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Page: 1
Finalized Date: 21- OCT- 2013
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CERTIFICATE BU13182031

Project: TLR_FE_10_2013
P.O. No.: 145
This report is for 274 Drill Core samples submitted to our lab in Burnie, TAS, Australia on 8- OCT- 2013.
The following have access to data associated with this certificate:
PETER LEVMS LAURIE VESKA

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
PUL- QC	Pulverizing QC Test
CRU- 21	Crush entire sample >70%- 6 mm
SPL- 21	Split sample - riffle splitter
BAG- 01	Bulk Master for Storage
PUL- 31b	Pulv. Lg split to >80%- 75um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- XRF21n	Iron Ore by XRF Fusion	XRF
ME- GRA05	H2O/ LOI by TGA furnace	TGA

To: **AUSTRALIAN HUALONG PTY LTD**
ATTN: LAURIE VESKA
19 GUBBUTEH ROAD
LITTLE BAY NSW 2036

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****

Signature: 
Wayne Abbott, Operations Manager Analytical, IOTC



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Page: 2 - A
 Total # Pages: 8 (A - B)
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CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- XRF21n Al2O3 %	ME- XRF21n As %	ME- XRF21n Ba %	ME- XRF21n CaO %	ME- XRF21n Cl %	ME- XRF21n Co %	ME- XRF21n Cr2O3 %	ME- XRF21n Cu %	ME- XRF21n Fe %	ME- XRF21n K2O %	ME- XRF21n MgO %	ME- XRF21n Mn %	ME- XRF21n Na2O %	ME- XRF21n Ni %
		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5001		0.99	1.10	0.027	<0.001	<0.01	0.011	0.007	0.0039	0.006	59.22	0.001	0.45	0.184	0.062	0.003
5002		0.59	10.50	0.006	<0.001	0.01	0.023	0.005	0.0117	0.010	48.31	0.118	0.66	0.192	0.111	0.006
5003		3.17	0.96	0.005	0.041	0.01	0.013	0.014	0.0025	0.034	64.89	0.001	2.19	0.895	0.029	0.003
5004		2.08	1.07	0.014	<0.001	<0.01	0.005	0.018	0.0042	0.041	62.87	0.001	2.23	0.955	0.016	0.004
5005		1.80	2.02	0.008	0.003	<0.01	0.006	0.025	0.0054	0.038	62.06	<0.001	2.42	1.620	0.023	0.006
5006		1.60	0.48	0.004	<0.001	<0.01	0.002	0.017	0.0034	0.037	66.02	<0.001	1.55	0.901	0.018	0.002
5007		4.09	0.53	0.017	<0.001	<0.01	0.006	0.010	0.0052	0.041	66.63	<0.001	1.71	0.826	0.018	0.003
5008		0.84	19.85	0.002	0.028	6.02	0.009	0.008	0.0487	0.049	19.48	0.099	5.54	1.355	0.037	0.013
5009		1.72	18.50	0.004	0.192	9.09	0.007	0.004	0.0137	0.024	17.94	0.250	5.64	2.03	0.050	0.008
5010		1.04	1.66	<0.001	0.023	0.35	0.025	0.009	0.0045	0.011	65.86	0.019	1.90	0.643	0.021	0.006
5011		6.61	1.36	<0.001	0.005	0.08	0.037	0.007	0.0015	0.009	66.27	0.007	2.40	0.585	0.056	0.004
5012		4.07	1.06	<0.001	0.002	0.03	0.037	0.007	0.0016	0.006	66.64	0.002	2.43	0.451	0.036	0.004
5013		2.45	1.42	<0.001	0.024	0.14	0.021	0.005	0.0046	0.006	52.08	0.010	3.71	0.773	0.029	0.005
5014		4.26	1.17	<0.001	0.001	0.03	0.032	0.008	0.0027	0.006	66.58	0.002	2.45	0.462	0.042	0.004
5015		2.31	0.99	<0.001	0.021	0.13	0.027	0.007	0.0028	0.006	63.58	0.009	2.35	0.550	0.023	0.004
5016		1.50	19.55	<0.001	0.070	3.15	0.014	0.001	0.0167	0.008	10.34	1.570	12.70	0.428	0.119	0.011
5017		2.69	1.98	0.047	0.006	0.02	0.008	0.006	0.0031	0.006	63.35	0.018	1.46	0.334	0.020	0.005
5018		0.63	19.85	0.072	0.001	0.01	0.013	0.002	0.0144	0.017	29.39	0.301	0.58	0.153	0.040	0.006
5019		1.12	15.55	0.070	<0.001	0.03	0.012	0.002	0.0130	0.016	36.15	0.188	0.66	0.124	0.030	0.005
5020		0.90	20.8	0.021	0.001	0.02	0.013	<0.001	0.0129	0.009	17.22	0.485	0.43	0.075	0.026	0.006
5021		1.04	16.95	0.214	<0.001	0.02	0.009	0.001	0.0264	0.067	27.33	0.194	1.66	0.016	0.016	0.005
5022		2.61	21.4	0.051	0.029	0.01	0.009	<0.001	0.0246	0.010	3.24	3.51	0.85	0.004	0.108	0.006
5023		0.66	20.8	0.056	0.018	0.01	0.009	<0.001	0.0224	0.017	8.43	2.48	0.81	0.026	0.073	0.006
5024		0.39	21.6	0.002	0.043	0.02	0.006	<0.001	0.0245	0.006	0.48	5.06	1.40	0.006	0.142	0.006
5025		1.16	22.5	0.008	0.018	0.02	0.013	<0.001	0.0131	0.011	2.22	2.40	0.88	0.082	0.102	0.008
5026		1.25	20.4	0.046	0.023	0.02	0.010	<0.001	0.0211	0.009	4.83	3.21	0.97	0.057	0.097	0.006
