Reported Date: 9/9/2011

Mineral Resource Program

Laboratory Report
U.S. Geological Survey
Lakewood,Colorado

Energy Resource Program

Job Number	Submitter	Contact	# of Samples	Entered by	Date Approved
MRP-11227	SEAL_R		18		3-Dec-10

rseal@usgs.gov

Lab No.	Field No.	Sample Description	Rep	Test Comment	C_CO2 C CO2 %	C_CO2 C CRBNT_C %	C_ICPAES_MS_55 Al %	C_ICPAES_MS_55 Ca %	C_ICPAES_MS_55 Fe %
C-345309	R-09165		1		3.28	0.9	3.24	6.7	2.16
C-345310	R-09170		1		1.49	0.41	1.58	2.9	0.84
C-345311	R-09171		1		0.04	0.01	1.38	0.9	4.68
C-345312	R-09169		1		0.03	0.01	2.17	0.8	1.69
C-345313	R-09167		1		0.42	0.11	1.7	3.4	1.07
C-345314	R-09173		1		0.01	<0.003	2.87	0.7	2.07
C-345315	R-09192		1		0.01	<0.003	5.4	0.9	3.56
C-345316	R-09193		1		<0.01	<0.003	3.18	0.2	5.77
C-345317	R-09195		1		0.02	0.01	1.68	0.4	1.24
C-345318	R-09196		1		0.02	0.01	1.47	0.5	1.41
C-345319	R-09197		1		0.01	<0.003	3.99	0.4	6.15
C-345320	R-09198		1		0.16	0.04	2.42	1.7	1.79
C-345321	R-09199		1		0.31	0.08	3.07	1.3	2.7
C-345322	R-09200		1		0.31	0.08	1.91	2	1.94
C-345323	R-09201		1		0.04	0.01	2.7	0.6	1.99
C-345324	R-09201-D	lab duplicate	1		0.05	0.01	3.01	0.7	2.2
C-345325	R-09202		1		0.03	0.01	4.67	0.4	3.39
C-345326	R-09203		1		0.02	0.01	4.76	0.3	2.42

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Lab No.	Field No.	C_ICPAES_MS_55 K %	C_ICPAES_MS_55 Mg %	C_ICPAES_MS_55 Mn %	C_ICPAES_MS_55 P %	C_ICPAES_MS_55 Ti %	C_ICPAES_MS_55 Ag ppm	C_ICPAES_MS_55 As ppm	C_ICPAES_MS_55 Ba ppm
C-345309	R-09165	1.1	1.22	0.01	1.77	0.26	<1	30	138
C-345310	R-09170	0.5	0.19	<0.01	0.64	0.25	<1	<30	125
C-345311	R-09171	1.1	0.41	0.01	0.5	0.13	<1	<30	122
C-345312	R-09169	1.2	0.32	0.01	0.17	0.29	<1	<30	246
C-345313	R-09167	0.7	0.34	<0.01	1.27	0.24	<1	<30	161
C-345314	R-09173	1.5	0.36	0.01	0.05	0.35	<1	<30	398
C-345315	R-09192	1.3	0.5	0.07	0.63	0.37	<1	<30	497
C-345316	R-09193	2.7	0.78	0.02	0.11	0.5	<1	<30	163
C-345317	R-09195	0.8	0.21	<0.01	0.28	0.29	<1	<30	184
C-345318	R-09196	0.7	0.2	<0.01	0.46	0.25	<1	<30	175
C-345319	R-09197	1.4	0.57	<0.01	0.77	0.36	<1	30	230
C-345320	R-09198	0.9	0.37	0.02	0.76	0.31	<1	<30	236
C-345321	R-09199	1.2	0.45	0.03	0.47	0.29	<1	<30	199
C-345322	R-09200	0.8	0.28	0.03	0.79	0.27	<1	<30	156
C-345323	R-09201	1	0.3	0.01	0.35	0.34	<1	<30	199
C-345324	R-09201-D	1.1	0.34	0.01	0.42	0.32	<1	<30	205
C-345325	R-09202	1.5	0.78	<0.01	0.17	0.42	<1	<30	203
C-345326	R-09203	1.5	0.72	<0.01	0.1	0.44	<1	<30	401

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Lab No.	Field No.	C_ICPAES_MS_55 Be ppm	C_ICPAES_MS_55 Bi ppm	C_ICPAES_MS_55 Cd ppm	C_ICPAES_MS_55 Ce ppm	C_ICPAES_MS_55 Co ppm	C_ICPAES_MS_55 Cr ppm	C_ICPAES_MS_55 Cs ppm	C_ICPAES_MS_55 Cu ppm
C-345309	R-09165	<5	0.1	2.1	44.9	2.8	70	3.3	8
C-345310	R-09170	<5	<0.1	1.9	52.2	2.1	30	1.1	<5
C-345311	R-09171	<5	<0.1	3	53.8	4.6	130	1.5	<5
C-345312	R-09169	<5	<0.1	5.1	75.2	3.4	40	1.9	<5
C-345313	R-09167	<5	<0.1	15.3	53.2	2.2	70	2.1	10
C-345314	R-09173	<5	<0.1	0.3	79.4	5.7	40	1.9	<5
C-345315	R-09192	<5	<0.1	1	77.3	5.3	70	2.9	9
C-345316	R-09193	<5	<0.1	0.3	75.3	3.5	130	3.3	6
C-345317	R-09195	<5	<0.1	1.9	83.8	2.3	30	1.5	<5
C-345318	R-09196	<5	<0.1	1.5	81	2	40	1.5	<5
C-345319	R-09197	<5	0.1	0.9	48.2	4.2	80	4.7	15
C-345320	R-09198	<5	<0.1	1.9	80.4	3.7	50	2.6	6
C-345321	R-09199	<5	<0.1	2.6	94.3	5.6	50	3.2	6
C-345322	R-09200	<5	<0.1	3.4	93.5	3.2	40	1.9	<5
C-345323	R-09201	<5	<0.1	1.8	85.5	4.1	50	2.8	<5
C-345324	R-09201-D	<5	<0.1	1.3	93.6	4.3	50	3.1	7
C-345325	R-09202	<5	0.1	3.2	50.4	4.8	90	6	17
C-345326	R-09203	<5	0.2	3.9	57.4	5.1	110	6.2	20

