75-5	PCI/G	HUh	1.06	2.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.311	0.0801	10045-97-3	PCI/G	Hh	0.0706	0.100	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00176	0.0368	10198-40-0	PCI/G	HUh	0.0743		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0988	OER-100-93	PCI/G	Hh	0.147	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0193	0.0312		PCI/G	HUh	0.0993	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0151	0.0425		PCI/G	Hh	0.0453	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00	0.146	15585-10-1	PCI/G	HUIh	0.254		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0502	0.218	15046-84-1	PCI/G	HUh	0.521	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.07	0.131	15092-94-1	PCI/G	Hh	0.098		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.16	0.194	15067-28-4	PCI/G	Hh	0.327		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.079	0.334	13994-20-2	PCI/G	HUh	0.890	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0475	0.0602	13981-16-3	PCI/G	Hh	0.0748	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.0204	0.0468	OER-100-70	PCI/G	Hh	0.0743	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	4.01	7.21	14119-32-5	PCI/G	HUh	12.3	15.0	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.2	1.49	13966-00-2	PCI/G	Hh	0.502		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.864	14331-85-2	PCI/G	HUIh	0.886		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.758	0.185	13982-63-3	PCI/G	Hh	0.144		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.859	0.295	15262-20-1	PCI/G	Hh	0.274		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.278	0.515	10098-97-2	PCI/G	HUh	0.919	2.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.373	1.92	14133-76-7	PCI/G	HUh	3.29	5.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.323	0.0806	14913-50-9	PCI/G	Hh	0.0667		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	0.924	0.671	14274-82-9	PCI/G	Hh	0.558	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0608	0.228	15594-54-4	PCI/G	HUh	0.383	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.762	0.551	14269-63-7	PCI/G	Hh	0.590	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.06	0.608	7440-29-1	PCI/G	Hh	0.486	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.194		PCI/G	HUIh	0.137		1.00	19.3
4.3.B.R.1.3	405235029	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	1.23	1.94	10028-17-8	PCI/G	HUh	3.37	6.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.00507	0.0708	14158-29-3	PCI/G	HUh	0.150	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.716	0.215	13968-55-3/1	PCI/G	Hh	0.112	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0442	0.0637	15117-96-1/1	PCI/G	Hh	0.0768	1.00	1.00	19.3
4.3.B.R.1.3	405235029	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.635	0.201	7440-61-1	PCI/G	Hh	0.0766	1.00	1.00	19.3
4.3A.R.2.3	405235030	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.9	3.89	12587-46-1	PCI/G	Hh	3.93	4.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.158	0.210	14952-40-0	PCI/G	HUh	0.431		1.00	23.9
4.3A.R.2.3	405235030	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0222	0.0436	14596-10-2	PCI/G	Hh	0.0604	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0273	0.0935	14234-35-6	PCI/G	HUh	0.186		1.00	23.9
4.3A.R.2.3	405235030	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	21.5	3.01	12587-47-2	PCI/G	Hh	3.28	10.0	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.02	14913-49-6	PCI/G	HUIh	1.45		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.800	0.189	14733-03-0	PCI/G	Hh	0.129		1.00	23.9
4.3A.R.2.3	405235030	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.092	0.760	14762-75-5	PCI/G	HUh	1.30	2.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0731	0.0455	10045-97-3	PCI/G	Hh	0.0548	0.100	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0237	0.036	10198-40-0	PCI/G	HUh	0.0822		1.00	23.9
4.3A.R.2.3	405235030	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0943	OER-100-93	PCI/G	Hh	0.140	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0154	0.0291		PCI/G	HUh	0.0899	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0254	0.0498		PCI/G	Hh	0.0691	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0571	0.0973	15585-10-1	PCI/G	HUh	0.175		1.00	23.9
4.3A.R.2.3	405235030	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0659	0.232	15046-84-1	PCI/G	HUh	0.443	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.25	0.128	15092-94-1	PCI/G	Hh	0.089		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.958	0.163	15067-28-4	PCI/G	Hh	0.119		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.164	0.405	13994-20-2	PCI/G	HUh	1.21	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0227	0.0625	13981-16-3	PCI/G	HUh	0.108	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.0183	0.0626	OER-100-70	PCI/G	HUh	0.116	1.00	1.00	23.9

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.3A.R.2.3	405235030	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	1.02	6.76	14119-32-5	PCI/G	HUh	11.6	15.0	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.1	1.51	13966-00-2	PCI/G	Hh	0.378		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.768	14331-85-2	PCI/G	HUIh	0.724		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.800	0.189	13982-63-3	PCI/G	Hh	0.129		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.975	0.282	15262-20-1	PCI/G	Hh	0.216		1.00	23.9
4.3A.R.2.3	405235030	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.253	0.522	10098-97-2	PCI/G	HUh	1.07	2.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.298	2.09	14133-76-7	PCI/G	HUh	3.60	5.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.442	0.0829	14913-50-9	PCI/G	Hh	0.0427		1.00	23.9
4.3A.R.2.3	405235030	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.13	0.680	14274-82-9	PCI/G	Hh	0.556	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.00274	0.203	15594-54-4	PCI/G	HUh	0.451	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.976	0.539	14269-63-7	PCI/G	Hh	0.417	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.21	0.584	7440-29-1	PCI/G	Hh	0.327	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.123		PCI/G	HUIh	0.117		1.00	23.9
4.3A.R.2.3	405235030	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.263	1.93	10028-17-8	PCI/G	HUh	3.56	6.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.00403	0.0422	14158-29-3	PCI/G	HUh	0.088	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.972	0.233	13968-55-3/1	PCI/G	Hh	0.0429	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0109	0.0409	15117-96-1/1	PCI/G	HUh	0.0687	1.00	1.00	23.9
4.3A.R.2.3	405235030	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.830	0.218	7440-61-1	PCI/G	Hh	0.0942	1.00	1.00	23.9
4.3.BR19.2	405235031	GEL	1597811	1203625435	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	15.8	5.45	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0527	0.229	14952-40-0	PCI/G	HUh	0.452		1.00	22.6
4.3.BR19.2	405235031	GEL	1602285	1203636290	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0553	0.0632	14596-10-2	PCI/G	Hh	0.0789	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0864	0.112	14234-35-6	PCI/G	HUh	0.193		1.00	22.6
4.3.BR19.2	405235031	GEL	1597811	1203625435	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	16.6	3.36	12587-47-2	PCI/G	Hh	2.69	10.0	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.824	0.649	14913-49-6	PCI/G	Hh	0.797		1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.983	0.202	14733-03-0	PCI/G	Hh	0.121		1.00	22.6
4.3.BR19.2	405235031	GEL	1598080	1203626126	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.478	0.721	14762-75-5	PCI/G	HUh	1.22	2.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.205	0.067	10045-97-3	PCI/G	Hh	0.0539	0.100	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0189	0.0354	10198-40-0	PCI/G	HUh	0.0648		1.00	22.6
4.3.BR19.2	405235031	GEL	1602285	1203636290	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.0227	0.100	OER-100-93	PCI/G	HUh	0.262	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1602285	1203636290	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00683	0.0379		PCI/G	HUh	0.0727	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1602285	1203636290	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0591	0.0651		PCI/G	HXh	0.0443	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0583	0.118	15585-10-1	PCI/G	HUh	0.257		1.00	22.6
4.3.BR19.2	405235031	GEL	1598620	1203627437	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00	0.263	15046-84-1	PCI/G	HUh	0.578	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.16	0.140	15092-94-1	PCI/G	Hh	0.0934		1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.243	15067-28-4	PCI/G	Hh	0.138		1.00	22.6
4.3.BR19.2	405235031	GEL	1596399	1203621715	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 1475	-0.0742	0.314	13994-20-2	PCI/G	HUh	0.837	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596400	1203621718	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.0083	0.0367	13981-16-3	PCI/G	HUh	0.0958	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596400	1203621718	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	-0.00825	0.0365	OER-100-70	PCI/G	HUh	0.0951	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596402	1203621725	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	3.98	6.37	14119-32-5	PCI/G	HUh	10.8	15.0	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.0	1.54	13966-00-2	PCI/G	Hh	0.749		1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0906	0.528	14331-85-2	PCI/G	HUh	0.926		1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.983	0.202	13982-63-3	PCI/G	Hh	0.121		1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.898	0.342	15262-20-1	PCI/G	Hh	0.273		1.00	22.6
4.3.BR19.2	405235031	GEL	1597796	1203625401	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.0157	0.569	10098-97-2	PCI/G	HUh	1.07	2.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1597412	1203624301	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.361	2.05	14133-76-7	PCI/G	HUh	3.51	5.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.275	0.0953	14913-50-9	PCI/G	Hh	0.0655		1.00	22.6
4.3.BR19.2	405235031	GEL	1596395	1203621706	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.18	0.756	14274-82-9	PCI/G	Hh	0.883	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596395	1203621706	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0846	0.233	15594-54-4	PCI/G	HUh	0.404	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596395	1203621706	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.841	0.485	14269-63-7	PCI/G	Hh	0.316	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596395	1203621706	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.889	0.502	7440-29-1	PCI/G	Hh	0.364	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596249	1203621354	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.193		PCI/G	HUIh	0.178		1.00	22.6
4.3.BR19.2	405235031	GEL	1598075	1203626098	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	2.12	2.18	10028-17-8	PCI/G	Hh	3.63	6.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596396	1203621709	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0215	0.0886	14158-29-3	PCI/G	HUh	0.192	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596396	1203621709	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.823	0.220	13968-55-3/1	PCI/G	Hh	0.0967	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596396	1203621709	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0295	0.0505	15117-96-1/1	PCI/G	Hh	0.0442	1.00	1.00	22.6
4.3.BR19.2	405235031	GEL	1596396	1203621709	SAMPLE	TARGET	11/26/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.790	0.216	7440-61-1	PCI/G	Hh	0.103	1.00	1.00	22.6
4.3B.R.3.3	405235032	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	10.2	3.66	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0296	0.282	14952-40-0	PCI/G	HUh	0.548		1.00	20.4
4.3B.R.3.3	405235032	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0257	0.0323	14596-10-2	PCI/G	HUh	0.108	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0866	0.125	14234-35-6	PCI/G	HUh	0.218		1.00	20.4
4.3B.R.3.3	405235032	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	18.7	2.95	12587-47-2	PCI/G	Hh	3.23	10.0	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.88	1.03	14913-49-6	PCI/G	Hh	1.12		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.958	0.189	14733-03-0	PCI/G	Hh	0.144		1.00	20.4
4.3B.R.3.3	405235032	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.471	0.673	14762-75-5	PCI/G	HUh	1.14	2.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.206	0.113	10045-97-3	PCI/G	Hh	0.094	0.100	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00618	0.0448	10198-40-0	PCI/G	HUh	0.0942		1.00	20.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.3B.R.3.3	405235032	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.100	OER-100-93	PCI/G	Hh	0.149	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00978	0.0295		PCI/G	HUh	0.083	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0306	0.0524		PCI/G	Hh	0.0458	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0346	0.178	15585-10-1	PCI/G	HUh	0.293		1.00	20.4
4.3B.R.3.3	405235032	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0975	0.327	15046-84-1	PCI/G	HUh	0.752	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.19	0.153	15092-94-1	PCI/G	Hh	0.0997		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.866	0.237	15067-28-4	PCI/G	Hh	0.141		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0581	0.325	13994-20-2	PCI/G	HUh	0.821	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0429	0.0759	13981-16-3	PCI/G	Hh	0.115	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0314	0.0443	OER-100-70	PCI/G	HUh	0.145	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	6.06	7.07	14119-32-5	PCI/G	Hh	11.9	15.0	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.9	1.78	13966-00-2	PCI/G	Hh	0.766		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.887	14331-85-2	PCI/G	HUIh	0.912		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.958	0.189	13982-63-3	PCI/G	Hh	0.144		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.06	0.350	15262-20-1	PCI/G	Hh	0.270		1.00	20.4
4.3B.R.3.3	405235032	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.266	0.285	10098-97-2	PCI/G	HUh	0.661	2.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.182	1.82	14133-76-7	PCI/G	HUh	3.16	5.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.279	0.109	14913-50-9	PCI/G	Hh	0.0719		1.00	20.4
4.3B.R.3.3	405235032	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.53	0.773	14274-82-9	PCI/G	Hh	0.493	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.105	0.240	15594-54-4	PCI/G	Hh	0.381	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.601	0.428	14269-63-7	PCI/G	Hh	0.329	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.16	0.570	7440-29-1	PCI/G	Hh	0.205	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.114		PCI/G	HUIh	0.122		1.00	20.4
4.3B.R.3.3	405235032	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	1.33	2.09	10028-17-8	PCI/G	HUh	3.62	6.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.0376	0.0865	14158-29-3	PCI/G	HUh	0.157	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.898	0.292	13968-55-3/1	PCI/G	Hh	0.143	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0885	0.104	15117-96-1/1	PCI/G	Hh	0.113	1.00	1.00	20.4
4.3B.R.3.3	405235032	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.616	0.244	7440-61-1	PCI/G	Hh	0.143	1.00	1.00	20.4
4.3B.R.3.4	405235033	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	11.6	3.82	12587-46-1	PCI/G	Hh	4.00	4.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.026	0.173	14952-40-0	PCI/G	HUh	0.318		1.00	17.6
4.3B.R.3.4	405235033	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.00952	0.0287	14596-10-2	PCI/G	HUh	0.0808	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0033	0.0849	14234-35-6	PCI/G	HUh	0.168		1.00	17.6
4.3B.R.3.4	405235033	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	15.8	2.74	12587-47-2	PCI/G	Hh	2.75	10.0	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.525	14913-49-6	PCI/G	HUIh	1.09		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.742	0.158	14733-03-0	PCI/G	Hh	0.103		1.00	17.6
4.3B.R.3.4	405235033	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/23/16	405235	Carbon-14	R	EPA EERF C	0.116	0.649	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0502	0.043	10045-97-3	PCI/G	Hh	0.0647	0.100	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.029	0.0378	10198-40-0	PCI/G	HUh	0.0623		1.00	17.6
4.3B.R.3.4	405235033	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0989	OER-100-93	PCI/G	Hh	0.147	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0237	0.0465		PCI/G	Hh	0.0645	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0302	0.0518		PCI/G	Hh	0.0453	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.021	0.108	15585-10-1	PCI/G	HUh	0.217		1.00	17.6
4.3B.R.3.4	405235033	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0794	0.131	15046-84-1	PCI/G	HUh	0.465	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.937	0.110	15092-94-1	PCI/G	Hh	0.0737		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.954	0.157	15067-28-4	PCI/G	Hh	0.274		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.128	0.406	13994-20-2	PCI/G	Hh	0.612	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.0149	0.045	13981-16-3	PCI/G	HUh	0.126	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.0214	0.073	OER-100-70	PCI/G	HUh	0.135	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	1.91	7.82	14119-32-5	PCI/G	HUh	13.4	15.0	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.5	1.33	13966-00-2	PCI/G	Hh	0.511		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.704	14331-85-2	PCI/G	HUIh	0.577		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.742	0.158	13982-63-3	PCI/G	Hh	0.103		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.994	0.240	15262-20-1	PCI/G	Hh	0.190		1.00	17.6
4.3B.R.3.4	405235033	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	Strontium-90	R	EPA 905.0 M	-0.398	0.450	10098-97-2	PCI/G	HUh	0.962	2.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.37	1.92	14133-76-7	PCI/G	HUh	3.39	5.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.210	0.074	14913-50-9	PCI/G	Hh	0.0516		1.00	17.6
4.3B.R.3.4	405235033	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	0.674	0.656	14274-82-9	PCI/G	Hh	0.720	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.026	0.272	15594-54-4	PCI/G	HUh	0.568	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.587	0.559	14269-63-7	PCI/G	Hh	0.719	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.788	0.578	7440-29-1	PCI/G	Hh	0.512	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.114		PCI/G	HUIh	0.0574		1.00	17.6
4.3B.R.3.4	405235033	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.606	1.83	10028-17-8	PCI/G	HUh	3.30	6.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.023	0.102	14158-29-3	PCI/G	HUh	0.196	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.633	0.231	13968-55-3/1	PCI/G	Hh	0.115	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0783	0.0923	15117-96-1/1	PCI/G	Hh	0.0998	1.00	1.00	17.6
4.3B.R.3.4	405235033	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.981	0.285	7440-61-1	PCI/G	Hh	0.127	1.00	1.00	17.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.3.B.R.1.4	405235034	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	13.5	4.12	12587-46-1	PCI/G	Hh	3.90	4.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0244	0.193	14952-40-0	PCI/G	HUh	0.375		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.000508	0.0376	14596-10-2	PCI/G	HUh	0.0837	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00164	0.0904	14234-35-6	PCI/G	HUh	0.175		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	16.3	2.90	12587-47-2	PCI/G	Hh	3.06	10.0	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.612	14913-49-6	PCI/G	HUlh	1.32		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.717	0.174	14733-03-0	PCI/G	Hh	0.109		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.354	0.674	14762-75-5	PCI/G	HUh	1.14	2.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.111	0.0865	10045-97-3	PCI/G	Hh	0.0748	0.100	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0135	0.0362	10198-40-0	PCI/G	HUh	0.0771		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.0471	0.132	OER-100-93	PCI/G	Hh	0.141	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0196	0.0451		PCI/G	Hh	0.0715	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.029	0.0497		PCI/G	Hh	0.0435	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.114	0.101	15585-10-1	PCI/G	HUh	0.153		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00	0.198	15046-84-1	PCI/G	HUlh	0.273	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.16	0.129	15092-94-1	PCI/G	Hh	0.0892		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.06	0.185	15067-28-4	PCI/G	Hh	0.313		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.00	0.350	13994-20-2	PCI/G	Hh	0.532	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0116	0.0433	13981-16-3	PCI/G	HUh	0.0729	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00725	0.0321	OER-100-70	PCI/G	HUh	0.0837	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	3.52	5.71	14119-32-5	PCI/G	HUh	9.67	15.0	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.3	1.48	13966-00-2	PCI/G	Hh	0.643		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.882	14331-85-2	PCI/G	HUlh	0.684		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.717	0.174	13982-63-3	PCI/G	Hh	0.109		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.967	0.285	15262-20-1	PCI/G	Hh	0.196		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.0669	0.493	10098-97-2	PCI/G	HUh	0.914	2.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.28	1.93	14133-76-7	PCI/G	HUh	3.41	5.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.292	0.0785	14913-50-9	PCI/G	Hh	0.0461		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.25	0.716	14274-82-9	PCI/G	Hh	0.623	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.00	0.136	15594-54-4	PCI/G	Hh	0.202	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.470	0.373	14269-63-7	PCI/G	Hh	0.201	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.987	0.526	7440-29-1	PCI/G	Hh	0.321	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0419	0.122		PCI/G	HUh	0.127		1.00	19.6
4.3.B.R.1.4	405235034	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.877	1.93	10028-17-8	PCI/G	HUh	3.41	6.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.0252	0.074	14158-29-3	PCI/G	HUh	0.138	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.998	0.329	13968-55-3/1	PCI/G	Hh	0.164	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0806	0.106	15117-96-1/1	PCI/G	Hh	0.0806	1.00	1.00	19.6
4.3.B.R.1.4	405235034	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	1.03	0.333	7440-61-1	PCI/G	Hh	0.164	1.00	1.00	19.6
4.3B.R.2.3	405235035	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	7.78	3.10	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0482	0.212	14952-40-0	PCI/G	HUh	0.400		1.00	16.3
4.3B.R.2.3	405235035	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0348	0.0553	14596-10-2	PCI/G	Hh	0.0764	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0602	0.101	14234-35-6	PCI/G	HUh	0.197		1.00	16.3
4.3B.R.2.3	405235035	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	20.8	2.86	12587-47-2	PCI/G	Hh	3.36	10.0	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.839	0.578	14913-49-6	PCI/G	Hh	1.02		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.668	0.175	14733-03-0	PCI/G	Hh	0.114		1.00	16.3
4.3B.R.2.3	405235035	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.342	0.665	14762-75-5	PCI/G	HUh	1.13	2.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0251	0.0614	10045-97-3	PCI/G	HUh	0.0681	0.100	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0136	0.0372	10198-40-0	PCI/G	HUh	0.0708		1.00	16.3
4.3B.R.2.3	405235035	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.0389	0.146	OER-100-93	PCI/G	HUh	0.246	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.014	0.0395		PCI/G	Hh	0.0421	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0318		PCI/G	Hh	0.0473	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0382	0.0958	15585-10-1	PCI/G	HUh	0.210		1.00	16.3
4.3B.R.2.3	405235035	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0528	0.393	15046-84-1	PCI/G	HUh	0.914	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.937	0.124	15092-94-1	PCI/G	Hh	0.0806		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.769	0.209	15067-28-4	PCI/G	Hh	0.113		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0184	0.305	13994-20-2	PCI/G	HUh	0.646	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.00871	0.0602	13981-16-3	PCI/G	HUh	0.146	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0181	0.0612	OER-100-70	PCI/G	HUh	0.159	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	2.11	7.34	14119-32-5	PCI/G	HUh	12.6	15.0	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.3	1.37	13966-00-2	PCI/G	Hh	0.533		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.650	14331-85-2	PCI/G	HUlh	0.717		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.668	0.175	13982-63-3	PCI/G	Hh	0.114		1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.974	0.239	15262-20-1	PCI/G	Hh	0.193		1.00	16.3
4.3B.R.2.3	405235035	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.472	0.450	10098-97-2	PCI/G	HUh	0.969	2.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.35	1.80	14133-76-7	PCI/G	HUh	3.18	5.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.225	0.0773	14913-50-9	PCI/G	Hh	0.0633		1.00	16.3

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.3B.R.2.3	405235035	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.21	0.753	14274-82-9	PCI/G	Hh	0.731	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.00	0.147	15594-54-4	PCI/G	Hh	0.219	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	1.09	0.572	14269-63-7	PCI/G	Hh	0.219	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.927	0.535	7440-29-1	PCI/G	Hh	0.348	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.149		PCI/G	HUIh	0.120		1.00	16.3
4.3B.R.2.3	405235035	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	0.970	1.89	10028-17-8	PCI/G	HUh	3.32	6.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.098	0.225	14158-29-3	PCI/G	HUh	0.408	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.933	0.352	13968-55-3/1	PCI/G	Hh	0.212	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0335	0.115	15117-96-1/1	PCI/G	HUh	0.212	1.00	1.00	16.3
4.3B.R.2.3	405235035	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.731	0.309	7440-61-1	PCI/G	Hh	0.154	1.00	1.00	16.3
4.3B.R.2.4	405235036	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	8.65	3.14	12587-46-1	PCI/G	Hh	3.86	4.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0376	0.234	14952-40-0	PCI/G	HUh	0.439		1.00	17.7
4.3B.R.2.4	405235036	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0192	0.0309	14596-10-2	PCI/G	HUh	0.0986	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.121	0.124	14234-35-6	PCI/G	HUh	0.281		1.00	17.7
4.3B.R.2.4	405235036	GEL	1597811	1203625435	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	17.3	2.42	12587-47-2	PCI/G	Hh	2.48	10.0	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.895	14913-49-6	PCI/G	HUIh	1.62		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.815	0.184	14733-03-0	PCI/G	Hh	0.136		1.00	17.7
4.3B.R.2.4	405235036	GEL	1598080	1203626126	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.434	0.690	14762-75-5	PCI/G	HUh	1.17	2.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0114	0.0402	10045-97-3	PCI/G	HUh	0.0854	0.100	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.028	0.0465	10198-40-0	PCI/G	HUh	0.0852		1.00	17.7
4.3B.R.2.4	405235036	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.0996	OER-100-93	PCI/G	Hh	0.148	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00704	0.0391		PCI/G	HUh	0.075	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1602285	1203636290	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0609	0.0671		PCI/G	HXh	0.0457	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0695	0.143	15585-10-1	PCI/G	HUh	0.308		1.00	17.7
4.3B.R.2.4	405235036	GEL	1598620	1203627437	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	3.93E-05	0.167	15046-84-1	PCI/G	HUh	0.352	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.934	0.135	15092-94-1	PCI/G	Hh	0.0982		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.850	0.194	15067-28-4	PCI/G	Hh	0.117		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596399	1203621715	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.149	0.366	13994-20-2	PCI/G	HUh	1.09	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0223	0.0613	13981-16-3	PCI/G	HUh	0.106	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596400	1203621718	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.018	0.0614	OER-100-70	PCI/G	HUh	0.114	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596402	1203621725	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	0.212	6.32	14119-32-5	PCI/G	HUh	10.9	15.0	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.6	1.77	13966-00-2	PCI/G	Hh	0.713		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.928	14331-85-2	PCI/G	HUIh	0.658		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.815	0.184	13982-63-3	PCI/G	Hh	0.136		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.922	0.308	15262-20-1	PCI/G	Hh	0.249		1.00	17.7
4.3B.R.2.4	405235036	GEL	1597796	1203625401	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.159	0.339	10098-97-2	PCI/G	HUh	0.727	2.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1597412	1203624301	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.0134	1.77	14133-76-7	PCI/G	HUh	3.05	5.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.235	0.111	14913-50-9	PCI/G	Hh	0.0556		1.00	17.7
4.3B.R.2.4	405235036	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.23	0.706	14274-82-9	PCI/G	Hh	0.615	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0504	0.189	15594-54-4	PCI/G	HUh	0.318	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.711	0.451	14269-63-7	PCI/G	Hh	0.317	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596395	1203621706	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.709	0.450	7440-29-1	PCI/G	Hh	0.316	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596249	1203621354	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.146		PCI/G	HUIh	0.131		1.00	17.7
4.3B.R.2.4	405235036	GEL	1598075	1203626098	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M	1.79	2.04	10028-17-8	PCI/G	Hh	3.43	6.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.0193	0.0673	14158-29-3	PCI/G	HUh	0.128	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.786	0.374	13968-55-3/1	PCI/G	Hh	0.235	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.075	0.147	15117-96-1/1	PCI/G	Hh	0.204	1.00	1.00	17.7
4.3B.R.2.4	405235036	GEL	1596396	1203621709	SAMPLE	TARGET	11/23/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	1.06	0.425	7440-61-1	PCI/G	Hh	0.127	1.00	1.00	17.7
4.4C.R.2.4	405235037	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	8.01	3.21	12587-46-1	PCI/G	Hh	3.85	4.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0456	0.176	14952-40-0	PCI/G	HUh	0.342		1.00	6.23
4.4C.R.2.4	405235037	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/01/16	405235	Americium-241	R	DOE EML HA	-0.00816	0.0669	14596-10-2	PCI/G	HUh	0.163	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0696	0.0879	14234-35-6	PCI/G	HUh	0.190		1.00	6.23
4.4C.R.2.4	405235037	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	15.9	2.27	12587-47-2	PCI/G	Hh	2.13	10.0	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.766	14913-49-6	PCI/G	HUIh	1.20		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.632	0.169	14733-03-0	PCI/G	Hh	0.112		1.00	6.23
4.4C.R.2.4	405235037	GEL	1598080	1203626126	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.0748	0.588	14762-75-5	PCI/G	HUh	1.01	2.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0137	0.0379	10045-97-3	PCI/G	HUh	0.0798	0.100	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0144	0.0333	10198-40-0	PCI/G	HUh	0.0619		1.00	6.23
4.4C.R.2.4	405235037	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/01/16	405235	Curium-242	R	DOE EML HA	0.00	0.165	OER-100-93	PCI/G	Hh	0.250	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/01/16	405235	Curium-243/244	R	DOE EML HA	-0.0253	0.0494		PCI/G	HUh	0.155	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/01/16	405235	Curium-245/246	R	DOE EML HA	0.102	0.116		PCI/G	Hh	0.113	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0683	0.139	15585-10-1	PCI/G	HUh	0.292		1.00	6.23
4.4C.R.2.4	405235037	GEL	1598620	1203627437	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0144	0.221	15046-84-1	PCI/G	HUh	0.437	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.766	0.124	15092-94-1	PCI/G	Hh	0.0852		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.827	0.178	15067-28-4	PCI/G	Hh	0.278		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596399	1203621715	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.139	0.302	13994-20-2	PCI/G	HUh	0.930	1.00	1.00	6.23

