

Sample_No	Sample_Type	Anal_date	SDG	Parameter	Fraction	Method	Lab_Result	Uncertainty	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
HO.1.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	8.85	3.18	PCI/G	Hh	3.98	4.00	1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.102	0.238	PCI/G	HUh	0.400		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0136	0.0951	PCI/G	HUh	0.192		1.00	15.8
HO.1.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	20.5	2.69	PCI/G	Hh	2.73	10.0	1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.431	0.522	PCI/G	HUh	1.12		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.916	0.168	PCI/G	Hh	0.114		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.117	0.0893	PCI/G	Hh	0.0608	0.100	1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00955	0.0372	PCI/G	HUh	0.0825		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0399	0.107	PCI/G	HUh	0.238		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.732	0.122	PCI/G	Hh	0.0956		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.954	0.186	PCI/G	Hh	0.106		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.4	1.49	PCI/G	Hh	0.597		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.158	0.424	PCI/G	HUh	0.863		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.916	0.168	PCI/G	Hh	0.114		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.724	0.282	PCI/G	Hh	0.219		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.291	0.0707	PCI/G	Hh	0.0589		1.00	15.8
HO.1.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0412	0.193	PCI/G	HUh	0.141		1.00	15.8
HO.1.1	DUP	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.140	0.160	PCI/G	HU	0.332		1.00	0
HO.1.1	DUP	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0587	0.0791	PCI/G	HU	0.171		1.00	0
HO.1.1	DUP	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.05	0.674	PCI/G	H	0.707		1.00	0
HO.1.1	DUP	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.759	0.147	PCI/G	H	0.0977		1.00	0
HO.1.1	DUP	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0935	0.0546	PCI/G	H	0.047	0.100	1.00	0
HO.1.1	DUP	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0229	0.034	PCI/G	HU	0.059		1.00	0
HO.1.1	DUP	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00679	0.0882	PCI/G	HU	0.177		1.00	0
HO.1.1	DUP	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.866	0.106	PCI/G	H	0.0682		1.00	0
HO.1.1	DUP	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.946	0.157	PCI/G	H	0.105		1.00	0
HO.1.1	DUP	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.9	1.33	PCI/G	H	0.445		1.00	0
HO.1.1	DUP	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.234	0.417	PCI/G	HU	0.543		1.00	0
HO.1.1	DUP	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.759	0.147	PCI/G	H	0.0977		1.00	0
HO.1.1	DUP	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.03	0.278	PCI/G	H	0.219		1.00	0
HO.1.1	DUP	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.202	0.0675	PCI/G	H	0.0536		1.00	0
HO.1.1	DUP	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.0737	PCI/G	HUI	0.0383		1.00	0
HO.1.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	9.14	3.27	PCI/G	Hh	3.91	4.00	1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00153	0.182	PCI/G	HUh	0.337		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0263	0.0863	PCI/G	HUh	0.177		1.00	15.5
HO.1.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	15.2	2.34	PCI/G	Hh	2.50	10.0	1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.636	PCI/G	HUh	0.938		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.922	0.158	PCI/G	Hh	0.110		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.193	0.0585	PCI/G	Hh	0.0546	0.100	1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0313	0.0364	PCI/G	HUh	0.0599		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00507	0.0893	PCI/G	HUh	0.181		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.710	0.101	PCI/G	Hh	0.0796		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.973	0.183	PCI/G	Hh	0.106		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	11.5	1.36	PCI/G	Hh	0.472		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0503	0.371	PCI/G	HUh	0.668		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.922	0.158	PCI/G	Hh	0.110		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.715	0.222	PCI/G	Hh	0.204		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.227	0.0578	PCI/G	Hh	0.053		1.00	15.5
HO.1.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.0706	PCI/G	HUIh	0.0657		1.00	15.5
HO.1.5	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	14.2	3.88	PCI/G	Hh	3.89	4.00	1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0247	0.225	PCI/G	HUh	0.406		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0427	0.104	PCI/G	HUh	0.172		1.00	16.8
HO.1.5	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	16.4	2.82	PCI/G	Hh	3.45	10.0	1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.562	PCI/G	HUIh	1.31		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.494	0.202	PCI/G	Hh	0.106		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0702	0.0581	PCI/G	Hh	0.0664	0.100	1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0242	0.0344	PCI/G	HUh	0.0845		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.024	0.124	PCI/G	HUh	0.242		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.686	0.132	PCI/G	Hh	0.108		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.961	0.188	PCI/G	Hh	0.338		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	10.3	1.49	PCI/G	Hh	0.665		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.665	PCI/G	HUIh	0.776		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.494	0.202	PCI/G	Hh	0.106		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.341	PCI/G	HUIh	0.468		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.291	0.0831	PCI/G	Hh	0.0544		1.00	16.8