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Lab No.	Field No.	C_ICPAES_MS_55 Dy ppm	C_ICPAES_MS_55 Er ppm	C_ICPAES_MS_55 Eu ppm	C_ICPAES_MS_55 Ga ppm	C_ICPAES_MS_55 Gd ppm	C_ICPAES_MS_55 Ge ppm	C_ICPAES_MS_55 Hf ppm	C_ICPAES_MS_55 Ho ppm
C-345309	R-09165	3.09	1.69	0.76	8	3.12	<1	3	0.59
C-345310	R-09170	3.64	1.83	1.08	5	4.46	1	6	0.65
C-345311	R-09171	2.28	1.1	0.65	4	3.09	1	3	0.41
C-345312	R-09169	4.45	2.07	1.36	7	5.36	1	9	0.82
C-345313	R-09167	5.35	3.39	1.2	5	5.8	1	7	1.2
C-345314	R-09173	4.57	2.43	1.45	9	5.62	2	13	0.81
C-345315	R-09192	8.8	5.62	1.75	14	8.44	3	15	1.86
C-345316	R-09193	6.22	3.91	0.98	12	5.78	3	17	1.32
C-345317	R-09195	5.19	2.6	1.53	6	6.61	1	7	1.03
C-345318	R-09196	5.5	2.54	1.7	5	6.99	1	7	1
C-345319	R-09197	4.24	2.67	0.99	12	4.16	1	6	0.92
C-345320	R-09198	5.46	2.55	1.6	8	6.21	1	7	0.99
C-345321	R-09199	6.05	2.77	1.89	10	7.47	1	8	1.08
C-345322	R-09200	6.22	2.92	1.81	6	8.15	1	7	1.12
C-345323	R-09201	5.43	2.73	1.73	9	6.88	1	10	1.04
C-345324	R-09201-D	6.25	3.16	1.9	9	7.55	2	12	1.17
C-345325	R-09202	4.1	2.72	0.89	11	3.74	2	6	0.86
C-345326	R-09203	4.79	2.85	1.05	14	4.45	1	7	0.96

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Lab No.	Field No.	C_ICPAES_MS_55 In ppm	C_ICPAES_MS_55 La ppm	C_ICPAES_MS_55 Li ppm	C_ICPAES_MS_55 Lu ppm	C_ICPAES_MS_55 Mo ppm	C_ICPAES_MS_55 Nb ppm	C_ICPAES_MS_55 Nd ppm	C_ICPAES_MS_55 Ni ppm
C-345309	R-09165	<0.2	21.6	40	0.26	87	7	18.9	21
C-345310	R-09170	<0.2	20.1	10	0.24	11	8	23.1	7
C-345311	R-09171	<0.2	19	20	0.15	15	4	21.9	18
C-345312	R-09169	<0.2	29.1	20	0.31	4	8	32.6	8
C-345313	R-09167	<0.2	27.1	20	0.55	37	7	26.5	18
C-345314	R-09173	<0.2	33.2	20	0.35	3	10	34.5	10
C-345315	R-09192	<0.2	33.6	20	0.94	34	10	38.5	11
C-345316	R-09193	<0.2	34.6	20	0.69	14	15	30.8	9
C-345317	R-09195	<0.2	33.9	10	0.39	2	7	35.5	7
C-345318	R-09196	<0.2	28.3	10	0.31	3	6	35.6	5
C-345319	R-09197	<0.2	22.9	30	0.4	33	10	22.5	10
C-345320	R-09198	<0.2	30.9	20	0.36	14	9	35.3	14
C-345321	R-09199	<0.2	35	30	0.44	2	8	39.7	15
C-345322	R-09200	<0.2	34.2	20	0.47	5	8	41.2	10
C-345323	R-09201	<0.2	32.6	20	0.37	3	10	38	7
C-345324	R-09201-D	<0.2	35.8	20	0.47	3	9	41.1	10
C-345325	R-09202	<0.2	24.7	60	0.41	19	13	23.3	25
C-345326	R-09203	<0.2	28.1	50	0.46	14	15	25.6	28

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Lab No.	Field No.	C_ICPAES_MS_55 Pb ppm	C_ICPAES_MS_55 Pr ppm	C_ICPAES_MS_55 Rb ppm	C_ICPAES_MS_55 Sc ppm	C_ICPAES_MS_55 Sm ppm	C_ICPAES_MS_55 Sn ppm	C_ICPAES_MS_55 Sr ppm	C_ICPAES_MS_55 Ta ppm
C-345309	R-09165	12	5.03	53.6	<5	3.6	<1	389	<0.5
C-345310	R-09170	6	5.67	25.1	<5	4.9	2	136	<0.5
C-345311	R-09171	208	5.57	49.5	<5	4	<1	49.8	<0.5
C-345312	R-09169	68	8.09	46.8	<5	6.8	<1	120	<0.5
C-345313	R-09167	54	6.69	33.2	<5	5.9	<1	288	<0.5
C-345314	R-09173	49	8.85	55.8	<5	6.8	<1	134	0.5
C-345315	R-09192	35	9.06	64.9	12	8.4	<1	199	<0.5
C-345316	R-09193	53	8.32	123	7	6.2	<1	55.8	0.9
C-345317	R-09195	44	8.89	33	<5	7.6	<1	80.9	<0.5
C-345318	R-09196	24	8.83	30	<5	7.9	<1	83.3	<0.5
C-345319	R-09197	36	5.82	72.1	7	4.7	1	114	0.5
C-345320	R-09198	46	8.85	45.9	<5	7.4	<1	164	<0.5
C-345321	R-09199	23	9.79	60.7	6	8.6	<1	144	<0.5
C-345322	R-09200	25	10	38.4	<5	8.9	14	169	<0.5
C-345323	R-09201	27	9.45	53.2	6	7.6	<1	85.3	<0.5
C-345324	R-09201-D	27	10.2	58.9	6	9	<1	98.5	<0.5
C-345325	R-09202	25	6.21	85.3	9	4.2	<1	70.4	0.6
C-345326	R-09203	31	6.86	94.8	9	5.1	2	88.5	0.8