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4C.R.2.4	405235037	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Plutonium-238	R	DOE EML HA	-0.016	0.0483	13981-16-3	PCI/G	HUh	0.136	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Plutonium-239/24(	R	DOE EML HA	-0.0371	0.0523	OER-100-70	PCI/G	HUh	0.171	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596402	1203621725	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	3.80	8.24	14119-32-5	PCI/G	HUh	14.0	15.0	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3(	11.9	1.42	13966-00-2	PCI/G	Hh	0.497		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3(	0.00	0.889	14331-85-2	PCI/G	HUIh	0.681		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3(	0.632	0.169	13982-63-3	PCI/G	Hh	0.112		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3(	0.545	0.228	15262-20-1	PCI/G	Hh	0.202		1.00	6.23
4.4C.R.2.4	405235037	GEL	1597796	1203625401	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M(	-0.427	0.519	10098-97-2	PCI/G	HUh	1.11	2.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1597412	1203624301	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.14	1.48	14133-76-7	PCI/G	HUh	2.62	5.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3(	0.210	0.0801	14913-50-9	PCI/G	Hh	0.0604		1.00	6.23
4.4C.R.2.4	405235037	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.12	0.782	14274-82-9	PCI/G	Hh	0.683	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0679	0.255	15594-54-4	PCI/G	HUh	0.428	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.224	0.357	14269-63-7	PCI/G	Hh	0.493	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.558	0.499	7440-29-1	PCI/G	Hh	0.543	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3(	0.00	0.0738		PCI/G	HUIh	0.0866		1.00	6.23
4.4C.R.2.4	405235037	GEL	1598075	1203626098	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Tritium	R	EPA 906.0 M(	1.19	1.73	10028-17-8	PCI/G	HUh	2.97	6.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.060	0.102	14158-29-3	PCI/G	HUh	0.178	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.295	0.371	13968-55-3/1	PCI/G	Hh	0.572	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	-0.0582	0.135	15117-96-1/1	PCI/G	HUh	0.399	1.00	1.00	6.23
4.4C.R.2.4	405235037	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.454	0.359	7440-61-1	PCI/G	Hh	0.334	1.00	1.00	6.23
4.4C.R.1.3	405235038	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	11.4	3.53	12587-46-1	PCI/G	Hh	3.90	4.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3(	-0.024	0.214	14952-40-0	PCI/G	HUh	0.373		1.00	16.3
4.4C.R.1.3	405235038	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.016	0.045	14596-10-2	PCI/G	Hh	0.0481	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3(	-0.0676	0.0977	14234-35-6	PCI/G	HUh	0.170		1.00	16.3
4.4C.R.1.3	405235038	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	15.6	2.33	12587-47-2	PCI/G	Hh	2.41	10.0	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3(	0.00	1.34	14913-49-6	PCI/G	HUIh	1.34		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3(	0.567	0.155	14733-03-0	PCI/G	Hh	0.132		1.00	16.3
4.4C.R.1.3	405235038	GEL	1598080	1203626126	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.700	0.638	14762-75-5	PCI/G	Hh	1.07	2.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3(	0.115	0.0596	10045-97-3	PCI/G	Hh	0.0624	0.100	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3(	0.0113	0.0424	10198-40-0	PCI/G	HUh	0.0894		1.00	16.3
4.4C.R.1.3	405235038	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.116	OER-100-93	PCI/G	Hh	0.173	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.00781	0.0345		PCI/G	HUh	0.0901	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0366	0.0628		PCI/G	Hh	0.0549	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3(	-0.0421	0.122	15585-10-1	PCI/G	HUh	0.231		1.00	16.3
4.4C.R.1.3	405235038	GEL	1598620	1203627437	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0563	0.191	15046-84-1	PCI/G	HUh	0.434	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3(	0.937	0.121	15092-94-1	PCI/G	Hh	0.0868		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3(	0.776	0.168	15067-28-4	PCI/G	Hh	0.114		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596399	1203621715	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147!	-0.0866	0.295	13994-20-2	PCI/G	HUh	0.822	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0287	0.066	13981-16-3	PCI/G	Hh	0.105	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24(	R	DOE EML HA	-0.00902	0.0399	OER-100-70	PCI/G	HUh	0.104	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596402	1203621725	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	-5.78	7.72	14119-32-5	PCI/G	HUh	13.7	15.0	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3(	12.4	1.44	13966-00-2	PCI/G	Hh	0.658		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3(	0.00	0.599	14331-85-2	PCI/G	HUIh	0.740		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3(	0.567	0.155	13982-63-3	PCI/G	Hh	0.132		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3(	0.819	0.386	15262-20-1	PCI/G	Hh	0.260		1.00	16.3
4.4C.R.1.3	405235038	GEL	1597796	1203625401	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M(	-0.784	0.594	10098-97-2	PCI/G	HUh	1.26	2.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1597412	1203624301	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.739	1.84	14133-76-7	PCI/G	HUh	3.14	5.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3(	0.285	0.0667	14913-50-9	PCI/G	Hh	0.0613		1.00	16.3
4.4C.R.1.3	405235038	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.30	0.853	14274-82-9	PCI/G	Hh	0.803	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.246	0.355	15594-54-4	PCI/G	Hh	0.428	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.891	0.581	14269-63-7	PCI/G	Hh	0.267	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	1.33	0.698	7440-29-1	PCI/G	Hh	0.266	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3(	0.00	0.194		PCI/G	HUIh	0.135		1.00	16.3
4.4C.R.1.3	405235038	GEL	1598075	1203626098	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 M(	1.35	1.95	10028-17-8	PCI/G	HUh	3.36	6.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.0122	0.074	14158-29-3	PCI/G	HUh	0.147	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.572	0.201	13968-55-3/1	PCI/G	Hh	0.114	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0916	0.0915	15117-96-1/1	PCI/G	Hh	0.106	1.00	1.00	16.3
4.4C.R.1.3	405235038	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.736	0.225	7440-61-1	PCI/G	Hh	0.0958	1.00	1.00	16.3
4.4C.R.1.4	405235039	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	10.3	3.89	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3(	-0.123	0.222	14952-40-0	PCI/G	HUh	0.350		1.00	8.7
4.4C.R.1.4	405235039	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.000729	0.0541	14596-10-2	PCI/G	HUh	0.120	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3(	-0.0428	0.0855	14234-35-6	PCI/G	HUh	0.162		1.00	8.7
4.4C.R.1.4	405235039	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	17.9	3.34	12587-47-2	PCI/G	Hh	3.59	10.0	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3(	0.00	0.503	14913-49-6	PCI/G	HUIh	1.14		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3(	0.787	0.143	14733-03-0	PCI/G	Hh	0.0513		1.00	8.7
4.4C.R.1.4	405235039	GEL	1598080	1203626126	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.201	0.586	14762-75-5	PCI/G	HUh	0.998	2.00	1.00	8.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0333	10045-97-3	PCI/G	HUIh	0.0738	0.100	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00863	0.0359	10198-40-0	PCI/G	HUh	0.0695		1.00	8.7
4.4C.R.1.4	405235039	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.132	OER-100-93	PCI/G	Hh	0.197	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00519	0.0542		PCI/G	HUh	0.113	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.0208	0.0586		PCI/G	Hh	0.0625	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0381	0.097	15585-10-1	PCI/G	HUh	0.212		1.00	8.7
4.4C.R.1.4	405235039	GEL	1598620	1203627437	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0138	0.173	15046-84-1	PCI/G	HUh	0.440	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.726	0.137	15092-94-1	PCI/G	Hh	0.0813		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.05	0.168	15067-28-4	PCI/G	Hh	0.271		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596399	1203621715	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0332	0.277	13994-20-2	PCI/G	HUh	0.650	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Plutonium-238	R	DOE EML HA	-0.0121	0.0366	13981-16-3	PCI/G	HUh	0.103	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Plutonium-239/24	R	DOE EML HA	0.000668	0.0495	OER-100-70	PCI/G	HUh	0.110	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596402	1203621725	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-241	R	DOE EML HA	0.788	5.30	14119-32-5	PCI/G	HUh	9.16	15.0	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.3	1.58	13966-00-2	PCI/G	Hh	0.670		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.739	14331-85-2	PCI/G	HUIh	0.721		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.787	0.143	13982-63-3	PCI/G	Hh	0.0513		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.666	0.327	15262-20-1	PCI/G	Hh	0.222		1.00	8.7
4.4C.R.1.4	405235039	GEL	1597796	1203625401	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	0.286	0.620	10098-97-2	PCI/G	HUh	1.11	2.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1597412	1203624301	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.678	1.82	14133-76-7	PCI/G	HUh	3.18	5.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.240	0.0812	14913-50-9	PCI/G	Hh	0.059		1.00	8.7
4.4C.R.1.4	405235039	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.13	0.727	14274-82-9	PCI/G	Hh	0.789	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.123	0.279	15594-54-4	PCI/G	HUh	0.479	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.223	0.305	14269-63-7	PCI/G	Hh	0.416	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.883	0.499	7440-29-1	PCI/G	Hh	0.204	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0634	0.134		PCI/G	HUh	0.145		1.00	8.7
4.4C.R.1.4	405235039	GEL	1598075	1203626098	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 M	1.13	1.78	10028-17-8	PCI/G	HUh	3.08	6.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.00515	0.0614	14158-29-3	PCI/G	HUh	0.127	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.627	0.214	13968-55-3/1	PCI/G	Hh	0.101	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.0277	0.0636	15117-96-1/1	PCI/G	Hh	0.101	1.00	1.00	8.7
4.4C.R.1.4	405235039	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.994	0.267	7440-61-1	PCI/G	Hh	0.0871	1.00	1.00	8.7
4.4D.R.1.3	405235040	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	10.2	3.65	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0811	0.206	14952-40-0	PCI/G	HUh	0.418		1.00	14.8
4.4D.R.1.3	405235040	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.00357	0.0308	14596-10-2	PCI/G	HUh	0.0712	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.122	0.113	14234-35-6	PCI/G	HUh	0.160		1.00	14.8
4.4D.R.1.3	405235040	GEL	1597811	1203625435	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	13.0	2.34	12587-47-2	PCI/G	Hh	2.17	10.0	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.799	0.910	14913-49-6	PCI/G	Hh	0.879		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.756	0.194	14733-03-0	PCI/G	Hh	0.130		1.00	14.8
4.4D.R.1.3	405235040	GEL	1598080	1203626126	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.276	0.680	14762-75-5	PCI/G	HUh	1.16	2.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.142	0.0717	10045-97-3	PCI/G	Hh	0.0633	0.100	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00875	0.0349	10198-40-0	PCI/G	HUh	0.0589		1.00	14.8
4.4D.R.1.3	405235040	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.0535	0.150	OER-100-93	PCI/G	Hh	0.161	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.0115	0.043		PCI/G	HUh	0.0724	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1602285	1203636290	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.017	0.0478		PCI/G	Hh	0.051	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0592	0.0908	15585-10-1	PCI/G	HUh	0.161		1.00	14.8
4.4D.R.1.3	405235040	GEL	1598620	1203627437	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0767	0.179	15046-84-1	PCI/G	HUh	0.293	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.961	0.133	15092-94-1	PCI/G	Hh	0.0882		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.784	0.163	15067-28-4	PCI/G	Hh	0.107		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596399	1203621715	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.184	0.615	13994-20-2	PCI/G	HUh	1.14	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.00424	0.0636	13981-16-3	PCI/G	HUh	0.149	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596400	1203621718	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/24	R	DOE EML HA	0.0581	0.0837	OER-100-70	PCI/G	Hh	0.101	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596402	1203621725	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	-6.22	7.91	14119-32-5	PCI/G	HUh	14.0	15.0	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.0	1.36	13966-00-2	PCI/G	Hh	0.462		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.418	14331-85-2	PCI/G	HUIh	0.829		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.756	0.194	13982-63-3	PCI/G	Hh	0.130		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.863	0.231	15262-20-1	PCI/G	Hh	0.202		1.00	14.8
4.4D.R.1.3	405235040	GEL	1597796	1203625401	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 M	-0.328	0.390	10098-97-2	PCI/G	HUh	0.926	2.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1597412	1203624301	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.152	1.88	14133-76-7	PCI/G	HUh	3.24	5.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.245	0.0778	14913-50-9	PCI/G	Hh	0.0501		1.00	14.8
4.4D.R.1.3	405235040	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-228	R	DOE EML HA	1.15	0.721	14274-82-9	PCI/G	Hh	0.675	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.00291	0.216	15594-54-4	PCI/G	HUh	0.479	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-230	R	DOE EML HA	0.677	0.502	14269-63-7	PCI/G	Hh	0.562	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596395	1203621706	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Thorium-232	R	DOE EML HA	0.417	0.378	7440-29-1	PCI/G	Hh	0.347	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596249	1203621354	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0671	0.159		PCI/G	HUh	0.182		1.00	14.8
4.4D.R.1.3	405235040	GEL	1598075	1203626098	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 M	1.74	1.98	10028-17-8	PCI/G	Hh	3.32	6.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-232	R	DOE EML HA	-0.0248	0.040	14158-29-3	PCI/G	HUh	0.127	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	0.495	0.185	13968-55-3/1	PCI/G	Hh	0.103	1.00	1.00	14.8

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.1.3	405235040	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.107	0.0954	15117-96-1/1	PCI/G	Hh	0.104	1.00	1.00	14.8
4.4D.R.1.3	405235040	GEL	1596396	1203621709	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.698	0.218	7440-61-1	PCI/G	Hh	0.103	1.00	1.00	14.8
4.4D.R.1.4	405235041	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	17.9	4.49	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0314	0.177	14952-40-0	PCI/G	HUh	0.361		1.00	12
4.4D.R.1.4	405235041	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0106	0.0523	14596-10-2	PCI/G	HUh	0.132	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0586	0.0781	14234-35-6	PCI/G	HUh	0.140		1.00	12
4.4D.R.1.4	405235041	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	19.7	2.89	12587-47-2	PCI/G	Hh	2.95	10.0	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.700	14913-49-6	PCI/G	HUIh	0.973		1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.794	0.159	14733-03-0	PCI/G	Hh	0.0844		1.00	12
4.4D.R.1.4	405235041	GEL	1598081	1203626109	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	-0.0252	0.675	14762-75-5	PCI/G	HUh	1.16	2.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.049	10045-97-3	PCI/G	HUIh	0.0572	0.100	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0168	0.033	10198-40-0	PCI/G	HUh	0.0712		1.00	12
4.4D.R.1.4	405235041	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.00899	0.124	OER-100-93	PCI/G	HUh	0.269	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0154	0.0505		PCI/G	Hh	0.0783	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0402		PCI/G	Hh	0.0609	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00765	0.101	15585-10-1	PCI/G	HUh	0.196		1.00	12
4.4D.R.1.4	405235041	GEL	1598647	1203627502	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.176	0.244	15046-84-1	PCI/G	HUh	0.817	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.807	0.113	15092-94-1	PCI/G	Hh	0.0767		1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.803	0.167	15067-28-4	PCI/G	Hh	0.252		1.00	12
4.4D.R.1.4	405235041	GEL	1596411	1203621748	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0562	0.315	13994-20-2	PCI/G	HUh	0.795	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0701	0.119	13981-16-3	PCI/G	Hh	0.105	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00872	0.0698	OER-100-70	PCI/G	HUh	0.165	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596414	1203621754	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-0.671	7.42	14119-32-5	PCI/G	HUh	12.8	15.0	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.8	1.23	13966-00-2	PCI/G	Hh	0.428		1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.541	14331-85-2	PCI/G	HUIh	0.642		1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.794	0.159	13982-63-3	PCI/G	Hh	0.0844		1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.629	0.246	15262-20-1	PCI/G	Hh	0.204		1.00	12
4.4D.R.1.4	405235041	GEL	1597803	1203625408	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.653	0.699	10098-97-2	PCI/G	Hh	1.16	2.00	1.00	12
4.4D.R.1.4	405235041	GEL	1597414	1203624304	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.325	1.62	14133-76-7	PCI/G	HUh	2.84	5.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.273	0.0808	14913-50-9	PCI/G	Hh	0.0494		1.00	12
4.4D.R.1.4	405235041	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-228	R	DOE EML HA	1.07	0.620	14274-82-9	PCI/G	Hh	0.626	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-229	R	DOE EML HA	0.373	0.308	15594-54-4	PCI/G	Hh	0.265	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-230	R	DOE EML HA	0.445	0.366	14269-63-7	PCI/G	Hh	0.445	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-232	R	DOE EML HA	0.646	0.390	7440-29-1	PCI/G	Hh	0.263	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0427	0.187		PCI/G	HUh	0.128		1.00	12
4.4D.R.1.4	405235041	GEL	1598092	1203626144	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 M	1.40	2.36	10028-17-8	PCI/G	HUh	4.00	6.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	0.0147	0.0865	14158-29-3	PCI/G	HUh	0.172	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.802	0.207	13968-55-3/1	PCI/G	Hh	0.0934	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0181	0.0555	15117-96-1/1	PCI/G	HUh	0.103	1.00	1.00	12
4.4D.R.1.4	405235041	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.704	0.193	7440-61-1	PCI/G	Hh	0.0739	1.00	1.00	12
4.4D.R.2.3	405235042	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	17.7	4.03	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0685	0.199	14952-40-0	PCI/G	HUh	0.389		1.00	11
4.4D.R.2.3	405235042	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0056	0.0928	14596-10-2	PCI/G	HUh	0.196	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0894	0.101	14234-35-6	PCI/G	HUh	0.218		1.00	11
4.4D.R.2.3	405235042	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	21.8	2.57	12587-47-2	PCI/G	Hh	2.47	10.0	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.930	14913-49-6	PCI/G	HUIh	1.30		1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.651	0.198	14733-03-0	PCI/G	Hh	0.131		1.00	11
4.4D.R.2.3	405235042	GEL	1598081	1203626109	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	0.159	0.683	14762-75-5	PCI/G	HUh	1.16	2.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.249	0.0842	10045-97-3	PCI/G	Hh	0.0702	0.100	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00586	0.0368	10198-40-0	PCI/G	HUh	0.0772		1.00	11
4.4D.R.2.3	405235042	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.322	OER-100-93	PCI/G	Hh	0.489	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.0936		PCI/G	Hh	0.142	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.047	0.149		PCI/G	Hh	0.225	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0302	0.0912	15585-10-1	PCI/G	HUh	0.172		1.00	11
4.4D.R.2.3	405235042	GEL	1598647	1203627502	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0936	0.181	15046-84-1	PCI/G	HUh	0.355	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.687	0.146	15092-94-1	PCI/G	Hh	0.101		1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.799	0.221	15067-28-4	PCI/G	Hh	0.122		1.00	11
4.4D.R.2.3	405235042	GEL	1596411	1203621748	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0409	0.415	13994-20-2	PCI/G	HUh	0.870	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.00	0.0544	13981-16-3	PCI/G	Hh	0.0826	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0103	0.0553	OER-100-70	PCI/G	HUh	0.141	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596414	1203621754	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	1.61	6.94	14119-32-5	PCI/G	HUh	11.9	15.0	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.3	1.42	13966-00-2	PCI/G	Hh	0.616		1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.703	14331-85-2	PCI/G	HUIh	0.675		1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.651	0.198	13982-63-3	PCI/G	Hh	0.131		1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.270	15262-20-1	PCI/G	HUIh	0.502		1.00	11
4.4D.R.2.3	405235042	GEL	1597803	1203625408	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.253	0.585	10098-97-2	PCI/G	HUh	1.03	2.00	1.00	11

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.2.3	405235042	GEL	1597414	1203624304	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	1.43	1.62	14133-76-7	PCI/G	Hh	2.73	5.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.308	0.0737	14913-50-9	PCI/G	Hh	0.0631		1.00	11
4.4D.R.2.3	405235042	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.65	0.701	14274-82-9	PCI/G	Hh	0.603	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.187	0.243	15594-54-4	PCI/G	Hh	0.344	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.809	0.409	14269-63-7	PCI/G	Hh	0.271	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.623	0.360	7440-29-1	PCI/G	Hh	0.234	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0374	0.0762		PCI/G	HUh	0.152		1.00	11
4.4D.R.2.3	405235042	GEL	1598092	1203626144	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 M	-0.0656	2.16	10028-17-8	PCI/G	HUh	3.75	6.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	0.00324	0.0731	14158-29-3	PCI/G	HUh	0.160	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.599	0.246	13968-55-3/1	PCI/G	Hh	0.187	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0574	0.092	15117-96-1/1	PCI/G	Hh	0.129	1.00	1.00	11
4.4D.R.2.3	405235042	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.636	0.245	7440-61-1	PCI/G	Hh	0.128	1.00	1.00	11
4.4D.R.2.4	405235043	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	11.7	3.97	12587-46-1	PCI/G	Hh	4.35	4.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0834	0.187	14952-40-0	PCI/G	HUh	0.339		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0414	0.0794	14596-10-2	PCI/G	Hh	0.107	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.037	0.0842	14234-35-6	PCI/G	HUh	0.180		1.00	14.5
4.4D.R.2.4	405235043	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	20.6	2.63	12587-47-2	PCI/G	Hh	2.17	10.0	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.63	0.684	14913-49-6	PCI/G	Hh	0.770		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.703	0.135	14733-03-0	PCI/G	Hh	0.0873		1.00	14.5
4.4D.R.2.4	405235043	GEL	1598081	1203626109	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	-0.202	0.670	14762-75-5	PCI/G	HUh	1.15	2.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0694	0.0535	10045-97-3	PCI/G	Hh	0.0503	0.100	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.013	0.0208	10198-40-0	PCI/G	HUh	0.0545		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.161	OER-100-93	PCI/G	Hh	0.242	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0234	0.0656		PCI/G	Hh	0.0703	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0737	0.105		PCI/G	Hh	0.122	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0759	0.113	15585-10-1	PCI/G	HUh	0.169		1.00	14.5
4.4D.R.2.4	405235043	GEL	1598647	1203627502	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0904	0.393	15046-84-1	PCI/G	HUh	0.769	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.954	0.116	15092-94-1	PCI/G	Hh	0.0771		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.876	0.167	15067-28-4	PCI/G	Hh	0.094		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596411	1203621748	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0399	0.405	13994-20-2	PCI/G	HUh	0.848	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.016	0.0724	13981-16-3	PCI/G	HUh	0.132	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	-0.016	0.0524	OER-100-70	PCI/G	HUh	0.147	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596414	1203621754	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	0.786	6.12	14119-32-5	PCI/G	HUh	10.5	15.0	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.6	1.43	13966-00-2	PCI/G	Hh	0.443		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.611	14331-85-2	PCI/G	HUlh	0.580		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.703	0.135	13982-63-3	PCI/G	Hh	0.0873		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.685	0.232	15262-20-1	PCI/G	Hh	0.216		1.00	14.5
4.4D.R.2.4	405235043	GEL	1597803	1203625408	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-1.14	0.912	10098-97-2	PCI/G	HUh	1.86	2.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1597414	1203624304	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	1.57	1.69	14133-76-7	PCI/G	Hh	2.84	5.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.298	0.072	14913-50-9	PCI/G	Hh	0.047		1.00	14.5
4.4D.R.2.4	405235043	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-228	R	DOE EML HA	1.71	0.858	14274-82-9	PCI/G	Hh	0.785	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-229	R	DOE EML HA	0.243	0.308	15594-54-4	PCI/G	Hh	0.383	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-230	R	DOE EML HA	0.623	0.454	14269-63-7	PCI/G	Hh	0.454	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Thorium-232	R	DOE EML HA	0.739	0.469	7440-29-1	PCI/G	Hh	0.329	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.121		PCI/G	HUlh	0.113		1.00	14.5
4.4D.R.2.4	405235043	GEL	1598092	1203626144	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	0.554	2.33	10028-17-8	PCI/G	HUh	4.00	6.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0233	0.0564	14158-29-3	PCI/G	HUh	0.169	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.761	0.284	13968-55-3/1	PCI/G	Hh	0.152	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0677	0.103	15117-96-1/1	PCI/G	Hh	0.135	1.00	1.00	14.5
4.4D.R.2.4	405235043	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.739	0.279	7440-61-1	PCI/G	Hh	0.144	1.00	1.00	14.5
4.4D.R.4.2	405235044	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	13.6	3.67	12587-46-1	PCI/G	Hh	3.96	4.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0362	0.246	14952-40-0	PCI/G	HUh	0.465		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0132	0.0625	14596-10-2	PCI/G	HUh	0.158	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0844	0.127	14234-35-6	PCI/G	HUh	0.256		1.00	24.8
4.4D.R.4.2	405235044	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	23.3	3.04	12587-47-2	PCI/G	Hh	3.43	10.0	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.768	14913-49-6	PCI/G	HUlh	1.62		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.05	0.201	14733-03-0	PCI/G	Hh	0.152		1.00	24.8
4.4D.R.4.2	405235044	GEL	1598081	1203626109	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	-0.122	0.737	14762-75-5	PCI/G	HUh	1.27	2.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.311	0.106	10045-97-3	PCI/G	Hh	0.0782	0.100	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0134	0.0451	10198-40-0	PCI/G	HUh	0.0859		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0148	0.147	OER-100-93	PCI/G	HUh	0.334	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.042		PCI/G	Hh	0.063	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0661	0.0936		PCI/G	Hh	0.110	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00237	0.120	15585-10-1	PCI/G	HUh	0.244		1.00	24.8
4.4D.R.4.2	405235044	GEL	1598647	1203627502	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.014	0.327	15046-84-1	PCI/G	HUh	0.751	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.16	0.142	15092-94-1	PCI/G	Hh	0.100		1.00	24.8