5027		1.84	19.50	0.011	0.024	0.02	0.017	0.005	0.0110	0.014	17.02	1.505	1.09	0.383	0.083	0.008
5028		4.20	1.54	0.001	<0.001	0.03	0.012	0.007	0.0020	0.009	62.62	0.034	1.48	0.261	0.030	0.003
5029		1.38	1.24	0.012	0.002	0.05	0.009	0.008	0.0030	0.022	62.19	0.036	1.46	0.284	0.027	0.004
5030		4.86	0.61	<0.001	0.020	0.83	0.007	0.008	0.0014	0.014	59.26	0.013	2.81	0.399	0.021	0.005
5031		4.72	0.40	<0.001	0.001	0.17	0.027	0.008	0.0014	0.016	61.96	0.006	4.46	0.309	0.024	0.004
5032		3.81	0.55	0.002	0.003	0.23	0.040	0.009	0.0011	0.025	50.62	0.005	10.85	0.299	0.017	0.006
5033		0.67	3.61	0.006	0.008	1.16	0.033	0.009	0.0047	0.049	44.27	0.108	9.86	0.293	0.262	0.006
5034		0.45	9.55	0.014	0.022	1.10	0.011	0.006	0.0091	0.014	34.74	0.736	3.66	0.289	0.609	0.006
5035		0.44	16.50	<0.001	0.096	5.57	0.013	<0.001	0.0109	0.006	2.51	2.74	10.00	0.248	3.28	0.006
5036		0.73	5.94	0.080	0.063	5.91	0.095	0.009	0.0118	0.014	18.08	0.860	10.65	1.370	0.074	0.007
5037		0.67	5.55	0.006	0.004	1.76	0.034	0.008	0.0038	0.006	42.33	0.079	8.86	0.745	0.093	0.009
5038		1.57	0.93	0.005	0.004	0.41	0.020	0.007	0.0022	0.005	60.09	0.019	4.17	0.782	0.028	0.007
5039		2.24	5.45	0.003	0.001	2.96	0.033	0.006	0.0067	0.006	48.29	0.263	6.01	0.799	0.024	0.007
5040		2.27	0.90	0.005	0.004	0.35	0.019	0.009	0.0027	0.005	62.70	0.015	2.34	0.736	0.019	0.006

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Page: 2 - B
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CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n	ME-GRA05	PUL-QC									
		P %	Pb %	S %	SiO2 %	Sn %	Sr %	TiO2 %	V %	Zn %	Zr %	Total %	LOI %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01
5001		0.030	0.017	0.075	6.58	0.080	<0.001	0.10	0.006	0.059	0.002	100.00	6.25
5002		0.037	0.022	0.063	12.90	0.084	0.001	0.43	0.017	0.069	0.010	100.05	5.41
5003		0.051	0.014	0.051	0.61	0.415	<0.001	0.01	0.002	0.104	<0.001	99.99	1.13
5004		0.188	0.012	0.054	0.81	0.426	<0.001	0.02	0.002	0.186	<0.001	99.99	3.17
5005		0.082	0.010	0.030	1.52	0.240	<0.001	0.06	0.003	0.141	0.002	100.00	2.13
5006		0.035	0.008	0.032	0.36	0.316	<0.001	<0.01	<0.001	0.069	<0.001	100.00	1.20
5007		0.031	0.009	0.026	0.31	0.303	<0.001	0.01	0.003	0.047	<0.001	100.00	0.31
5008		0.054	0.012	0.015	29.0	0.070	0.001	1.29	0.027	0.257	0.012	99.97	7.59
5009		0.023	0.005	0.002	30.5	0.051	0.006	0.65	0.010	0.616	0.027	100.00	5.62
5010		0.011	0.014	0.004	2.35	0.026	<0.001	0.08	0.007	0.096	<0.001	99.99	-1.71
5011		0.004	0.011	0.003	1.93	0.040	<0.001	0.04	0.004	0.077	<0.001	99.98	-1.66
5012		0.001	0.013	<0.001	2.16	0.134	<0.001	0.03	0.004	0.077	<0.001	99.99	-1.97
5013		0.017	0.010	<0.001	18.20	0.068	<0.001	0.17	0.008	0.210	<0.001	100.00	0.32
5014		0.001	0.013	<0.001	2.27	0.034	<0.001	0.05	0.007	0.085	<0.001	99.99	-2.06
5015		0.003	0.011	<0.001	5.86	0.023	<0.001	0.08	0.006	0.119	<0.001	100.00	-1.36
5016		0.027	0.019	<0.001	38.2	0.012	0.003	1.12	0.009	0.316	0.024	99.98	7.53
5017		0.011	0.022	0.038	2.19	0.071	<0.001	0.08	0.003	0.021	0.002	99.99	2.82
5018		0.022	0.034	0.064	26.0	0.038	<0.001	0.62	0.024	0.015	0.020	100.00	9.86
5019		0.022	0.030	0.073	21.6	0.036	<0.001	0.51	0.019	0.014	0.016	99.96	9.01
5020		0.030	0.035	0.056	43.3	0.012	<0.001	0.71	0.030	0.011	0.020	100.00	9.09
													83.5
5021		0.119	0.047	0.166	27.9	0.004	<0.001	0.54	0.027	0.023	0.015	100.00	12.38
5022		0.033	0.051	0.027	62.3	0.002	<0.001	0.76	0.039	0.005	0.018	100.05	6.01
5023		0.046	0.049	0.052	55.0	0.006	<0.001	0.68	0.039	0.010	0.019	100.05	7.53
5024		0.019	0.044	0.005	65.7	0.003	<0.001	0.77	0.042	0.002	0.019	99.97	4.29
5025		0.033	0.049	0.027	62.6	0.001	<0.001	0.75	0.032	0.006	0.020	100.00	7.13
5026		0.031	0.057	0.024	61.3	0.005	<0.001	0.72	0.044	0.006	0.019	100.05	5.88
5027		0.030	0.033	0.034	45.1	0.012	<0.001	0.69	0.028	0.017	0.021	100.00	6.75
5028		0.026	0.011	<0.001	7.33	0.034	<0.001	0.02	0.004	0.037	<0.001	100.00	-0.53