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Lab No.	Field No.	C_ICPAES_MS_55 Tb ppm	C_ICPAES_MS_55 Th ppm	C_ICPAES_MS_55 Tl ppm	C_ICPAES_MS_55 Tm ppm	C_ICPAES_MS_55 U ppm	C_ICPAES_MS_55 V ppm	C_ICPAES_MS_55 W ppm	C_ICPAES_MS_55 Y ppm
C-345309	R-09165	0.53	5.6	0.7	0.25	96.1	70	1	19.1
C-345310	R-09170	0.66	3.7	<0.5	0.23	6.95	19	<1	18.6
C-345311	R-09171	0.42	4.7	<0.5	0.14	8.19	111	<1	10.8
C-345312	R-09169	0.76	5.9	<0.5	0.28	3.07	33	1	22.7
C-345313	R-09167	0.94	4.5	0.7	0.5	16.7	38	<1	41.6
C-345314	R-09173	0.77	7.7	<0.5	0.33	2.34	36	1	22.2
C-345315	R-09192	1.35	7.3	0.8	0.92	10.1	76	1	48
C-345316	R-09193	0.93	8.8	<0.5	0.67	4.31	112	1	39.2
C-345317	R-09195	0.94	5.3	<0.5	0.35	4.46	29	1	30.6
C-345318	R-09196	1	4.6	<0.5	0.36	5.36	27	<1	27.1
C-345319	R-09197	0.73	7.6	0.6	0.37	12.1	71	2	26.9
C-345320	R-09198	0.99	6.4	<0.5	0.35	8.01	42	1	26.4
C-345321	R-09199	1.09	7.2	<0.5	0.41	3.8	47	1	28.7
C-345322	R-09200	1.14	6.1	<0.5	0.41	5.66	33	1	32.2
C-345323	R-09201	1.02	7.4	<0.5	0.36	3.99	44	1	27.6
C-345324	R-09201-D	1.16	8.1	0.5	0.44	4.45	49	1	32.6
C-345325	R-09202	0.62	7.8	0.6	0.4	6.79	85	2	25.6
C-345326	R-09203	0.77	8.9	0.7	0.43	9.27	81	2	27.5

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Lab No.	Field No.	C_ICPAES_MS_55 Yb ppm	C_ICPAES_MS_55 Zn ppm	C_ICPAES_MS_55 Zr ppm	C_Org C Organic_C %	C_Se Hyd Se ppm	C_Tot C C %	C_WDXRF Al2O3 %	C_WDXRF CaO %	C_WDXRF Cr2O3 %	C_WDXRF Fe2O3 %	C_WDXRF K2O %	C_WDXRF LOI %
C-345309	R-09165	1.6	56	128	0.68	3.2	1.58	6.27	9.82	<0.01	3.14	1.35	9.95
C-345310	R-09170	1.5	20	196	0.26	0.3	0.67	3.07	4.09	<0.01	1.31	0.7	3.03
C-345311	R-09171	0.9	64	119	0.11	1.2	0.12	2.86	1.14	<0.01	6.77	1.27	5.2
C-345312	R-09169	1.9	43	348	0.25	<0.2	0.26	4.47	0.98	<0.01	2.44	1.3	3.59
C-345313	R-09167	3	120	277	1.1	1.6	1.21	3.38	4.57	<0.01	1.63	0.67	5.3
C-345314	R-09173	2.3	39	505	0.14	<0.2	0.14	6.15	0.9	<0.01	3.16	1.73	3.78
C-345315	R-09192	6.1	46	592	1.11	1.8	1.11	11.4	1.21	<0.01	5.25	1.39	8.9
C-345316	R-09193	4.4	50	697	0.22	0.9	0.22	6.63	0.16	<0.01	8.5	3.03	6.52
C-345317	R-09195	2.1	46	287	0.04	<0.2	0.05	3.43	0.41	<0.01	1.9	0.8	2.35
C-345318	R-09196	2.2	33	268	0.04	<0.2	0.05	3.11	0.6	<0.01	1.93	0.78	2.39
C-345319	R-09197	2.5	52	229	0.31	0.6	0.31	8.43	0.34	<0.01	9.13	1.46	9.33
C-345320	R-09198	2.1	40	261	0.4	0.4	0.44	5	2.35	<0.01	2.54	0.94	4.65
C-345321	R-09199	2.3	56	304	0.37	0.2	0.45	6.17	1.77	<0.01	3.8	1.23	5.49
C-345322	R-09200	2.4	50	296	0.29	0.3	0.37	4	2.8	<0.01	2.84	0.82	3.96
C-345323	R-09201	2.4	45	404	0.37	0.3	0.38	5.72	0.72	<0.01	2.92	1.13	5
C-345324	R-09201-D	2.7	54	477	0.42	0.3	0.43	5.87	0.82	<0.01	2.92	1.14	5.11
C-345325	R-09202	2.5	95	233	1.3	1.5	1.31	9.81	0.48	<0.01	4.96	1.65	14.4
C-345326	R-09203	2.8	83	238	2.06	1.5	2.07	9.95	0.28	<0.01	3.46	1.62	14.7

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Lab No.	Field No.	C_WDXRF MgO %	C_WDXRF MnO %	C_WDXRF Na2O %	C_WDXRF P2O5 %	C_WDXRF SiO2 %	C_WDXRF TiO2 %
C-345309	R-09165	2.16	0.03	0.27	3.96	59.2	0.42
C-345310	R-09170	0.33	0.02	0.3	1.4	84.1	0.42
C-345311	R-09171	0.73	0.02	0.09	1.05	79.7	0.2
C-345312	R-09169	0.59	0.02	0.44	0.37	84.9	0.51
C-345313	R-09167	0.59	<0.01	0.23	2.73	79.1	0.4
C-345314	R-09173	0.65	<0.01	0.7	0.07	81.9	0.63
C-345315	R-09192	0.92	0.08	1.96	1.33	67.2	0.67
C-345316	R-09193	1.42	0.03	0.23	0.23	71.5	0.87
C-345317	R-09195	0.37	0.02	0.3	0.57	89.2	0.5
C-345318	R-09196	0.36	0.01	0.27	0.99	89.2	0.48
C-345319	R-09197	1.08	0.01	0.22	1.7	68	0.61
C-345320	R-09198	0.69	0.03	0.25	1.61	80.7	0.5
C-345321	R-09199	0.83	0.05	0.32	1.06	77.6	0.51
C-345322	R-09200	0.53	0.04	0.28	1.77	81.9	0.46
C-345323	R-09201	0.53	0.01	0.31	0.74	82.6	0.56
C-345324	R-09201-D	0.54	0.02	0.29	0.84	82.3	0.54
C-345325	R-09202	1.45	0.02	0.29	0.34	65	0.72
C-345326	R-09203	1.35	0.01	0.28	0.2	67	0.75