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.13	0.209	15067-28-4	PCI/G	Hh	0.150		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596411	1203621748	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0595	0.421	13994-20-2	PCI/G	HUh	0.848	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00373	0.0544	13981-16-3	PCI/G	HUh	0.117	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.0197	0.0761	OER-100-70	PCI/G	HUh	0.131	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596414	1203621754	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-1.67	7.16	14119-32-5	PCI/G	HUh	12.4	15.0	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.3	1.67	13966-00-2	PCI/G	Hh	0.451		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.493	14331-85-2	PCI/G	HUIh	0.974		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.05	0.201	13982-63-3	PCI/G	Hh	0.152		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.09	0.392	15262-20-1	PCI/G	Hh	0.264		1.00	24.8
4.4D.R.4.2	405235044	GEL	1597803	1203625408	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Strontium-90	R	EPA 905.0 M	0.0758	0.786	10098-97-2	PCI/G	HUh	1.45	2.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1597414	1203624304	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.319	1.96	14133-76-7	PCI/G	HUh	3.44	5.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.319	0.0938	14913-50-9	PCI/G	Hh	0.0767		1.00	24.8
4.4D.R.4.2	405235044	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.80	0.674	14274-82-9	PCI/G	Hh	0.463	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.214	0.237	15594-54-4	PCI/G	Hh	0.312	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.924	0.421	14269-63-7	PCI/G	Hh	0.312	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.787	0.380	7440-29-1	PCI/G	Hh	0.212	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.117		PCI/G	HUIh	0.211		1.00	24.8
4.4D.R.4.2	405235044	GEL	1598092	1203626144	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	0.256	2.75	10028-17-8	PCI/G	HUh	4.74	6.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0071	0.0496	14158-29-3	PCI/G	HUh	0.120	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.934	0.328	13968-55-3/1	PCI/G	Hh	0.180	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.130	0.137	15117-96-1/1	PCI/G	Hh	0.147	1.00	1.00	24.8
4.4D.R.4.2	405235044	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.881	0.318	7440-61-1	PCI/G	Hh	0.173	1.00	1.00	24.8
4.4D.R.5.2	405235045	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	15.6	3.57	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.151	0.326	14952-40-0	PCI/G	HUh	0.528		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0126	0.061	14596-10-2	PCI/G	HUh	0.113	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0292	0.128	14234-35-6	PCI/G	HUh	0.251		1.00	22.4
4.4D.R.5.2	405235045	GEL	1602427	1203636653	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	20.5	2.55	12587-47-2	PCI/G	Hh	2.83	10.0	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.616	0.826	14913-49-6	PCI/G	HUh	1.65		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.712	0.279	14733-03-0	PCI/G	Hh	0.191		1.00	22.4
4.4D.R.5.2	405235045	GEL	1598081	1203626109	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	-0.104	0.745	14762-75-5	PCI/G	HUh	1.28	2.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.880	0.160	10045-97-3	PCI/G	Hh	0.0938	0.100	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0326	0.0533	10198-40-0	PCI/G	HUh	0.120		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.149	OER-100-93	PCI/G	Hh	0.223	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0128	0.0619		PCI/G	HUh	0.115	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596410	1203621745	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0244	0.0684		PCI/G	Hh	0.0732	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.112	0.145	15585-10-1	PCI/G	HUh	0.332		1.00	22.4
4.4D.R.5.2	405235045	GEL	1598647	1203627502	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0136	0.241	15046-84-1	PCI/G	HUh	0.687	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.991	0.169	15092-94-1	PCI/G	Hh	0.137		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.16	0.281	15067-28-4	PCI/G	Hh	0.146		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596411	1203621748	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.00579	0.414	13994-20-2	PCI/G	HUh	0.929	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0245	0.0796	13981-16-3	PCI/G	Hh	0.122	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596412	1203621751	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.00119	0.0812	OER-100-70	PCI/G	HUh	0.182	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596414	1203621754	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-1.17	7.47	14119-32-5	PCI/G	HUh	12.9	15.0	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.5	1.76	13966-00-2	PCI/G	Hh	0.966		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.622	14331-85-2	PCI/G	HUIh	1.25		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.712	0.279	13982-63-3	PCI/G	Hh	0.191		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.02	0.490	15262-20-1	PCI/G	Hh	0.375		1.00	22.4
4.4D.R.5.2	405235045	GEL	1597803	1203625408	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.742	0.723	10098-97-2	PCI/G	Hh	1.17	2.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1597414	1203624304	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.206	1.72	14133-76-7	PCI/G	HUh	3.04	5.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.420	0.139	14913-50-9	PCI/G	Hh	0.086		1.00	22.4
4.4D.R.5.2	405235045	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.88	0.876	14274-82-9	PCI/G	Hh	0.569	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.0407	0.263	15594-54-4	PCI/G	HUh	0.538	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.726	0.473	14269-63-7	PCI/G	Hh	0.218	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596407	1203621736	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.778	0.493	7440-29-1	PCI/G	Hh	0.347	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596252	1203621361	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.123		PCI/G	HUIh	0.127		1.00	22.4
4.4D.R.5.2	405235045	GEL	1598092	1203626144	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-0.969	2.54	10028-17-8	PCI/G	HUh	4.46	6.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0347	0.0839	14158-29-3	PCI/G	HUh	0.251	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.893	0.321	13968-55-3/1	PCI/G	Hh	0.167	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.082	0.113	15117-96-1/1	PCI/G	Hh	0.122	1.00	1.00	22.4
4.4D.R.5.2	405235045	GEL	1596408	1203621739	SAMPLE	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.937	0.326	7440-61-1	PCI/G	Hh	0.122	1.00	1.00	22.4
4.5A.R.1.3	405235046	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	15.1	3.64	12587-46-1	PCI/G	Hh	3.95	4.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.145	0.200	14952-40-0	PCI/G	HUh	0.415		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0228	0.0574	14596-10-2	PCI/G	HUh	0.096	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00584	0.0839	14234-35-6	PCI/G	HUh	0.163		1.00	18.6
4.5A.R.1.3	405235046	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	20.9	2.48	12587-47-2	PCI/G	Hh	2.50	10.0	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.05	0.648	14913-49-6	PCI/G	Hh	0.631		1.00	18.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.887	0.149	14733-03-0	PCI/G	Hh	0.0852		1.00	18.6
4.5A.R.1.3	405235046	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	0.182	0.690	14762-75-5	PCI/G	HUh	1.17	2.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.162	0.065	10045-97-3	PCI/G	Hh	0.0542	0.100	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0143	0.0303	10198-40-0	PCI/G	HUh	0.0676		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.112	OER-100-93	PCI/G	Hh	0.167	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.00342	0.0341		PCI/G	HUh	0.0774	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0188	0.0527		PCI/G	Hh	0.0565	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0604	0.105	15585-10-1	PCI/G	HUh	0.189		1.00	18.6
4.5A.R.1.3	405235046	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.129	0.253	15046-84-1	PCI/G	HUh	0.239	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.02	0.115	15092-94-1	PCI/G	Hh	0.0793		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.940	0.153	15067-28-4	PCI/G	Hh	0.107		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0797	0.432	13994-20-2	PCI/G	HUh	0.829	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0146	0.0701	13981-16-3	PCI/G	HUh	0.130	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.017	0.051	OER-100-70	PCI/G	HUh	0.146	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-2.2	6.79	14119-32-5	PCI/G	HUh	11.8	15.0	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.7	1.31	13966-00-2	PCI/G	Hh	0.515		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.859	14331-85-2	PCI/G	HUlh	0.652		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.887	0.149	13982-63-3	PCI/G	Hh	0.0852		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.11	0.270	15262-20-1	PCI/G	Hh	0.183		1.00	18.6
4.5A.R.1.3	405235046	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.382	0.657	10098-97-2	PCI/G	HUh	1.16	2.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	2.30	1.90	14133-76-7	PCI/G	Hh	3.13	5.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.271	0.0819	14913-50-9	PCI/G	Hh	0.0502		1.00	18.6
4.5A.R.1.3	405235046	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.10	0.640	14274-82-9	PCI/G	Hh	0.585	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.139	0.246	15594-54-4	PCI/G	Hh	0.372	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.914	0.496	14269-63-7	PCI/G	Hh	0.401	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.485	0.358	7440-29-1	PCI/G	Hh	0.182	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.106		PCI/G	HUlh	0.123		1.00	18.6
4.5A.R.1.3	405235046	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	1.29	2.45	10028-17-8	PCI/G	HUh	4.16	6.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	0.0142	0.0962	14158-29-3	PCI/G	HUh	0.192	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.645	0.264	13968-55-3/1	PCI/G	Hh	0.146	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0459	0.0905	15117-96-1/1	PCI/G	Hh	0.127	1.00	1.00	18.6
4.5A.R.1.3	405235046	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.787	0.288	7440-61-1	PCI/G	Hh	0.113	1.00	1.00	18.6
4.5A.R.1.4	405235047	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	16.1	3.83	12587-46-1	PCI/G	Hh	3.93	4.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.169	0.200	14952-40-0	PCI/G	HUh	0.398		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0135	0.0356	14596-10-2	PCI/G	HUh	0.104	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00121	0.0854	14234-35-6	PCI/G	HUh	0.169		1.00	20.7
4.5A.R.1.4	405235047	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	16.5	2.64	12587-47-2	PCI/G	Hh	3.34	10.0	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.576	14913-49-6	PCI/G	HUlh	1.16		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.882	0.197	14733-03-0	PCI/G	Hh	0.120		1.00	20.7
4.5A.R.1.4	405235047	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Carbon-14	R	EPA EERF C	-0.334	0.725	14762-75-5	PCI/G	HUh	1.25	2.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.039	10045-97-3	PCI/G	HUlh	0.0849	0.100	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0341	0.0453	10198-40-0	PCI/G	HUh	0.0926		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.112	OER-100-93	PCI/G	Hh	0.168	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0103	0.0355		PCI/G	HUh	0.0978	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0189	0.0529		PCI/G	Hh	0.0567	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0428	0.112	15585-10-1	PCI/G	HUh	0.234		1.00	20.7
4.5A.R.1.4	405235047	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.208	0.187	15046-84-1	PCI/G	HUh	0.517	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.08	0.121	15092-94-1	PCI/G	Hh	0.0919		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.185	15067-28-4	PCI/G	Hh	0.120		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.118	0.291	13994-20-2	PCI/G	HUh	0.872	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00389	0.0565	13981-16-3	PCI/G	HUh	0.122	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00773	0.0566	OER-100-70	PCI/G	HUh	0.136	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-0.679	7.35	14119-32-5	PCI/G	HUh	12.7	15.0	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	16.0	1.57	13966-00-2	PCI/G	Hh	0.429		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.679	14331-85-2	PCI/G	HUlh	0.669		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.882	0.197	13982-63-3	PCI/G	Hh	0.120		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.886	0.322	15262-20-1	PCI/G	Hh	0.247		1.00	20.7
4.5A.R.1.4	405235047	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.744	0.917	10098-97-2	PCI/G	HUh	1.78	2.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.454	1.77	14133-76-7	PCI/G	HUh	3.10	5.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.267	0.0818	14913-50-9	PCI/G	Hh	0.069		1.00	20.7
4.5A.R.1.4	405235047	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.16	0.676	14274-82-9	PCI/G	Hh	0.613	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.085	0.267	15594-54-4	PCI/G	HUh	0.499	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.758	0.477	14269-63-7	PCI/G	Hh	0.450	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.704	0.436	7440-29-1	PCI/G	Hh	0.192	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.133		PCI/G	HUlh	0.0664		1.00	20.7
4.5A.R.1.4	405235047	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-0.418	2.59	10028-17-8	PCI/G	HUh	4.52	6.00	1.00	20.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5A.R.1.4	405235047	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.00909	0.0632	14158-29-3	PCI/G	HUh	0.153	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.785	0.284	13968-55-3/1	PCI/G	Hh	0.154	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.069	0.0995	15117-96-1/1	PCI/G	Hh	0.121	1.00	1.00	20.7
4.5A.R.1.4	405235047	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	1.05	0.323	7440-61-1	PCI/G	Hh	0.121	1.00	1.00	20.7
4.5B.R.1.2	405235048	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	24.1	5.05	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.027	0.250	14952-40-0	PCI/G	HUh	0.472		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.023	0.0846	14596-10-2	PCI/G	HUh	0.142	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00	0.223	14234-35-6	PCI/G	HUIh	0.245		1.00	22.9
4.5B.R.1.2	405235048	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	27.2	3.07	12587-47-2	PCI/G	Hh	2.35	10.0	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.708	14913-49-6	PCI/G	HUIh	1.29		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.974	0.193	14733-03-0	PCI/G	Hh	0.139		1.00	22.9
4.5B.R.1.2	405235048	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.209	0.770	14762-75-5	PCI/G	HUh	1.33	2.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	1.52	0.161	10045-97-3	PCI/G	Hh	0.0695	0.100	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0124	0.0388	10198-40-0	PCI/G	HUh	0.0825		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0123	0.204	OER-100-93	PCI/G	HUh	0.431	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0772	0.121		PCI/G	Hh	0.166	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	-0.00414	0.0687		PCI/G	HUh	0.145	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0899	0.120	15585-10-1	PCI/G	HUh	0.263		1.00	22.9
4.5B.R.1.2	405235048	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0758	0.343	15046-84-1	PCI/G	HUh	0.674	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.16	0.142	15092-94-1	PCI/G	Hh	0.114		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.36	0.222	15067-28-4	PCI/G	Hh	0.360		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.125	0.308	13994-20-2	PCI/G	HUh	0.921	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00333	0.0483	13981-16-3	PCI/G	HUh	0.104	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.0448	0.0822	OER-100-70	PCI/G	Hh	0.103	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	-1.19	6.48	14119-32-5	PCI/G	HUh	11.2	15.0	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	16.4	1.65	13966-00-2	PCI/G	Hh	0.666		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.195	0.533	14331-85-2	PCI/G	HUh	1.03		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.974	0.193	13982-63-3	PCI/G	Hh	0.139		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.07	0.364	15262-20-1	PCI/G	Hh	0.274		1.00	22.9
4.5B.R.1.2	405235048	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.194	0.617	10098-97-2	PCI/G	HUh	1.13	2.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.72	1.81	14133-76-7	PCI/G	HUh	3.41	5.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.366	0.0776	14913-50-9	PCI/G	Hh	0.0727		1.00	22.9
4.5B.R.1.2	405235048	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.76	0.896	14274-82-9	PCI/G	Hh	0.704	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.399	0.449	15594-54-4	PCI/G	Hh	0.634	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.846	0.561	14269-63-7	PCI/G	Hh	0.550	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	1.29	0.653	7440-29-1	PCI/G	Hh	0.433	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.198		PCI/G	HUIh	0.159		1.00	22.9
4.5B.R.1.2	405235048	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-0.411	2.59	10028-17-8	PCI/G	HUh	4.52	6.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0357	0.0658	14158-29-3	PCI/G	HUh	0.209	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.933	0.322	13968-55-3/1	PCI/G	Hh	0.146	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0442	0.0957	15117-96-1/1	PCI/G	Hh	0.146	1.00	1.00	22.9
4.5B.R.1.2	405235048	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.866	0.313	7440-61-1	PCI/G	Hh	0.172	1.00	1.00	22.9
4.5B.R.1.3	405235049	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	27.8	5.44	12587-46-1	PCI/G	Hh	3.93	4.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0667	0.208	14952-40-0	PCI/G	HUh	0.394		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0565	0.110	14596-10-2	PCI/G	Hh	0.151	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00107	0.0965	14234-35-6	PCI/G	HUh	0.183		1.00	18.8
4.5B.R.1.3	405235049	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	21.9	2.68	12587-47-2	PCI/G	Hh	2.19	10.0	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.839	14913-49-6	PCI/G	HUIh	1.35		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.11	0.183	14733-03-0	PCI/G	Hh	0.109		1.00	18.8
4.5B.R.1.3	405235049	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.593	0.721	14762-75-5	PCI/G	HUh	1.25	2.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.481	0.0908	10045-97-3	PCI/G	Hh	0.0735	0.100	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	6.07E-05	0.0306	10198-40-0	PCI/G	HUh	0.059		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.215	OER-100-93	PCI/G	Hh	0.326	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0117	0.0656		PCI/G	HUh	0.166	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0367	0.102		PCI/G	Hh	0.110	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0647	0.111	15585-10-1	PCI/G	HUh	0.246		1.00	18.8
4.5B.R.1.3	405235049	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00955	0.223	15046-84-1	PCI/G	HUh	0.511	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.06	0.134	15092-94-1	PCI/G	Hh	0.100		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.911	0.179	15067-28-4	PCI/G	Hh	0.132		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0222	0.369	13994-20-2	PCI/G	HUh	0.780	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00337	0.0486	13981-16-3	PCI/G	HUh	0.105	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.0208	0.0676	OER-100-70	PCI/G	Hh	0.104	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	6.62	6.96	14119-32-5	PCI/G	Hh	11.7	15.0	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.1	1.48	13966-00-2	PCI/G	Hh	0.503		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.921	14331-85-2	PCI/G	HUIh	0.654		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.11	0.183	13982-63-3	PCI/G	Hh	0.109		1.00	18.8

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.05	0.289	15262-20-1	PCI/G	Hh	0.202		1.00	18.8
4.5B.R.1.3	405235049	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.132	0.636	10098-97-2	PCI/G	HUh	1.26	2.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0409	1.78	14133-76-7	PCI/G	HUh	3.17	5.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.323	0.0861	14913-50-9	PCI/G	Hh	0.0606		1.00	18.8
4.5B.R.1.3	405235049	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-228	R	DOE EML HA	1.44	0.870	14274-82-9	PCI/G	Hh	0.907	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-229	R	DOE EML HA	0.0416	0.231	15594-54-4	PCI/G	HUh	0.443	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-230	R	DOE EML HA	1.04	0.586	14269-63-7	PCI/G	Hh	0.239	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-232	R	DOE EML HA	1.11	0.605	7440-29-1	PCI/G	Hh	0.239	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.211		PCI/G	HUIh	0.143		1.00	18.8
4.5B.R.1.3	405235049	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-0.551	2.55	10028-17-8	PCI/G	HUh	4.45	6.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0105	0.0491	14158-29-3	PCI/G	HUh	0.128	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.773	0.290	13968-55-3/1	PCI/G	Hh	0.186	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0118	0.0743	15117-96-1/1	PCI/G	HUh	0.147	1.00	1.00	18.8
4.5B.R.1.3	405235049	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.746	0.281	7440-61-1	PCI/G	Hh	0.137	1.00	1.00	18.8
4.5B.R.1.4	405235050	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	16.6	4.28	12587-46-1	PCI/G	Hh	4.00	4.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.132	0.242	14952-40-0	PCI/G	HUh	0.393		1.00	11
4.5B.R.1.4	405235050	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0554	0.108	14596-10-2	PCI/G	Hh	0.148	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00	0.245	14234-35-6	PCI/G	HUIh	0.201		1.00	11
4.5B.R.1.4	405235050	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	16.3	2.75	12587-47-2	PCI/G	Hh	3.25	10.0	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.769	14913-49-6	PCI/G	HUIh	1.42		1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.725	0.191	14733-03-0	PCI/G	Hh	0.120		1.00	11
4.5B.R.1.4	405235050	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.264	0.622	14762-75-5	PCI/G	HUh	1.07	2.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0702	0.0653	10045-97-3	PCI/G	HUIh	0.089	0.100	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0183	0.0338	10198-40-0	PCI/G	HUh	0.0645		1.00	11
4.5B.R.1.4	405235050	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0128	0.212	OER-100-93	PCI/G	HUh	0.449	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0204	0.0897		PCI/G	HUh	0.162	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.071		PCI/G	Hh	0.108	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00145	0.132	15585-10-1	PCI/G	HUh	0.279		1.00	11
4.5B.R.1.4	405235050	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0874	0.171	15046-84-1	PCI/G	HUh	0.277	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.801	0.172	15092-94-1	PCI/G	Hh	0.114		1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.950	0.184	15067-28-4	PCI/G	Hh	0.336		1.00	11
4.5B.R.1.4	405235050	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0372	0.310	13994-20-2	PCI/G	HUh	0.729	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00592	0.0431	13981-16-3	PCI/G	HUh	0.104	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0118	0.0436	OER-100-70	PCI/G	HUh	0.119	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	2.12	6.17	14119-32-5	PCI/G	HUh	10.5	15.0	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.6	1.74	13966-00-2	PCI/G	Hh	0.822		1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.291	0.505	14331-85-2	PCI/G	HUh	0.960		1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.725	0.191	13982-63-3	PCI/G	Hh	0.120		1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.05	0.340	15262-20-1	PCI/G	Hh	0.271		1.00	11
4.5B.R.1.4	405235050	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.545	0.687	10098-97-2	PCI/G	HUh	1.46	2.00	1.00	11
4.5B.R.1.4	405235050	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.438	1.51	14133-76-7	PCI/G	HUh	2.73	5.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.232	0.0865	14913-50-9	PCI/G	Hh	0.0613		1.00	11
4.5B.R.1.4	405235050	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-228	R	DOE EML HA	1.60	0.922	14274-82-9	PCI/G	Hh	0.967	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-229	R	DOE EML HA	0.442	0.420	15594-54-4	PCI/G	Hh	0.444	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-230	R	DOE EML HA	0.764	0.552	14269-63-7	PCI/G	Hh	0.591	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-232	R	DOE EML HA	0.618	0.471	7440-29-1	PCI/G	Hh	0.382	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.143		PCI/G	HUIh	0.112		1.00	11
4.5B.R.1.4	405235050	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-1.75	2.15	10028-17-8	PCI/G	HUh	3.83	6.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	0.00617	0.064	14158-29-3	PCI/G	HUh	0.134	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.565	0.240	13968-55-3/1	PCI/G	Hh	0.151	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0178	0.0688	15117-96-1/1	PCI/G	HUh	0.118	1.00	1.00	11
4.5B.R.1.4	405235050	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.652	0.253	7440-61-1	PCI/G	Hh	0.118	1.00	1.00	11
4.5B.R.2.3	405235051	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	16.7	4.25	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.00182	0.236	14952-40-0	PCI/G	HUh	0.412		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0206	0.0543	14596-10-2	PCI/G	HUh	0.158	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0278	0.116	14234-35-6	PCI/G	HUh	0.214		1.00	17.7
4.5B.R.2.3	405235051	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	21.1	2.79	12587-47-2	PCI/G	Hh	2.62	10.0	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.984	14913-49-6	PCI/G	HUIh	1.50		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.829	0.210	14733-03-0	PCI/G	Hh	0.154		1.00	17.7
4.5B.R.2.3	405235051	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.322	0.715	14762-75-5	PCI/G	HUh	1.24	2.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.139	0.0833	10045-97-3	PCI/G	Hh	0.0784	0.100	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0154	0.0408	10198-40-0	PCI/G	HUh	0.0906		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.171	OER-100-93	PCI/G	Hh	0.256	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0262	0.056		PCI/G	HUh	0.170	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	-0.0059	0.0587		PCI/G	HUh	0.133	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0629	0.142	15585-10-1	PCI/G	HUh	0.255		1.00	17.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5B.R.2.3	405235051	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0898	0.258	15046-84-1	PCI/G	HUh	0.462	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.909	0.149	15092-94-1	PCI/G	Hh	0.118		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.956	0.174	15067-28-4	PCI/G	Hh	0.327		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.406	0.736	13994-20-2	PCI/G	Hh	0.907	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.00	0.0523	13981-16-3	PCI/G	Hh	0.0793	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0146	0.0539	OER-100-70	PCI/G	HUh	0.147	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/23/16	405235	Plutonium-241	R	DOE EML HA	1.43	7.24	14119-32-5	PCI/G	HUh	12.4	15.0	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.0	1.70	13966-00-2	PCI/G	Hh	0.576		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.671	14331-85-2	PCI/G	HUIh	0.808		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.829	0.210	13982-63-3	PCI/G	Hh	0.154		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.367	15262-20-1	PCI/G	HUIh	0.597		1.00	17.7
4.5B.R.2.3	405235051	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.384	0.664	10098-97-2	PCI/G	HUh	1.36	2.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.139	1.73	14133-76-7	PCI/G	HUh	3.08	5.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.336	0.0777	14913-50-9	PCI/G	Hh	0.0658		1.00	17.7
4.5B.R.2.3	405235051	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-228	R	DOE EML HA	1.67	0.803	14274-82-9	PCI/G	Hh	0.662	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-229	R	DOE EML HA	0.329	0.346	15594-54-4	PCI/G	Hh	0.431	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-230	R	DOE EML HA	1.32	0.603	14269-63-7	PCI/G	Hh	0.398	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/26/16	405235	Thorium-232	R	DOE EML HA	1.15	0.557	7440-29-1	PCI/G	Hh	0.312	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.102		PCI/G	HUIh	0.0935		1.00	17.7
4.5B.R.2.3	405235051	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-0.479	2.45	10028-17-8	PCI/G	HUh	4.27	6.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1601257	1203633742	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0211	0.228	14158-29-3	PCI/G	HUh	0.434	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1601257	1203633742	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.741	0.301	13968-55-3/1	PCI/G	Hh	0.304	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1601257	1203633742	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.134	0.145	15117-96-1/1	PCI/G	Hh	0.196	1.00	1.00	17.7
4.5B.R.2.3	405235051	GEL	1601257	1203633742	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.988	0.311	7440-61-1	PCI/G	Hh	0.159	1.00	1.00	17.7
4.5B.R.2.4	405235052	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	17.6	4.06	12587-46-1	PCI/G	Hh	3.95	4.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.137	0.374	14952-40-0	PCI/G	HUh	0.398		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0184	0.0393	14596-10-2	PCI/G	HUh	0.119	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0333	0.0969	14234-35-6	PCI/G	HUh	0.185		1.00	15.5
4.5B.R.2.4	405235052	GEL	1602427	1203636653	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	20.3	2.72	12587-47-2	PCI/G	Hh	3.19	10.0	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.02	14913-49-6	PCI/G	HUIh	1.23		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.693	0.165	14733-03-0	PCI/G	Hh	0.131		1.00	15.5
4.5B.R.2.4	405235052	GEL	1598081	1203626109	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.267	0.635	14762-75-5	PCI/G	HUh	1.10	2.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.148	0.0611	10045-97-3	PCI/G	Hh	0.063	0.100	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00693	0.0303	10198-40-0	PCI/G	HUh	0.0673		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0124	0.124	OER-100-93	PCI/G	HUh	0.281	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.00418	0.054		PCI/G	HUh	0.127	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596410	1203621745	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0205	0.0574		PCI/G	Hh	0.0614	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00356	0.116	15585-10-1	PCI/G	HUh	0.205		1.00	15.5
4.5B.R.2.4	405235052	GEL	1598647	1203627502	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0439	0.250	15046-84-1	PCI/G	HUh	0.532	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.907	0.127	15092-94-1	PCI/G	Hh	0.0844		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.03	0.235	15067-28-4	PCI/G	Hh	0.319		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596411	1203621748	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0771	0.262	13994-20-2	PCI/G	HUh	0.732	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.0204	0.0608	13981-16-3	PCI/G	HUh	0.174	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596412	1203621751	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0688	0.0663	OER-100-70	PCI/G	HUh	0.245	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596414	1203621754	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	3.66	7.82	14119-32-5	PCI/G	HUh	13.3	15.0	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.2	1.56	13966-00-2	PCI/G	Hh	0.599		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.615	14331-85-2	PCI/G	HUIh	0.677		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.693	0.165	13982-63-3	PCI/G	Hh	0.131		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.852	0.276	15262-20-1	PCI/G	Hh	0.247		1.00	15.5
4.5B.R.2.4	405235052	GEL	1597803	1203625408	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.896	0.802	10098-97-2	PCI/G	Hh	1.30	2.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1597414	1203624304	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.295	2.06	14133-76-7	PCI/G	HUh	3.51	5.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.198	0.0902	14913-50-9	PCI/G	Hh	0.0635		1.00	15.5
4.5B.R.2.4	405235052	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	0.596	0.665	14274-82-9	PCI/G	Hh	0.881	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	-0.0908	0.210	15594-54-4	PCI/G	HUh	0.623	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.13	0.668	14269-63-7	PCI/G	Hh	0.283	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596407	1203621736	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	1.27	0.718	7440-29-1	PCI/G	Hh	0.521	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596252	1203621361	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.154		PCI/G	HUIh	0.142		1.00	15.5
4.5B.R.2.4	405235052	GEL	1598092	1203626144	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	1.12	2.40	10028-17-8	PCI/G	HUh	4.10	6.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0158	0.056	14158-29-3	PCI/G	HUh	0.155	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.900	0.341	13968-55-3/1	PCI/G	Hh	0.209	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0183	0.0883	15117-96-1/1	PCI/G	HUh	0.164	1.00	1.00	15.5
4.5B.R.2.4	405235052	GEL	1596408	1203621739	SAMPLE	TARGET	12/07/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.699	0.300	7440-61-1	PCI/G	Hh	0.175	1.00	1.00	15.5
4.5C.R.5.2	405235053	GEL	1602427	1203636653	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	17.1	4.24	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.194	0.396	14952-40-0	PCI/G	HUh	0.700		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596410	1203621745	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0133	0.0673	14596-10-2	PCI/G	HUh	0.172	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0321	0.199	14234-35-6	PCI/G	HUh	0.387		1.00	30.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5C.R.5.2	405235053	GEL	1602427	1203636653	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	26.3	2.91	12587-47-2	PCI/G	Hh	2.30	10.0	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.40	14913-49-6	PCI/G	HUIh	1.62		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.36	0.320	14733-03-0	PCI/G	Hh	0.249		1.00	30.4
4.5C.R.5.2	405235053	GEL	1598081	1203626109	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	0.335	0.860	14762-75-5	PCI/G	HUh	1.46	2.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.258	0.150	10045-97-3	PCI/G	Hh	0.126	0.100	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00448	0.0858	10198-40-0	PCI/G	HUh	0.168		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596410	1203621745	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.225	OER-100-93	PCI/G	Hh	0.337	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596410	1203621745	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0337	0.0721		PCI/G	HUh	0.219	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596410	1203621745	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.037	0.104		PCI/G	Hh	0.111	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.103	0.237	15585-10-1	PCI/G	HUh	0.428		1.00	30.4
4.5C.R.5.2	405235053	GEL	1598647	1203627502	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.193	0.507	15046-84-1	PCI/G	HUh	1.14	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.55	0.207	15092-94-1	PCI/G	Hh	0.151		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.65	0.339	15067-28-4	PCI/G	Hh	0.606		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596411	1203621748	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.159	0.529	13994-20-2	PCI/G	HUh	0.978	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596412	1203621751	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0754	0.117	13981-16-3	PCI/G	Hh	0.177	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596412	1203621751	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.00801	0.0923	OER-100-70	PCI/G	HUh	0.198	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596414	1203621754	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	2.18	6.84	14119-32-5	PCI/G	HUh	11.7	15.0	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	18.7	2.58	13966-00-2	PCI/G	Hh	0.973		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.27	14331-85-2	PCI/G	HUIh	1.25		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.36	0.320	13982-63-3	PCI/G	Hh	0.249		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.36	0.443	15262-20-1	PCI/G	Hh	0.427		1.00	30.4
4.5C.R.5.2	405235053	GEL	1597803	1203625408	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/23/16	405235	Strontium-90	R	EPA 905.0 M	-0.426	0.604	10098-97-2	PCI/G	HUh	1.30	2.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1597414	1203624304	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	1.06	2.16	14133-76-7	PCI/G	HUh	3.73	5.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.324	0.148	14913-50-9	PCI/G	Hh	0.113		1.00	30.4
4.5C.R.5.2	405235053	GEL	1596407	1203621736	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	2.20	0.918	14274-82-9	PCI/G	Hh	0.583	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596407	1203621736	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.0356	0.198	15594-54-4	PCI/G	HUh	0.379	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596407	1203621736	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.56	0.658	14269-63-7	PCI/G	Hh	0.328	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596407	1203621736	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	1.41	0.628	7440-29-1	PCI/G	Hh	0.327	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596252	1203621361	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.124		PCI/G	HUIh	0.147		1.00	30.4
4.5C.R.5.2	405235053	GEL	1598092	1203626144	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	-1.02	3.28	10028-17-8	PCI/G	HUh	5.75	6.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596408	1203621739	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.000599	0.0904	14158-29-3	PCI/G	HUh	0.205	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596408	1203621739	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	1.16	0.389	13968-55-3/1	PCI/G	Hh	0.199	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596408	1203621739	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.221	0.179	15117-96-1/1	PCI/G	Hh	0.139	1.00	1.00	30.4
4.5C.R.5.2	405235053	GEL	1596408	1203621739	SAMPLE	TARGET	12/01/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	1.27	0.403	7440-61-1	PCI/G	Hh	0.169	1.00	1.00	30.4
4.5C.R.1.3	405235054	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	16.3	3.97	12587-46-1	PCI/G	Hh	3.97	4.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0501	0.223	14952-40-0	PCI/G	HUh	0.419		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.00405	0.0403	14596-10-2	PCI/G	HUh	0.0916	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00	0.112	14234-35-6	PCI/G	HUIh	0.236		1.00	18.2
4.5C.R.1.3	405235054	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	21.8	2.94	12587-47-2	PCI/G	Hh	3.45	10.0	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.741	14913-49-6	PCI/G	HUIh	1.51		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.835	0.220	14733-03-0	PCI/G	Hh	0.121		1.00	18.2
4.5C.R.1.3	405235054	GEL	1598081	1203626109	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.502	0.719	14762-75-5	PCI/G	HUh	1.25	2.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.00469	0.043	10045-97-3	PCI/G	HUh	0.0826	0.100	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00992	0.0397	10198-40-0	PCI/G	HUh	0.0863		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.137	OER-100-93	PCI/G	Hh	0.205	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0159	0.0567		PCI/G	HUh	0.093	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0226	0.0633		PCI/G	Hh	0.0678	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.035	0.112	15585-10-1	PCI/G	HUh	0.243		1.00	18.2
4.5C.R.1.3	405235054	GEL	1598647	1203627502	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.138	0.251	15046-84-1	PCI/G	HUh	0.435	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.20	0.130	15092-94-1	PCI/G	Hh	0.0961		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.11	0.189	15067-28-4	PCI/G	Hh	0.346		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596411	1203621748	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0119	0.427	13994-20-2	PCI/G	HUh	0.985	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00714	0.0509	13981-16-3	PCI/G	HUh	0.123	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0071	0.0506	OER-100-70	PCI/G	HUh	0.122	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596414	1203621754	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	-2.03	7.01	14119-32-5	PCI/G	HUh	12.2	15.0	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.5	1.68	13966-00-2	PCI/G	Hh	0.516		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.334	0.456	14331-85-2	PCI/G	HUh	0.924		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.835	0.220	13982-63-3	PCI/G	Hh	0.121		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.30	0.285	15262-20-1	PCI/G	Hh	0.227		1.00	18.2
4.5C.R.1.3	405235054	GEL	1597803	1203625408	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.599	0.569	10098-97-2	PCI/G	HUh	1.22	2.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1597414	1203624304	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.447	1.80	14133-76-7	PCI/G	HUh	3.25	5.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.338	0.0819	14913-50-9	PCI/G	Hh	0.0772		1.00	18.2
4.5C.R.1.3	405235054	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.17	0.728	14274-82-9	PCI/G	Hh	0.668	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.280	0.364	15594-54-4	PCI/G	Hh	0.517	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.16	0.596	14269-63-7	PCI/G	Hh	0.353	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.862	0.521	7440-29-1	PCI/G	Hh	0.352	1.00	1.00	18.2