5029		0.053	0.014	0.006	7.53	0.039	<0.001	0.03	0.010	0.048	<0.001	99.99	-0.04
5030		0.009	0.014	<0.001	11.00	0.032	<0.001	0.01	0.002	0.053	<0.001	99.97	-0.80
5031		0.035	0.017	0.152	5.74	0.057	<0.001	0.01	<0.001	0.061	<0.001	100.00	-0.49
5032		0.021	0.017	1.260	12.45	0.037	0.001	0.03	<0.001	0.088	<0.001	103.15	2.79
5033		0.018	0.018	1.895	17.60	0.088	0.004	0.14	0.004	0.126	0.003	104.75	3.10
5034		0.034	0.027	0.114	30.3	0.022	0.005	0.35	0.011	0.043	0.014	100.00	3.02
5035		0.045	0.020	0.031	53.3	0.008	0.020	0.63	0.015	0.084	0.020	100.05	3.56
5036		0.077	0.039	0.005	42.5	0.019	<0.001	0.23	0.011	0.100	<0.001	100.00	5.48
5037		0.162	0.016	<0.001	18.70	0.011	0.001	0.20	0.006	0.122	0.006	100.05	2.61
5038		0.008	0.009	<0.001	7.85	0.020	<0.001	0.06	0.011	0.089	<0.001	100.00	-0.67
5039		0.036	0.010	<0.001	13.55	0.034	0.002	0.31	0.026	0.196	0.005	100.00	0.82
5040		0.017	0.009	<0.001	6.53	0.017	<0.001	0.09	0.011	0.066	0.001	99.99	-1.12

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		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5041		1.76	1.71	0.003	0.006	0.99	0.019	0.007	0.0040	0.006	61.93	0.068	2.80	0.699	0.023	0.007
5042		2.07	4.59	0.003	0.006	0.79	0.021	0.006	0.0053	0.006	54.00	0.068	4.85	0.741	0.021	0.008
5043		2.20	0.66	<0.001	0.002	0.10	0.024	0.008	0.0019	0.006	67.63	0.008	1.88	0.451	0.018	0.004
5044		0.78	8.14	0.007	0.034	1.16	0.017	0.001	0.0060	0.006	33.84	0.503	6.94	0.676	0.813	0.003
5045		4.24	2.82	0.005	0.010	1.20	0.030	0.004	0.0038	0.006	60.50	0.290	2.36	0.536	0.124	0.001
5046		0.85	0.55	0.005	0.003	5.09	0.028	<0.001	0.0006	0.004	35.37	0.020	13.60	0.301	0.028	0.001
5047		2.08	0.23	0.006	0.004	0.06	0.030	0.002	<0.0006	0.005	46.10	0.001	14.00	0.338	0.005	0.001
5048		2.62	0.48	0.008	0.004	0.14	0.044	0.001	<0.0006	0.004	44.93	<0.001	15.90	0.277	<0.005	0.002
5049		2.50	0.50	0.005	0.003	0.04	0.035	0.002	<0.0006	0.003	54.56	<0.001	10.30	0.284	0.007	<0.001
5050		2.23	0.49	0.007	<0.001	0.05	0.039	0.001	<0.0006	0.005	45.17	<0.001	15.60	0.250	<0.005	<0.001
5051		2.64	0.83	0.007	0.001	0.02	0.030	0.002	0.0035	0.008	57.70	<0.001	8.14	0.380	0.011	<0.001
5052		3.41	5.45	0.004	0.004	0.02	0.016	0.003	0.0055	0.006	62.51	<0.001	3.08	0.600	0.015	<0.001
5053		2.97	0.79	0.006	0.002	0.01	0.031	0.004	<0.0006	0.003	67.44	<0.001	2.33	0.629	0.010	<0.001
5054		3.93	0.49	0.003	0.005	0.01	0.013	0.005	0.0060	0.005	68.20	<0.001	2.51	0.376	0.007	<0.001
5055		3.56	0.31	0.010	0.004	0.02	0.007	0.006	0.0043	0.007	67.25	<0.001	2.91	0.361	<0.005	<0.001
5056		3.39	0.36	0.012	0.006	0.03	0.008	0.005	<0.0006	0.006	65.65	<0.001	3.18	0.450	<0.005	<0.001
5057		2.41	1.90	0.018	0.012	0.53	0.012	0.003	0.0021	0.008	58.13	0.012	3.91	0.556	0.016	0.001
5058		1.92	17.70	0.009	0.025	11.35	0.011	<0.001	0.0164	0.006	7.59	0.369	9.24	0.704	0.028	0.008
5059		0.44	0.68	0.057	<0.001	0.03	0.010	0.003	0.0057	0.005	62.60	<0.001	0.36	0.089	0.022	<0.001
5060		1.08	0.84	0.051	0.002	0.07	0.012	0.004	<0.0006	0.004	64.88	0.003	1.25	0.198	0.005	<0.001
5061		0.45	0.54	0.094	0.009	0.01	0.012	0.005	<0.0006	0.004	65.86	<0.001	1.35	0.309	<0.005	<0.001
5062		0.50	0.64	0.058	0.003	0.01	0.010	0.008	<0.0006	0.004	68.82	<0.001	1.98	0.237	<0.005	<0.001
5063		1.23	9.54	0.148	0.004	0.01	0.014	0.008	0.0045	0.006	54.02	0.001	1.56	0.414	0.020	0.005
5064		2.09	18.90	0.071	0.004	0.01	0.018	0.001	0.0067	0.005	37.39	0.002	4.26	0.518	0.018	0.005
5065		2.29	1.52	0.049	0.006	0.01	0.012	0.006	0.0014	0.005	66.55	<0.001	2.33	0.290	0.009	<0.001
5066		1.58	3.89	0.054	0.004	0.02	0.018	0.006	0.0034	0.005	61.71	<0.001	2.49	0.403	0.039	0.002
5067		2.00	0.60	0.030	0.002	0.01	0.015	0.005	<0.0006	0.004	69.22	<0.001	1.42	0.396	0.022	<0.001
5068		5.26	0.64	0.018	0.004	0.01	0.016	0.006	0.0024	0.004	69.17	<0.001	1.69	0.273	0.013	0.001
5069		5.29	1.84	0.020	0.004	0.03	0.050	0.005	0.0045	0.004	64.71	0.002	2.98	0.313	0.020	0.004
5070		4.69	0.83	0.042	0.004	0.01	0.026	0.005	0.0030	0.003	67.79	<0.001	1.96	0.311	0.010	<0.001