Reported Date: 9/9/2011

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Job Number	Submitter	Contact	# of Samples	Entered by	Date Approved
MRP-11416	SEAL_R		15		11-Mar-11

rseal@usgs.gov

Lab No.	Field No.	Sample Description	Rep	Test Comment	C_ICPAES_MS_55 Al %	C_ICPAES_MS_55 Ca %	C_ICPAES_MS_55 Fe %	C_ICPAES_MS_55 K %	C_ICPAES_MS_55 Mg %
C-347695	R-09210		1		3.01	1.6	1.71	1.3	0.48
C-347696	R-09211		1		3	0.8	1.76	1.5	0.41
C-347697	R-09212		1		2.25	3	1.13	1	0.3
C-347698	R-09213		1		2.66	0.7	1.53	1	0.45
C-347699	R-09214		1		2.78	0.6	1.57	1.1	0.48
C-347700	R-09215		1		2.46	0.2	1.55	1.3	0.25
C-347701	R-09216		1		3.24	1.4	1.81	1.6	0.45
C-347702	R-09217		1		2.66	0.6	1.86	1	0.47
C-347703	R-09236		1		1.87	0.6	1.08	0.7	0.18
C-347704	R-09237		1		2.05	0.7	2.24	0.8	0.17
C-347705	R-09238		1		2.66	0.5	3.96	1.7	0.42
C-347706	R-09239		1		2.67	2.5	6.48	2	0.57
C-347707	R-09240		1		2.5	5.3	6.36	1.8	0.59
C-347708	R-09241		1		2.92	3.1	5.59	2	0.59
C-347709	R-09242		1		3.49	3	2.1	1.1	0.54

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Lab No.	Field No.	C_ICPAES_MS_55 Mn %	C_ICPAES_MS_55 P %	C_ICPAES_MS_55 Ti %	C_ICPAES_MS_55 Ag ppm	C_ICPAES_MS_55 As ppm	C_ICPAES_MS_55 Ba ppm	C_ICPAES_MS_55 Be ppm	C_ICPAES_MS_55 Bi ppm
C-347695	R-09210	0.01	0.12	0.35	<1	<30	305	<5	<0.1
C-347696	R-09211	0.01	0.09	0.35	<1	<30	329	<5	<0.1
C-347697	R-09212	<0.01	0.08	0.28	<1	<30	245	<5	<0.1
C-347698	R-09213	0.01	0.17	0.32	<1	<30	181	<5	<0.1
C-347699	R-09214	0.01	0.16	0.34	<1	<30	193	<5	<0.1
C-347700	R-09215	0.01	0.02	0.41	<1	<30	337	<5	<0.1
C-347701	R-09216	0.01	0.08	0.37	<1	<30	330	<5	<0.1
C-347702	R-09217	0.01	0.18	0.4	<1	<30	157	<5	<0.1
C-347703	R-09236	<0.01	0.21	0.31	<1	<30	192	<5	<0.1
C-347704	R-09237	0.05	0.23	1.34	<1	<30	148	5	<0.1
C-347705	R-09238	0.04	0.1	0.76	<1	<30	197	<5	<0.1
C-347706	R-09239	0.07	0.11	0.53	<1	<30	176	<5	<0.1
C-347707	R-09240	0.1	0.06	0.49	<1	<30	158	<5	<0.1
C-347708	R-09241	0.08	0.04	0.58	<1	<30	197	<5	<0.1
C-347709	R-09242	0.02	1.2	0.39	<1	<30	239	<5	0.1

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Lab No.	Field No.	C_ICPAES_MS_55 Cd ppm	C_ICPAES_MS_55 Ce ppm	C_ICPAES_MS_55 Co ppm	C_ICPAES_MS_55 Cr ppm	C_ICPAES_MS_55 Cs ppm	C_ICPAES_MS_55 Cu ppm	C_ICPAES_MS_55 Dy ppm	C_ICPAES_MS_55 Er ppm
C-347695	R-09210	4.2	68.1	3.1	70	2.4	9	4.52	2.36
C-347696	R-09211	2.4	61.1	2.6	70	2.4	7	3.15	1.86
C-347697	R-09212	2.8	44.4	2	50	1.5	6	2.83	1.6
C-347698	R-09213	3.4	72.2	2.6	60	2.6	10	4.53	2.2
C-347699	R-09214	4.1	74.4	2.8	70	2.6	8	4.65	2.43
C-347700	R-09215	<0.2	56.2	1.6	60	1.7	7	2.58	1.39
C-347701	R-09216	3.9	72.2	3.8	70	2.4	8	4.62	2.43
C-347702	R-09217	3.1	76	3.4	70	3	7	5.01	2.77
C-347703	R-09236	7.3	39.2	1.7	40	1.4	8	3.55	2.11
C-347704	R-09237	0.7	79	2.4	80	1.4	9	4.46	2.78
C-347705	R-09238	0.6	84.8	2.4	90	1.8	9	4.5	2.8
C-347706	R-09239	0.5	84.3	2.6	100	2.3	7	3.89	2.39
C-347707	R-09240	0.3	77.6	2.5	100	2.2	6	3.7	2.18
C-347708	R-09241	0.2	79.3	2.6	110	2.4	7	3.7	2.4
C-347709	R-09242	8.9	85.6	3	90	3.9	15	6.84	4