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5C.R.1.3	405235054	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.141		PCI/G	HUIh	0.149		1.00	18.2
4.5C.R.1.3	405235054	GEL	1598092	1203626144	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	0.682	2.51	10028-17-8	PCI/G	HUh	4.31	6.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0174	0.0613	14158-29-3	PCI/G	HUh	0.169	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.913	0.341	13968-55-3/1	PCI/G	Hh	0.184	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0851	0.123	15117-96-1/1	PCI/G	Hh	0.151	1.00	1.00	18.2
4.5C.R.1.3	405235054	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.948	0.346	7440-61-1	PCI/G	Hh	0.175	1.00	1.00	18.2
4.5C.R.1.4	405235055	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	21.1	4.85	12587-46-1	PCI/G	Hh	3.98	4.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0469	0.204	14952-40-0	PCI/G	HUh	0.363		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.017	0.0605	14596-10-2	PCI/G	HUh	0.0991	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00308	0.105	14234-35-6	PCI/G	HUh	0.205		1.00	19.3
4.5C.R.1.4	405235055	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	23.3	2.96	12587-47-2	PCI/G	Hh	2.74	10.0	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.734	14913-49-6	PCI/G	HUIh	1.20		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.785	0.176	14733-03-0	PCI/G	Hh	0.112		1.00	19.3
4.5C.R.1.4	405235055	GEL	1598081	1203626109	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.383	0.679	14762-75-5	PCI/G	HUh	1.18	2.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.00211	0.0311	10045-97-3	PCI/G	HUh	0.0647	0.100	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00585	0.0396	10198-40-0	PCI/G	HUh	0.0822		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.148	OER-100-93	PCI/G	Hh	0.222	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0134	0.046		PCI/G	HUh	0.127	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0489		PCI/G	Hh	0.0733	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0184	0.0824	15585-10-1	PCI/G	HUh	0.164		1.00	19.3
4.5C.R.1.4	405235055	GEL	1598647	1203627502	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0833	0.361	15046-84-1	PCI/G	HUh	0.865	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.14	0.122	15092-94-1	PCI/G	Hh	0.0856		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.08	0.203	15067-28-4	PCI/G	Hh	0.328		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596411	1203621748	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0277	0.494	13994-20-2	PCI/G	HUh	1.07	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.02	0.0586	13981-16-3	PCI/G	HUh	0.168	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0157	0.0823	OER-100-70	PCI/G	HUh	0.207	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596414	1203621754	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	0.440	8.36	14119-32-5	PCI/G	HUh	14.4	15.0	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.7	1.64	13966-00-2	PCI/G	Hh	0.753		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.462	14331-85-2	PCI/G	HUIh	0.908		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.785	0.176	13982-63-3	PCI/G	Hh	0.112		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.951	0.298	15262-20-1	PCI/G	Hh	0.199		1.00	19.3
4.5C.R.1.4	405235055	GEL	1597803	1203625408	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.797	0.573	10098-97-2	PCI/G	HUh	1.24	2.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1597414	1203624304	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.234	1.85	14133-76-7	PCI/G	HUh	3.26	5.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.345	0.0764	14913-50-9	PCI/G	Hh	0.0678		1.00	19.3
4.5C.R.1.4	405235055	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.44	0.687	14274-82-9	PCI/G	Hh	0.554	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.267	0.295	15594-54-4	PCI/G	Hh	0.390	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.710	0.426	14269-63-7	PCI/G	Hh	0.389	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.803	0.436	7440-29-1	PCI/G	Hh	0.306	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.138		PCI/G	HUIh	0.100		1.00	19.3
4.5C.R.1.4	405235055	GEL	1598092	1203626144	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Tritium	R	EPA 906.0 M	0.550	2.56	10028-17-8	PCI/G	HUh	4.41	6.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0368	0.0549	14158-29-3	PCI/G	HUh	0.183	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.707	0.190	13968-55-3/1	PCI/G	Hh	0.0889	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0381	0.0502	15117-96-1/1	PCI/G	Hh	0.0381	1.00	1.00	19.3
4.5C.R.1.4	405235055	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.947	0.217	7440-61-1	PCI/G	Hh	0.0608	1.00	1.00	19.3
4.5C.R.2.2	405235056	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	18.6	4.44	12587-46-1	PCI/G	Hh	3.95	4.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0863	0.361	14952-40-0	PCI/G	HUh	0.655		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0122	0.0574	14596-10-2	PCI/G	HUh	0.145	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0737	0.151	14234-35-6	PCI/G	HUh	0.302		1.00	31.8
4.5C.R.2.2	405235056	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	31.6	3.63	12587-47-2	PCI/G	Hh	3.23	10.0	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.880	14913-49-6	PCI/G	HUIh	1.86		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.48	0.253	14733-03-0	PCI/G	Hh	0.159		1.00	31.8
4.5C.R.2.2	405235056	GEL	1598081	1203626109	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.647	0.823	14762-75-5	PCI/G	HUh	1.43	2.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.228	0.100	10045-97-3	PCI/G	Hh	0.0865	0.100	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0496	0.0626	10198-40-0	PCI/G	HUh	0.145		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.131	OER-100-93	PCI/G	Hh	0.197	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0193	0.054		PCI/G	Hh	0.0578	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0173	0.0614		PCI/G	HUh	0.101	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0879	0.210	15585-10-1	PCI/G	HUh	0.358		1.00	31.8
4.5C.R.2.2	405235056	GEL	1598647	1203627502	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.167	0.262	15046-84-1	PCI/G	HUh	0.913	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.32	0.162	15092-94-1	PCI/G	Hh	0.146		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.53	0.274	15067-28-4	PCI/G	Hh	0.510		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596411	1203621748	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	0.00	0.273	13994-20-2	PCI/G	Hh	0.415	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.0209	0.0446	13981-16-3	PCI/G	HUh	0.137	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0178	0.0439	OER-100-70	PCI/G	HUh	0.131	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596414	1203621754	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	1.00	5.49	14119-32-5	PCI/G	HUh	9.41	15.0	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	19.2	2.25	13966-00-2	PCI/G	Hh	0.967		1.00	31.8

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.28	14331-85-2	PCI/G	HUIh	1.15		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.48	0.253	13982-63-3	PCI/G	Hh	0.159		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.18	0.484	15262-20-1	PCI/G	Hh	0.478		1.00	31.8
4.5C.R.2.2	405235056	GEL	1597803	1203625408	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	-0.971	0.874	10098-97-2	PCI/G	HUh	1.85	2.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1597414	1203624304	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.739	2.33	14133-76-7	PCI/G	HUh	4.06	5.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.354	0.112	14913-50-9	PCI/G	Hh	0.0842		1.00	31.8
4.5C.R.2.2	405235056	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.13	0.657	14274-82-9	PCI/G	Hh	0.675	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.124	0.297	15594-54-4	PCI/G	HUh	0.538	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.09	0.527	14269-63-7	PCI/G	Hh	0.408	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.887	0.472	7440-29-1	PCI/G	Hh	0.355	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.211		PCI/G	HUIh	0.180		1.00	31.8
4.5C.R.2.2	405235056	GEL	1598092	1203626144	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	-2.66	2.87	10028-17-8	PCI/G	HUh	5.14	6.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.00495	0.0717	14158-29-3	PCI/G	HUh	0.169	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	1.14	0.419	13968-55-3/1	PCI/G	Hh	0.202	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.116	0.151	15117-96-1/1	PCI/G	Hh	0.116	1.00	1.00	31.8
4.5C.R.2.2	405235056	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	1.44	0.470	7440-61-1	PCI/G	Hh	0.216	1.00	1.00	31.8
4.5C.R.2.3	405235057	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	22.1	4.74	12587-46-1	PCI/G	Hh	3.98	4.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0122	0.218	14952-40-0	PCI/G	HUh	0.390		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0246	0.062	14596-10-2	PCI/G	HUh	0.104	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00259	0.0957	14234-35-6	PCI/G	HUh	0.189		1.00	27.1
4.5C.R.2.3	405235057	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	23.9	2.90	12587-47-2	PCI/G	Hh	2.68	10.0	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.757	14913-49-6	PCI/G	HUIh	1.43		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.11	0.196	14733-03-0	PCI/G	Hh	0.128		1.00	27.1
4.5C.R.2.3	405235057	GEL	1598081	1203626109	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	0.286	0.798	14762-75-5	PCI/G	HUh	1.36	2.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.225	0.0798	10045-97-3	PCI/G	Hh	0.0759	0.100	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00665	0.0424	10198-40-0	PCI/G	HUh	0.0734		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.123	OER-100-93	PCI/G	Hh	0.185	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0333	0.0422		PCI/G	HUh	0.143	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0407		PCI/G	Hh	0.061	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0281	0.129	15585-10-1	PCI/G	HUh	0.242		1.00	27.1
4.5C.R.2.3	405235057	GEL	1598647	1203627502	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0658	0.148	15046-84-1	PCI/G	HUh	0.356	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.16	0.130	15092-94-1	PCI/G	Hh	0.0951		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.17	0.203	15067-28-4	PCI/G	Hh	0.130		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596411	1203621748	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0314	0.262	13994-20-2	PCI/G	HUh	0.616	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.0209	0.0515	13981-16-3	PCI/G	HUh	0.154	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/24	R	DOE EML HA	0.0106	0.0694	OER-100-70	PCI/G	HUh	0.138	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596414	1203621754	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	-4.86	6.76	14119-32-5	PCI/G	HUh	11.9	15.0	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.8	1.85	13966-00-2	PCI/G	Hh	0.693		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0304	0.520	14331-85-2	PCI/G	HUh	0.853		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.11	0.196	13982-63-3	PCI/G	Hh	0.128		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.46	0.347	15262-20-1	PCI/G	Hh	0.296		1.00	27.1
4.5C.R.2.3	405235057	GEL	1597803	1203625408	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/23/16	405235	Strontium-90	R	EPA 905.0 M	-0.749	0.592	10098-97-2	PCI/G	HUh	1.34	2.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1597414	1203624304	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0999	1.95	14133-76-7	PCI/G	HUh	3.47	5.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.322	0.097	14913-50-9	PCI/G	Hh	0.0655		1.00	27.1
4.5C.R.2.3	405235057	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.29	0.620	14274-82-9	PCI/G	Hh	0.461	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	-0.0206	0.192	15594-54-4	PCI/G	HUh	0.447	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.17	0.519	14269-63-7	PCI/G	Hh	0.431	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	1.24	0.514	7440-29-1	PCI/G	Hh	0.313	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.105		PCI/G	HUIh	0.081		1.00	27.1
4.5C.R.2.3	405235057	GEL	1598092	1203626144	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	-0.183	2.78	10028-17-8	PCI/G	HUh	4.82	6.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0184	0.0509	14158-29-3	PCI/G	HUh	0.148	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.915	0.356	13968-55-3/1	PCI/G	Hh	0.166	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0639	0.117	15117-96-1/1	PCI/G	Hh	0.148	1.00	1.00	27.1
4.5C.R.2.3	405235057	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.666	0.308	7440-61-1	PCI/G	Hh	0.192	1.00	1.00	27.1
4.5C.R.2.4	405235058	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	16.9	4.00	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0411	0.246	14952-40-0	PCI/G	HUh	0.455		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0158	0.0567	14596-10-2	PCI/G	HUh	0.147	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0263	0.107	14234-35-6	PCI/G	HUh	0.204		1.00	19.8
4.5C.R.2.4	405235058	GEL	1602427	1203636653	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	21.2	2.72	12587-47-2	PCI/G	Hh	2.65	10.0	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.178	0.543	14913-49-6	PCI/G	HUh	1.08		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.900	0.201	14733-03-0	PCI/G	Hh	0.146		1.00	19.8
4.5C.R.2.4	405235058	GEL	1598081	1203626109	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.0863	0.716	14762-75-5	PCI/G	HUh	1.23	2.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0407	10045-97-3	PCI/G	HUIh	0.0895	0.100	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0217	0.0423	10198-40-0	PCI/G	HUh	0.0769		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.129	OER-100-93	PCI/G	Hh	0.193	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0155	0.0407		PCI/G	HUh	0.118	1.00	1.00	19.8

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.5C.R.2.4	405235058	GEL	1596410	1203621745	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	-0.0131	0.0451		PCI/G	HUh	0.124	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00	0.192	15585-10-1	PCI/G	HUIh	0.272		1.00	19.8
4.5C.R.2.4	405235058	GEL	1598647	1203627502	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.188	0.285	15046-84-1	PCI/G	HUh	0.478	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.11	0.136	15092-94-1	PCI/G	Hh	0.094		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.18	0.209	15067-28-4	PCI/G	Hh	0.363		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596411	1203621748	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0274	0.395	13994-20-2	PCI/G	HUh	0.934	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0115	0.0761	13981-16-3	PCI/G	HUh	0.152	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596412	1203621751	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	0.0381	0.0919	OER-100-70	PCI/G	Hh	0.151	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596414	1203621754	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	1.19	7.09	14119-32-5	PCI/G	HUh	12.2	15.0	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.8	1.62	13966-00-2	PCI/G	Hh	0.799		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.0493	0.455	14331-85-2	PCI/G	HUh	0.894		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.900	0.201	13982-63-3	PCI/G	Hh	0.146		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.576	0.375	15262-20-1	PCI/G	Hh	0.291		1.00	19.8
4.5C.R.2.4	405235058	GEL	1597803	1203625408	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/23/16	405235	Strontium-90	R	EPA 905.0 M	-0.0972	0.753	10098-97-2	PCI/G	HUh	1.40	2.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1597414	1203624304	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.0868	1.74	14133-76-7	PCI/G	HUh	3.09	5.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.214	0.102	14913-50-9	PCI/G	Hh	0.066		1.00	19.8
4.5C.R.2.4	405235058	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Thorium-228	R	DOE EML HA	1.08	0.624	14274-82-9	PCI/G	Hh	0.595	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Thorium-229	R	DOE EML HA	0.131	0.232	15594-54-4	PCI/G	Hh	0.351	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Thorium-230	R	DOE EML HA	0.878	0.483	14269-63-7	PCI/G	Hh	0.444	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596407	1203621736	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/26/16	405235	Thorium-232	R	DOE EML HA	0.716	0.422	7440-29-1	PCI/G	Hh	0.317	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596252	1203621361	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.128		PCI/G	HUIh	0.127		1.00	19.8
4.5C.R.2.4	405235058	GEL	1598092	1203626144	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	0.869	2.79	10028-17-8	PCI/G	HUh	4.78	6.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0251	0.0586	14158-29-3	PCI/G	HUh	0.176	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.771	0.313	13968-55-3/1	PCI/G	Hh	0.215	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.156	0.158	15117-96-1/1	PCI/G	Hh	0.187	1.00	1.00	19.8
4.5C.R.2.4	405235058	GEL	1596408	1203621739	SAMPLE	TARGET	12/02/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.557	0.279	7440-61-1	PCI/G	Hh	0.257	1.00	1.00	19.8
5.1A.R.1.2	405235059	GEL	1602427	1203636653	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	19.9	3.99	12587-46-1	PCI/G	Hh	3.98	4.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.00951	0.180	14952-40-0	PCI/G	HUh	0.364		1.00	12
5.1A.R.1.2	405235059	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0239	0.085	14596-10-2	PCI/G	HUh	0.139	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00089	0.0924	14234-35-6	PCI/G	HUh	0.181		1.00	12
5.1A.R.1.2	405235059	GEL	1602427	1203636653	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	24.8	3.02	12587-47-2	PCI/G	Hh	3.45	10.0	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.970	14913-49-6	PCI/G	HUIh	1.26		1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.795	0.217	14733-03-0	PCI/G	Hh	0.100		1.00	12
5.1A.R.1.2	405235059	GEL	1598081	1203626109	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	0.242	0.688	14762-75-5	PCI/G	HUh	1.17	2.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.072	0.0437	10045-97-3	PCI/G	Hh	0.055	0.100	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0335	0.0339	10198-40-0	PCI/G	HUh	0.0522		1.00	12
5.1A.R.1.2	405235059	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.196	OER-100-93	PCI/G	Hh	0.294	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0663	0.122		PCI/G	Hh	0.191	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0343	0.0961		PCI/G	Hh	0.103	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0301	0.0965	15585-10-1	PCI/G	HUh	0.183		1.00	12
5.1A.R.1.2	405235059	GEL	1598647	1203627502	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.00576	0.128	15046-84-1	PCI/G	HUh	0.274	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.931	0.118	15092-94-1	PCI/G	Hh	0.0819		1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.851	0.179	15067-28-4	PCI/G	Hh	0.112		1.00	12
5.1A.R.1.2	405235059	GEL	1596411	1203621748	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.158	0.343	13994-20-2	PCI/G	HUh	1.06	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596412	1203621751	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0153	0.0758	13981-16-3	PCI/G	HUh	0.142	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596412	1203621751	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	-0.0114	0.0543	OER-100-70	PCI/G	HUh	0.141	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596414	1203621754	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	-4.9	7.29	14119-32-5	PCI/G	HUh	12.8	15.0	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.9	1.40	13966-00-2	PCI/G	Hh	0.548		1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0471	0.348	14331-85-2	PCI/G	HUh	0.682		1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.795	0.217	13982-63-3	PCI/G	Hh	0.100		1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.513	0.251	15262-20-1	PCI/G	Hh	0.194		1.00	12
5.1A.R.1.2	405235059	GEL	1597803	1203625408	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.292	0.653	10098-97-2	PCI/G	HUh	1.16	2.00	1.00	12
5.1A.R.1.2	405235059	GEL	1597414	1203624304	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.587	1.60	14133-76-7	PCI/G	HUh	2.77	5.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.286	0.0704	14913-50-9	PCI/G	Hh	0.0532		1.00	12
5.1A.R.1.2	405235059	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.45	0.774	14274-82-9	PCI/G	Hh	0.778	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.439	0.387	15594-54-4	PCI/G	Hh	0.452	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.726	0.459	14269-63-7	PCI/G	Hh	0.393	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.962	0.504	7440-29-1	PCI/G	Hh	0.192	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.136		PCI/G	HUIh	0.124		1.00	12
5.1A.R.1.2	405235059	GEL	1598092	1203626144	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	-1.78	2.83	10028-17-8	PCI/G	HUh	4.95	6.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0334	0.0534	14158-29-3	PCI/G	HUh	0.175	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.791	0.303	13968-55-3/1	PCI/G	Hh	0.151	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.111	0.127	15117-96-1/1	PCI/G	Hh	0.124	1.00	1.00	12
5.1A.R.1.2	405235059	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.619	0.270	7440-61-1	PCI/G	Hh	0.151	1.00	1.00	12
5.1A.R.1.3	405235060	GEL	1602427	1203636653	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	17.4	3.70	12587-46-1	PCI/G	Hh	3.92	4.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.00776	0.189	14952-40-0	PCI/G	HUh	0.362		1.00	9.64

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.1A.R.1.3	405235060	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.00394	0.0507	14596-10-2	PCI/G	HUh	0.120	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0261	0.0828	14234-35-6	PCI/G	HUh	0.158		1.00	9.64
5.1A.R.1.3	405235060	GEL	1602427	1203636653	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	22.6	2.51	12587-47-2	PCI/G	Hh	2.42	10.0	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.686	14913-49-6	PCI/G	HUIh	0.983		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.855	0.176	14733-03-0	PCI/G	Hh	0.108		1.00	9.64
5.1A.R.1.3	405235060	GEL	1598081	1203626109	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.0157	0.598	14762-75-5	PCI/G	HUh	1.02	2.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.094	0.0438	10045-97-3	PCI/G	Hh	0.0505	0.100	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0163	0.0265	10198-40-0	PCI/G	HUh	0.0568		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.111	OER-100-93	PCI/G	Hh	0.167	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0106	0.0367		PCI/G	HUh	0.101	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596410	1203621745	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.031	0.0676		PCI/G	Hh	0.104	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0611	0.103	15585-10-1	PCI/G	HUh	0.189		1.00	9.64
5.1A.R.1.3	405235060	GEL	1598647	1203627502	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.0572	0.119	15046-84-1	PCI/G	HUh	0.254	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.811	0.101	15092-94-1	PCI/G	Hh	0.0736		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.167	15067-28-4	PCI/G	Hh	0.269		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596411	1203621748	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.096	0.412	13994-20-2	PCI/G	HUh	1.06	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596412	1203621751	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.0108	0.0389	13981-16-3	PCI/G	HUh	0.107	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596412	1203621751	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	-0.00806	0.0383	OER-100-70	PCI/G	HUh	0.0997	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596414	1203621754	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	2.74	5.93	14119-32-5	PCI/G	HUh	10.1	15.0	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.6	1.07	13966-00-2	PCI/G	Hh	0.422		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.201	0.376	14331-85-2	PCI/G	HUh	0.711		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.855	0.176	13982-63-3	PCI/G	Hh	0.108		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.869	0.259	15262-20-1	PCI/G	Hh	0.162		1.00	9.64
5.1A.R.1.3	405235060	GEL	1597803	1203625408	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 M	0.112	0.508	10098-97-2	PCI/G	HUh	0.954	2.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1597414	1203624304	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.35	1.41	14133-76-7	PCI/G	HUh	2.66	5.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.220	0.0883	14913-50-9	PCI/G	Hh	0.0472		1.00	9.64
5.1A.R.1.3	405235060	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	0.404	0.528	14274-82-9	PCI/G	Hh	0.787	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	-0.0511	0.231	15594-54-4	PCI/G	HUh	0.583	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	1.16	0.609	14269-63-7	PCI/G	Hh	0.415	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596407	1203621736	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.748	0.487	7440-29-1	PCI/G	Hh	0.224	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596252	1203621361	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.104		PCI/G	HUIh	0.0964		1.00	9.64
5.1A.R.1.3	405235060	GEL	1598092	1203626144	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	-2.08	2.20	10028-17-8	PCI/G	HUh	3.94	6.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0171	0.0587	14158-29-3	PCI/G	HUh	0.163	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.262	0.171	13968-55-3/1	PCI/G	Hh	0.141	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0217	0.0704	15117-96-1/1	PCI/G	Hh	0.109	1.00	1.00	9.64
5.1A.R.1.3	405235060	GEL	1596408	1203621739	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.570	0.241	7440-61-1	PCI/G	Hh	0.122	1.00	1.00	9.64
5.1B.R.2.2	405235061	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	28.5	6.85	12587-46-1	PCI/G	Hh	3.64	4.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.12	0.189	14952-40-0	PCI/G	HUh	0.350		1.00	17.6
5.1B.R.2.2	405235061	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.142	0.243	14596-10-2	PCI/G	Hh	0.213	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.068	0.0832	14234-35-6	PCI/G	HUh	0.178		1.00	17.6
5.1B.R.2.2	405235061	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	37.7	4.83	12587-47-2	PCI/G	Hh	2.94	10.0	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.504	14913-49-6	PCI/G	HUIh	1.12		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.922	0.164	14733-03-0	PCI/G	Hh	0.114		1.00	17.6
5.1B.R.2.2	405235061	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.0115	0.738	14762-75-5	PCI/G	HUh	1.27	2.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0251	0.039	10045-97-3	PCI/G	HUh	0.0783	0.100	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0224	0.0301	10198-40-0	PCI/G	HUh	0.0701		1.00	17.6
5.1B.R.2.2	405235061	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.470	OER-100-93	PCI/G	Hh	0.700	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.145		PCI/G	Hh	0.216	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.081	0.228		PCI/G	Hh	0.243	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0331	0.098	15585-10-1	PCI/G	HUh	0.208		1.00	17.6
5.1B.R.2.2	405235061	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.00	0.328	15046-84-1	PCI/G	HUIh	0.449	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.802	0.112	15092-94-1	PCI/G	Hh	0.0916		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.19	0.158	15067-28-4	PCI/G	Hh	0.102		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.102	0.237	13994-20-2	PCI/G	HUh	0.704	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0258	0.0508	13981-16-3	PCI/G	Hh	0.0704	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	0.0257	0.0505	OER-100-70	PCI/G	Hh	0.070	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-1.33	4.61	14119-32-5	PCI/G	HUh	7.97	15.0	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.5	1.37	13966-00-2	PCI/G	Hh	0.674		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.553	14331-85-2	PCI/G	HUIh	0.521		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.922	0.164	13982-63-3	PCI/G	Hh	0.114		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.227	15262-20-1	PCI/G	HUIh	0.497		1.00	17.6
5.1B.R.2.2	405235061	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.823	0.639	10098-97-2	PCI/G	HUh	1.42	2.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.147	0.973	14133-76-7	PCI/G	HUh	1.72	5.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.264	0.0737	14913-50-9	PCI/G	Hh	0.0515		1.00	17.6
5.1B.R.2.2	405235061	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.491	0.506	14274-82-9	PCI/G	Hh	0.689	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.00	0.130	15594-54-4	PCI/G	Hh	0.193	1.00	1.00	17.6

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.1B.R.2.2	405235061	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.707	0.437	14269-63-7	PCI/G	Hh	0.193	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.850	0.490	7440-29-1	PCI/G	Hh	0.391	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0261	0.125		PCI/G	HUh	0.109		1.00	17.6
5.1B.R.2.2	405235061	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	0.635	2.11	10028-17-8	PCI/G	HUh	3.63	6.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0232	0.0794	14158-29-3	PCI/G	HUh	0.147	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.585	0.188	13968-55-3/1	PCI/G	Hh	0.0462	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0309	0.0529	15117-96-1/1	PCI/G	Hh	0.0463	1.00	1.00	17.6
5.1B.R.2.2	405235061	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.800	0.220	7440-61-1	PCI/G	Hh	0.0462	1.00	1.00	17.6
5.2.A.R.1.2	405235062	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	16.6	3.93	12587-46-1	PCI/G	Hh	4.00	4.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.249	0.253	14952-40-0	PCI/G	HUh	0.413		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.037	0.164	14596-10-2	PCI/G	HUh	0.427	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.00782	0.0964	14234-35-6	PCI/G	HUh	0.201		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	31.2	3.15	12587-47-2	PCI/G	Hh	2.56	10.0	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.507	1.06	14913-49-6	PCI/G	HUh	1.48		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.881	0.205	14733-03-0	PCI/G	Hh	0.144		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.065	0.756	14762-75-5	PCI/G	HUh	1.29	2.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0638	10045-97-3	PCI/G	HUIh	0.0743	0.100	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0307	0.0466	10198-40-0	PCI/G	HUh	0.0834		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0609	0.525	OER-100-93	PCI/G	HUh	1.22	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0375	0.166		PCI/G	HUh	0.433	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.529	0.459		PCI/G	HXh	0.264	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0193	0.140	15585-10-1	PCI/G	HUh	0.289		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.00633	0.128	15046-84-1	PCI/G	HUh	0.361	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.897	0.140	15092-94-1	PCI/G	Hh	0.0957		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.02	0.219	15067-28-4	PCI/G	Hh	0.394		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.024	0.251	13994-20-2	PCI/G	HUh	0.524	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.00479	0.0501	13981-16-3	PCI/G	HUh	0.105	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0204	0.0387	OER-100-70	PCI/G	HUh	0.119	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-5.88	4.74	14119-32-5	PCI/G	HUh	8.38	15.0	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.3	1.84	13966-00-2	PCI/G	Hh	0.678		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.259	0.545	14331-85-2	PCI/G	HUh	1.07		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.881	0.205	13982-63-3	PCI/G	Hh	0.144		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.03	0.387	15262-20-1	PCI/G	Hh	0.313		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.0085	0.969	10098-97-2	PCI/G	HUh	1.80	2.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.0577	1.04	14133-76-7	PCI/G	HUh	1.85	5.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.238	0.0747	14913-50-9	PCI/G	Hh	0.0643		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.234	0.407	14274-82-9	PCI/G	Hh	0.646	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.176	0.279	15594-54-4	PCI/G	Hh	0.386	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.871	0.513	14269-63-7	PCI/G	Hh	0.385	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.399	0.363	7440-29-1	PCI/G	Hh	0.333	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00635	0.207		PCI/G	HUh	0.148		1.00	19.4
5.2.A.R.1.2	405235062	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	1.14	2.25	10028-17-8	PCI/G	HUh	3.84	6.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0327	0.0651	14158-29-3	PCI/G	Hh	0.106	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.647	0.236	13968-55-3/1	PCI/G	Hh	0.137	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0577	0.0831	15117-96-1/1	PCI/G	Hh	0.100	1.00	1.00	19.4
5.2.A.R.1.2	405235062	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.954	0.281	7440-61-1	PCI/G	Hh	0.100	1.00	1.00	19.4
5.2.A.R.1.3	405235063	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	35.9	5.02	12587-46-1	PCI/G	Hh	3.93	4.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.032	0.230	14952-40-0	PCI/G	HUh	0.425		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0585	0.164	14596-10-2	PCI/G	Hh	0.175	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0909	0.119	14234-35-6	PCI/G	HUh	0.248		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	39.3	3.20	12587-47-2	PCI/G	Hh	2.23	10.0	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.07	14913-49-6	PCI/G	HUIh	1.32		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.860	0.230	14733-03-0	PCI/G	Hh	0.125		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.0622	0.657	14762-75-5	PCI/G	HUh	1.13	2.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0309	0.0428	10045-97-3	PCI/G	HUh	0.0883	0.100	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0124	0.0393	10198-40-0	PCI/G	HUh	0.0748		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0462	0.398	OER-100-93	PCI/G	HUh	0.923	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.119		PCI/G	Hh	0.178	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.134	0.229		PCI/G	Hh	0.201	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0544	0.111	15585-10-1	PCI/G	HUh	0.245		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0176	0.200	15046-84-1	PCI/G	HUh	0.416	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.989	0.132	15092-94-1	PCI/G	Hh	0.0893		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.957	0.183	15067-28-4	PCI/G	Hh	0.133		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0471	0.262	13994-20-2	PCI/G	HUh	0.501	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0159	0.0448	13981-16-3	PCI/G	Hh	0.0478	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.00823	0.0457	OER-100-70	PCI/G	HUh	0.0877	1.00	1.00	10.5