5071		2.84	0.85	0.025	0.003	0.01	0.017	0.006	0.0008	0.005	68.22	<0.001	1.94	0.375	0.018	<0.001
5072		2.05	0.67	0.020	0.005	0.01	0.018	0.005	0.0028	0.004	69.00	<0.001	1.64	0.441	0.011	<0.001
5073		0.55	1.94	0.088	0.005	0.02	0.016	0.006	0.0015	0.005	64.83	<0.001	2.35	0.795	0.011	<0.001
5074		1.08	1.74	0.071	0.004	0.02	0.034	0.007	0.0021	0.010	65.73	0.001	2.04	0.873	0.012	0.002
5075		3.96	0.84	0.018	0.003	0.01	0.019	0.006	0.0007	0.006	68.61	0.002	1.61	0.671	0.015	0.002
5076		2.44	5.91	0.073	0.013	0.24	0.020	0.010	0.0049	0.038	51.66	0.124	4.30	1.070	0.030	0.009
5077		3.14	1.20	0.050	0.005	0.08	0.028	<0.001	<0.0006	0.002	40.90	<0.001	15.45	0.644	0.009	0.002
5078		1.29	1.44	0.042	0.004	0.10	0.044	<0.001	<0.0006	0.005	27.47	0.003	23.7	0.481	0.020	<0.001
5079		1.32	1.03	0.028	0.006	0.21	0.035	0.003	0.0006	0.004	54.77	0.002	7.87	0.782	0.044	0.001
5080		2.00	3.64	0.060	0.016	0.32	0.019	0.003	0.0050	0.006	42.66	0.018	7.91	0.949	0.021	0.003

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Page: 3 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n	ME-GRA05	PUL-QC									
		P %	Pb %	S %	SiO2 %	Sn %	Sr %	TiO2 %	V %	Zn %	Zr %	Total %	LOI %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01
5041		0.014	0.013	<0.001	5.86	0.022	0.002	0.14	0.013	0.061	0.002	100.00	-1.32
5042		0.010	0.013	<0.001	10.30	0.025	0.002	0.24	0.015	0.205	0.006	100.00	0.53
5043		0.004	0.013	<0.001	2.07	0.020	<0.001	0.06	0.007	0.041	<0.001	99.99	-2.26
5044		0.020	0.003	0.002	28.9	0.013	0.007	0.36	0.011	0.079	0.012	100.00	3.60
5045		0.007	0.005	0.021	6.92	0.020	0.001	0.17	0.012	0.067	<0.001	100.00	-1.35
5046		0.036	0.011	0.002	27.7	0.022	0.001	0.03	0.003	0.030	<0.001	99.94	1.75
5047		0.007	0.010	0.002	16.35	0.025	<0.001	0.01	0.003	0.027	<0.001	100.00	2.86
5048		0.008	0.007	0.002	15.30	0.025	<0.001	0.02	0.003	0.035	<0.001	100.00	3.40
5049		0.005	0.005	0.002	9.34	0.032	<0.001	0.02	0.003	0.029	<0.001	100.00	1.30
5050		0.008	0.006	0.003	15.30	0.033	<0.001	0.01	0.002	0.025	<0.001	99.98	3.48
5051		<0.001	0.004	0.004	7.21	0.074	<0.001	0.02	0.003	0.061	<0.001	100.00	0.54
5052		<0.001	0.003	0.002	1.90	0.042	<0.001	0.05	0.006	0.239	<0.001	99.99	-1.12
5053		<0.001	0.002	0.001	1.12	0.050	<0.001	0.02	0.003	0.063	<0.001	99.99	-1.75
5054		<0.001	0.008	<0.001	0.78	0.277	<0.001	0.01	0.003	0.035	<0.001	100.00	-2.28
5055		<0.001	0.006	0.001	0.77	0.927	<0.001	<0.01	0.003	0.039	<0.001	100.00	-1.93
5056		<0.001	0.006	<0.001	1.68	1.065	<0.001	<0.01	0.004	0.063	<0.001	99.99	-1.22
5057		0.007	0.006	<0.001	7.38	1.070	<0.001	0.06	0.007	0.110	0.002	100.00	0.73
5058		0.052	0.007	0.002	40.5	0.081	0.017	0.74	0.028	0.126	0.026	100.00	7.70
5059		0.007	0.006	0.031	0.75	0.138	<0.001	0.05	0.002	0.023	<0.001	100.00	8.08
5060		0.009	0.006	0.030	0.78	0.082	<0.001	0.04	0.002	0.020	<0.001	100.00	3.66
													80.9
5061		0.007	0.008	0.037	0.31	0.037	<0.001	0.02	0.002	0.019	<0.001	100.00	2.83
5062		0.006	0.008	0.008	0.08	0.043	<0.001	0.01	0.003	0.015	<0.001	99.99	-1.65
5063		0.043	0.018	0.051	6.43	0.039	<0.001	0.44	0.008	0.022	0.010	99.99	3.62
5064		0.063	0.006	0.057	12.85	0.050	0.002	0.47	0.011	0.031	0.015	100.00	8.77
5065		0.012	0.008	0.010	0.91	0.031	<0.001	0.08	0.005	0.017	<0.001	99.99	-0.64
5066		0.033	0.015	0.031	3.03	0.122	0.002	0.31	0.006	0.013	0.005	99.99	0.97
5067		0.014	0.009	0.012	0.26	0.120	<0.001	0.01	0.002	0.008	<0.001	100.00	-2.12
5068		0.006	0.009	0.007	0.41	0.043	<0.001	0.02	0.003	0.010	<0.001	100.00	-2.21
5069		0.009	0.006	0.007	2.24	0.112	<0.001	0.05	0.005	0.028	<0.001	100.00	-0.39
5070		0.011	0.005	0.005	1.20	0.069	<0.001	0.09	0.007	0.032	<0.001	100.00	-1.71
5071		0.008	0.006	0.002	1.01	0.041	<0.001	0.08	0.007	0.037	<0.001	99.99	-2.17
5072		0.005	0.006	0.003	0.60	0.020	<0.001	0.08	0.006	0.034	<0.001	100.00	-2.42
5073		0.051	0.005	0.012	1.84	0.029	<0.001	0.10	0.008	0.056	<0.001	100.00	-0.46
5074		0.043	0.006	0.010	1.35	0.034	<0.001	0.09	0.009	0.060	<0.001	99.99	-0.83