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Lab No.	Field No.	C_ICPAES_MS_55 Eu ppm	C_ICPAES_MS_55 Ga ppm	C_ICPAES_MS_55 Gd ppm	C_ICPAES_MS_55 Ge ppm	C_ICPAES_MS_55 Hf ppm	C_ICPAES_MS_55 Ho ppm	C_ICPAES_MS_55 In ppm	C_ICPAES_MS_55 La ppm
C-347695	R-09210	1.23	7	5.12	1	11	0.88	<0.2	27.3
C-347696	R-09211	0.99	7	3.9	1	13	0.62	<0.2	27.8
C-347697	R-09212	0.85	5	3.49	1	9	0.54	<0.2	18.8
C-347698	R-09213	1.34	6	5.94	1	7	0.81	<0.2	28.3
C-347699	R-09214	1.3	7	5.59	1	9	0.88	<0.2	29.5
C-347700	R-09215	0.8	6	2.94	1	13	0.43	<0.2	24.9
C-347701	R-09216	1.26	8	5.33	1	15	0.85	<0.2	29.4
C-347702	R-09217	1.43	7	5.82	1	11	0.98	<0.2	30.9
C-347703	R-09236	0.74	5	3.6	1	11	0.72	<0.2	16.3
C-347704	R-09237	0.83	6	4.93	1	31	0.94	<0.2	36.3
C-347705	R-09238	0.96	8	5.04	2	21	0.92	<0.2	37.4
C-347706	R-09239	0.91	8	4.68	2	18	0.79	<0.2	36.2
C-347707	R-09240	0.87	8	4.42	2	15	0.75	<0.2	32.5
C-347708	R-09241	0.86	9	4.17	2	18	0.79	<0.2	34.1
C-347709	R-09242	1.59	8	7.48	1	10	1.4	<0.2	38.6

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Lab No.	Field No.	C_ICPAES_MS_55 Li ppm	C_ICPAES_MS_55 Lu ppm	C_ICPAES_MS_55 Mo ppm	C_ICPAES_MS_55 Nb ppm	C_ICPAES_MS_55 Nd ppm	C_ICPAES_MS_55 Ni ppm	C_ICPAES_MS_55 Pb ppm	C_ICPAES_MS_55 Pr ppm
C-347695	R-09210	30	0.31	11	9	29.9	14	9	7.57
C-347696	R-09211	20	0.28	8	10	26.8	11	9	6.99
C-347697	R-09212	20	0.22	7	8	19.3	10	6	4.99
C-347698	R-09213	30	0.28	15	9	32	13	8	8.07
C-347699	R-09214	30	0.31	13	9	32.4	14	8	8.14
C-347700	R-09215	10	0.21	5	10	24	6	9	6.48
C-347701	R-09216	30	0.38	8	10	30.7	15	13	7.96
C-347702	R-09217	30	0.38	23	11	34.1	15	8	8.21
C-347703	R-09236	20	0.32	7	8	17.3	15	9	4.37
C-347704	R-09237	20	0.48	7	27	34.3	11	8	9.1
C-347705	R-09238	20	0.4	4	17	35.1	12	15	9.35
C-347706	R-09239	20	0.38	5	13	33.9	12	10	9.22
C-347707	R-09240	20	0.36	2	12	31.9	10	8	8.73
C-347708	R-09241	30	0.39	5	13	31.8	12	9	8.38
C-347709	R-09242	30	0.51	16	10	39.6	24	9	9.91

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Lab No.	Field No.	C_ICPAES_MS_55 Rb ppm	C_ICPAES_MS_55 Sb ppm	C_ICPAES_MS_55 Sc ppm	C_ICPAES_MS_55 Sm ppm	C_ICPAES_MS_55 Sn ppm	C_ICPAES_MS_55 Sr ppm	C_ICPAES_MS_55 Ta ppm	C_ICPAES_MS_55 Tb ppm
C-347695	R-09210	56.6	0.3	<5	6	2	157	0.7	0.73
C-347696	R-09211	58.1	<0.1	<5	4.9	2	132	0.7	0.6
C-347697	R-09212	38	0.5	<5	4	1	185	0.6	0.53
C-347698	R-09213	47.6	0.3	<5	6.4	1	100	0.6	0.84
C-347699	R-09214	50.9	0.3	<5	6.5	2	102	0.6	0.8
C-347700	R-09215	44.2	<0.1	<5	4.5	2	90.1	0.6	0.41
C-347701	R-09216	58.1	<0.1	<5	6.1	1	153	0.6	0.78
C-347702	R-09217	53.1	0.3	<5	7	2	92.1	0.7	0.89
C-347703	R-09236	30	0.5	<5	3.6	1	77.5	0.6	0.52
C-347704	R-09237	27.8	0.7	<5	6	2	71.9	2	0.73
C-347705	R-09238	62.9	0.8	6	6.5	2	67.6	1.3	0.72
C-347706	R-09239	73.5	0.5	6	6.1	2	187	1.1	0.66
C-347707	R-09240	74.5	0.3	5	5.5	2	393	0.9	0.62
C-347708	R-09241	75.9	0.6	6	5.6	2	243	1.1	0.64
C-347709	R-09242	61.6	0.7	7	7.8	2	224	0.7	1.1

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Lab No.	Field No.	C_ICPAES_MS_55 Th ppm	C_ICPAES_MS_55 Tl ppm	C_ICPAES_MS_55 Tm ppm	C_ICPAES_MS_55 U ppm	C_ICPAES_MS_55 V ppm	C_ICPAES_MS_55 W ppm	C_ICPAES_MS_55 Y ppm	C_ICPAES_MS_55 Yb ppm
C-347695	R-09210	6.5	<0.5	0.32	4.12	45	1	22.7	2.3
C-347696	R-09211	7.6	<0.5	0.26	3.78	43	<1	16.1	1.8
C-347697	R-09212	4	<0.5	0.22	3.67	29	<1	15.4	1.5
C-347698	R-09213	6.3	<0.5	0.3	4.52	45	<1	21.1	1.9
C-347699	R-09214	6.5	<0.5	0.35	4.75	47	<1	23.3	2.2
C-347700	R-09215	6.3	<0.5	0.22	2.14	36	<1	11.4	1.5
C-347701	R-09216	6.3	<0.5	0.37	4.13	44	<1	22.8	2.4
C-347702	R-09217	6.4	<0.5	0.37	7.4	50	<1	26.4	2.5
C-347703	R-09236	3.8	<0.5	0.32	4.04	35	<1	20.8	2.2
C-347704	R-09237	11.5	<0.5	0.45	4.29	53	1	25.5	3.3
C-347705	R-09238	10.8	<0.5	0.41	3.75	68	<1	25.4	3
C-347706	R-09239	9.4	<0.5	0.37	3.48	78	<1	21.7	2.6
C-347707	R-09240	8.3	<0.5	0.33	2.92	71	<1	21.1	2.3
C-347708	R-09241	9.5	<0.5	0.37	3	77	<1	22.6	2.8
C-347709	R-09242	8.3	1	0.6	14	63	<1	44.9	3.9