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2.A.R.1.3	405235063	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-4.21	5.03	14119-32-5	PCI/G	HUh	8.81	15.0	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.6	1.59	13966-00-2	PCI/G	Hh	0.823		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.644	14331-85-2	PCI/G	HUlh	0.896		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.860	0.230	13982-63-3	PCI/G	Hh	0.125		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.14	0.396	15262-20-1	PCI/G	Hh	0.227		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	0.500	0.924	10098-97-2	PCI/G	HUh	1.61	2.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.343	0.880	14133-76-7	PCI/G	HUh	1.53	5.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.243	0.0819	14913-50-9	PCI/G	Hh	0.0715		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.41	0.660	14274-82-9	PCI/G	Hh	0.490	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.0829	0.190	15594-54-4	PCI/G	Hh	0.302	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.274	0.288	14269-63-7	PCI/G	Hh	0.359	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.380	0.302	7440-29-1	PCI/G	Hh	0.163	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.133		PCI/G	HUlh	0.121		1.00	10.5
5.2.A.R.1.3	405235063	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	1.83	2.01	10028-17-8	PCI/G	Hh	3.37	6.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.00436	0.0455	14158-29-3	PCI/G	HUh	0.095	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.622	0.242	13968-55-3/1	PCI/G	Hh	0.170	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0335	0.077	15117-96-1/1	PCI/G	Hh	0.122	1.00	1.00	10.5
5.2.A.R.1.3	405235063	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.600	0.233	7440-61-1	PCI/G	Hh	0.134	1.00	1.00	10.5
5.2.A.R.1.4	405235064	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	21.7	4.92	12587-46-1	PCI/G	Hh	3.99	4.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0385	0.200	14952-40-0	PCI/G	HUh	0.392		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.00272	0.202	14596-10-2	PCI/G	HUh	0.448	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0366	0.0928	14234-35-6	PCI/G	HUh	0.172		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	31.5	3.80	12587-47-2	PCI/G	Hh	3.63	10.0	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.935	14913-49-6	PCI/G	HUlh	1.43		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.994	0.171	14733-03-0	PCI/G	Hh	0.129		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.222	0.672	14762-75-5	PCI/G	HUh	1.14	2.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.0037	0.0402	10045-97-3	PCI/G	HUh	0.0763	0.100	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0221	0.0363	10198-40-0	PCI/G	HUh	0.0756		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.451	OER-100-93	PCI/G	Hh	0.671	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0827	0.157		PCI/G	HUh	0.483	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.233	0.307		PCI/G	HXh	0.233	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0397	0.0989	15585-10-1	PCI/G	HUh	0.180		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0487	0.244	15046-84-1	PCI/G	HUh	0.378	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.04	0.133	15092-94-1	PCI/G	Hh	0.0845		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.22	0.204	15067-28-4	PCI/G	Hh	0.314		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	0.242	0.481	13994-20-2	PCI/G	Hh	0.781	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0295	0.0587	13981-16-3	PCI/G	Hh	0.0953	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	-0.0173	0.0327	OER-100-70	PCI/G	HUh	0.101	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-3.29	4.38	14119-32-5	PCI/G	HUh	7.66	15.0	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.7	1.48	13966-00-2	PCI/G	Hh	0.719		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.669	14331-85-2	PCI/G	HUlh	0.712		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.994	0.171	13982-63-3	PCI/G	Hh	0.129		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.903	0.293	15262-20-1	PCI/G	Hh	0.244		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	0.0966	0.745	10098-97-2	PCI/G	HUh	1.40	2.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.016	0.849	14133-76-7	PCI/G	HUh	1.52	5.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.306	0.0844	14913-50-9	PCI/G	Hh	0.0577		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	2.18	1.09	14274-82-9	PCI/G	Hh	0.768	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.147	0.337	15594-54-4	PCI/G	Hh	0.534	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.481	0.464	14269-63-7	PCI/G	Hh	0.289	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	1.44	0.754	7440-29-1	PCI/G	Hh	0.288	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.143		PCI/G	HUlh	0.151		1.00	8.16
5.2.A.R.1.4	405235064	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	-0.00112	1.91	10028-17-8	PCI/G	HUh	3.32	6.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Uranium-232	R	DOE EML HA	0.026	0.0755	14158-29-3	PCI/G	HUh	0.141	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Uranium-233/234	R	DOE EML HA	0.700	0.267	13968-55-3/1	PCI/G	Hh	0.151	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Uranium-235/236	R	DOE EML HA	0.00	0.0501	15117-96-1/1	PCI/G	Hh	0.0745	1.00	1.00	8.16
5.2.A.R.1.4	405235064	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Uranium-238	R	DOE EML HA	0.588	0.243	7440-61-1	PCI/G	Hh	0.119	1.00	1.00	8.16
5.2A.R.2.3	405235065	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	16.4	5.58	12587-46-1	PCI/G	Hh	3.56	4.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.128	0.198	14952-40-0	PCI/G	HUh	0.338		1.00	10.1
5.2A.R.2.3	405235065	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0985	0.187	14596-10-2	PCI/G	HUh	0.575	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0197	0.081	14234-35-6	PCI/G	HUh	0.156		1.00	10.1
5.2A.R.2.3	405235065	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	17.7	3.85	12587-47-2	PCI/G	Hh	3.41	10.0	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.858	14913-49-6	PCI/G	HUlh	1.27		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.984	0.194	14733-03-0	PCI/G	Hh	0.129		1.00	10.1
5.2A.R.2.3	405235065	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.30	0.640	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0325	0.0369	10045-97-3	PCI/G	HUh	0.0774	0.100	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0293	0.0452	10198-40-0	PCI/G	HUh	0.0909		1.00	10.1

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2A.R.2.3	405235065	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.544	OER-100-93	PCI/G	Hh	0.810	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.166	0.285		PCI/G	Hh	0.250	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.188	0.321		PCI/G	Hh	0.281	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0228	0.115	15585-10-1	PCI/G	HUh	0.233		1.00	10.1
5.2A.R.2.3	405235065	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0554	0.207	15046-84-1	PCI/G	HUh	0.417	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.08	0.122	15092-94-1	PCI/G	Hh	0.0782		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.31	0.192	15067-28-4	PCI/G	Hh	0.334		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.641	0.610	13994-20-2	PCI/G	Hh	0.643	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0124	0.0349	13981-16-3	PCI/G	Hh	0.0372	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00888	0.0268	OER-100-70	PCI/G	HUh	0.0753	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-2.13	4.55	14119-32-5	PCI/G	HUh	7.90	15.0	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	14.9	1.62	13966-00-2	PCI/G	Hh	0.707		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.652	14331-85-2	PCI/G	HUlh	0.639		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.984	0.194	13982-63-3	PCI/G	Hh	0.129		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.17	0.293	15262-20-1	PCI/G	Hh	0.233		1.00	10.1
5.2A.R.2.3	405235065	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	1.02	0.909	10098-97-2	PCI/G	Hh	1.46	2.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.364	0.883	14133-76-7	PCI/G	HUh	1.63	5.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.359	0.0862	14913-50-9	PCI/G	Hh	0.0502		1.00	10.1
5.2A.R.2.3	405235065	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.14	0.649	14274-82-9	PCI/G	Hh	0.599	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	-0.0292	0.129	15594-54-4	PCI/G	HUh	0.337	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.820	0.463	14269-63-7	PCI/G	Hh	0.336	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.604	0.394	7440-29-1	PCI/G	Hh	0.181	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.084		PCI/G	HUlh	0.0691		1.00	10.1
5.2A.R.2.3	405235065	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	1.23	2.00	10028-17-8	PCI/G	HUh	3.40	6.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0209	0.0476	14158-29-3	PCI/G	HUh	0.130	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.659	0.204	13968-55-3/1	PCI/G	Hh	0.0482	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0967	0.0839	15117-96-1/1	PCI/G	Hh	0.0484	1.00	1.00	10.1
5.2A.R.2.3	405235065	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.663	0.207	7440-61-1	PCI/G	Hh	0.0982	1.00	1.00	10.1
5.2.A.R.2.4	405235066	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	26.5	6.87	12587-46-1	PCI/G	Hh	3.83	4.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0968	0.220	14952-40-0	PCI/G	HUh	0.421		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.00	0.144	14596-10-2	PCI/G	Hh	0.215	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0479	0.0868	14234-35-6	PCI/G	HUh	0.162		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1597817	1203625459	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	28.9	4.26	12587-47-2	PCI/G	Hh	2.69	10.0	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.746	14913-49-6	PCI/G	HUlh	1.19		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.903	0.191	14733-03-0	PCI/G	Hh	0.0939		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1598082	1203626113	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.27	0.641	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0333	10045-97-3	PCI/G	HUlh	0.0772	0.100	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00205	0.0339	10198-40-0	PCI/G	HUh	0.0695		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.475	OER-100-93	PCI/G	Hh	0.707	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.146		PCI/G	Hh	0.218	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1599981	1203630763	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0819	0.230		PCI/G	Hh	0.246	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0238	0.0922	15585-10-1	PCI/G	HUh	0.184		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1598663	1203627531	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.012	0.292	15046-84-1	PCI/G	HUh	0.623	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.792	0.144	15092-94-1	PCI/G	Hh	0.113		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.11	0.160	15067-28-4	PCI/G	Hh	0.116		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596420	1203621766	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0606	0.274	13994-20-2	PCI/G	HUh	0.690	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.030	0.053	13981-16-3	PCI/G	Hh	0.0803	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596421	1203621769	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00261	0.0392	OER-100-70	PCI/G	HUh	0.0916	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596422	1203621772	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-3.42	4.43	14119-32-5	PCI/G	HUh	7.75	15.0	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.6	1.47	13966-00-2	PCI/G	Hh	0.590		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.617	14331-85-2	PCI/G	HUlh	0.658		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.903	0.191	13982-63-3	PCI/G	Hh	0.0939		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.861	0.392	15262-20-1	PCI/G	Hh	0.209		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1597804	1203625412	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	-0.452	0.594	10098-97-2	PCI/G	HUh	1.24	2.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1597417	1203624311	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.000319	0.867	14133-76-7	PCI/G	HUh	1.55	5.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.347	0.0826	14913-50-9	PCI/G	Hh	0.0529		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.469	0.591	14274-82-9	PCI/G	Hh	0.889	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.00	0.159	15594-54-4	PCI/G	Hh	0.237	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.515	0.442	14269-63-7	PCI/G	Hh	0.437	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596417	1203621757	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.828	0.538	7440-29-1	PCI/G	Hh	0.436	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596254	1203621364	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.217		PCI/G	HUlh	0.150		1.00	9.29
5.2.A.R.2.4	405235066	GEL	1598096	1203626152	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	1.47	1.92	10028-17-8	PCI/G	HUh	3.25	6.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.00443	0.0664	14158-29-3	PCI/G	HUh	0.155	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.712	0.227	13968-55-3/1	PCI/G	Hh	0.130	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0225	0.062	15117-96-1/1	PCI/G	HUh	0.108	1.00	1.00	9.29
5.2.A.R.2.4	405235066	GEL	1596418	1203621760	SAMPLE	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.738	0.229	7440-61-1	PCI/G	Hh	0.116	1.00	1.00	9.29

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2A.R.6.2	405235067	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	22.7	4.31	12587-46-1	PCI/G	Hh	3.31	4.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.121	0.219	14952-40-0	PCI/G	HUh	0.403		1.00	13.9
5.2A.R.6.2	405235067	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0776	0.214	14596-10-2	PCI/G	HUh	0.370	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0314	0.117	14234-35-6	PCI/G	HUh	0.216		1.00	13.9
5.2A.R.6.2	405235067	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	30.6	2.98	12587-47-2	PCI/G	Hh	2.70	10.0	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.888	14913-49-6	PCI/G	HUIh	1.52		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.724	0.186	14733-03-0	PCI/G	Hh	0.121		1.00	13.9
5.2A.R.6.2	405235067	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.0984	0.678	14762-75-5	PCI/G	HUh	1.17	2.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0428	10045-97-3	PCI/G	HUIh	0.0368	0.100	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0303	0.0431	10198-40-0	PCI/G	HUh	0.0725		1.00	13.9
5.2A.R.6.2	405235067	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.407	OER-100-93	PCI/G	Hh	0.606	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.124		PCI/G	Hh	0.184	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.140		PCI/G	Hh	0.208	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0476	0.127	15585-10-1	PCI/G	HUh	0.234		1.00	13.9
5.2A.R.6.2	405235067	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0119	0.227	15046-84-1	PCI/G	HUh	0.508	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.922	0.118	15092-94-1	PCI/G	Hh	0.0879		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.01	0.209	15067-28-4	PCI/G	Hh	0.324		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.068	0.305	13994-20-2	PCI/G	HUh	0.596	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0221	0.0435	13981-16-3	PCI/G	Hh	0.0603	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.006	0.0265	OER-100-70	PCI/G	HUh	0.0693	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/21/16	405235	Plutonium-241	R	DOE EML HA	-0.892	4.48	14119-32-5	PCI/G	HUh	7.73	15.0	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.2	1.46	13966-00-2	PCI/G	Hh	0.699		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	1.15	14331-85-2	PCI/G	HUIh	0.755		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.724	0.186	13982-63-3	PCI/G	Hh	0.121		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.691	0.281	15262-20-1	PCI/G	Hh	0.255		1.00	13.9
5.2A.R.6.2	405235067	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	-0.464	0.743	10098-97-2	PCI/G	HUh	1.52	2.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.152	0.867	14133-76-7	PCI/G	HUh	1.57	5.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.223	0.0744	14913-50-9	PCI/G	Hh	0.0602		1.00	13.9
5.2A.R.6.2	405235067	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.23	0.757	14274-82-9	PCI/G	Hh	0.870	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	-0.0317	0.140	15594-54-4	PCI/G	HUh	0.366	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.990	0.537	14269-63-7	PCI/G	Hh	0.434	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.853	0.482	7440-29-1	PCI/G	Hh	0.197	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0967		PCI/G	HUIh	0.0947		1.00	13.9
5.2A.R.6.2	405235067	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/26/16	405235	Tritium	R	EPA 906.0 M	1.39	2.57	10028-17-8	PCI/G	HUh	4.37	6.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0006	0.0445	14158-29-3	PCI/G	HUh	0.0989	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.563	0.188	13968-55-3/1	PCI/G	Hh	0.142	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.00459	0.0523	15117-96-1/1	PCI/G	HUh	0.111	1.00	1.00	13.9
5.2A.R.6.2	405235067	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.708	0.203	7440-61-1	PCI/G	Hh	0.106	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	23.1	4.69	12587-46-1	PCI/G	Hh	3.78	4.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.105	0.287	14952-40-0	PCI/G	HUh	0.502		1.00	13.9
5.2A.R.4.2	405235068	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0838	0.159	14596-10-2	PCI/G	HUh	0.490	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0441	0.123	14234-35-6	PCI/G	HUh	0.235		1.00	13.9
5.2A.R.4.2	405235068	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	26.6	3.05	12587-47-2	PCI/G	Hh	3.26	10.0	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.594	0.766	14913-49-6	PCI/G	HUh	1.58		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.862	0.255	14733-03-0	PCI/G	Hh	0.160		1.00	13.9
5.2A.R.4.2	405235068	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.00569	0.689	14762-75-5	PCI/G	HUh	1.18	2.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0803	10045-97-3	PCI/G	HUIh	0.0907	0.100	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0195	0.0654	10198-40-0	PCI/G	HUh	0.123		1.00	13.9
5.2A.R.4.2	405235068	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.469	OER-100-93	PCI/G	Hh	0.698	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.034	0.150		PCI/G	HUh	0.392	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.239	0.315		PCI/G	HXh	0.239	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0529	0.132	15585-10-1	PCI/G	HUh	0.305		1.00	13.9
5.2A.R.4.2	405235068	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.0393	0.125	15046-84-1	PCI/G	HUh	0.577	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.892	0.184	15092-94-1	PCI/G	Hh	0.130		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.08	0.262	15067-28-4	PCI/G	Hh	0.158		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.126	0.332	13994-20-2	PCI/G	HUh	0.598	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	-0.00587	0.0506	13981-16-3	PCI/G	HUh	0.117	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.00778	0.0886	OER-100-70	PCI/G	HUh	0.188	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-7.65	8.52	14119-32-5	PCI/G	HUh	14.9	15.0	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	10.7	1.72	13966-00-2	PCI/G	Hh	0.196		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.479	0.591	14331-85-2	PCI/G	HUh	1.26		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.862	0.255	13982-63-3	PCI/G	Hh	0.160		1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.598	0.299	15262-20-1	PCI/G	Hh	0.410		1.00	13.9
5.2A.R.4.2	405235068	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.093	0.975	10098-97-2	PCI/G	HUh	1.78	2.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.347	0.969	14133-76-7	PCI/G	HUh	1.78	5.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.333	0.0999	14913-50-9	PCI/G	Hh	0.0792		1.00	13.9

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2A.R.4.2	405235068	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.974	0.691	14274-82-9	PCI/G	Hh	0.702	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.0583	0.219	15594-54-4	PCI/G	HUh	0.368	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.958	0.565	14269-63-7	PCI/G	Hh	0.424	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.498	0.428	7440-29-1	PCI/G	Hh	0.423	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.132		PCI/G	HUIh	0.110		1.00	13.9
5.2A.R.4.2	405235068	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	1.96	2.06	10028-17-8	PCI/G	Hh	3.45	6.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0294	0.0415	14158-29-3	PCI/G	HUh	0.136	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.783	0.224	13968-55-3/1	PCI/G	Hh	0.147	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.073	0.0807	15117-96-1/1	PCI/G	Hh	0.107	1.00	1.00	13.9
5.2A.R.4.2	405235068	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	1.01	0.245	7440-61-1	PCI/G	Hh	0.0839	1.00	1.00	13.9
5.2.B.R.1.4	405235069	GEL	1597817	1203625459	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	17.0	4.04	12587-46-1	PCI/G	Hh	3.77	4.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.03	0.228	14952-40-0	PCI/G	HUh	0.435		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0373	0.207	14596-10-2	PCI/G	HUh	0.398	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0365	0.0967	14234-35-6	PCI/G	HUh	0.194		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1597817	1203625459	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	21.4	2.76	12587-47-2	PCI/G	Hh	3.02	10.0	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	1.22	14913-49-6	PCI/G	HUIh	0.857		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.993	0.166	14733-03-0	PCI/G	Hh	0.123		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1598082	1203626113	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.00499	0.674	14762-75-5	PCI/G	HUh	1.16	2.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.00406	0.0411	10045-97-3	PCI/G	HUh	0.0794	0.100	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0163	0.0365	10198-40-0	PCI/G	HUh	0.0827		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.472	OER-100-93	PCI/G	Hh	0.703	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0873	0.165		PCI/G	HUh	0.510	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0821	0.231		PCI/G	Hh	0.246	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.020	0.131	15585-10-1	PCI/G	HUh	0.269		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1598663	1203627531	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0542	0.386	15046-84-1	PCI/G	HUh	0.892	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.870	0.120	15092-94-1	PCI/G	Hh	0.094		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.22	0.202	15067-28-4	PCI/G	Hh	0.344		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596420	1203621766	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0573	0.215	13994-20-2	PCI/G	HUh	0.361	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596421	1203621769	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	-0.00999	0.0302	13981-16-3	PCI/G	HUh	0.0847	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596421	1203621769	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0165	0.0313	OER-100-70	PCI/G	HUh	0.0967	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596422	1203621772	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-5.61	4.94	14119-32-5	PCI/G	HUh	8.72	15.0	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.8	1.63	13966-00-2	PCI/G	Hh	0.635		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.851	14331-85-2	PCI/G	HUIh	0.783		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.993	0.166	13982-63-3	PCI/G	Hh	0.123		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.30	0.286	15262-20-1	PCI/G	Hh	0.224		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1597804	1203625412	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	0.526	0.831	10098-97-2	PCI/G	HUh	1.45	2.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1597417	1203624311	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.183	0.879	14133-76-7	PCI/G	HUh	1.55	5.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.305	0.0768	14913-50-9	PCI/G	Hh	0.061		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.52	0.758	14274-82-9	PCI/G	Hh	0.599	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.166	0.263	15594-54-4	PCI/G	Hh	0.364	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.889	0.520	14269-63-7	PCI/G	Hh	0.485	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.784	0.463	7440-29-1	PCI/G	Hh	0.196	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.024	0.150		PCI/G	HUh	0.177		1.00	10.6
5.2.B.R.1.4	405235069	GEL	1598096	1203626152	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	2.26	2.00	10028-17-8	PCI/G	Hh	3.33	6.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0123	0.055	14158-29-3	PCI/G	HUh	0.107	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.829	0.206	13968-55-3/1	PCI/G	Hh	0.0897	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0385	0.0506	15117-96-1/1	PCI/G	Hh	0.0385	1.00	1.00	10.6
5.2.B.R.1.4	405235069	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.816	0.202	7440-61-1	PCI/G	Hh	0.0613	1.00	1.00	10.6
5.2.B.R.3.2	405235070	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	15.2	3.46	12587-46-1	PCI/G	Hh	3.10	4.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.00526	0.216	14952-40-0	PCI/G	HUh	0.395		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.00	0.134	14596-10-2	PCI/G	Hh	0.200	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0182	0.0902	14234-35-6	PCI/G	HUh	0.157		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	23.8	2.74	12587-47-2	PCI/G	Hh	2.70	10.0	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.930	14913-49-6	PCI/G	HUIh	1.28		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.966	0.176	14733-03-0	PCI/G	Hh	0.105		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.148	0.740	14762-75-5	PCI/G	HUh	1.27	2.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.071	10045-97-3	PCI/G	HUIh	0.0657	0.100	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0239	0.0296	10198-40-0	PCI/G	HUh	0.0753		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.448	OER-100-93	PCI/G	Hh	0.667	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0677	0.190		PCI/G	Hh	0.203	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.153	0.261		PCI/G	Hh	0.229	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0236	0.0961	15585-10-1	PCI/G	HUh	0.204		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.118	0.181	15046-84-1	PCI/G	HUh	0.338	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.836	0.110	15092-94-1	PCI/G	Hh	0.0758		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.00	0.169	15067-28-4	PCI/G	Hh	0.100		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0843	0.237	13994-20-2	PCI/G	Hh	0.253	1.00	1.00	18.9

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2.B.R.3.2	405235070	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	-0.00372	0.0321	13981-16-3	PCI/G	HUh	0.0744	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24(	R	DOE EML HA	-0.0074	0.0327	OER-100-70	PCI/G	HUh	0.0854	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-3.56	5.28	14119-32-5	PCI/G	HUh	9.21	15.0	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3(	11.7	1.35	13966-00-2	PCI/G	Hh	0.515		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3(	-0.0614	0.403	14331-85-2	PCI/G	HUh	0.715		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3(	0.966	0.176	13982-63-3	PCI/G	Hh	0.105		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3(	0.566	0.322	15262-20-1	PCI/G	Hh	0.222		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M(	-0.589	0.442	10098-97-2	PCI/G	HUh	1.12	2.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.0532	1.00	14133-76-7	PCI/G	HUh	1.78	5.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3(	0.258	0.0727	14913-50-9	PCI/G	Hh	0.0577		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.794	0.651	14274-82-9	PCI/G	Hh	0.815	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.180	0.286	15594-54-4	PCI/G	Hh	0.396	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.428	0.372	14269-63-7	PCI/G	Hh	0.214	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	1.28	0.609	7440-29-1	PCI/G	Hh	0.213	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3(	0.101	0.116		PCI/G	Hh	0.105		1.00	18.9
5.2.B.R.3.2	405235070	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M(	1.56	2.30	10028-17-8	PCI/G	HUh	3.90	6.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0215	0.0346	14158-29-3	PCI/G	HUh	0.110	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.602	0.175	13968-55-3/1	PCI/G	Hh	0.0778	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0133	0.0454	15117-96-1/1	PCI/G	HUh	0.0841	1.00	1.00	18.9
5.2.B.R.3.2	405235070	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.802	0.202	7440-61-1	PCI/G	Hh	0.0839	1.00	1.00	18.9
5.2.B.R.4.2	405235071	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	14.8	3.76	12587-46-1	PCI/G	Hh	3.43	4.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3(	0.0687	0.212	14952-40-0	PCI/G	HUh	0.432		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0316	0.140	14596-10-2	PCI/G	HUh	0.365	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3(	-0.0358	0.106	14234-35-6	PCI/G	HUh	0.199		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	19.0	2.60	12587-47-2	PCI/G	Hh	2.90	10.0	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3(	0.00	0.987	14913-49-6	PCI/G	HUIh	0.994		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3(	0.746	0.173	14733-03-0	PCI/G	Hh	0.107		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.112	0.731	14762-75-5	PCI/G	HUh	1.25	2.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3(	0.00	0.0625	10045-97-3	PCI/G	HUIh	0.0605	0.100	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3(	0.0286	0.0363	10198-40-0	PCI/G	HUh	0.089		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.443	OER-100-93	PCI/G	Hh	0.659	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0481	0.145		PCI/G	HUh	0.408	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.151	0.258		PCI/G	Hh	0.226	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3(	-0.0159	0.0894	15585-10-1	PCI/G	HUh	0.186		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.283	0.260	15046-84-1	PCI/G	HUh	0.787	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3(	0.775	0.121	15092-94-1	PCI/G	Hh	0.0929		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3(	1.02	0.192	15067-28-4	PCI/G	Hh	0.334		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147!	0.186	0.366	13994-20-2	PCI/G	Hh	0.507	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0511	0.0602	13981-16-3	PCI/G	Hh	0.0651	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24(	R	DOE EML HA	0.0373	0.0537	OER-100-70	PCI/G	Hh	0.0647	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-0.832	4.89	14119-32-5	PCI/G	HUh	8.44	15.0	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3(	12.3	1.61	13966-00-2	PCI/G	Hh	0.619		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3(	0.00	1.18	14331-85-2	PCI/G	HUIh	0.846		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3(	0.746	0.173	13982-63-3	PCI/G	Hh	0.107		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3(	0.861	0.261	15262-20-1	PCI/G	Hh	0.220		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M(	-0.325	0.832	10098-97-2	PCI/G	HUh	1.66	2.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.444	1.12	14133-76-7	PCI/G	HUh	1.95	5.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3(	0.217	0.0618	14913-50-9	PCI/G	Hh	0.0533		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	0.306	0.368	14274-82-9	PCI/G	Hh	0.515	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	-0.0128	0.111	15594-54-4	PCI/G	HUh	0.256	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.307	0.279	14269-63-7	PCI/G	Hh	0.256	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.425	0.313	7440-29-1	PCI/G	Hh	0.159	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3(	0.00	0.126		PCI/G	HUIh	0.155		1.00	16.6
5.2.B.R.4.2	405235071	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M(	-0.231	2.58	10028-17-8	PCI/G	HUh	4.50	6.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.00297	0.0446	14158-29-3	PCI/G	HUh	0.104	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.531	0.166	13968-55-3/1	PCI/G	Hh	0.0891	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0168	0.0527	15117-96-1/1	PCI/G	HUh	0.0987	1.00	1.00	16.6
5.2.B.R.4.2	405235071	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.693	0.187	7440-61-1	PCI/G	Hh	0.0703	1.00	1.00	16.6
5.2.B.R.2.4	405235072	GEL	1597817	1203625459	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	18.3	4.04	12587-46-1	PCI/G	Hh	3.01	4.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3(	0.0734	0.182	14952-40-0	PCI/G	HUh	0.333		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0148	0.222	14596-10-2	PCI/G	HUh	0.518	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3(	-0.00985	0.0726	14234-35-6	PCI/G	HUh	0.145		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1597817	1203625459	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	22.9	2.72	12587-47-2	PCI/G	Hh	2.74	10.0	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3(	0.00	0.603	14913-49-6	PCI/G	HUIh	1.05		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3(	0.986	0.149	14733-03-0	PCI/G	Hh	0.0982		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1598082	1203626113	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.384	0.652	14762-75-5	PCI/G	HUh	1.10	2.00	1.00	8.17