HO.1.5	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.140	PCI/G	HUIh	0.0943		1.00	16.8

Sample_No	Sample_Type	Anal_date	SDG	Parameter	Fraction	Method	Lab_Result	Uncertainty	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
HO.1.5	DUP	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	7.98	2.96	PCI/G	H	3.92	4.00	1.00	0
HO.1.5	DUP	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	17.2	2.14	PCI/G	H	1.92	10.0	1.00	0
HO.1.5	MS	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	120	17.9	%	H	8.62	4.00	1.00	0
HO.1.5	MS	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	105	17.3	%	H	4.42	10.0	1.00	0
HO.1.5	MSD	09/27/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	110	16.3	%	H	5.21	4.00	1.00	0
HO.1.5	MSD	09/27/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	98.4	16.1	%	H	3.90	10.0	1.00	0
HO.1.6	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	13.7	4.00	PCI/G	Hh	3.97	4.00	1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0199	0.205	PCI/G	HUh	0.409		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0875	0.0936	PCI/G	HUh	0.160		1.00	14.9
HO.1.6	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	13.0	2.56	PCI/G	Hh	2.95	10.0	1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.967	PCI/G	HUIh	1.23		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.897	0.193	PCI/G	Hh	0.0954		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.256	0.0754	PCI/G	Hh	0.0559	0.100	1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0043	0.031	PCI/G	HUh	0.0671		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0493	0.134	PCI/G	HUh	0.246		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.700	0.111	PCI/G	Hh	0.0876		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.854	0.189	PCI/G	Hh	0.305		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	11.6	1.39	PCI/G	Hh	0.476		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0641	0.422	PCI/G	HUh	0.815		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.897	0.193	PCI/G	Hh	0.0954		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.871	0.253	PCI/G	Hh	0.213		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.193	0.062	PCI/G	Hh	0.0592		1.00	14.9
HO.1.6	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.114	PCI/G	HUIh	0.104		1.00	14.9
HO.2.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	14.8	4.05	PCI/G	Hh	3.90	4.00	1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.000117	0.214	PCI/G	HUh	0.401		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0422	0.105	PCI/G	HUh	0.197		1.00	20.8
HO.2.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	21.5	2.77	PCI/G	Hh	2.51	10.0	1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.967	PCI/G	HUIh	0.826		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.990	0.180	PCI/G	Hh	0.120		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.107	0.0573	PCI/G	Hh	0.0483	0.100	1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0126	0.0406	PCI/G	HUh	0.0799		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0362	0.120	PCI/G	HUh	0.214		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.22	0.127	PCI/G	Hh	0.0976		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.02	0.179	PCI/G	Hh	0.122		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	18.2	1.49	PCI/G	Hh	0.610		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.472	0.482	PCI/G	Hh	0.913		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.990	0.180	PCI/G	Hh	0.120		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.11	0.340	PCI/G	Hh	0.188		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.341	0.0925	PCI/G	Hh	0.0546		1.00	20.8
HO.2.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.199	PCI/G	HUIh	0.148		1.00	20.8
HO.2.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	19.1	4.61	PCI/G	Hh	3.88	4.00	1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.105	0.242	PCI/G	HUh	0.479		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0228	0.0901	PCI/G	HUh	0.181		1.00	18.6
HO.2.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	25.6	3.03	PCI/G	Hh	2.71	10.0	1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.952	PCI/G	HUIh	1.46		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.979	0.218	PCI/G	Hh	0.134		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.222	0.0656	PCI/G	Hh	0.0703	0.100	1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0182	0.0494	PCI/G	HUh	0.0908		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0588	0.106	PCI/G	HUh	0.236		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.12	0.129	PCI/G	Hh	0.0991		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.35	0.217	PCI/G	Hh	0.381		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	19.8	1.84	PCI/G	Hh	0.625		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.127	0.495	PCI/G	HUh	0.957		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.979	0.218	PCI/G	Hh	0.134		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.02	0.375	PCI/G	Hh	0.269		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.455	0.104	PCI/G	Hh	0.0555		1.00	18.6
HO.2.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.120	PCI/G	HUIh	0.140		1.00	18.6
HO.3.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	16.6	4.43	PCI/G	Hh	3.85	4.00	1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0737	0.237	PCI/G	HUh	0.374		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0843	0.100	PCI/G	HUh	0.177		1.00	14.9