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Lab No.	Field No.	C_ICPAES_MS_55 Zn ppm	C_ICPAES_MS_55 Zr ppm	C_Org C Organic_C %	C_Se Hyd Se ppm	C_Tot C C %	C_CO2 C CO2 %	C_CO2 C CRBNT_C %		C_WDXRF Al2O3 %	C_WDXRF CaO %	C_WDXRF Cr2O3 %	C_WDXRF Fe2O3 %	C_WDXRF K2O %
C-347695	R-09210	29	456	0.36	0.3	0.63	0.99	0.27		5.63	2.11	0.01	2.43	1.53
C-347696	R-09211	22	469	0.29	0.2	0.29	<0.01	<0.003		5.64	1.03	0.01	2.49	1.67
C-347697	R-09212	16	327	0.22	<0.2	0.91	2.52	0.69		4.09	4.21	<0.01	1.61	1.11
C-347698	R-09213	28	280	0.37	0.3	0.37	<0.01	<0.003		4.81	0.78	<0.01	2.13	1.08
C-347699	R-09214	28	356	0.4	0.3	0.4	<0.01	<0.003		5.2	0.83	<0.01	2.23	1.23
C-347700	R-09215	12	514	0.1	<0.2	0.1	<0.01	<0.003		4.66	0.23	0.02	2.23	1.53
C-347701	R-09216	30	556	0.29	<0.2	0.48	0.7	0.19		5.88	1.76	<0.01	2.51	1.69
C-347702	R-09217	40	445	0.41	0.3	0.41	0.01	<0.003		4.99	0.78	0.03	2.65	1.12
C-347703	R-09236	40	417	0.44	0.5	0.45	0.04	0.01		3.34	0.82	<0.01	1.45	0.71
C-347704	R-09237	34	1130	0.26	1.1	0.27	0.02	0.01		3.66	0.89	0.02	3.21	0.85
C-347705	R-09238	51	788	0.22	0.7	0.27	0.17	0.05		4.89	0.61	0.02	5.52	1.87
C-347706	R-09239	45	678	0.26	0.7	1.1	3.06	0.84		4.94	3.4	<0.01	9.13	2.22
C-347707	R-09240	40	550	0.26	0.5	2.13	6.84	1.87		4.85	7.89	0.03	9.45	2.12
C-347708	R-09241	40	654	0.31	0.7	1.33	3.72	1.02		5.23	4.22	0.02	7.86	2.15
C-347709	R-09242	97	379	1.21	1.8	1.29	0.3	0.08		6.33	3.98	<0.01	2.88	1.17

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Lab No.	Field No.	C_WDXRF LOI %	C_WDXRF MgO %	C_WDXRF MnO %	C_WDXRF Na2O %	C_WDXRF P2O5 %	C_WDXRF SiO2 %	C_WDXRF TiO2 %
C-347695	R-09210	4.1	0.85	0.02	0.52	0.27	81.7	0.59
C-347696	R-09211	3.38	0.71	<0.01	0.54	0.18	83.7	0.61
C-347697	R-09212	5.02	0.54	<0.01	0.46	0.16	81.6	0.44
C-347698	R-09213	3.99	0.79	0.02	0.32	0.36	84.6	0.5
C-347699	R-09214	4	0.86	0.02	0.38	0.36	84.1	0.57
C-347700	R-09215	1.75	0.5	0.02	0.51	0.04	88.3	0.7
C-347701	R-09216	3.74	0.79	0.02	0.56	0.17	81.5	0.62
C-347702	R-09217	4.42	0.85	0.02	0.36	0.38	83.2	0.63
C-347703	R-09236	2.57	0.36	0.02	0.3	0.48	89.4	0.47
C-347704	R-09237	2.16	0.31	0.07	0.22	0.47	85.5	2.37
C-347705	R-09238	3.01	0.76	0.05	0.24	0.21	81	1.16
C-347706	R-09239	5.56	1.02	0.1	0.22	0.25	70.8	0.89
C-347707	R-09240	9.07	1.06	0.14	0.24	0.12	62.6	0.85
C-347708	R-09241	5.82	0.98	0.09	0.25	0.08	70.9	0.95
C-347709	R-09242	6.76	0.91	0.04	0.27	2.65	73.5	0.63

Reported Date: 9/9/2011

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Job Number	Submitter	Contact	# of Samples	Entered by	Date Approved
MRP-11454	SEAL_R		13		

rseal@usgs.gov

Lab No.	Field No.	Sample Description	Rep	Test Comment	C_ICPAES_MS_55 Al %	C_ICPAES_MS_55 Ca %	C_ICPAES_MS_55 Fe %	C_ICPAES_MS_55 K %	C_ICPAES_MS_55 Mg %
C-348353	R-10327		1		1.43	2.6	0.57	0.7	0.32
C-348354	R-10328		1		1.97	2.8	0.79	0.9	0.43
C-348355	R-10329		1		1.81	6.5	0.93	0.8	0.42
C-348356	R-10329-D	duplicate	1		2.02	7.1	1	0.9	0.48
C-348357	R-10330		1		1.39	7.6	0.8	0.7	0.33
C-348358	R-10331		1		1.13	9.9	1.22	0.7	0.29
C-348359	R-10335		1		3.47	1.9	1.8	1.2	0.53
C-348360	R-10336		1		2.68	2.9	1.58	0.8	0.47
C-348361	R-10337		1		2.34	4.6	1.41	0.8	0.79
C-348362	R-10338		1		1.38	4.8	0.88	0.5	0.73
C-348363	R-10339		1		1.18	4.2	0.79	0.5	0.22
C-348364	R-10340		1		1.02	7.7	1.88	0.5	0.21
C-348365	R-10341		1		0.78	1.9	0.79	0.3	0.18