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0159	0.0264	10045-97-3	PCI/G	HUh	0.0564	0.100	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00332	0.0326	10198-40-0	PCI/G	HUh	0.0644		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.488	OER-100-93	PCI/G	Hh	0.726	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0718	0.166		PCI/G	HUh	0.493	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.170		PCI/G	Hh	0.253	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00365	0.0927	15585-10-1	PCI/G	HUh	0.187		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1598663	1203627531	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.00515	0.352	15046-84-1	PCI/G	HUh	0.761	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.929	0.102	15092-94-1	PCI/G	Hh	0.0758		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.10	0.150	15067-28-4	PCI/G	Hh	0.0958		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596420	1203621766	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0837	0.286	13994-20-2	PCI/G	HUh	0.530	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596421	1203621769	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0114	0.0426	13981-16-3	PCI/G	HUh	0.0717	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596421	1203621769	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.0113	0.0424	OER-100-70	PCI/G	HUh	0.0712	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596422	1203621772	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-0.293	5.63	14119-32-5	PCI/G	HUh	9.68	15.0	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	15.0	1.44	13966-00-2	PCI/G	Hh	0.374		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0695	0.409	14331-85-2	PCI/G	HUh	0.708		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.986	0.149	13982-63-3	PCI/G	Hh	0.0982		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.01	0.239	15262-20-1	PCI/G	Hh	0.206		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1597804	1203625412	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.264	0.826	10098-97-2	PCI/G	HUh	1.64	2.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1597417	1203624311	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0651	0.850	14133-76-7	PCI/G	HUh	1.53	5.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.297	0.0609	14913-50-9	PCI/G	Hh	0.0562		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.09	0.658	14274-82-9	PCI/G	Hh	0.646	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.127	0.218	15594-54-4	PCI/G	Hh	0.190	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.950	0.497	14269-63-7	PCI/G	Hh	0.190	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.679	0.431	7440-29-1	PCI/G	Hh	0.303	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0488		PCI/G	HUlh	0.0967		1.00	8.17
5.2.B.R.2.4	405235072	GEL	1598096	1203626152	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	0.772	1.90	10028-17-8	PCI/G	HUh	3.26	6.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0085	0.0472	14158-29-3	PCI/G	HUh	0.0905	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.939	0.244	13968-55-3/1	PCI/G	Hh	0.154	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.107	0.0905	15117-96-1/1	PCI/G	Hh	0.0999	1.00	1.00	8.17
5.2.B.R.2.4	405235072	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.711	0.208	7440-61-1	PCI/G	Hh	0.0996	1.00	1.00	8.17
5.2.B.R.8.2	405235073	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	27.6	5.03	12587-46-1	PCI/G	Hh	3.97	4.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0814	0.233	14952-40-0	PCI/G	HUh	0.409		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.147	0.251	14596-10-2	PCI/G	Hh	0.220	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0602	0.0947	14234-35-6	PCI/G	HUh	0.173		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	39.4	3.28	12587-47-2	PCI/G	Hh	2.74	10.0	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.513	14913-49-6	PCI/G	HUlh	1.15		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.849	0.157	14733-03-0	PCI/G	Hh	0.114		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.547	0.749	14762-75-5	PCI/G	HUh	1.26	2.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.121	0.0558	10045-97-3	PCI/G	Hh	0.0623	0.100	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.033	0.0397	10198-40-0	PCI/G	HUh	0.066		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.117	0.519	OER-100-93	PCI/G	HUh	1.35	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0536	0.162		PCI/G	HUh	0.454	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.169		PCI/G	Hh	0.252	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0381	0.115	15585-10-1	PCI/G	HUh	0.218		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.115	0.373	15046-84-1	PCI/G	HUh	0.827	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.779	0.155	15092-94-1	PCI/G	Hh	0.116		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.06	0.169	15067-28-4	PCI/G	Hh	0.328		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.111	0.378	13994-20-2	PCI/G	HUh	0.701	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.00657	0.0365	13981-16-3	PCI/G	HUh	0.070	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.0256	0.051	OER-100-70	PCI/G	Hh	0.0828	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-5.28	4.68	14119-32-5	PCI/G	HUh	8.26	15.0	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.7	1.45	13966-00-2	PCI/G	Hh	0.355		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.0449	0.388	14331-85-2	PCI/G	HUh	0.774		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.849	0.157	13982-63-3	PCI/G	Hh	0.114		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.334	15262-20-1	PCI/G	HUlh	0.520		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.27	0.886	10098-97-2	PCI/G	HUh	1.66	2.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.381	0.970	14133-76-7	PCI/G	HUh	1.78	5.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.303	0.0843	14913-50-9	PCI/G	Hh	0.0603		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.21	0.790	14274-82-9	PCI/G	Hh	0.731	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.00	0.170	15594-54-4	PCI/G	Hh	0.253	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.737	0.525	14269-63-7	PCI/G	Hh	0.404	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.671	0.495	7440-29-1	PCI/G	Hh	0.252	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.138		PCI/G	HUlh	0.123		1.00	18.9
5.2.B.R.8.2	405235073	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	1.17	2.14	10028-17-8	PCI/G	HUh	3.64	6.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0192	0.053	14158-29-3	PCI/G	HUh	0.0918	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.678	0.202	13968-55-3/1	PCI/G	Hh	0.104	1.00	1.00	18.9

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.2.B.R.8.2	405235073	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0487	0.0666	15117-96-1/1	PCI/G	Hh	0.0908	1.00	1.00	18.9
5.2.B.R.8.2	405235073	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.771	0.214	7440-61-1	PCI/G	Hh	0.0976	1.00	1.00	18.9
5.3.A.R.1.3	405235074	GEL	1597817	1203625459	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	15.1	3.78	12587-46-1	PCI/G	Hh	2.92	4.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.121	0.180	14952-40-0	PCI/G	HUh	0.343		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0336	0.148	14596-10-2	PCI/G	HUh	0.387	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0202	0.0825	14234-35-6	PCI/G	HUh	0.169		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1597817	1203625459	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	18.7	2.48	12587-47-2	PCI/G	Hh	2.72	10.0	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.651	14913-49-6	PCI/G	HUIh	1.10		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.863	0.198	14733-03-0	PCI/G	Hh	0.115		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1598082	1203626113	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.332	0.628	14762-75-5	PCI/G	HUh	1.06	2.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00388	0.0311	10045-97-3	PCI/G	HUh	0.061	0.100	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0162	0.0434	10198-40-0	PCI/G	HUh	0.0823		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.055	0.474	OER-100-93	PCI/G	HUh	1.10	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0539	0.202		PCI/G	HUh	0.340	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1599981	1203630763	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0799	0.225		PCI/G	Hh	0.240	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.044	0.099	15585-10-1	PCI/G	HUh	0.213		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1598663	1203627531	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0791	0.278	15046-84-1	PCI/G	HUh	0.532	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.992	0.123	15092-94-1	PCI/G	Hh	0.0771		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.15	0.193	15067-28-4	PCI/G	Hh	0.112		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596420	1203621766	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0753	0.404	13994-20-2	PCI/G	HUh	0.810	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596421	1203621769	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.00	0.050	13981-16-3	PCI/G	Hh	0.0744	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596421	1203621769	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.000986	0.0731	OER-100-70	PCI/G	HUh	0.162	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596422	1203621772	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-7.43	8.81	14119-32-5	PCI/G	HUh	15.4	15.0	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.9	1.39	13966-00-2	PCI/G	Hh	0.608		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.859	14331-85-2	PCI/G	HUIh	0.758		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.863	0.198	13982-63-3	PCI/G	Hh	0.115		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.568	0.335	15262-20-1	PCI/G	Hh	0.255		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1597804	1203625412	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	0.219	0.836	10098-97-2	PCI/G	HUh	1.52	2.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1597417	1203624311	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0722	0.825	14133-76-7	PCI/G	HUh	1.49	5.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.272	0.0705	14913-50-9	PCI/G	Hh	0.0556		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.10	0.681	14274-82-9	PCI/G	Hh	0.732	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	-0.0456	0.138	15594-54-4	PCI/G	HUh	0.387	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	1.04	0.528	14269-63-7	PCI/G	Hh	0.350	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596417	1203621757	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.411	0.353	7440-29-1	PCI/G	Hh	0.349	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596254	1203621364	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.035	0.127		PCI/G	HUh	0.125		1.00	10.7
5.3.A.R.1.3	405235074	GEL	1598096	1203626152	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	1.82	2.03	10028-17-8	PCI/G	Hh	3.40	6.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.00986	0.0298	14158-29-3	PCI/G	HUh	0.0836	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.639	0.202	13968-55-3/1	PCI/G	Hh	0.120	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.00434	0.0454	15117-96-1/1	PCI/G	HUh	0.0947	1.00	1.00	10.7
5.3.A.R.1.3	405235074	GEL	1596418	1203621760	SAMPLE	TARGET	12/15/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.967	0.245	7440-61-1	PCI/G	Hh	0.114	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1597817	1203625459	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	9.45	4.22	12587-46-1	PCI/G	Hh	3.42	4.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.088	0.189	14952-40-0	PCI/G	HUh	0.312		1.00	10.7
5.4A.R.1.3	405235075	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0986	0.227	14596-10-2	PCI/G	Hh	0.359	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00	0.0907	14234-35-6	PCI/G	HUh	0.150		1.00	10.7
5.4A.R.1.3	405235075	GEL	1597817	1203625459	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	18.1	3.82	12587-47-2	PCI/G	Hh	3.37	10.0	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.481	14913-49-6	PCI/G	HUh	0.968		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.00	0.154	14733-03-0	PCI/G	HUh	0.270		1.00	10.7
5.4A.R.1.3	405235075	GEL	1598082	1203626113	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.179	0.616	14762-75-5	PCI/G	HUh	1.06	2.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00254	0.0268	10045-97-3	PCI/G	HUh	0.0519	0.100	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00243	0.0319	10198-40-0	PCI/G	HUh	0.0547		1.00	10.7
5.4A.R.1.3	405235075	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0508	0.438	OER-100-93	PCI/G	HUh	1.02	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.0184	0.192		PCI/G	HUh	0.402	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1599981	1203630763	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.205	0.295		PCI/G	Hh	0.356	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0297	0.0833	15585-10-1	PCI/G	HUh	0.168		1.00	10.7
5.4A.R.1.3	405235075	GEL	1598663	1203627531	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.176	0.240	15046-84-1	PCI/G	HUh	0.576	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.745	0.0993	15092-94-1	PCI/G	Hh	0.0717		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.01	0.160	15067-28-4	PCI/G	Hh	0.101		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596420	1203621766	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0657	0.342	13994-20-2	PCI/G	HUh	0.797	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596421	1203621769	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	-0.00303	0.0455	13981-16-3	PCI/G	HUh	0.106	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596421	1203621769	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.0464	0.0515	OER-100-70	PCI/G	HUh	0.157	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596422	1203621772	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-2.47	5.69	14119-32-5	PCI/G	HUh	9.88	15.0	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.6	1.12	13966-00-2	PCI/G	Hh	0.404		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.650	14331-85-2	PCI/G	HUh	0.596		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.00	0.154	13982-63-3	PCI/G	HUh	0.270		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.253	15262-20-1	PCI/G	HUh	0.454		1.00	10.7
5.4A.R.1.3	405235075	GEL	1597804	1203625412	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	0.362	0.940	10098-97-2	PCI/G	HUh	1.69	2.00	1.00	10.7

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.4A.R.1.3	405235075	GEL	1597417	1203624311	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0553	0.840	14133-76-7	PCI/G	HUh	1.51	5.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.274	0.0698	14913-50-9	PCI/G	Hh	0.0428		1.00	10.7
5.4A.R.1.3	405235075	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.23	0.843	14274-82-9	PCI/G	Hh	0.877	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	-0.0432	0.191	15594-54-4	PCI/G	HUh	0.499	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.518	0.470	14269-63-7	PCI/G	Hh	0.431	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596417	1203621757	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.426	0.434	7440-29-1	PCI/G	Hh	0.430	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596254	1203621364	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.126		PCI/G	HUh	0.115		1.00	10.7
5.4A.R.1.3	405235075	GEL	1598096	1203626152	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	-0.0471	1.96	10028-17-8	PCI/G	HUh	3.42	6.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0274	0.0442	14158-29-3	PCI/G	HUh	0.141	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.590	0.206	13968-55-3/1	PCI/G	Hh	0.122	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.118	0.0978	15117-96-1/1	PCI/G	Hh	0.0839	1.00	1.00	10.7
5.4A.R.1.3	405235075	GEL	1596418	1203621760	SAMPLE	TARGET	12/16/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.607	0.206	7440-61-1	PCI/G	Hh	0.0837	1.00	1.00	10.7
5.4A.R.4.2	405235076	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	8.56	3.96	12587-46-1	PCI/G	Hh	3.55	4.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.157	0.200	14952-40-0	PCI/G	HUh	0.369		1.00	20.5
5.4A.R.4.2	405235076	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0335	0.148	14596-10-2	PCI/G	HUh	0.386	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0336	0.0908	14234-35-6	PCI/G	HUh	0.169		1.00	20.5
5.4A.R.4.2	405235076	GEL	1597817	1203625459	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	16.5	3.53	12587-47-2	PCI/G	Hh	3.04	10.0	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.702	14913-49-6	PCI/G	HUIh	1.08		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.867	0.167	14733-03-0	PCI/G	Hh	0.106		1.00	20.5
5.4A.R.4.2	405235076	GEL	1598082	1203626113	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	-0.000296	0.705	14762-75-5	PCI/G	HUh	1.21	2.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0553	10045-97-3	PCI/G	HUIh	0.0518	0.100	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0204	0.0296	10198-40-0	PCI/G	HUh	0.0693		1.00	20.5
5.4A.R.4.2	405235076	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.469	OER-100-93	PCI/G	Hh	0.698	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.034	0.150		PCI/G	HUh	0.392	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1599981	1203630763	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.160	0.273		PCI/G	Hh	0.239	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0324	0.109	15585-10-1	PCI/G	HUh	0.206		1.00	20.5
5.4A.R.4.2	405235076	GEL	1598663	1203627531	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.101	0.349	15046-84-1	PCI/G	HUh	0.554	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.807	0.107	15092-94-1	PCI/G	Hh	0.0865		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.163	15067-28-4	PCI/G	Hh	0.106		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596420	1203621766	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0735	0.248	13994-20-2	PCI/G	HUh	0.645	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0353	0.0448	13981-16-3	PCI/G	Hh	0.0556	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596421	1203621769	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	0.0104	0.0355	OER-100-70	PCI/G	HUh	0.0658	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596422	1203621772	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-1.12	4.00	14119-32-5	PCI/G	HUh	6.92	15.0	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.5	1.31	13966-00-2	PCI/G	Hh	0.509		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.535	14331-85-2	PCI/G	HUIh	0.609		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.867	0.167	13982-63-3	PCI/G	Hh	0.106		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.734	0.264	15262-20-1	PCI/G	Hh	0.199		1.00	20.5
5.4A.R.4.2	405235076	GEL	1597804	1203625412	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 M	0.629	0.706	10098-97-2	PCI/G	Hh	1.18	2.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1597417	1203624311	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.0528	1.01	14133-76-7	PCI/G	HUh	1.79	5.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.219	0.0714	14913-50-9	PCI/G	Hh	0.0497		1.00	20.5
5.4A.R.4.2	405235076	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.33	0.790	14274-82-9	PCI/G	Hh	0.756	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.0424	0.274	15594-54-4	PCI/G	HUh	0.561	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.856	0.564	14269-63-7	PCI/G	Hh	0.586	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596417	1203621757	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.905	0.534	7440-29-1	PCI/G	Hh	0.226	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596254	1203621364	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0254	0.111		PCI/G	HUh	0.112		1.00	20.5
5.4A.R.4.2	405235076	GEL	1598096	1203626152	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	3.03	2.39	10028-17-8	PCI/G	Hh	3.96	6.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.00935	0.0604	14158-29-3	PCI/G	HUh	0.124	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.837	0.207	13968-55-3/1	PCI/G	Hh	0.0848	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0196	0.0451	15117-96-1/1	PCI/G	Hh	0.0715	1.00	1.00	20.5
5.4A.R.4.2	405235076	GEL	1596418	1203621760	SAMPLE	TARGET	12/11/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.769	0.197	7440-61-1	PCI/G	Hh	0.0617	1.00	1.00	20.5
5.5A.R.1.3	405235077	GEL	1597817	1203625459	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	17.3	5.81	12587-46-1	PCI/G	Hh	3.91	4.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0556	0.190	14952-40-0	PCI/G	HUh	0.363		1.00	9.92
5.5A.R.1.3	405235077	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0178	0.153	14596-10-2	PCI/G	HUh	0.355	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00686	0.0746	14234-35-6	PCI/G	HUh	0.152		1.00	9.92
5.5A.R.1.3	405235077	GEL	1597817	1203625459	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	17.0	3.65	12587-47-2	PCI/G	Hh	2.90	10.0	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.820	14913-49-6	PCI/G	HUIh	1.03		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.869	0.160	14733-03-0	PCI/G	Hh	0.101		1.00	9.92
5.5A.R.1.3	405235077	GEL	1598082	1203626113	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.240	0.653	14762-75-5	PCI/G	HUh	1.11	2.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.00906	0.0273	10045-97-3	PCI/G	HUh	0.0515	0.100	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.016	0.031	10198-40-0	PCI/G	HUh	0.0533		1.00	9.92
5.5A.R.1.3	405235077	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.485	OER-100-93	PCI/G	Hh	0.722	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.036	0.159		PCI/G	HUh	0.416	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.593	0.471		PCI/G	HXh	0.254	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0737	0.0876	15585-10-1	PCI/G	HUh	0.139		1.00	9.92
5.5A.R.1.3	405235077	GEL	1598663	1203627531	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.0882	0.302	15046-84-1	PCI/G	HUh	0.663	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.859	0.112	15092-94-1	PCI/G	Hh	0.080		1.00	9.92

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.22	0.168	15067-28-4	PCI/G	Hh	0.296		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596420	1203621766	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	-0.0683	0.231	13994-20-2	PCI/G	HUh	0.599	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596421	1203621769	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0324	0.0555	13981-16-3	PCI/G	Hh	0.0486	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596421	1203621769	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	0.00516	0.0587	OER-100-70	PCI/G	HUh	0.125	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596422	1203621772	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-1.51	6.32	14119-32-5	PCI/G	HUh	10.9	15.0	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.0	1.25	13966-00-2	PCI/G	Hh	0.441		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.00486	0.389	14331-85-2	PCI/G	HUh	0.711		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.869	0.160	13982-63-3	PCI/G	Hh	0.101		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.15	0.240	15262-20-1	PCI/G	Hh	0.175		1.00	9.92
5.5A.R.1.3	405235077	GEL	1597804	1203625412	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.967	0.744	10098-97-2	PCI/G	HUh	1.66	2.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1597417	1203624311	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.153	0.883	14133-76-7	PCI/G	HUh	1.56	5.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.273	0.0575	14913-50-9	PCI/G	Hh	0.048		1.00	9.92
5.5A.R.1.3	405235077	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Thorium-228	R	DOE EML HA	1.69	0.836	14274-82-9	PCI/G	Hh	0.739	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Thorium-229	R	DOE EML HA	0.0358	0.199	15594-54-4	PCI/G	HUh	0.381	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Thorium-230	R	DOE EML HA	0.602	0.428	14269-63-7	PCI/G	Hh	0.329	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Thorium-232	R	DOE EML HA	0.721	0.468	7440-29-1	PCI/G	Hh	0.379	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.157		PCI/G	HUlh	0.119		1.00	9.92
5.5A.R.1.3	405235077	GEL	1598096	1203626152	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	0.818	1.94	10028-17-8	PCI/G	HUh	3.33	6.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.00832	0.0368	14158-29-3	PCI/G	HUh	0.096	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.688	0.173	13968-55-3/1	PCI/G	Hh	0.0801	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	-0.00521	0.0231	15117-96-1/1	PCI/G	HUh	0.0602	1.00	1.00	9.92
5.5A.R.1.3	405235077	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.677	0.170	7440-61-1	PCI/G	Hh	0.060	1.00	1.00	9.92
5.6A.R.1.3	405235078	GEL	1597817	1203625459	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	30.8	6.68	12587-46-1	PCI/G	Hh	3.94	4.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0194	0.162	14952-40-0	PCI/G	HUh	0.298		1.00	16.1
5.6A.R.1.3	405235078	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0272	0.151	14596-10-2	PCI/G	HUh	0.290	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0269	0.0729	14234-35-6	PCI/G	HUh	0.141		1.00	16.1
5.6A.R.1.3	405235078	GEL	1597817	1203625459	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	35.2	5.09	12587-47-2	PCI/G	Hh	4.66	10.0	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.768	14913-49-6	PCI/G	HUlh	0.978		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.634	0.148	14733-03-0	PCI/G	Hh	0.0849		1.00	16.1
5.6A.R.1.3	405235078	GEL	1598082	1203626113	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.277	0.699	14762-75-5	PCI/G	HUh	1.19	2.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.012	0.0204	10045-97-3	PCI/G	HUh	0.0458	0.100	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00665	0.0194	10198-40-0	PCI/G	HUh	0.0479		1.00	16.1
5.6A.R.1.3	405235078	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.343	OER-100-93	PCI/G	Hh	0.510	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.0509	0.118		PCI/G	HUh	0.349	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1599981	1203630763	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.121		PCI/G	Hh	0.179	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00848	0.0693	15585-10-1	PCI/G	HUh	0.145		1.00	16.1
5.6A.R.1.3	405235078	GEL	1598663	1203627531	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	-0.0983	0.302	15046-84-1	PCI/G	HUh	0.576	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.649	0.103	15092-94-1	PCI/G	Hh	0.074		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.805	0.157	15067-28-4	PCI/G	Hh	0.097		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596420	1203621766	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 147	0.0981	0.270	13994-20-2	PCI/G	HUh	0.468	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596421	1203621769	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0181	0.0567	13981-16-3	PCI/G	HUh	0.106	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596421	1203621769	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/24	R	DOE EML HA	-0.00599	0.0414	OER-100-70	PCI/G	HUh	0.101	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596422	1203621772	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-1.21	4.93	14119-32-5	PCI/G	HUh	8.50	15.0	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	9.82	1.23	13966-00-2	PCI/G	Hh	0.562		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0133	0.325	14331-85-2	PCI/G	HUh	0.602		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.634	0.148	13982-63-3	PCI/G	Hh	0.0849		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.618	0.175	15262-20-1	PCI/G	Hh	0.202		1.00	16.1
5.6A.R.1.3	405235078	GEL	1597804	1203625412	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/27/16	405235	Strontium-90	R	EPA 905.0 M	-0.473	0.668	10098-97-2	PCI/G	HUh	1.44	2.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1597417	1203624311	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.829	1.10	14133-76-7	PCI/G	HUh	1.86	5.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.214	0.067	14913-50-9	PCI/G	Hh	0.0438		1.00	16.1
5.6A.R.1.3	405235078	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.25	0.685	14274-82-9	PCI/G	Hh	0.615	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.0325	0.181	15594-54-4	PCI/G	HUh	0.346	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.359	0.326	14269-63-7	PCI/G	Hh	0.299	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596417	1203621757	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.855	0.474	7440-29-1	PCI/G	Hh	0.298	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596254	1203621364	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.151		PCI/G	HUlh	0.0835		1.00	16.1
5.6A.R.1.3	405235078	GEL	1598096	1203626152	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	1.10	2.20	10028-17-8	PCI/G	HUh	3.75	6.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0365	0.252	14158-29-3	PCI/G	HUh	0.614	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.624	0.197	13968-55-3/1	PCI/G	Hh	0.0946	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.00435	0.0455	15117-96-1/1	PCI/G	HUh	0.0949	1.00	1.00	16.1
5.6A.R.1.3	405235078	GEL	1596418	1203621760	SAMPLE	TARGET	12/17/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.566	0.190	7440-61-1	PCI/G	Hh	0.115	1.00	1.00	16.1
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.00211	0.166	14952-40-0	PCI/G	U	0.328		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0111	0.0665	14234-35-6	PCI/G	U	0.138		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	-0.012	0.304	14913-49-6	PCI/G	U	0.655		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.0133	0.0896	14733-03-0	PCI/G	U	0.126		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.028	0.0253	10045-97-3	PCI/G	U	0.067	0.100	1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0144	0.0349	10198-40-0	PCI/G	U	0.0668		1.00	0

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00702	0.0946	15585-10-1	PCI/G	U	0.201		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-212	R	DOE HASL 3	-0.0294	0.0457	15092-94-1	PCI/G	U	0.087		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.00584	0.0668	15067-28-4	PCI/G	U	0.146		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	-0.307	0.401	13966-00-2	PCI/G	U	0.824		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.0946	0.290	14331-85-2	PCI/G	U	0.600		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.0133	0.0896	13982-63-3	PCI/G	U	0.126		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.0959	0.141	15262-20-1	PCI/G	U	0.301		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.0174	0.0327	14913-50-9	PCI/G	U	0.0781		1.00	0
MB	120362135	GEL	1596247	1203621350	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Tin-126	R	DOE HASL 3	-0.00222	0.0316		PCI/G	U	0.0663		1.00	0
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0262	0.199	14952-40-0	PCI/G	HU	0.371		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00	0.164	14234-35-6	PCI/G	HUI	0.203		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	1.80	1.02	14913-49-6	PCI/G	H	0.735		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.864	0.147	14733-03-0	PCI/G	H	0.0985		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.441	0.122	10045-97-3	PCI/G	H	0.0693	0.100	1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00612	0.0347	10198-40-0	PCI/G	HU	0.0728		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0186	0.0993	15585-10-1	PCI/G	HU	0.193		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	1.19	0.123	15092-94-1	PCI/G	H	0.0801		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.186	15067-28-4	PCI/G	H	0.121		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	18.1	1.67	13966-00-2	PCI/G	H	0.531		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.134	0.449	14331-85-2	PCI/G	HU	0.781		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.864	0.147	13982-63-3	PCI/G	H	0.0985		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	1.24	0.285	15262-20-1	PCI/G	H	0.206		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.287	0.0816	14913-50-9	PCI/G	H	0.0679		1.00	19.4
4.1.B.R.1.2	120362135	GEL	1596247	1203621350	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0976		PCI/G	HUI	0.0742		1.00	19.4
LCS	120362135	GEL	1596247	1203621350	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Americium-241	R	DOE HASL 3	111	10.1	14596-10-2	%		5.63		1.00	0
LCS	120362135	GEL	1596247	1203621350	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	98.3	3.51	10045-97-3	%		1.04	0.100	1.00	0
LCS	120362135	GEL	1596247	1203621350	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	94.3	3.86	10198-40-0	%		0.818		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0024	0.109	14952-40-0	PCI/G	U	0.233		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0346	0.0376	14234-35-6	PCI/G	U	0.0924		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00283	0.222	14913-49-6	PCI/G	U	0.461		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.0218	0.043	14733-03-0	PCI/G	U	0.0922		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	-0.0156	0.020	10045-97-3	PCI/G	U	0.0337	0.100	1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00355	0.0145	10198-40-0	PCI/G	U	0.036		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.00923	0.039	15585-10-1	PCI/G	U	0.0837		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-212	R	DOE HASL 3	-0.0403	0.0274	15092-94-1	PCI/G	U	0.0474		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.020	0.0382	15067-28-4	PCI/G	U	0.0833		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	0.120	0.322	13966-00-2	PCI/G	U	0.442		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0281	0.180	14331-85-2	PCI/G	U	0.365		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.0218	0.043	13982-63-3	PCI/G	U	0.0922		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-228	R	DOE HASL 3	-0.043	0.066	15262-20-1	PCI/G	U	0.141		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.00107	0.0148	14913-50-9	PCI/G	U	0.0334		1.00	0
MB	120362135	GEL	1596249	1203621354	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00835	0.0266		PCI/G	U	0.0553		1.00	0
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0379	0.177	14952-40-0	PCI/G	HU	0.360		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0181	0.0746	14234-35-6	PCI/G	HU	0.151		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.873	14913-49-6	PCI/G	HUI	1.04		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.774	0.162	14733-03-0	PCI/G	H	0.0991		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0694	10045-97-3	PCI/G	HUI	0.0526	0.100	1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.00345	0.0252	10198-40-0	PCI/G	HU	0.053		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.0338	0.0842	15585-10-1	PCI/G	HU	0.164		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.876	0.135	15092-94-1	PCI/G	H	0.0808		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.07	0.167	15067-28-4	PCI/G	H	0.0904		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	12.0	1.20	13966-00-2	PCI/G	H	0.432		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.581	14331-85-2	PCI/G	HUI	0.599		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.774	0.162	13982-63-3	PCI/G	H	0.0991		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.779	0.284	15262-20-1	PCI/G	H	0.184		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.308	0.0765	14913-50-9	PCI/G	H	0.0444		1.00	16.3
4.4C.R.1.3	120362135	GEL	1596249	1203621354	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0281	0.113		PCI/G	HU	0.102		1.00	16.3
LCS	120362135	GEL	1596249	1203621354	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Americium-241	R	DOE HASL 3	112	12.2	14596-10-2	%		5.83		1.00	0
LCS	120362135	GEL	1596249	1203621354	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	97.8	3.45	10045-97-3	%		1.09	0.100	1.00	0
LCS	120362135	GEL	1596249	1203621354	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	94.4	3.77	10198-40-0	%		0.758		1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.028	0.0998	14952-40-0	PCI/G	U	0.206		1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0423	0.037	14234-35-6	PCI/G	U	0.0612		1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.0179	0.238	14913-49-6	PCI/G	U	0.486		1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.011	0.0391	14733-03-0	PCI/G	U	0.0826		1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00281	0.0144	10045-97-3	PCI/G	U	0.0316	0.100	1.00	0
MB	120362136	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	0.0143	0.0147	10198-40-0	PCI/G	U	0.0409		1.00	0