HO.3.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	13.6	2.37	PCI/G	Hh	2.29	10.0	1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.961	PCI/G	HUIh	1.27		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.727	0.187	PCI/G	Hh	0.121		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.174	0.0812	PCI/G	Hh	0.0757	0.100	1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0108	0.0399	PCI/G	HUh	0.0721		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0494	0.112	PCI/G	HUh	0.217		1.00	14.9

Sample_No	Sample_Type	Anal_date	SDG	Parameter	Fraction	Method	Lab_Result	Uncertainty	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
HO.3.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.722	0.137	PCI/G	Hh	0.113		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.880	0.190	PCI/G	Hh	0.313		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	13.2	1.53	PCI/G	Hh	0.626		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.837	PCI/G	HUIh	0.756		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.727	0.187	PCI/G	Hh	0.121		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.14	0.340	PCI/G	Hh	0.199		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.324	0.0784	PCI/G	Hh	0.061		1.00	14.9
HO.3.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.108	PCI/G	HUIh	0.124		1.00	14.9
HO.3.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	15.2	3.99	PCI/G	Hh	3.96	4.00	1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0292	0.185	PCI/G	HUh	0.335		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0494	0.0834	PCI/G	HUh	0.155		1.00	14.2
HO.3.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	17.4	2.89	PCI/G	Hh	3.53	10.0	1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.809	PCI/G	HUIh	1.08		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.643	0.145	PCI/G	Hh	0.0909		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.203	0.068	PCI/G	Hh	0.049	0.100	1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0216	0.0292	PCI/G	HUh	0.0518		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0524	0.0866	PCI/G	HUh	0.185		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.780	0.105	PCI/G	Hh	0.0714		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.953	0.159	PCI/G	Hh	0.273		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.2	1.27	PCI/G	Hh	0.371		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.242	0.351	PCI/G	HUh	0.694		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.643	0.145	PCI/G	Hh	0.0909		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.987	0.244	PCI/G	Hh	0.162		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.249	0.0653	PCI/G	Hh	0.0542		1.00	14.2
HO.3.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.109	PCI/G	HUIh	0.0923		1.00	14.2
HO.4.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	11.9	3.56	PCI/G	Hh	3.98	4.00	1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0177	0.225	PCI/G	HUh	0.433		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0747	0.102	PCI/G	HUh	0.214		1.00	22.2
HO.4.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	18.3	2.39	PCI/G	Hh	2.07	10.0	1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.543	PCI/G	HUIh	1.23		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.655	0.176	PCI/G	Hh	0.115		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.286	0.0876	PCI/G	Hh	0.0632	0.100	1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0109	0.0331	PCI/G	HUh	0.0748		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0837	0.102	PCI/G	HUh	0.241		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.776	0.172	PCI/G	Hh	0.125		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.936	0.186	PCI/G	Hh	0.307		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.1	1.51	PCI/G	Hh	0.636		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.679	PCI/G	HUIh	0.805		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.655	0.176	PCI/G	Hh	0.115		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.370	PCI/G	HUIh	0.595		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.312	0.0922	PCI/G	Hh	0.0593		1.00	22.2
HO.4.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0457	0.155	PCI/G	HUh	0.173		1.00	22.2
HO.4.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	13.7	3.63	PCI/G	Hh	4.00	4.00	1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0539	0.242	PCI/G	HUh	0.461		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0919	0.0994	PCI/G	HUh	0.220		1.00	17.6
HO.4.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	14.5	2.54	PCI/G	Hh	3.02	10.0	1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.676	PCI/G	HUIh	1.50		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.796	0.197	PCI/G	Hh	0.136		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.330	0.0895	PCI/G	Hh	0.0763	0.100	1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.019	0.0543	PCI/G	HUh	0.115		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0648	0.164	PCI/G	HUh	0.340		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.972	0.138	PCI/G	Hh	0.0934		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.02	0.195	PCI/G	Hh	0.355		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.4	1.62	PCI/G	Hh	0.672		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.404	0.542	PCI/G	HUh	1.03		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.796	0.197	PCI/G	Hh	0.136		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.899	0.413	PCI/G	Hh	0.352		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.209	0.0971	PCI/G	Hh	0.072		1.00	17.6
HO.4.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.124	PCI/G	HUIh	0.105		1.00	17.6
HO.5.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	13.0	3.87	PCI/G	Hh	3.88	4.00	1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.265	PCI/G	HUIh	0.559		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0977	0.121	PCI/G	HUh	0.254		1.00	21.9