5075		0.007	0.003	0.004	0.53	0.021	<0.001	0.06	0.009	0.048	<0.001	100.00	-2.26
5076		0.057	<0.001	0.009	11.05	0.022	<0.001	0.27	0.014	0.130	0.005	100.05	2.19
5077		0.011	<0.001	0.002	18.90	0.006	<0.001	0.06	0.005	0.138	<0.001	100.00	4.64
5078		0.020	0.004	0.005	26.5	0.004	<0.001	0.07	0.003	0.054	<0.001	100.05	8.06
5079		0.056	0.003	0.002	9.84	0.014	<0.001	0.06	0.007	0.138	<0.001	100.00	1.16
5080		0.065	0.001	0.003	20.1	0.011	<0.001	0.16	0.010	0.180	0.008	100.00	4.97

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Page: 4 - A
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- XRF21n Al2O3 %	ME- XRF21n As %	ME- XRF21n Ba %	ME- XRF21n CaO %	ME- XRF21n Cl %	ME- XRF21n Co %	ME- XRF21n Cr2O3 %	ME- XRF21n Cu %	ME- XRF21n Fe %	ME- XRF21n K2O %	ME- XRF21n MgO %	ME- XRF21n Mn %	ME- XRF21n Na2O %	ME- XRF21n Ni %
		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5081		0.32	14.60	0.025	0.027	18.95	0.020	<0.001	0.0114	0.007	13.36	0.370	5.19	1.270	0.040	0.004
5082		0.78	0.46	0.049	0.004	0.41	0.040	<0.001	<0.0006	0.004	34.76	0.009	20.4	0.415	<0.005	0.001
5083		2.39	0.20	0.042	0.002	0.39	0.029	0.004	<0.0006	0.006	49.68	<0.001	13.65	0.382	<0.005	<0.001
5084		2.25	0.12	0.102	0.003	1.70	0.045	<0.001	0.0011	0.003	12.94	<0.001	34.3	0.200	<0.005	0.002
5085		2.45	0.53	0.054	<0.001	1.56	0.052	<0.001	<0.0006	0.004	23.84	<0.001	28.5	0.261	<0.005	<0.001
5086		2.90	0.71	0.034	<0.001	0.23	0.041	<0.001	<0.0006	0.003	33.56	<0.001	25.8	0.367	<0.005	<0.001
5087		4.63	0.69	0.021	<0.001	0.36	0.072	0.003	<0.0006	<0.001	36.55	0.009	22.6	0.331	0.204	0.003
5088		2.99	1.31	0.020	<0.001	0.24	0.051	0.003	<0.0006	0.002	46.80	0.003	15.35	0.330	0.053	0.005
5089		2.34	11.90	0.007	0.018	16.50	0.080	0.001	0.0102	0.010	5.70	0.670	14.10	0.464	0.097	0.013
5090		3.47	1.02	0.154	0.146	0.02	0.013	0.009	0.0013	0.003	63.89	0.026	1.86	1.620	0.014	0.003
5091		2.12	1.36	0.258	0.188	0.01	0.008	0.009	0.0014	0.005	62.70	0.039	1.18	2.05	0.026	0.003
5092		4.42	0.69	0.176	0.094	0.10	0.006	0.010	0.0018	0.002	65.73	0.031	1.51	1.405	0.013	0.003
5093		7.30	0.76	0.599	0.065	0.01	0.002	0.009	0.0006	0.004	63.57	0.008	0.90	0.814	<0.005	0.004
5094		0.59	6.78	0.125	0.011	0.01	0.002	0.006	0.0096	0.008	50.09	0.071	0.52	0.814	<0.005	0.007
5095		3.75	0.66	0.152	<0.001	<0.01	0.039	0.006	<0.0006	0.002	61.01	0.011	0.08	0.137	0.285	0.006
5096		0.78	2.83	0.201	0.059	0.01	0.003	0.007	0.0033	0.005	59.77	0.025	0.67	0.845	<0.005	0.006
5097		1.24	1.76	0.297	<0.001	<0.01	<0.001	0.006	<0.0006	0.001	59.34	0.004	0.02	0.057	<0.005	0.006
5098		2.42	0.62	0.455	0.001	0.01	<0.001	0.008	0.0031	<0.001	61.79	0.001	0.19	0.259	<0.005	0.008
5099		1.25	0.61	0.138	<0.001	<0.01	<0.001	0.009	<0.0006	<0.001	67.75	<0.001	1.26	0.327	<0.005	0.003
5100		7.15	4.10	0.241	0.003	0.01	0.001	0.008	0.0032	0.003	60.36	0.003	2.64	0.363	<0.005	0.007
5101		2.65	0.98	0.142	0.001	0.01	0.002	0.009	0.0016	0.002	67.41	<0.001	1.82	0.366	<0.005	0.004
5102		4.32	15.75	0.122	0.090	4.99	0.004	0.006	0.0234	0.005	26.81	0.360	3.99	1.605	0.009	0.020
5103		4.78	0.38	0.156	<0.001	0.11	0.030	0.003	0.0013	<0.001	43.12	<0.001	17.35	0.250	<0.005	0.006
5104		2.59	0.82	0.205	<0.001	0.74	0.034	0.001	0.0027	<0.001	27.97	0.005	25.7	0.210	<0.005	0.008
5105		2.14	0.45	0.199	<0.001	0.28	0.028	<0.001	0.0020	<0.001	19.38	0.001	31.6	0.152	<0.005	0.006
5106		2.02	0.49	0.228	<0.001	0.09	0.027	<0.001	0.0031	<0.001	10.10	<0.001	37.5	0.088	<0.005	0.007
5107		2.78	1.02	0.068	<0.001	0.05	0.030	0.004	0.0011	0.001	50.42	<0.001	14.30	0.353	0.020	0.001
5108		2.99	1.19	0.067	<0.001	0.06	0.031	0.003	0.0007	0.001	46.36	<0.001	16.05	0.352	0.012	<0.001
5109		2.65	0.39	0.134	<0.001	0.03	0.030	0.002	<0.0006	<0.001	36.46	<0.001	21.9	0.260	<0.005	<0.001
5110		2.10	0.03	0.106	<0.001	0.08	0.025	0.003	<0.0006	<0.001	30.00	<0.001	25.7	0.202	0.007	<0.001
5111		2.75	0.10	0.054	<0.001	0.14	0.011	0.004	<0.0006	0.001	48.74	<0.001	15.10	0.357	<0.005	<0.001