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C-348353	R-10327	<0.01	0.92	0.26	<1	<30	120	<5	<0.1
C-348354	R-10328	<0.01	0.88	0.29	1	<30	131	<5	<0.1
C-348355	R-10329	0.01	0.81	0.25	<1	<30	88.7	<5	<0.1
C-348356	R-10329-D	0.01	0.82	0.24	<1	<30	94.3	<5	<0.1
C-348357	R-10330	<0.01	0.68	0.22	<1	<30	77.5	<5	<0.1
C-348358	R-10331	0.01	0.38	0.22	<1	<30	61.2	<5	<0.1
C-348359	R-10335	0.01	0.66	0.36	<1	<30	191	<5	0.1
C-348360	R-10336	0.01	1.18	0.29	<1	<30	159	<5	<0.1
C-348361	R-10337	0.03	1.53	0.27	<1	<30	141	<5	<0.1
C-348362	R-10338	0.02	1.4	0.2	<1	<30	95.5	<5	<0.1
C-348363	R-10339	0.02	1.42	0.18	<1	<30	87	<5	<0.1
C-348364	R-10340	0.01	0.18	0.15	<1	130	56.6	<5	<0.1
C-348365	R-10341	<0.01	0.29	0.1	<1	<30	40.8	<5	<0.1

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Lab No.	Field No.	C_ICPAES_MS_55 Cd ppm	C_ICPAES_MS_55 Ce ppm	C_ICPAES_MS_55 Co ppm	C_ICPAES_MS_55 Cr ppm	C_ICPAES_MS_55 Cs ppm	C_ICPAES_MS_55 Cu ppm	C_ICPAES_MS_55 Dy ppm	C_ICPAES_MS_55 Er ppm
C-348353	R-10327	17.8	30.5	1.2	70	1.1	11	2.82	1.84
C-348354	R-10328	15.6	34.8	1.6	80	1.6	12	3.11	1.91
C-348355	R-10329	9	39.4	1.7	90	1.6	12	3.13	1.95
C-348356	R-10329-D	9.3	40.9	1.9	80	1.8	14	3.27	2.06
C-348357	R-10330	8.6	29.7	1.4	70	1.3	12	2.59	1.63
C-348358	R-10331	5.1	23.5	1.4	50	0.9	7	1.75	1.1
C-348359	R-10335	3.2	65.2	4.4	60	3.7	13	4.63	2.96
C-348360	R-10336	4.1	74.2	3.7	70	2.9	10	5.48	2.94
C-348361	R-10337	5	79	2.9	60	2.5	13	5.8	3.24
C-348362	R-10338	4.2	65.2	1.7	40	1.2	6	5.31	3.03
C-348363	R-10339	5.6	64	1.4	50	1	9	5.04	2.73
C-348364	R-10340	4.1	24.7	1.9	50	0.8	8	1.36	1.02
C-348365	R-10341	2.6	19.4	1	30	0.7	7	1.38	0.75

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Lab No.	Field No.	C_ICPAES_MS_55 Eu ppm	C_ICPAES_MS_55 Ga ppm	C_ICPAES_MS_55 Gd ppm	C_ICPAES_MS_55 Ge ppm	C_ICPAES_MS_55 Hf ppm	C_ICPAES_MS_55 Ho ppm	C_ICPAES_MS_55 In ppm	C_ICPAES_MS_55 La ppm
C-348353	R-10327	0.7	4	3.3	<1	5	0.64	<0.2	16.2
C-348354	R-10328	0.74	5	3.56	<1	6	0.65	<0.2	18
C-348355	R-10329	0.77	5	3.78	<1	7	0.64	<0.2	19.8
C-348356	R-10329-D	0.77	5	4.08	<1	6	0.7	<0.2	20.2
C-348357	R-10330	0.64	4	2.92	<1	5	0.57	<0.2	14.6
C-348358	R-10331	0.44	3	2.13	<1	5	0.4	<0.2	10.5
C-348359	R-10335	1.19	10	5.69	1	8	0.98	<0.2	29.3
C-348360	R-10336	1.39	8	7.26	1	5	1.07	<0.2	31.4
C-348361	R-10337	1.64	7	7.46	<1	6	1.18	<0.2	32.6
C-348362	R-10338	1.39	4	6.85	<1	5	1.1	<0.2	26.7
C-348363	R-10339	1.39	4	6.62	<1	4	1.04	<0.2	26.6
C-348364	R-10340	0.36	3	1.65	2	5	0.29	<0.2	10.5
C-348365	R-10341	0.35	2	1.78	1	3	0.27	<0.2	8.3

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Lab No.	Field No.	C_ICPAES_MS_55 Li ppm	C_ICPAES_MS_55 Lu ppm	C_ICPAES_MS_55 Mo ppm	C_ICPAES_MS_55 Nb ppm	C_ICPAES_MS_55 Nd ppm	C_ICPAES_MS_55 Ni ppm	C_ICPAES_MS_55 Pb ppm	C_ICPAES_MS_55 Pr ppm
C-348353	R-10327	20	0.29	9	7	15	29	<5	3.79
C-348354	R-10328	30	0.28	17	7	16.5	30	8	4.28
C-348355	R-10329	30	0.27	18	6	18.9	19	<5	4.84
C-348356	R-10329-D	30	0.3	20	6	19.6	30	<5	4.99
C-348357	R-10330	20	0.24	21	7	14.5	22	<5	3.61
C-348358	R-10331	10	0.22	26	4	10.6	16	<5	2.66
C-348359	R-10335	40	0.44	14	10	28.6	29	9	7.37
C-348360	R-10336	30	0.41	11	8	33.1	31	7	8.51
C-348361	R-10337	20	0.47	16	7	36	26	7	8.87
C-348362	R-10338	20	0.38	10	5	29.9	20	<5	7.28
C-348363	R-10339	10	0.4	23	4	29.4	20	<5	7.29
C-348364	R-10340	<10	0.21	334	4	10.4	40	<5	2.74
C-348365	R-10341	<10	0.11	52	3	9.1	11	<5	2.31