HO.5.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	17.3	2.90	PCI/G	Hh	3.38	10.0	1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	1.07	PCI/G	HUIh	1.57		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.813	0.225	PCI/G	Hh	0.157		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.340	0.113	PCI/G	Hh	0.096	0.100	1.00	21.9

Sample_No	Sample_Type	Anal_date	SDG	Parameter	Fraction	Method	Lab_Result	Uncertainty	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
HO.5.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0173	0.0471	PCI/G	HUh	0.102		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.112	0.149	PCI/G	HUh	0.247		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.05	0.144	PCI/G	Hh	0.109		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.894	0.226	PCI/G	Hh	0.362		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	12.6	1.80	PCI/G	Hh	0.851		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00969	0.518	PCI/G	HUh	0.995		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.813	0.225	PCI/G	Hh	0.157		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.14	0.292	PCI/G	Hh	0.253		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.331	0.104	PCI/G	Hh	0.0704		1.00	21.9
HO.5.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0211	0.204	PCI/G	HUh	0.183		1.00	21.9
HO.5.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	12.2	3.35	PCI/G	Hh	3.58	4.00	1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0295	0.236	PCI/G	HUh	0.428		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.181	PCI/G	HUIh	0.202		1.00	19.7
HO.5.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	17.1	2.59	PCI/G	Hh	3.06	10.0	1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	2.06	0.633	PCI/G	Hh	0.768		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.777	0.182	PCI/G	Hh	0.130		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.789	0.104	PCI/G	Hh	0.0656	0.100	1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00627	0.0384	PCI/G	HUh	0.0771		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0502	0.115	PCI/G	HUh	0.216		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.05	0.134	PCI/G	Hh	0.107		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.00	0.167	PCI/G	Hh	0.333		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	13.9	1.66	PCI/G	Hh	0.725		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.598	PCI/G	HUIh	0.674		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.777	0.182	PCI/G	Hh	0.130		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.981	0.360	PCI/G	Hh	0.179		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.320	0.0776	PCI/G	Hh	0.068		1.00	19.7
HO.5.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.123	PCI/G	HUIh	0.128		1.00	19.7
LCS	LCS	10/03/16	405245	Americium-241	R	DOE HASL 300, 4.5.2.3/Ga-01-R	115	9.29	%		4.24		1.00	0
LCS	LCS	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	107	3.33	%		0.985	0.100	1.00	0
LCS	LCS	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	98.6	3.49	%		0.659		1.00	0
LCS	LCS	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	110	11.0	%		4.01	4.00	1.00	0
LCS	LCS	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	113	15.7	%		3.72	10.0	1.00	0
MB	MB	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00882	0.125	PCI/G	U	0.240		1.00	0
MB	MB	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00683	0.048	PCI/G	U	0.104		1.00	0
MB	MB	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.159	0.245	PCI/G	U	0.418		1.00	0
MB	MB	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0396	0.0524	PCI/G	U	0.117		1.00	0
MB	MB	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00704	0.0222	PCI/G	U	0.0424	0.100	1.00	0
MB	MB	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00884	0.0211	PCI/G	U	0.041		1.00	0
MB	MB	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0279	0.0554	PCI/G	U	0.105		1.00	0
MB	MB	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0119	0.0271	PCI/G	U	0.0541		1.00	0
MB	MB	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0541	0.0482	PCI/G	U	0.0848		1.00	0
MB	MB	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0791	0.264	PCI/G	U	0.689		1.00	0
MB	MB	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0237	0.198	PCI/G	U	0.422		1.00	0
MB	MB	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0396	0.0524	PCI/G	U	0.117		1.00	0
MB	MB	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0548	0.0902	PCI/G	U	0.173		1.00	0
MB	MB	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00473	0.0242	PCI/G	U	0.0514		1.00	0
MB	MB	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0148	0.0326	PCI/G	U	0.0691		1.00	0
MB	MB	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	-1.11	1.30	PCI/G	U	3.63	4.00	1.00	0
MB	MB	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	-2.22	2.56	PCI/G	U	5.08	10.0	1.00	0
REACH21.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	11.7	3.49	PCI/G	Hh	3.88	4.00	1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0146	0.280	PCI/G	HUh	0.475		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0611	0.125	PCI/G	HUh	0.245		1.00	29.6
REACH21.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	20.1	2.60	PCI/G	Hh	2.55	10.0	1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.928	PCI/G	HUIh	1.44		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.04	0.217	PCI/G	Hh	0.162		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.302	0.130	PCI/G	Hh	0.0861	0.100	1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00192	0.0484	PCI/G	HUh	0.0937		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.177	PCI/G	HUIh	0.280		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.17	0.150	PCI/G	Hh	0.114		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.08	0.231	PCI/G	Hh	0.140		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	17.6	1.82	PCI/G	Hh	0.632		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	1.43	PCI/G	HUIh	0.883		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.04	0.217	PCI/G	Hh	0.162		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.24	0.325	PCI/G	Hh	0.284		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.419	0.106	PCI/G	Hh	0.0645		1.00	29.6