5112		2.97	0.07	0.032	<0.001	0.08	0.014	0.007	<0.0006	0.001	55.37	<0.001	10.90	0.296	0.010	<0.001
5113		0.61	0.57	0.055	<0.001	<0.01	0.003	0.006	<0.0006	0.002	66.82	0.002	1.54	0.196	0.005	<0.001
5114		0.70	22.4	0.460	0.036	0.01	0.005	0.013	0.0134	0.026	24.99	0.228	0.86	1.510	0.023	0.007
5115		0.29	27.1	0.472	0.004	0.01	0.004	0.004	0.0105	0.018	17.72	0.670	0.38	0.445	0.028	0.004
5116		1.07	5.57	0.246	0.024	0.01	0.007	0.013	0.0049	0.017	58.01	0.041	0.91	1.370	0.018	0.003
5117		3.22	3.77	0.158	0.050	0.01	0.008	0.020	0.0034	0.020	60.91	0.046	1.01	2.14	0.021	0.002
5118		2.39	7.82	0.164	0.019	0.01	0.010	0.027	0.0089	0.017	56.92	0.005	0.97	1.575	0.018	0.004
5119		2.97	8.47	0.168	0.043	0.02	0.015	0.013	0.0062	0.015	53.79	0.026	1.13	1.550	0.017	0.002
5120		5.43	1.76	0.044	0.076	0.03	0.012	0.010	0.0016	0.006	65.91	0.022	1.51	1.995	0.022	0.001

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Page: 4 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n P %	ME-XRF21n Pb %	ME-XRF21n S %	ME-XRF21n SiO2 %	ME-XRF21n Sn %	ME-XRF21n Sr %	ME-XRF21n TiO2 %	ME-XRF21n V %	ME-XRF21n Zn %	ME-XRF21n Zr %	ME-XRF21n Total %	ME-GRA05 LOI %	PUL-QC Pass75um %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.01
5081		0.035	0.005	0.008	35.5	0.039	0.010	0.78	0.013	0.084	0.023	100.00	3.30	
5082		0.012	0.003	0.005	22.2	0.020	<0.001	0.02	0.001	0.069	<0.001	100.00	6.00	
5083		0.003	0.007	0.007	10.35	0.170	<0.001	0.01	0.001	0.042	<0.001	99.99	3.46	
5084		0.008	0.006	0.015	33.8	0.015	<0.001	0.01	<0.001	0.019	<0.001	100.00	11.03	
5085		0.010	0.006	0.009	25.9	0.029	<0.001	0.03	<0.001	0.029	<0.001	99.95	8.79	
5086		0.004	0.002	0.007	15.70	0.078	<0.001	0.06	0.001	0.016	<0.001	100.00	8.84	
5087		0.021	0.002	0.008	15.25	0.122	<0.001	0.07	0.002	0.030	<0.001	99.98	7.77	
5088		0.008	0.004	0.006	9.93	0.459	<0.001	0.07	0.004	0.030	<0.001	99.98	4.96	
5089		0.037	0.012	0.452	41.6	0.036	0.018	0.51	0.020	0.083	0.004	100.00	4.33	
5090		0.007	0.030	0.043	0.93	0.037	<0.001	0.04	0.004	0.075	<0.001	100.00	1.81	
5091		0.010	0.022	0.051	0.98	0.019	<0.001	0.05	0.004	0.092	<0.001	100.00	2.96	
5092		0.007	0.029	0.025	0.49	0.019	<0.001	0.02	0.003	0.067	<0.001	100.00	0.64	
5093		0.011	0.045	0.019	0.62	0.012	<0.001	0.02	0.003	0.104	<0.001	100.00	4.51	
5094		0.019	0.023	0.147	9.54	0.081	<0.001	0.56	0.011	0.085	0.014	99.98	8.85	
5095		0.010	0.007	0.046	0.80	0.008	<0.001	0.02	0.001	0.091	<0.001	100.00	10.24	
5096		0.021	0.019	0.089	1.59	0.022	<0.001	0.10	0.005	0.084	0.001	99.99	7.35	
5097		0.021	0.006	0.093	0.78	0.041	<0.001	0.02	0.001	0.097	<0.001	100.00	11.64	
5098		0.005	0.007	0.032	0.77	0.023	<0.001	0.01	0.001	0.091	<0.001	99.99	8.83	
5099		0.002	0.020	0.015	0.24	0.035	<0.001	<0.01	0.001	0.032	<0.001	99.99	0.22	
5100		0.015	0.011	0.006	4.43	0.012	<0.001	0.16	0.006	0.067	0.005	100.00	1.33	78.7
5101		0.005	0.009	0.001	0.80	0.017	<0.001	0.03	0.003	0.046	<0.001	100.00	-0.85	
5102		0.027	<0.001	<0.001	26.7	0.063	0.006	0.60	0.016	0.083	0.022	100.05	6.46	
5103		0.004	0.001	<0.001	15.50	0.053	<0.001	0.02	<0.001	0.025	<0.001	100.00	4.30	
5104		0.005	0.005	0.001	24.1	0.003	0.001	0.03	<0.001	0.009	<0.001	100.05	8.07	
5105		0.008	0.006	0.002	29.5	0.003	<0.001	0.02	<0.001	0.010	<0.001	100.05	9.96	
5106		0.012	0.004	0.003	34.7	0.002	<0.001	0.02	<0.001	0.015	<0.001	99.99	12.25	
5107		0.003	0.003	<0.001	8.30	0.072	<0.001	0.06	0.002	0.007	<0.001	99.99	3.45	
5108		0.003	0.006	0.001	11.65	0.030	0.001	0.08	0.002	0.007	<0.001	99.97	4.00	
5109		0.004	0.004	0.010	18.65	0.027	<0.001	0.02	<0.001	0.006	<0.001	100.05	6.33	
5110		0.002	0.005	0.006	23.1	0.023	<0.001	<0.01	<0.001	0.009	<0.001	100.05	7.77	
5111		<0.001	0.002	<0.001	10.30	0.125	<0.001	<0.01	<0.001	0.007	<0.001	100.00	3.93	
5112		<0.001	0.003	<0.001	7.59	0.008	<0.001	0.01	0.002	0.007	<0.001	100.00	1.70	
5113		0.011	0.004	0.018	1.16	0.102	<0.001	0.05	0.003	0.012	0.001	99.98	0.54	
5114		0.094	0.112	0.114	24.3	0.052	<0.001	0.88	0.024	0.073	0.028	99.99	11.89	