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00394	0.0315	15585-10-1	PCI/G	U	0.0793		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.00468	0.0237	15092-94-1	PCI/G	U	0.0515		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-214	R	DOE HASL 3	-0.00503	0.035	15067-28-4	PCI/G	U	0.0732		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	-0.109	0.171	13966-00-2	PCI/G	U	0.350		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.0246	0.174	14331-85-2	PCI/G	U	0.349		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.011	0.0391	13982-63-3	PCI/G	U	0.0826		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00265	0.0623	15262-20-1	PCI/G	U	0.139		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.011	0.0203	14913-50-9	PCI/G	U	0.0416		1.00	0
MB	1203621361	GEL	1596252	1203621361	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.0098	0.0201		PCI/G	U	0.0423		1.00	0
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.0461	0.164	14952-40-0	PCI/G	HU	0.319		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.00169	0.0712	14234-35-6	PCI/G	HU	0.146		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.892	14913-49-6	PCI/G	HUI	0.904		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	0.654	0.138	14733-03-0	PCI/G	H	0.0984		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.0546	0.0611	10045-97-3	PCI/G	HUI	0.0479	0.100	1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00701	0.0329	10198-40-0	PCI/G	HU	0.0603		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0325	0.0702	15585-10-1	PCI/G	HU	0.124		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.736	0.102	15092-94-1	PCI/G	H	0.0743		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	0.934	0.157	15067-28-4	PCI/G	H	0.0867		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	13.4	1.28	13966-00-2	PCI/G	H	0.507		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.182	0.342	14331-85-2	PCI/G	HU	0.596		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	0.654	0.138	13982-63-3	PCI/G	H	0.0984		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.529	0.228	15262-20-1	PCI/G	H	0.206		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.230	0.0708	14913-50-9	PCI/G	H	0.0523		1.00	12
4.4D.R.1.4	1203621362	GEL	1596252	1203621361	DUP	TARGET	11/30/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.102		PCI/G	HUI	0.0909		1.00	12
LCS	1203621363	GEL	1596252	1203621361	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Americium-241	R	DOE HASL 3	111	7.77	14596-10-2	%		4.13		1.00	0
LCS	1203621363	GEL	1596252	1203621361	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	105	3.32	10045-97-3	%		1.02	0.100	1.00	0
LCS	1203621363	GEL	1596252	1203621361	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	97.2	3.49	10198-40-0	%		0.722		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	0.109	0.136	14952-40-0	PCI/G	U	0.305		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	-0.0541	0.0598	14234-35-6	PCI/G	U	0.102		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	-0.00482	0.343	14913-49-6	PCI/G	U	0.709		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	-0.014	0.060	14733-03-0	PCI/G	U	0.116		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.00	0.0248	10045-97-3	PCI/G	UI	0.045	0.100	1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.00794	0.0197	10198-40-0	PCI/G	U	0.0374		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Europium-154	R	DOE HASL 3	-0.0127	0.0476	15585-10-1	PCI/G	U	0.0982		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.0243	0.0666	15092-94-1	PCI/G	U	0.0713		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Lead-214	R	DOE HASL 3	-0.0308	0.0485	15067-28-4	PCI/G	U	0.0908		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	0.0557	0.284	13966-00-2	PCI/G	U	0.596		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	-0.142	0.262	14331-85-2	PCI/G	U	0.496		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-226	R	DOE HASL 3	-0.014	0.060	13982-63-3	PCI/G	U	0.116		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.00	0.109	15262-20-1	PCI/G	UI	0.252		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.00626	0.0281	14913-50-9	PCI/G	U	0.0579		1.00	0
MB	1203621364	GEL	1596254	1203621364	MB	TARGET	10/03/16	10/03/16	10/03/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.000999	0.0457		PCI/G	U	0.0745		1.00	0
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Actinium-227	R	DOE HASL 3	-0.0297	0.227	14952-40-0	PCI/G	HU	0.430		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Antimony-125	R	DOE HASL 3	0.0819	0.107	14234-35-6	PCI/G	HU	0.220		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-212	R	DOE HASL 3	0.00	0.911	14913-49-6	PCI/G	HUI	1.38		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Bismuth-214	R	DOE HASL 3	1.18	0.181	14733-03-0	PCI/G	H	0.102		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	0.161	0.0673	10045-97-3	PCI/G	H	0.0669	0.100	1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	-0.0228	0.0348	10198-40-0	PCI/G	HU	0.0591		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Europium-154	R	DOE HASL 3	0.00	0.117	15585-10-1	PCI/G	HUI	0.258		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-212	R	DOE HASL 3	0.931	0.126	15092-94-1	PCI/G	H	0.102		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Lead-214	R	DOE HASL 3	1.34	0.206	15067-28-4	PCI/G	H	0.353		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Potassium-40	R	DOE HASL 3	11.9	1.40	13966-00-2	PCI/G	H	0.525		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Protactinium-231	R	DOE HASL 3	0.00	0.780	14331-85-2	PCI/G	HUI	0.864		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-226	R	DOE HASL 3	1.18	0.181	13982-63-3	PCI/G	H	0.102		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Radium-228	R	DOE HASL 3	0.741	0.368	15262-20-1	PCI/G	H	0.240		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Thallium-208	R	DOE HASL 3	0.231	0.0777	14913-50-9	PCI/G	H	0.0647		1.00	17.6
5.1B.R.2.2	1203621365	GEL	1596254	1203621364	DUP	TARGET	12/14/15	09/06/16	09/08/16	10/03/16	405235	Tin-126	R	DOE HASL 3	0.00	0.0789		PCI/G	HUI	0.165		1.00	17.6
LCS	1203621366	GEL	1596254	1203621364	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Americium-241	R	DOE HASL 3	115	9.26	14596-10-2	%		4.23		1.00	0
LCS	1203621366	GEL	1596254	1203621364	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cesium-137	R	DOE HASL 3	108	3.39	10045-97-3	%		0.950	0.100	1.00	0
LCS	1203621366	GEL	1596254	1203621364	LCS	SPIKE	10/03/16	10/03/16	10/03/16	10/03/16	405235	Cobalt-60	R	DOE HASL 3	98.8	3.46	10198-40-0	%		0.639		1.00	0
MB	1203621685	GEL	1596388	1203621688	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Thorium-228	R	DOE EML HA	0.0793	0.155	14274-82-9	PCI/G	U	0.267	1.00	1.00	0
MB	1203621685	GEL	1596388	1203621688	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.0689	0.115	15594-54-4	PCI/G		0.162	1.00	1.00	0
MB	1203621685	GEL	1596388	1203621688	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Thorium-230	R	DOE EML HA	-0.0139	0.0663	14269-63-7	PCI/G	U	0.162	1.00	1.00	0
MB	1203621685	GEL	1596388	1203621688	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.0411	0.101	7440-29-1	PCI/G		0.161	1.00	1.00	0
4.1.B.R.1.2	1203621685	GEL	1596388	1203621688	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.16	0.588	14274-82-9	PCI/G	H	0.721	1.00	1.00	19.4
4.1.B.R.1.2	1203621685	GEL	1596388	1203621688	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.142	0.309	15594-54-4	PCI/G	HU	0.551	1.00	1.00	19.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.1.B.R.1.2	120362168	GEL	1596388	1203621688	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.740	0.427	14269-63-7	PCI/G	H	0.562	1.00	1.00	19.4
4.1.B.R.1.2	120362168	GEL	1596388	1203621688	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.484	0.402	7440-29-1	PCI/G	H	0.606	1.00	1.00	19.4
LCS	120362169	GEL	1596388	1203621688	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	Thorium-230	R	DOE EML HA	107	1.74	14269-63-7	%		0.304	1.00	1.00	0
MB	120362169	GEL	1596389	1203621691	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0183	0.0815	14158-29-3	PCI/G	U	0.178	1.00	1.00	0
MB	120362169	GEL	1596389	1203621691	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	-0.00641	0.0598	13968-55-3/1	PCI/G	U	0.139	1.00	1.00	0
MB	120362169	GEL	1596389	1203621691	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.00514	0.0586	15117-96-1/1	PCI/G	U	0.124	1.00	1.00	0
MB	120362169	GEL	1596389	1203621691	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.0211	0.0663	7440-61-1	PCI/G	U	0.124	1.00	1.00	0
4.1.B.R.1.2	120362169	GEL	1596389	1203621691	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.0295	0.0476	14158-29-3	PCI/G	HU	0.152	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596389	1203621691	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.58	0.338	13968-55-3/1	PCI/G	H	0.112	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596389	1203621691	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.092	0.0888	15117-96-1/1	PCI/G	H	0.0552	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596389	1203621691	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.08	0.279	7440-61-1	PCI/G	H	0.055	1.00	1.00	19.4
LCS	120362169	GEL	1596389	1203621691	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-238	R	DOE EML HA	118	0.698	7440-61-1	%		0.0604	1.00	1.00	0
MB	120362169	GEL	1596390	1203621694	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.00305	0.0319	14596-10-2	PCI/G	U	0.0666	1.00	1.00	0
MB	120362169	GEL	1596390	1203621694	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.00262	0.0226	OER-100-93	PCI/G	U	0.0524	1.00	1.00	0
MB	120362169	GEL	1596390	1203621694	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0103	0.0239		PCI/G	U	0.0709	1.00	1.00	0
MB	120362169	GEL	1596390	1203621694	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	-0.003	0.0258		PCI/G	U	0.0599	1.00	1.00	0
4.1.B.R.1.2	120362169	GEL	1596390	1203621694	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0228	0.0688	14596-10-2	PCI/G	HU	0.193	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596390	1203621694	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.220	OER-100-93	PCI/G	H	0.328	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596390	1203621694	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	-0.0077	0.0664		PCI/G	HU	0.154	1.00	1.00	19.4
4.1.B.R.1.2	120362169	GEL	1596390	1203621694	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0729		PCI/G	H	0.108	1.00	1.00	19.4
LCS	120362169	GEL	1596390	1203621694	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Americium-241	R	DOE EML HA	94.2	0.592	14596-10-2	%		0.224	1.00	1.00	0
LCS	120362169	GEL	1596390	1203621694	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	104	0.700		%		0.115	1.00	1.00	0
MB	120362169	GEL	1596392	1203621697	MB	TARGET	09/30/16	09/30/16	09/30/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	-0.0165	0.142	13994-20-2	PCI/G	U	0.329	1.00	1.00	0
4.1.B.R.1.2	120362169	GEL	1596392	1203621697	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	0.00	0.358	13994-20-2	PCI/G	H	0.533	1.00	1.00	19.4
LCS	120362169	GEL	1596392	1203621697	LCS	SPIKE	09/30/16	09/30/16	09/30/16	09/30/16	405235	Neptunium-237	R	ASTM C 147	103	3.94	13994-20-2	%		0.704	1.00	1.00	0
MB	120362170	GEL	1596393	1203621700	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	-0.0183	0.0347	13981-16-3	PCI/G	U	0.107	1.00	1.00	0
MB	120362170	GEL	1596393	1203621700	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Plutonium-239/240	R	DOE EML HA	0.0586	0.0823	OER-100-70	PCI/G		0.128	1.00	1.00	0
4.1.B.R.1.2	120362170	GEL	1596393	1203621700	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-238	R	DOE EML HA	0.0338	0.093	13981-16-3	PCI/G	HU	0.161	1.00	1.00	19.4
4.1.B.R.1.2	120362170	GEL	1596393	1203621700	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-239/240	R	DOE EML HA	0.0483	0.121	OER-100-70	PCI/G	HU	0.220	1.00	1.00	19.4
LCS	120362170	GEL	1596393	1203621700	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Plutonium-239/240	R	DOE EML HA	111	0.653	OER-100-70	%		0.0766	1.00	1.00	0
MB	120362170	GEL	1596394	1203621703	MB	TARGET	10/01/16	10/01/16	10/01/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	-1.94	6.44	14119-32-5	PCI/G	U	11.2	15.0	1.00	0
4.1.B.R.1.2	120362170	GEL	1596394	1203621703	DUP	TARGET	12/10/15	09/06/16	09/08/16	10/03/16	405235	Plutonium-241	R	DOE EML HA	-4.08	7.44	14119-32-5	PCI/G	HU	12.9	15.0	1.00	19.4
LCS	120362170	GEL	1596394	1203621703	LCS	SPIKE	10/01/16	10/01/16	10/01/16	10/01/16	405235	Plutonium-241	R	DOE EML HA	103	14.7	14119-32-5	%		18.6	15.0	1.00	0
MB	120362170	GEL	1596395	1203621706	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Thorium-228	R	DOE EML HA	-0.0414	0.145	14274-82-9	PCI/G	U	0.377	1.00	1.00	0
MB	120362170	GEL	1596395	1203621706	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Thorium-229	R	DOE EML HA	0.0617	0.170	15594-54-4	PCI/G	U	0.295	1.00	1.00	0
MB	120362170	GEL	1596395	1203621706	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Thorium-230	R	DOE EML HA	-0.0212	0.146	14269-63-7	PCI/G	U	0.356	1.00	1.00	0
MB	120362170	GEL	1596395	1203621706	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Thorium-232	R	DOE EML HA	-0.0115	0.0993	7440-29-1	PCI/G	U	0.230	1.00	1.00	0
4.2B.R.2.3	120362170	GEL	1596395	1203621706	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-228	R	DOE EML HA	1.10	0.529	14274-82-9	PCI/G	H	0.577	1.00	1.00	16.5
4.2B.R.2.3	120362170	GEL	1596395	1203621706	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-229	R	DOE EML HA	0.107	0.190	15594-54-4	PCI/G	H	0.315	1.00	1.00	16.5
4.2B.R.2.3	120362170	GEL	1596395	1203621706	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-230	R	DOE EML HA	0.682	0.329	14269-63-7	PCI/G	H	0.254	1.00	1.00	16.5
4.2B.R.2.3	120362170	GEL	1596395	1203621706	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Thorium-232	R	DOE EML HA	0.448	0.267	7440-29-1	PCI/G	H	0.210	1.00	1.00	16.5
LCS	120362170	GEL	1596395	1203621706	LCS	SPIKE	09/24/16	09/24/16	09/24/16	09/24/16	405235	Thorium-230	R	DOE EML HA	112	2.79	14269-63-7	%		1.08	1.00	1.00	0
MB	120362170	GEL	1596396	1203621709	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Uranium-232	R	DOE EML HA	0.0297	0.059	14158-29-3	PCI/G		0.0958	1.00	1.00	0
MB	120362170	GEL	1596396	1203621709	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Uranium-233/234	R	DOE EML HA	-0.0113	0.0342	13968-55-3/1	PCI/G	U	0.0962	1.00	1.00	0
MB	120362170	GEL	1596396	1203621709	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Uranium-235/236	R	DOE EML HA	0.00821	0.0456	15117-96-1/1	PCI/G	U	0.0875	1.00	1.00	0
MB	120362170	GEL	1596396	1203621709	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Uranium-238	R	DOE EML HA	0.0239	0.055	7440-61-1	PCI/G		0.0872	1.00	1.00	0
4.2B.R.2.3	120362171	GEL	1596396	1203621709	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-232	R	DOE EML HA	-0.00399	0.0344	14158-29-3	PCI/G	HU	0.0796	1.00	1.00	16.5
4.2B.R.2.3	120362171	GEL	1596396	1203621709	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-233/234	R	DOE EML HA	0.520	0.198	13968-55-3/1	PCI/G	H	0.112	1.00	1.00	16.5
4.2B.R.2.3	120362171	GEL	1596396	1203621709	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-235/236	R	DOE EML HA	0.0509	0.0733	15117-96-1/1	PCI/G	H	0.0884	1.00	1.00	16.5
4.2B.R.2.3	120362171	GEL	1596396	1203621709	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Uranium-238	R	DOE EML HA	1.00	0.270	7440-61-1	PCI/G	H	0.102	1.00	1.00	16.5
LCS	120362171	GEL	1596396	1203621709	LCS	SPIKE	09/24/16	09/24/16	09/24/16	09/24/16	405235	Uranium-238	R	DOE EML HA	96.9	0.535	7440-61-1	%		0.0814	1.00	1.00	0
MB	120362171	GEL	1596399	1203621715	MB	TARGET	09/26/16	09/26/16	09/26/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	-0.0347	0.289	13994-20-2	PCI/G	U	0.680	1.00	1.00	0
4.2B.R.2.3	120362171	GEL	1596399	1203621715	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Neptunium-237	R	ASTM C 147	0.0446	0.467	13994-20-2	PCI/G	HU	0.974	1.00	1.00	16.5
LCS	120362171	GEL	1596399	1203621715	LCS	SPIKE	09/26/16	09/26/16	09/26/16	09/26/16	405235	Neptunium-237	R	ASTM C 147	108	4.43	13994-20-2	%		0.626	1.00	1.00	0
MB	120362171	GEL	1596400	1203621718	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	-0.0483	0.0801	13981-16-3	PCI/G	U	0.207	1.00	1.00	0
MB	120362171	GEL	1596400	1203621718	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	0.0441	0.0701	OER-100-70	PCI/G		0.097	1.00	1.00	0
4.2B.R.2.3	120362171	GEL	1596400	1203621718	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-238	R	DOE EML HA	0.0047	0.0491	13981-16-3	PCI/G	HU	0.103	1.00	1.00	16.5
4.2B.R.2.3	120362171	GEL	1596400	1203621718	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	0.026	0.0686	OER-100-70	PCI/G	HU	0.123	1.00	1.00	16.5
LCS	120362172	GEL	1596400	1203621718	LCS	SPIKE	09/24/16	09/24/16	09/24/16	09/24/16	405235	Plutonium-239/240	R	DOE EML HA	95.5	0.463	OER-100-70	%		0.112	1.00	1.00	0
MB	120362172	GEL	1596402	1203621725	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	-5.12	5.93	14119-32-5	PCI/G	U	10.6	15.0	1.00	0
4.2B.R.2.3	120362172	GEL	1596402	1203621725	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Plutonium-241	R	DOE EML HA	3.29	5.23	14119-32-5	PCI/G	HU	8.87	15.0	1.00	16.5
LCS	120362172	GEL	1596402	1203621725	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	Plutonium-241	R	DOE EML HA	99.4	9.96	14119-32-5	%		10.8	15.0	1.00	0
MB	120362173	GEL	1596407	1203621736	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Thorium-228	R	DOE EML HA	0.303	0.350	14274-82-9	PCI/G		0.477	1.00	1.00	0
MB	120362173	GEL	1596407	1203621736	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.0371	0.239	15594-54-4	PCI/G	U	0.490	1.00	1.00	0
MB	120362173	GEL	1596407	1203621736	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.100	0.231	14269-63-7	PCI/G		0.366	1.00	1.00	0
MB	120362173	GEL	1596407	1203621736	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Thorium-232	R	DOE EML HA	-0.0158	0.136	7440-29-1	PCI/G	U	0.316	1.00	1.00	0

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.1.4	1203621737	GEL	1596407	1203621736	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-228	R	DOE EML HA	1.21	0.702	14274-82-9	PCI/G	H	0.682	1.00	1.00	12
4.4D.R.1.4	1203621737	GEL	1596407	1203621736	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-229	R	DOE EML HA	0.0642	0.180	15594-54-4	PCI/G	H	0.192	1.00	1.00	12
4.4D.R.1.4	1203621737	GEL	1596407	1203621736	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-230	R	DOE EML HA	0.225	0.285	14269-63-7	PCI/G	H	0.354	1.00	1.00	12
4.4D.R.1.4	1203621737	GEL	1596407	1203621736	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Thorium-232	R	DOE EML HA	0.863	0.487	7440-29-1	PCI/G	H	0.353	1.00	1.00	12
LCS	1203621738	GEL	1596407	1203621736	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Thorium-230	R	DOE EML HA	101	2.50	14269-63-7	%		0.640	1.00	1.00	0
MB	1203621739	GEL	1596408	1203621739	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Uranium-232	R	DOE EML HA	0.0439	0.139	14158-29-3	PCI/G	U	0.254	1.00	1.00	0
MB	1203621739	GEL	1596408	1203621739	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.072	0.104	13968-55-3/1	PCI/G		0.128	1.00	1.00	0
MB	1203621739	GEL	1596408	1203621739	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0722	0.105	15117-96-1/1	PCI/G		0.129	1.00	1.00	0
MB	1203621739	GEL	1596408	1203621739	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.0757	0.104	7440-61-1	PCI/G		0.114	1.00	1.00	0
4.4D.R.1.4	1203621740	GEL	1596408	1203621739	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-232	R	DOE EML HA	-0.0419	0.0482	14158-29-3	PCI/G	HU	0.170	1.00	1.00	12
4.4D.R.1.4	1203621740	GEL	1596408	1203621739	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-233/234	R	DOE EML HA	0.572	0.181	13968-55-3/1	PCI/G	H	0.0867	1.00	1.00	12
4.4D.R.1.4	1203621740	GEL	1596408	1203621739	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-235/236	R	DOE EML HA	0.0433	0.0641	15117-96-1/1	PCI/G	H	0.0938	1.00	1.00	12
4.4D.R.1.4	1203621740	GEL	1596408	1203621739	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Uranium-238	R	DOE EML HA	0.781	0.210	7440-61-1	PCI/G	H	0.0935	1.00	1.00	12
LCS	1203621741	GEL	1596408	1203621739	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Uranium-238	R	DOE EML HA	103	0.497	7440-61-1	%		0.0661	1.00	1.00	0
MB	1203621745	GEL	1596410	1203621745	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.00652	0.049	14596-10-2	PCI/G	U	0.099	1.00	1.00	0
MB	1203621745	GEL	1596410	1203621745	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.0338	OER-100-93	PCI/G		0.0507	1.00	1.00	0
MB	1203621745	GEL	1596410	1203621745	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.00	0.0335		PCI/G		0.0502	1.00	1.00	0
MB	1203621745	GEL	1596410	1203621745	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	-0.00398	0.0396		PCI/G	U	0.090	1.00	1.00	0
4.4D.R.1.4	1203621746	GEL	1596410	1203621745	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.00367	0.0608	14596-10-2	PCI/G	HU	0.129	1.00	1.00	12
4.4D.R.1.4	1203621746	GEL	1596410	1203621745	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	-0.0128	0.212	OER-100-93	PCI/G	HU	0.449	1.00	1.00	12
4.4D.R.1.4	1203621746	GEL	1596410	1203621745	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.00745	0.0622		PCI/G	HU	0.146	1.00	1.00	12
4.4D.R.1.4	1203621746	GEL	1596410	1203621745	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	-0.0042	0.0695		PCI/G	HU	0.147	1.00	1.00	12
LCS	1203621747	GEL	1596410	1203621745	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Americium-241	R	DOE EML HA	105	0.497	14596-10-2	%		0.114	1.00	1.00	0
LCS	1203621747	GEL	1596410	1203621745	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	106	0.569		%		0.0735	1.00	1.00	0
MB	1203621748	GEL	1596411	1203621748	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	0.229	0.444	13994-20-2	PCI/G		0.611	1.00	1.00	0
4.4D.R.1.4	1203621749	GEL	1596411	1203621748	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	0.147	0.542	13994-20-2	PCI/G	HU	0.911	1.00	1.00	12
LCS	1203621750	GEL	1596411	1203621748	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	116	4.57	13994-20-2	%		0.760	1.00	1.00	0
MB	1203621751	GEL	1596412	1203621751	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	0.0086	0.057	13981-16-3	PCI/G	U	0.114	1.00	1.00	0
MB	1203621751	GEL	1596412	1203621751	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	-0.00573	0.0405	OER-100-70	PCI/G	U	0.0979	1.00	1.00	0
4.4D.R.1.4	1203621752	GEL	1596412	1203621751	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-238	R	DOE EML HA	-0.00713	0.0497	13981-16-3	PCI/G	HU	0.121	1.00	1.00	12
4.4D.R.1.4	1203621752	GEL	1596412	1203621751	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	-0.00354	0.0489	OER-100-70	PCI/G	HU	0.106	1.00	1.00	12
LCS	1203621753	GEL	1596412	1203621751	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Plutonium-239/240	R	DOE EML HA	113	0.673	OER-100-70	%		0.168	1.00	1.00	0
MB	1203621754	GEL	1596414	1203621754	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	2.09	6.03	14119-32-5	PCI/G	U	10.3	15.0	1.00	0
4.4D.R.1.4	1203621755	GEL	1596414	1203621754	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	-4.08	7.14	14119-32-5	PCI/G	HU	12.5	15.0	1.00	12
LCS	1203621756	GEL	1596414	1203621754	LCS	SPIKE	09/24/16	09/24/16	09/24/16	09/24/16	405235	Plutonium-241	R	DOE EML HA	116	12.2	14119-32-5	%		14.1	15.0	1.00	0
MB	1203621757	GEL	1596417	1203621757	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Thorium-228	R	DOE EML HA	0.0778	0.263	14274-82-9	PCI/G	U	0.498	1.00	1.00	0
MB	1203621757	GEL	1596417	1203621757	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Thorium-229	R	DOE EML HA	0.0999	0.230	15594-54-4	PCI/G		0.364	1.00	1.00	0
MB	1203621757	GEL	1596417	1203621757	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Thorium-230	R	DOE EML HA	-0.0157	0.136	14269-63-7	PCI/G	U	0.315	1.00	1.00	0
MB	1203621757	GEL	1596417	1203621757	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Thorium-232	R	DOE EML HA	-0.0157	0.135	7440-29-1	PCI/G	U	0.314	1.00	1.00	0
5.1B.R.2.2	1203621758	GEL	1596417	1203621757	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-228	R	DOE EML HA	1.40	0.764	14274-82-9	PCI/G	H	0.622	1.00	1.00	17.6
5.1B.R.2.2	1203621758	GEL	1596417	1203621757	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-229	R	DOE EML HA	0.198	0.285	15594-54-4	PCI/G	H	0.344	1.00	1.00	17.6
5.1B.R.2.2	1203621758	GEL	1596417	1203621757	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-230	R	DOE EML HA	0.323	0.348	14269-63-7	PCI/G	H	0.396	1.00	1.00	17.6
5.1B.R.2.2	1203621758	GEL	1596417	1203621757	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/19/16	405235	Thorium-232	R	DOE EML HA	0.625	0.445	7440-29-1	PCI/G	H	0.342	1.00	1.00	17.6
LCS	1203621759	GEL	1596417	1203621757	LCS	SPIKE	09/20/16	09/20/16	09/20/16	09/20/16	405235	Thorium-230	R	DOE EML HA	103	2.20	14269-63-7	%		0.327	1.00	1.00	0
MB	1203621760	GEL	1596418	1203621760	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Uranium-232	R	DOE EML HA	-0.0885	0.0663	14158-29-3	PCI/G	U	0.192	1.00	1.00	0
MB	1203621760	GEL	1596418	1203621760	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	-0.0104	0.0353	13968-55-3/1	PCI/G	U	0.0917	1.00	1.00	0
MB	1203621760	GEL	1596418	1203621760	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	-0.00546	0.0242	15117-96-1/1	PCI/G	U	0.063	1.00	1.00	0
MB	1203621760	GEL	1596418	1203621760	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Uranium-238	R	DOE EML HA	-0.0136	0.0258	7440-61-1	PCI/G	U	0.0796	1.00	1.00	0
5.1B.R.2.2	1203621761	GEL	1596418	1203621760	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-232	R	DOE EML HA	0.0725	0.0881	14158-29-3	PCI/G	H	0.118	1.00	1.00	17.6
5.1B.R.2.2	1203621761	GEL	1596418	1203621760	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-233/234	R	DOE EML HA	0.630	0.215	13968-55-3/1	PCI/G	H	0.149	1.00	1.00	17.6
5.1B.R.2.2	1203621761	GEL	1596418	1203621760	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-235/236	R	DOE EML HA	0.0352	0.070	15117-96-1/1	PCI/G	H	0.114	1.00	1.00	17.6
5.1B.R.2.2	1203621761	GEL	1596418	1203621760	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Uranium-238	R	DOE EML HA	0.676	0.216	7440-61-1	PCI/G	H	0.105	1.00	1.00	17.6
LCS	1203621762	GEL	1596418	1203621760	LCS	SPIKE	09/17/16	09/17/16	09/17/16	09/17/16	405235	Uranium-238	R	DOE EML HA	108	0.577	7440-61-1	%		0.0852	1.00	1.00	0
MB	1203621766	GEL	1596420	1203621766	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	0.183	0.625	13994-20-2	PCI/G	U	1.16	1.00	1.00	0
5.1B.R.2.2	1203621767	GEL	1596420	1203621766	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	-0.0527	0.233	13994-20-2	PCI/G	HU	0.608	1.00	1.00	17.6
LCS	1203621768	GEL	1596420	1203621766	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Neptunium-237	R	ASTM C 1475	112	3.76	13994-20-2	%		1.09	1.00	1.00	0
MB	1203621769	GEL	1596421	1203621769	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0566	0.0689	13981-16-3	PCI/G		0.0923	1.00	1.00	0
MB	1203621769	GEL	1596421	1203621769	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	0.00056	0.0415	OER-100-70	PCI/G	U	0.0923	1.00	1.00	0
5.1B.R.2.2	1203621770	GEL	1596421	1203621769	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-238	R	DOE EML HA	0.0228	0.0447	13981-16-3	PCI/G	H	0.062	1.00	1.00	17.6
5.1B.R.2.2	1203621770	GEL	1596421	1203621769	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	-0.0185	0.0298	OER-100-70	PCI/G	HU	0.095	1.00	1.00	17.6
LCS	1203621771	GEL	1596421	1203621769	LCS	SPIKE	09/17/16	09/17/16	09/17/16	09/17/16	405235	Plutonium-239/240	R	DOE EML HA	105	0.602	OER-100-70	%		0.0704	1.00	1.00	0
MB	1203621772	GEL	1596422	1203621772	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-2.3	4.71	14119-32-5	PCI/G	U	8.18	15.0	1.00	0
5.1B.R.2.2	1203621773	GEL	1596422	1203621772	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	-1.42	4.49	14119-32-5	PCI/G	HU	7.77	15.0	1.00	17.6
LCS	1203621774	GEL	1596422	1203621772	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Plutonium-241	R	DOE EML HA	120	9.48	14119-32-5	%		10.5	15.0	1.00	0
MB	1203624301	GEL	1597412	1203624301	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-1.36	1.38	14133-76-7	PCI/G	U	2.46	5.00	1.00	0
4.2B.R.2.3	1203624302	GEL	1597412	1203624301	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	1.66	1.88	14133-76-7	PCI/G	H	3.16	5.00	1.00	16.5