REACH21.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.136	PCI/G	HUIh	0.194		1.00	29.6

Sample_No	Sample_Type	Anal_date	SDG	Parameter	Fraction	Method	Lab_Result	Uncertainty	Units	Lab_Qual	MDL	CRDL_CRQL	Dil_Factor	Pct_Moist
REACH21.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	16.8	4.38	PCI/G	Hh	3.90	4.00	1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00748	0.285	PCI/G	HUh	0.526		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00945	0.151	PCI/G	HUh	0.304		1.00	21.6
REACH21.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	22.6	2.94	PCI/G	Hh	2.81	10.0	1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	1.15	PCI/G	HUIh	1.78		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.959	0.234	PCI/G	Hh	0.178		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0908	0.0871	PCI/G	HUIh	0.094	0.100	1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0216	0.0616	PCI/G	HUh	0.140		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0358	0.183	PCI/G	HUh	0.365		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.19	0.160	PCI/G	Hh	0.107		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.17	0.221	PCI/G	Hh	0.141		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	16.0	2.26	PCI/G	Hh	1.02		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.806	PCI/G	HUIh	0.997		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.959	0.234	PCI/G	Hh	0.178		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.14	0.437	PCI/G	Hh	0.362		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.379	0.121	PCI/G	Hh	0.110		1.00	21.6
REACH21.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.143	PCI/G	HUIh	0.133		1.00	21.6
REACH7.1.1	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	11.9	3.37	PCI/G	Hh	3.93	4.00	1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.250	PCI/G	HUIh	0.516		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.0536	0.115	PCI/G	HUh	0.227		1.00	25.4
REACH7.1.1	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	18.7	2.48	PCI/G	Hh	2.50	10.0	1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	1.28	PCI/G	HUIh	1.04		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.815	0.183	PCI/G	Hh	0.137		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.0534	PCI/G	HUIh	0.116	0.100	1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00756	0.0409	PCI/G	HUh	0.078		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0163	0.0781	PCI/G	HUh	0.156		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.18	0.137	PCI/G	Hh	0.0966		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.864	0.174	PCI/G	Hh	0.144		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	13.6	1.56	PCI/G	Hh	0.606		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	1.21	PCI/G	HUIh	0.689		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.815	0.183	PCI/G	Hh	0.137		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.08	0.327	PCI/G	Hh	0.253		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.284	0.111	PCI/G	Hh	0.0641		1.00	25.4
REACH7.1.1	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.128	PCI/G	HUIh	0.159		1.00	25.4
REACH7.1.2	SAMPLE	09/26/16	405245	ALPHA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	11.8	3.72	PCI/G	Hh	3.99	4.00	1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Actinium-227	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.108	0.182	PCI/G	HUh	0.342		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Antimony-125	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.0465	0.0854	PCI/G	HUh	0.156		1.00	15.3
REACH7.1.2	SAMPLE	09/26/16	405245	BETA	R	EPA 900.0/SW846 9310/SM 7110B Modifier	17.2	2.55	PCI/G	Hh	2.45	10.0	1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Bismuth-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.944	PCI/G	HUIh	1.14		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Bismuth-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.792	0.152	PCI/G	Hh	0.0918		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Cesium-137	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.151	0.0607	PCI/G	Hh	0.0521	0.100	1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Cobalt-60	R	DOE HASL 300, 4.5.2.3/Ga-01-R	-0.00814	0.0382	PCI/G	HUh	0.0732		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Europium-154	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.048	0.099	PCI/G	HUh	0.208		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Lead-212	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.950	0.112	PCI/G	Hh	0.0726		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Lead-214	R	DOE HASL 300, 4.5.2.3/Ga-01-R	1.00	0.134	PCI/G	Hh	0.282		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Potassium-40	R	DOE HASL 300, 4.5.2.3/Ga-01-R	13.3	1.43	PCI/G	Hh	0.581		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Protactinium-231	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.304	0.623	PCI/G	HUh	0.712		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Radium-226	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.792	0.152	PCI/G	Hh	0.0918		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Radium-228	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.718	0.248	PCI/G	Hh	0.169		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Thallium-208	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.337	0.0722	PCI/G	Hh	0.0522		1.00	15.3
REACH7.1.2	SAMPLE	10/03/16	405245	Tin-126	R	DOE HASL 300, 4.5.2.3/Ga-01-R	0.00	0.118	PCI/G	HUIh	0.0986		1.00	15.3