5115		0.075	0.048	0.130	30.2	0.122	<0.001	1.12	0.027	0.043	0.032	100.00	13.03	
5116		0.046	0.080	0.040	5.05	0.041	<0.001	0.25	0.014	0.102	0.008	99.99	2.40	
5117		0.035	0.107	0.025	3.02	0.045	<0.001	0.16	0.011	0.076	0.006	100.00	1.14	
5118		0.036	0.069	0.036	3.59	0.038	<0.001	0.23	0.011	0.067	0.017	100.00	3.06	
5119		0.045	0.036	0.035	6.74	0.188	<0.001	0.27	0.009	0.115	0.011	100.00	3.32	
5120		0.018	0.005	0.005	0.60	0.094	<0.001	0.05	0.004	0.048	<0.001	100.00	-1.41	

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Page: 5 - A
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- XRF21n Al2O3 %	ME- XRF21n As %	ME- XRF21n Ba %	ME- XRF21n CaO %	ME- XRF21n Cl %	ME- XRF21n Co %	ME- XRF21n Cr2O3 %	ME- XRF21n Cu %	ME- XRF21n Fe %	ME- XRF21n K2O %	ME- XRF21n MgO %	ME- XRF21n Mn %	ME- XRF21n Na2O %	ME- XRF21n Ni %
		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5121		2.58	2.13	0.037	0.007	0.01	0.011	0.009	0.0022	0.005	66.45	0.005	1.46	1.025	0.011	0.001
5122		3.01	3.62	0.060	0.200	0.02	0.013	0.009	0.0018	0.009	60.96	0.063	1.38	4.11	0.033	0.003
5123		4.57	1.46	0.037	0.006	0.01	0.010	0.009	0.0019	0.003	67.59	0.002	1.64	1.030	0.013	0.001
5124		4.76	1.84	0.067	0.122	0.01	0.006	0.009	<0.0006	0.010	63.84	0.065	1.48	3.46	0.024	0.007
5125		4.83	0.39	0.043	0.024	0.01	0.007	0.008	<0.0006	0.002	68.61	0.019	1.64	1.130	0.016	<0.001
5126		2.49	0.48	0.051	0.095	0.01	0.007	0.008	0.0009	0.004	67.17	0.031	1.56	2.16	0.018	<0.001
5127		1.36	0.34	0.051	0.124	0.02	0.005	0.009	0.0009	0.005	66.69	0.065	1.42	2.98	0.017	<0.001
5128		1.12	0.53	0.049	0.019	0.01	0.012	0.007	<0.0006	0.002	68.77	0.014	1.32	0.839	0.020	<0.001
5129		3.76	4.06	0.076	0.004	0.01	0.010	0.008	0.0009	0.001	64.44	0.002	1.38	0.891	0.010	<0.001
5130		1.50	10.40	0.234	0.054	0.01	0.012	0.006	0.0055	0.004	51.13	0.017	3.58	1.515	0.020	0.001
5131		1.15	10.25	0.700	0.202	0.02	0.008	0.013	0.0099	0.025	44.75	0.039	2.06	3.08	0.027	0.004
5132		2.89	26.1	0.498	<0.001	0.05	0.004	0.001	0.0157	0.016	19.00	0.015	2.92	0.792	0.026	0.008
5133		1.31	25.1	0.601	0.008	0.02	0.003	0.005	0.0162	0.021	21.68	0.012	2.44	0.736	0.029	0.012
5134		2.28	13.30	0.290	<0.001	0.02	0.004	0.005	0.0068	0.010	44.23	0.004	0.95	0.271	0.014	0.008
5135		1.84	14.45	0.324	0.004	0.03	0.009	0.006	0.0080	0.018	41.13	0.008	2.80	0.390	0.022	0.006
5136		4.96	4.94	0.337	<0.001	0.01	0.006	0.008	0.0017	0.012	59.59	0.006	1.88	0.390	0.018	0.003
5137		1.60	3.13	0.072	<0.001	0.35	0.012	0.006	0.0020	0.003	59.88	0.005	4.32	0.424	0.011	0.002
5138		0.93	0.44	0.219	<0.001	0.12	0.038	0.002	<0.0006	0.003	29.98	<0.001	25.1	0.224	<0.005	0.002
5139		2.62	0.32	0.114	<0.001	0.09	0.020	0.002	<0.0006	0.001	37.11	<0.001	23.1	0.316	<0.005	<0.001
5140		2.48	0.32	0.052	<0.001	0.09	0.036	0.004	<0.0006	0.001	53.24	0.001	12.45	0.467	0.010	<0.001
5141		2.57	0.70	0.099	<0.001	0.04	0.025	0.002	<0.0006	<0.001	44.27	<0.001	17.40	0.340	<0.005	<0.001
5142		2.68	0.51	0.130	<0.001	0.04	0.049	0.002	<0.0006	<0.001	38.35	0.001	20.7	0.288	0.007	<0.001
5143		2.57	0.09	0.084	<0.001	0.54	0.019	0.002	<0.0006	<0.001	40.59	<0.001	18.85	0.304	0.010	<0.001
5144		2.51	0.02	0.117	<0.001	0.30	0.028	0.004	<0.0006	0.002	28.20	<0.001	26.1	0.184	<0.005	<0.001
5145		2.91	4.07	0.204	<0.001	9.13	0.024	<0.001	0.0006	0.002	11.68	0.164	23.4	0.312	0.018	0.001
5146		0.36	8.38	0.275	1.045	0.38	0.005	0.028	0.0062	0.007	37.58	0.126	3.28	10.50	0.072	<0.001
5147		1.91	19.30	0.109	0.068	0.27	0.067	<0.001	0.0116	<0.001	13.85	1.975	1.86	0.142	0.053	0.005
5148		2.71	1.14	0.076	0.015	1.38	0.016	0.007	<0.0006	0.010	57.26	0.021	3.76	1.000	0.023	<0.001
5149		4.87	0.65	0.014	<0.001	2.38	0.019	0.004	<0.0006	0.004	56.24	0.025	5.19	0.699	0.016	<0.001
5150		1.17	0.30	0.039	<0.001	9.40	0.017	0.001	<0.0006	0.006	24.64	0.022	15.25	0.405	0.020	0.001
5151		2.00	0.29	0.008	<0.001	11.15	0.009	0.001	<0.0006	0.006	28.38	0.017	13.05	0.326	0.010	0.001
5152		3.02	0.22	0.008	<0.001	9.44	0.015	<0.001	<0.0006	0.005	29.88	0.012	14.90	0.370	0.006	<0.001