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Lab No.	Field No.	C_ICPAES_MS_55 Rb ppm	C_ICPAES_MS_55 Sb ppm	C_ICPAES_MS_55 Sc ppm	C_ICPAES_MS_55 Sm ppm	C_ICPAES_MS_55 Sn ppm	C_ICPAES_MS_55 Sr ppm	C_ICPAES_MS_55 Ta ppm	C_ICPAES_MS_55 Tb ppm
C-348353	R-10327	22.6	0.6	<5	3.1	2	220	<0.5	0.48
C-348354	R-10328	31.5	0.7	<5	3.5	<1	251	<0.5	0.53
C-348355	R-10329	30.5	0.6	<5	3.8	2	325	<0.5	0.55
C-348356	R-10329-D	33.1	0.8	<5	3.9	2	350	<0.5	0.57
C-348357	R-10330	23.2	0.7	<5	3.1	1	386	<0.5	0.42
C-348358	R-10331	20.9	1	<5	2.1	<1	434	<0.5	0.31
C-348359	R-10335	68.5	0.6	6	5.7	2	126	0.5	0.81
C-348360	R-10336	52.3	0.7	<5	6.7	2	168	<0.5	0.98
C-348361	R-10337	47.2	0.6	<5	7.4	1	222	<0.5	1.06
C-348362	R-10338	24.8	0.4	<5	6.3	1	220	<0.5	0.93
C-348363	R-10339	20.6	0.7	<5	6.3	1	231	<0.5	0.9
C-348364	R-10340	18.4	11.1	<5	1.9	2	468	<0.5	0.22
C-348365	R-10341	12.9	1.6	<5	1.8	1	121	<0.5	0.25

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Lab No.	Field No.	C_ICPAES_MS_55 Th ppm	C_ICPAES_MS_55 Tl ppm	C_ICPAES_MS_55 Tm ppm	C_ICPAES_MS_55 U ppm	C_ICPAES_MS_55 V ppm	C_ICPAES_MS_55 W ppm	C_ICPAES_MS_55 Y ppm	C_ICPAES_MS_55 Yb ppm
C-348353	R-10327	2.9	<0.5	0.26	8.79	31	<1	24.4	1.7
C-348354	R-10328	3.6	0.6	0.27	10.5	46	<1	25.6	1.8
C-348355	R-10329	3.7	<0.5	0.26	12.6	43	<1	25.8	1.7
C-348356	R-10329-D	4.1	0.5	0.29	13.2	46	<1	26.9	1.9
C-348357	R-10330	2.7	<0.5	0.23	15.2	42	<1	21.2	1.3
C-348358	R-10331	2	<0.5	0.18	12.6	38	<1	13.7	1
C-348359	R-10335	6.4	0.8	0.43	9.06	57	<1	32.3	2.7
C-348360	R-10336	6.9	1	0.4	10.7	46	<1	37	2.6
C-348361	R-10337	6.5	1.2	0.48	12.6	43	<1	42.1	2.8
C-348362	R-10338	4.8	1	0.43	12.2	27	<1	38.4	2.5
C-348363	R-10339	4.6	0.9	0.38	23.1	32	<1	37.3	2.3
C-348364	R-10340	2.1	1.2	0.15	23.9	178	<1	10	1.1
C-348365	R-10341	2	<0.5	0.11	7.81	52	<1	9.7	0.7

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Lab No.	Field No.	C_ICPAES_MS_55 Zn ppm	C_ICPAES_MS_55 Zr ppm	C_Se Hyd Se ppm	C_Tot C C %	C_CO2 C CO2 %	C_CO2 C CRBNT_C %	C_Org C Organic_C %	C_WDXRF Al2O3 %	C_WDXRF CaO %	C_WDXRF Cr2O3 %	C_WDXRF Fe2O3 %	C_WDXRF K2O %	C_WDXRF LOI %
C-348353	R-10327	150	180	1.6	1.47	0.37	0.1	1.37	2.31	3.59	0.01	0.74	0.6	3.45
C-348354	R-10328	122	231	1.9	1.53	0.63	0.17	1.36	3.28	3.7	<0.01	1.07	0.78	4.48
C-348355	R-10329	84	279	1.6	2.38	4.84	1.32	1.06	2.99	8.65	0.01	1.32	0.71	7.34
C-348356	R-10329-D	89	232	1.8	2.57	5.35	1.46	1.11	3.29	9.22	0.01	1.41	0.77	7.98
C-348357	R-10330	78	219	2.1	2.73	6.08	1.66	1.07	2.46	9.82	<0.01	1.15	0.62	8.37
C-348358	R-10331	48	217	1.6	3.31	9.84	2.69	0.62	1.83	12.7	0.01	1.71	0.58	10.1
C-348359	R-10335	63	322	1	0.92	0.17	0.05	0.87	6.14	2.5	<0.01	2.47	1.13	5.6
C-348360	R-10336	63	209	1.1	0.88	0.31	0.08	0.8	4.94	4.05	<0.01	2.24	0.91	5.25
C-348361	R-10337	65	228	1.2	1.38	2	0.55	0.83	3.86	6.36	<0.01	1.81	0.72	5.45
C-348362	R-10338	48	209	1.1	1.36	2.72	0.74	0.62	2.33	6.17	0.01	1.16	0.47	4.92
C-348363	R-10339	62	148	1.9	1.03	1.1	0.3	0.73	2.06	5.62	<0.01	1.09	0.41	3.17
C-348364	R-10340	47	227	12.2	3.21	7.95	2.17	1.04	1.79	10.2	<0.01	2.64	0.43	8.29
C-348365	R-10341	25	132	2.1	1.02	1.2	0.33	0.69	1.3	2.16	<0.01	0.98	0.25	2.59

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Lab No.	Field No.	C_WDXRF MgO %	C_WDXRF MnO %	C_WDXRF Na2O %	C_WDXRF P2O5 %	C_WDXRF SiO2 %	C_WDXRF TiO2 %
C-348353	R-10327	0.51	0.03	0.28	2.17	85	0.45
C-348354	R-10328	0.74	0.02	0.26	1.93	81.9	0.45
C-348355	R-10329	0.7	0.02	0.21	1.83	74	0.41
C-348356	R-10329-D	0.77	0.02	0.21	1.87	72.4	0.4
C-348357	R-10330	0.57	0.02	0.2	1.51	73.7	0.39
C-348358	R-10331	0.5	0.03	0.18	0.9	69.1	0.42
C-348359	R-10335	0.93	0.02	0.27	1.53	77.9	0.61
C-348360	R-10336	0.81	0.03	0.25	2.6	77.4	0.48
C-348361	R-10337	1.19	0.04	0.22	3.42	75.3	0.4
C-348362	R-10338	1.15	0.04	0.2	2.87	79.7	0.32
C-348363	R-10339	0.4	0.03	0.2	3	82.5	0.3
C-348364	R-10340	0.38	0.01	0.15	0.37	71.1	0.23
C-348365	R-10341	0.3	0.02	0.09	0.57	91.3	0.16