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
LCS	120362430	GEL	1597412	1203624301	LCS	SPIKE	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	115	2.99	14133-76-7	%		2.48	5.00	1.00	0
MB	120362430	GEL	1597414	1203624304	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.445	1.51	14133-76-7	PCI/G	U	2.63	5.00	1.00	0
4.4D.R.1.4	120362430	GEL	1597414	1203624304	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.594	1.66	14133-76-7	PCI/G	HU	2.88	5.00	1.00	12
LCS	120362430	GEL	1597414	1203624304	LCS	SPIKE	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	109	4.23	14133-76-7	%		2.74	5.00	1.00	0
MB	120362430	GEL	1597416	1203624308	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	0.212	0.938	14133-76-7	PCI/G	U	1.63	5.00	1.00	0
4.1.B.R.1.2	120362430	GEL	1597416	1203624308	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.522	1.18	14133-76-7	PCI/G	HU	2.11	5.00	1.00	19.4
LCS	120362431	GEL	1597416	1203624308	LCS	SPIKE	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	99.1	2.06	14133-76-7	%		1.57	5.00	1.00	0
MB	120362431	GEL	1597417	1203624311	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.31	0.742	14133-76-7	PCI/G	U	1.37	5.00	1.00	0
5.1B.R.2.2	120362431	GEL	1597417	1203624311	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/20/16	405235	Technetium-99	R	DOE EML HA	-0.0928	0.978	14133-76-7	PCI/G	HU	1.76	5.00	1.00	17.6
LCS	120362431	GEL	1597417	1203624311	LCS	SPIKE	09/20/16	09/20/16	09/20/16	09/20/16	405235	Technetium-99	R	DOE EML HA	103	2.93	14133-76-7	%		1.37	5.00	1.00	0
MB	120362539	GEL	1597795	1203625398	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	-0.169	0.211	10098-97-2	PCI/G	U	0.446	2.00	1.00	0
4.1.C.R.1.3	120362539	GEL	1597795	1203625398	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	-0.662	0.742	10098-97-2	PCI/G	HU	1.56	2.00	1.00	20.4
LCS	120362540	GEL	1597795	1203625398	LCS	SPIKE	09/17/16	09/17/16	09/17/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	103	1.40	10098-97-2	%		0.592	2.00	1.00	0
MB	120362540	GEL	1597796	1203625401	MB	TARGET	09/17/16	09/17/16	09/17/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	-0.0178	0.356	10098-97-2	PCI/G	U	0.695	2.00	1.00	0
4.2B.R.1.2	120362540	GEL	1597796	1203625401	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	0.0519	0.715	10098-97-2	PCI/G	HU	1.33	2.00	1.00	21.4
LCS	120362540	GEL	1597796	1203625401	LCS	SPIKE	09/17/16	09/17/16	09/17/16	09/17/16	405235	Strontium-90	R	EPA 905.0 Mo	99.4	2.35	10098-97-2	%		0.881	2.00	1.00	0
MB	120362540	GEL	1597803	1203625408	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Strontium-90	R	EPA 905.0 Mo	0.054	0.342	10098-97-2	PCI/G	U	0.654	2.00	1.00	0
4.4D.R.5.2	120362540	GEL	1597803	1203625408	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/22/16	405235	Strontium-90	R	EPA 905.0 Mo	-1.02	0.730	10098-97-2	PCI/G	HU	1.70	2.00	1.00	22.4
LCS	120362541	GEL	1597803	1203625408	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Strontium-90	R	EPA 905.0 Mo	115	2.41	10098-97-2	%		0.912	2.00	1.00	0
MB	120362541	GEL	1597804	1203625412	MB	TARGET	09/27/16	09/27/16	09/27/16	09/27/16	405235	Strontium-90	R	EPA 905.0 Mo	-0.289	0.526	10098-97-2	PCI/G	U	1.14	2.00	1.00	0
5.2A.R.2.3	120362541	GEL	1597804	1203625412	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/28/16	405235	Strontium-90	R	EPA 905.0 Mo	0.278	0.577	10098-97-2	PCI/G	HU	1.03	2.00	1.00	10.1
LCS	120362541	GEL	1597804	1203625412	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	Strontium-90	R	EPA 905.0 Mo	106	3.25	10098-97-2	%		1.32	2.00	1.00	0
MB	120362543	GEL	1597811	1203625435	MB	TARGET	09/19/16	09/19/16	09/19/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	0.190	1.62	12587-46-1	PCI/G	U	3.55	4.00	1.00	0
MB	120362543	GEL	1597811	1203625435	MB	TARGET	09/19/16	09/19/16	09/19/16	09/19/16	405235	BETA	R	EPA 900.0/S\	0.538	1.45	12587-47-2	PCI/G	U	2.54	10.0	1.00	0
4.3B.R.3.4	120362543	GEL	1597811	1203625435	DUP	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	12.1	3.36	12587-46-1	PCI/G	H	3.95	4.00	1.00	17.6
4.3B.R.3.4	120362543	GEL	1597811	1203625435	DUP	TARGET	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	15.9	2.28	12587-47-2	PCI/G	H	2.44	10.0	1.00	17.6
4.3B.R.3.4	120362543	GEL	1597811	1203625435	MS	SPIKE	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	104	15.1	12587-46-1	%	H	6.99	4.00	1.00	17.6
4.3B.R.3.4	120362543	GEL	1597811	1203625435	MS	SPIKE	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	103	16.0	12587-47-2	%	H	4.10	10.0	1.00	17.6
4.3B.R.3.4	120362543	GEL	1597811	1203625435	MSD	SPIKE	11/23/15	09/06/16	09/08/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	116	16.1	12587-46-1	%	H	3.85	4.00	1.00	17.6
4.3B.R.3.4	120362543	GEL	1597811	1203625435	MSD	SPIKE	11/23/15	09/06/16	09/08/16	09/19/16	405235	BETA	R	EPA 900.0/S\	103	16.8	12587-47-2	%	H	2.97	10.0	1.00	17.6
LCS	120362543	GEL	1597811	1203625435	LCS	SPIKE	09/19/16	09/19/16	09/19/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	93.4	8.60	12587-46-1	%		1.81	4.00	1.00	0
LCS	120362543	GEL	1597811	1203625435	LCS	SPIKE	09/19/16	09/19/16	09/19/16	09/19/16	405235	BETA	R	EPA 900.0/S\	110	13.7	12587-47-2	%		2.49	10.0	1.00	0
MB	120362544	GEL	1597816	1203625449	MB	TARGET	09/19/16	09/19/16	09/19/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	0.0336	1.85	12587-46-1	PCI/G	U	3.79	4.00	1.00	0
MB	120362544	GEL	1597816	1203625449	MB	TARGET	09/19/16	09/19/16	09/19/16	09/19/16	405235	BETA	R	EPA 900.0/S\	-0.87	1.81	12587-47-2	PCI/G	U	3.50	10.0	1.00	0
4.2A.R.2.3	120362545	GEL	1597816	1203625449	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	ALPHA	R	EPA 900.0/S\	19.8	4.36	12587-46-1	PCI/G	H	3.92	4.00	1.00	21.6
4.2A.R.2.3	120362545	GEL	1597816	1203625449	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/20/16	405235	BETA	R	EPA 900.0/S\	20.1	2.88	12587-47-2	PCI/G	H	3.27	10.0	1.00	21.6
4.2A.R.2.3	120362545	GEL	1597816	1203625449	MS	SPIKE	12/08/15	09/06/16	09/08/16	09/20/16	405235	ALPHA	R	EPA 900.0/S\	83.9	14.2	12587-46-1	%	H	5.87	4.00	1.00	21.6
4.2A.R.2.3	120362545	GEL	1597816	1203625449	MS	SPIKE	12/08/15	09/06/16	09/08/16	09/20/16	405235	BETA	R	EPA 900.0/S\	102	15.8	12587-47-2	%	H	4.81	10.0	1.00	21.6
4.2A.R.2.3	120362545	GEL	1597816	1203625449	MSD	SPIKE	12/08/15	09/06/16	09/08/16	09/20/16	405235	ALPHA	R	EPA 900.0/S\	90	15.6	12587-46-1	%	H	7.77	4.00	1.00	21.6
4.2A.R.2.3	120362545	GEL	1597816	1203625449	MSD	SPIKE	12/08/15	09/06/16	09/08/16	09/20/16	405235	BETA	R	EPA 900.0/S\	107	16.4	12587-47-2	%	H	3.91	10.0	1.00	21.6
LCS	120362545	GEL	1597816	1203625449	LCS	SPIKE	09/19/16	09/19/16	09/19/16	09/19/16	405235	ALPHA	R	EPA 900.0/S\	96.5	10.3	12587-46-1	%		3.60	4.00	1.00	0
LCS	120362545	GEL	1597816	1203625449	LCS	SPIKE	09/19/16	09/19/16	09/19/16	09/19/16	405235	BETA	R	EPA 900.0/S\	104	15.0	12587-47-2	%		4.89	10.0	1.00	0
MB	120362545	GEL	1597817	1203625459	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	-1.29	1.11	12587-46-1	PCI/G	U	3.40	4.00	1.00	0
MB	120362545	GEL	1597817	1203625459	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	BETA	R	EPA 900.0/S\	-0.444	1.41	12587-47-2	PCI/G	U	2.89	10.0	1.00	0
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	DUP	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	20.0	4.54	12587-46-1	PCI/G	H	3.92	4.00	1.00	18.9
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	DUP	TARGET	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	27.9	3.51	12587-47-2	PCI/G	H	3.20	10.0	1.00	18.9
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	MS	SPIKE	12/11/15	09/06/16	09/08/16	09/23/16	405235	ALPHA	R	EPA 900.0/S\	77.4	13.3	12587-46-1	%	H	5.24	4.00	1.00	18.9
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	MS	SPIKE	12/11/15	09/06/16	09/08/16	09/23/16	405235	BETA	R	EPA 900.0/S\	75.7	14.5	12587-47-2	%	H	3.87	10.0	1.00	18.9
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	MSD	SPIKE	12/11/15	09/06/16	09/08/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	100	15.6	12587-46-1	%	H	5.50	4.00	1.00	18.9
5.2.B.R.8.2	120362546	GEL	1597817	1203625459	MSD	SPIKE	12/11/15	09/06/16	09/08/16	09/22/16	405235	BETA	R	EPA 900.0/S\	85.1	15.9	12587-47-2	%	H	3.67	10.0	1.00	18.9
LCS	120362546	GEL	1597817	1203625459	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	ALPHA	R	EPA 900.0/S\	100	10.4	12587-46-1	%		3.84	4.00	1.00	0
LCS	120362546	GEL	1597817	1203625459	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	BETA	R	EPA 900.0/S\	111	15.5	12587-47-2	%		3.24	10.0	1.00	0
MB	120362609	GEL	1598072	1203626094	MB	TARGET	09/20/16	09/20/16	09/20/16	09/20/16	405235	Tritium	R	EPA 906.0 Mo	-0.953	1.64	10028-17-8	PCI/G	U	2.92	6.00	1.00	0
4.1.B.R.1.2	120362609	GEL	1598072	1203626094	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/20/16	405235	Tritium	R	EPA 906.0 Mo	0.210	2.48	10028-17-8	PCI/G	HU	4.30	6.00	1.00	19.4
4.1.B.R.1.2	120362609	GEL	1598072	1203626094	MS	SPIKE	12/10/15	09/06/16	09/08/16	09/21/16	405235	Tritium	R	EPA 906.0 Mo	95.6	6.91	10028-17-8	%	H	7.00	6.00	1.00	19.4
LCS	120362609	GEL	1598072	1203626094	LCS	SPIKE	09/21/16	09/21/16	09/21/16	09/21/16	405235	Tritium	R	EPA 906.0 Mo	102	5.98	10028-17-8	%		5.86	6.00	1.00	0
MB	120362609	GEL	1598075	1203626098	MB	TARGET	09/23/16	09/23/16	09/23/16	09/23/16	405235	Tritium	R	EPA 906.0 Mo	1.40	1.61	10028-17-8	PCI/G		2.72	6.00	1.00	0
4.2B.R.2.3	120362609	GEL	1598075	1203626098	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 Mo	2.22	2.14	10028-17-8	PCI/G	H	3.52	6.00	1.00	16.5
4.2B.R.2.3	120362610	GEL	1598075	1203626098	MS	SPIKE	12/08/15	09/06/16	09/08/16	09/23/16	405235	Tritium	R	EPA 906.0 Mo	91.5	6.50	10028-17-8	%	H	4.45	6.00	1.00	16.5
LCS	120362610	GEL	1598075	1203626098	LCS	SPIKE	09/23/16	09/23/16	09/23/16	09/23/16	405235	Tritium	R	EPA 906.0 Mo	90.2	5.28	10028-17-8	%		3.64	6.00	1.00	0
MB	120362610	GEL	1598078	1203626105	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.226	0.595	14762-75-5	PCI/G	U	1.04	2.00	1.00	0
4.1.B.R.1.2	120362610	GEL	1598078	1203626105	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	-0.248	0.603	14762-75-5	PCI/G	HU	1.05	2.00	1.00	19.4
4.1.B.R.1.2	120362610	GEL	1598078	1203626105	MS	SPIKE	12/10/15	09/06/16	09/08/16	09/22/16	405235	Carbon-14	R	EPA EERF C	101	2.80	14762-75-5	%	H	1.70	2.00	1.00	19.4
LCS	120362610	GEL	1598078	1203626105	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Carbon-14	R	EPA EERF C	95.6	2.46	14762-75-5	%		1.53	2.00	1.00	0
MB	120362610	GEL	1598081	1203626109	MB	TARGET	09/27/16	09/27/16	09/27/16	09/27/16	405235	Carbon-14	R	EPA EERF C	-0.233	0.594	14762-75-5	PCI/G	U	1.03	2.00	1.00	0
4.4D.R.1.4	120362611	GEL	1598081	1203626109	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	0.194	0.672	14762-75-5	PCI/G	HU	1.14	2.00	1.00	12

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resi	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.1.4	1203626111	GEL	1598081	1203626109	MS	SPIKE	11/30/15	09/06/16	09/08/16	09/27/16	405235	Carbon-14	R	EPA EERF C	96.7	1.39	14762-75-5	%	H	1.06	2.00	1.00	12
LCS	1203626112	GEL	1598081	1203626109	LCS	SPIKE	09/27/16	09/27/16	09/27/16	09/27/16	405235	Carbon-14	R	EPA EERF C	98.9	1.36	14762-75-5	%		1.03	2.00	1.00	0
MB	1203626113	GEL	1598082	1203626113	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Carbon-14	R	EPA EERF C	0.310	0.626	14762-75-5	PCI/G	U	1.06	2.00	1.00	0
5.1B.R.2.2	1203626114	GEL	1598082	1203626113	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/30/16	405235	Carbon-14	R	EPA EERF C	0.915	0.715	14762-75-5	PCI/G	H	1.19	2.00	1.00	17.6
5.1B.R.2.2	1203626115	GEL	1598082	1203626113	MS	SPIKE	12/14/15	09/06/16	09/08/16	09/30/16	405235	Carbon-14	R	EPA EERF C	97.9	1.66	14762-75-5	%	H	1.20	2.00	1.00	17.6
LCS	1203626116	GEL	1598082	1203626113	LCS	SPIKE	09/30/16	09/30/16	09/30/16	09/30/16	405235	Carbon-14	R	EPA EERF C	101	1.48	14762-75-5	%		1.06	2.00	1.00	0
MB	1203626126	GEL	1598080	1203626126	MB	TARGET	09/24/16	09/24/16	09/24/16	09/24/16	405235	Carbon-14	R	EPA EERF C	0.300	0.588	14762-75-5	PCI/G	U	0.997	2.00	1.00	0
4.2B.R.2.3	1203626127	GEL	1598080	1203626126	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	-0.163	0.649	14762-75-5	PCI/G	HU	1.12	2.00	1.00	16.5
4.2B.R.2.3	1203626128	GEL	1598080	1203626126	MS	SPIKE	12/08/15	09/06/16	09/08/16	09/24/16	405235	Carbon-14	R	EPA EERF C	101	1.68	14762-75-5	%	H	1.15	2.00	1.00	16.5
LCS	1203626129	GEL	1598080	1203626126	LCS	SPIKE	09/24/16	09/24/16	09/24/16	09/24/16	405235	Carbon-14	R	EPA EERF C	102	1.46	14762-75-5	%		0.998	2.00	1.00	0
MB	1203626144	GEL	1598092	1203626144	MB	TARGET	09/25/16	09/25/16	09/25/16	09/25/16	405235	Tritium	R	EPA 906.0 M	0.339	2.16	10028-17-8	PCI/G	U	3.72	6.00	1.00	0
4.4D.R.1.4	1203626145	GEL	1598092	1203626144	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	0.374	2.31	10028-17-8	PCI/G	HU	3.99	6.00	1.00	12
4.4D.R.1.4	1203626146	GEL	1598092	1203626144	MS	SPIKE	11/30/15	09/06/16	09/08/16	09/25/16	405235	Tritium	R	EPA 906.0 M	85.4	3.36	10028-17-8	%	H	4.07	6.00	1.00	12
LCS	1203626147	GEL	1598092	1203626144	LCS	SPIKE	09/25/16	09/25/16	09/25/16	09/25/16	405235	Tritium	R	EPA 906.0 M	87	3.03	10028-17-8	%		3.62	6.00	1.00	0
MB	1203626152	GEL	1598096	1203626152	MB	TARGET	09/27/16	09/27/16	09/27/16	09/27/16	405235	Tritium	R	EPA 906.0 M	0.402	1.82	10028-17-8	PCI/G	U	3.14	6.00	1.00	0
5.1B.R.2.2	1203626153	GEL	1598096	1203626152	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	1.55	2.14	10028-17-8	PCI/G	HU	3.62	6.00	1.00	17.6
5.1B.R.2.2	1203626154	GEL	1598096	1203626152	MS	SPIKE	12/14/15	09/06/16	09/08/16	09/27/16	405235	Tritium	R	EPA 906.0 M	82.5	7.00	10028-17-8	%	H	7.21	6.00	1.00	17.6
LCS	1203626155	GEL	1598096	1203626152	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Tritium	R	EPA 906.0 M	98.2	6.79	10028-17-8	%		7.21	6.00	1.00	0
MB	1203627430	GEL	1598618	1203627430	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.011	0.173	15046-84-1	PCI/G	U	0.394	1.00	1.00	0
4.1.B.R.1.2	1203627431	GEL	1598618	1203627430	DUP	TARGET	12/10/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.087	0.366	15046-84-1	PCI/G	HU	0.834	1.00	1.00	19.4
4.1.B.R.1.2	1203627432	GEL	1598618	1203627430	MS	SPIKE	12/10/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	79.8	2.16	15046-84-1	%	H	0.993	1.00	1.00	19.4
LCS	1203627433	GEL	1598618	1203627430	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	Iodine-129	R	DOE EML HA	84.3	1.50	15046-84-1	%		0.917	1.00	1.00	0
MB	1203627437	GEL	1598620	1203627437	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.0472	0.190	15046-84-1	PCI/G	U	0.418	1.00	1.00	0
4.2B.R.2.3	1203627438	GEL	1598620	1203627437	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	0.243	0.267	15046-84-1	PCI/G	HU	0.645	1.00	1.00	16.5
4.2B.R.2.3	1203627439	GEL	1598620	1203627437	MS	SPIKE	12/08/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	84.6	1.68	15046-84-1	%	H	0.766	1.00	1.00	16.5
LCS	1203627440	GEL	1598620	1203627437	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	Iodine-129	R	DOE EML HA	112	1.91	15046-84-1	%		0.469	1.00	1.00	0
MB	1203627502	GEL	1598647	1203627502	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.153	0.195	15046-84-1	PCI/G	U	0.212	1.00	1.00	0
4.4D.R.1.4	1203627503	GEL	1598647	1203627502	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	-0.153	0.323	15046-84-1	PCI/G	HU	0.497	1.00	1.00	12
4.4D.R.1.4	1203627504	GEL	1598647	1203627502	MS	SPIKE	11/30/15	09/06/16	09/08/16	09/28/16	405235	Iodine-129	R	DOE EML HA	107	1.36	15046-84-1	%	H	0.617	1.00	1.00	12
LCS	1203627505	GEL	1598647	1203627502	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Iodine-129	R	DOE EML HA	92.4	1.03	15046-84-1	%		0.440	1.00	1.00	0
MB	1203627531	GEL	1598663	1203627531	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.00336	0.230	15046-84-1	PCI/G	U	0.497	1.00	1.00	0
5.1B.R.2.2	1203627532	GEL	1598663	1203627531	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	0.034	0.118	15046-84-1	PCI/G	HU	0.569	1.00	1.00	17.6
5.1B.R.2.2	1203627533	GEL	1598663	1203627531	MS	SPIKE	12/14/15	09/06/16	09/08/16	09/29/16	405235	Iodine-129	R	DOE EML HA	86.9	2.48	15046-84-1	%	H	1.32	1.00	1.00	17.6
LCS	1203627534	GEL	1598663	1203627531	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Iodine-129	R	DOE EML HA	102	1.44	15046-84-1	%		0.689	1.00	1.00	0
MB	1203630763	GEL	1599981	1203630763	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Americium-241	R	DOE EML HA	-0.0329	0.0993	14596-10-2	PCI/G	U	0.279	1.00	1.00	0
MB	1203630763	GEL	1599981	1203630763	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.0914	OER-100-93	PCI/G		0.136	1.00	1.00	0
MB	1203630763	GEL	1599981	1203630763	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	0.045	0.126		PCI/G		0.135	1.00	1.00	0
MB	1203630763	GEL	1599981	1203630763	MB	TARGET	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.341	0.293		PCI/G	X	0.289	1.00	1.00	0
5.1B.R.2.2	1203630764	GEL	1599981	1203630763	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Americium-241	R	DOE EML HA	0.0535	0.150	14596-10-2	PCI/G	H	0.160	1.00	1.00	17.6
5.1B.R.2.2	1203630764	GEL	1599981	1203630763	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-242	R	DOE EML HA	0.00	0.355	OER-100-93	PCI/G	H	0.528	1.00	1.00	17.6
5.1B.R.2.2	1203630764	GEL	1599981	1203630763	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	-0.013	0.112		PCI/G	HU	0.260	1.00	1.00	17.6
5.1B.R.2.2	1203630764	GEL	1599981	1203630763	DUP	TARGET	12/14/15	09/06/16	09/08/16	09/22/16	405235	Curium-245/246	R	DOE EML HA	0.0611	0.172		PCI/G	H	0.183	1.00	1.00	17.6
LCS	1203630765	GEL	1599981	1203630763	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Americium-241	R	DOE EML HA	102	1.70	14596-10-2	%		0.317	1.00	1.00	0
LCS	1203630765	GEL	1599981	1203630763	LCS	SPIKE	09/22/16	09/22/16	09/22/16	09/22/16	405235	Curium-243/244	R	DOE EML HA	97	1.89		%		0.294	1.00	1.00	0
MB	1203633742	GEL	1601257	1203633742	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.036	0.224	14158-29-3	PCI/G	U	0.435	1.00	1.00	0
MB	1203633742	GEL	1601257	1203633742	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	0.344	0.175	13968-55-3/1	PCI/G		0.170	1.00	1.00	0
MB	1203633742	GEL	1601257	1203633742	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.460	0.202	15117-96-1/1	PCI/G		0.189	1.00	1.00	0
MB	1203633742	GEL	1601257	1203633742	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-238	R	DOE EML HA	0.370	0.172	7440-61-1	PCI/G		0.122	1.00	1.00	0
4.5B.R.2.3	1203633743	GEL	1601257	1203633742	DUP	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-232	R	DOE EML HA	-0.172	0.189	14158-29-3	PCI/G	HU	0.413	1.00	1.00	17.7
4.5B.R.2.3	1203633743	GEL	1601257	1203633742	DUP	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-233/234	R	DOE EML HA	1.02	0.289	13968-55-3/1	PCI/G	H	0.198	1.00	1.00	17.7
4.5B.R.2.3	1203633743	GEL	1601257	1203633742	DUP	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-235/236	R	DOE EML HA	0.266	0.164	15117-96-1/1	PCI/G	H	0.179	1.00	1.00	17.7
4.5B.R.2.3	1203633743	GEL	1601257	1203633742	DUP	TARGET	12/07/15	09/06/16	09/08/16	09/29/16	405235	Uranium-238	R	DOE EML HA	1.04	0.296	7440-61-1	PCI/G	H	0.214	1.00	1.00	17.7
LCS	1203633744	GEL	1601257	1203633742	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Uranium-238	R	DOE EML HA	103	1.51	7440-61-1	%		0.193	1.00	1.00	0
MB	1203636290	GEL	1602285	1203636290	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Americium-241	R	DOE EML HA	0.0346	0.0549	14596-10-2	PCI/G		0.076	1.00	1.00	0
MB	1203636290	GEL	1602285	1203636290	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-242	R	DOE EML HA	-0.00657	0.0291	OER-100-93	PCI/G	U	0.0758	1.00	1.00	0
MB	1203636290	GEL	1602285	1203636290	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00703	0.0391		PCI/G	U	0.0749	1.00	1.00	0
MB	1203636290	GEL	1602285	1203636290	MB	TARGET	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.149	0.103		PCI/G	X	0.087	1.00	1.00	0
4.2B.R.2.3	1203636291	GEL	1602285	1203636290	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Americium-241	R	DOE EML HA	-0.0107	0.0322	14596-10-2	PCI/G	HU	0.0904	1.00	1.00	16.5
4.2B.R.2.3	1203636291	GEL	1602285	1203636290	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-242	R	DOE EML HA	0.00	0.104	OER-100-93	PCI/G	H	0.155	1.00	1.00	16.5
4.2B.R.2.3	1203636291	GEL	1602285	1203636290	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	0.00781	0.0434		PCI/G	HU	0.0832	1.00	1.00	16.5
4.2B.R.2.3	1203636291	GEL	1602285	1203636290	DUP	TARGET	12/08/15	09/06/16	09/08/16	09/29/16	405235	Curium-245/246	R	DOE EML HA	0.00	0.0341		PCI/G	H	0.0508	1.00	1.00	16.5
LCS	1203636292	GEL	1602285	1203636290	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Americium-241	R	DOE EML HA	119	0.588	14596-10-2	%		0.108	1.00	1.00	0
LCS	1203636292	GEL	1602285	1203636290	LCS	SPIKE	09/29/16	09/29/16	09/29/16	09/29/16	405235	Curium-243/244	R	DOE EML HA	119	0.670		%		0.118	1.00	1.00	0
MB	1203636653	GEL	1602427	1203636653	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	0.070	1.26	12587-46-1	PCI/G	U	2.72	4.00	1.00	0
MB	1203636653	GEL	1602427	1203636653	MB	TARGET	09/28/16	09/28/16	09/28/16	09/28/16	405235	BETA	R	EPA 900.0/S\	-2.93	2.07	12587-47-2	PCI/G	U	4.49	10.0	1.00	0
4.4D.R.5.2	1203636654	GEL	1602427	1203636653	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	19.2	3.82	12587-46-1	PCI/G	H	3.99	4.00	1.00	22.4

Sample_No	Lab_Id	labor	Batch_No	Assoc_Blnk	Sample_Ty	Analyte_Ty	Coll_date	Rec_date	Ext_date	Anal_date	SDG	Parameter	Fra	Method	Lab_Resu	Uncertainty	Cas_num	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
4.4D.R.5.2	1203636654	GEL	1602427	1203636653	DUP	TARGET	11/30/15	09/06/16	09/08/16	09/28/16	405235	BETA	R	EPA 900.0/S\	24.4	2.37	12587-47-2	PCI/G	H	1.88	10.0	1.00	22.4
4.4D.R.5.2	1203636655	GEL	1602427	1203636653	MS	SPIKE	11/30/15	09/06/16	09/08/16	09/29/16	405235	ALPHA	R	EPA 900.0/S\	121	16.2	12587-46-1	%	H	6.00	4.00	1.00	22.4
4.4D.R.5.2	1203636655	GEL	1602427	1203636653	MS	SPIKE	11/30/15	09/06/16	09/08/16	09/29/16	405235	BETA	R	EPA 900.0/S\	101	15.9	12587-47-2	%	H	3.92	10.0	1.00	22.4
4.4D.R.5.2	1203636656	GEL	1602427	1203636653	MSD	SPIKE	11/30/15	09/06/16	09/08/16	09/29/16	405235	ALPHA	R	EPA 900.0/S\	121	16.5	12587-46-1	%	H	6.79	4.00	1.00	22.4
4.4D.R.5.2	1203636656	GEL	1602427	1203636653	MSD	SPIKE	11/30/15	09/06/16	09/08/16	09/29/16	405235	BETA	R	EPA 900.0/S\	108	17.1	12587-47-2	%	H	4.05	10.0	1.00	22.4
LCS	1203636657	GEL	1602427	1203636653	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	ALPHA	R	EPA 900.0/S\	106	10.8	12587-46-1	%		3.23	4.00	1.00	0
LCS	1203636657	GEL	1602427	1203636653	LCS	SPIKE	09/28/16	09/28/16	09/28/16	09/28/16	405235	BETA	R	EPA 900.0/S\	113	15.8	12587-47-2	%		3.30	10.0	1.00	0