5153		2.54	0.18	0.015	<0.001	4.06	0.023	<0.001	<0.0006	<0.001	30.06	0.011	20.3	0.500	<0.005	<0.001
5154		2.45	0.08	0.027	<0.001	8.17	0.032	<0.001	0.0022	0.002	11.82	0.011	26.5	0.577	<0.005	0.004
5155		2.93	0.16	0.023	<0.001	3.80	0.034	0.001	<0.0006	0.002	32.41	0.008	18.70	0.631	0.009	<0.001
5156		2.30	0.17	0.031	<0.001	6.26	0.032	0.001	<0.0006	0.001	28.41	0.005	19.55	0.594	<0.005	0.001
5157		3.38	0.11	0.044	<0.001	0.57	0.041	<0.001	<0.0006	0.001	28.80	0.004	25.3	0.627	<0.005	<0.001
5158		2.20	4.16	0.098	0.005	9.07	0.019	<0.001	0.0011	0.001	5.79	0.677	24.5	0.300	0.072	0.004
5159		2.17	4.33	0.066	<0.001	11.05	0.023	<0.001	0.0014	0.002	16.29	0.140	19.30	0.414	<0.005	0.002
5160		3.15	1.08	0.066	<0.001	1.06	0.040	0.001	<0.0006	0.002	32.56	0.008	22.3	0.287	<0.005	0.001

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Page: 5 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n P %	ME-XRF21n Pb %	ME-XRF21n S %	ME-XRF21n SiO2 %	ME-XRF21n Sn %	ME-XRF21n Sr %	ME-XRF21n TiO2 %	ME-XRF21n V %	ME-XRF21n Zn %	ME-XRF21n Zr %	ME-XRF21n Total %	ME-GRA05 LOI %	PUL-QC Pass75um %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.01
5121		0.009	0.005	0.006	1.08	0.023	<0.001	0.09	0.006	0.047	<0.001	99.98	-1.44	
5122		0.011	<0.001	0.008	0.58	0.013	<0.001	0.06	0.005	0.071	<0.001	99.34	0.24	
5123		0.005	<0.001	0.004	0.34	0.079	<0.001	0.05	0.004	0.035	<0.001	100.00	-1.83	
5124		0.010	<0.001	0.006	0.69	0.095	0.001	<0.01	0.002	0.049	<0.001	100.00	-0.65	
5125		0.005	<0.001	0.002	0.06	0.132	<0.001	0.01	0.002	0.019	<0.001	100.00	-2.11	
5126		0.006	<0.001	0.004	0.13	0.188	0.001	<0.01	0.002	0.023	<0.001	100.00	-1.77	
5127		0.005	<0.001	0.002	0.08	0.061	0.002	<0.01	0.003	0.030	0.001	100.00	-1.80	
5128		0.008	<0.001	0.004	0.24	0.257	<0.001	0.01	0.002	0.018	<0.001	100.00	-2.10	
5129		0.011	0.001	0.014	0.49	0.443	<0.001	0.02	0.005	0.018	<0.001	100.00	-0.11	
5130		0.032	<0.001	0.021	5.28	0.084	<0.001	0.28	0.006	0.045	0.006	100.00	4.53	
5131		0.127	<0.001	0.024	10.70	0.044	<0.001	0.49	0.014	0.155	0.013	99.97	6.28	
5132		0.192	<0.001	0.029	26.3	0.069	<0.001	1.15	0.023	0.188	0.028	99.98	13.54	
5133		0.310	<0.001	0.044	24.2	0.076	<0.001	1.20	0.019	0.383	0.032	100.05	12.70	
5134		0.192	0.018	0.030	13.95	0.020	<0.001	0.53	0.020	0.101	0.012	100.00	6.46	
5135		0.172	0.007	0.027	15.20	0.013	0.001	0.54	0.012	0.093	0.013	99.99	6.48	
5136		0.056	0.010	0.004	4.80	0.057	<0.001	0.19	0.005	0.076	0.004	99.99	1.59	
5137		0.010	<0.001	<0.001	5.74	0.053	<0.001	0.11	0.006	0.058	0.002	99.99	-0.17	
5138		0.009	0.004	0.009	23.3	0.017	0.001	0.02	<0.001	0.021	<0.001	99.98	7.43	
5139		0.022	<0.001	<0.001	16.10	0.055	<0.001	0.02	<0.001	0.009	<0.001	99.99	6.58	
5140		<0.001	<0.001	<0.001	8.16	0.019	<0.001	0.02	<0.001	0.010	<0.001	100.00	2.07	94.6
5141		0.001	<0.001	0.008	13.75	0.007	<0.001	0.05	<0.001	0.021	<0.001	100.00	4.09	
5142		0.004	<0.001	0.013	17.20	0.066	<0.001	0.04	<0.001	0.012	<0.001	99.97	5.92	
5143		0.002	0.001	0.002	16.75	0.069	<0.001	0.01	<0.001	0.008	<0.001	100.00	5.10	
5144		0.001	0.012	0.003	25.0	0.005	<0.001	0.01	<0.001	0.011	<0.001	100.00	7.80	
5145		0.040	0.005	0.074	39.0	0.011	0.007	0.18	0.005	0.013	0.005	100.05	6.32	
5146		0.039	<0.001	0.042	6.77	0.006	<0.001	<0.01	0.012	0.182	0.002	100.65	11.32	
5147		0.052	0.008	0.001	45.9	0.015	0.002	0.89	0.018	0.079	0.011	100.00	9.23	
5148		0.014	<0.001	0.001	10.15	0.043	<0.001	0.07	0.003	0.061	<0.001	99.99	-0.12	
5149		0.010	<0.001	<0.001	11.55	0.037	<0.001	0.06	0.003	0.047	<0.001	100.00	-1.39	
5150		0.146	0.004	0.003	37.1	0.024	0.004	0.02	<0.001	0.025	<0.001	99.97	1.58	
5151		0.001	0.002	0.016	33.6	0.037	0.001	0.03	0.001	0.018	0.002	99.96	0.64	
5152		0.001	0.003	0.026	30.9	0.075	0.001	0.01	0.001	0.016	<0.001	99.99	1.05	
5153		<0.001	<0.001	0.004	27.9	0.038	<0.001	0.01	<0.001	0.018	<0.001	100.05	3.80	
5154		0.001	<0.001	0.008	42.0	0.006	<0.001	0.01	<0.001	0.012	<0.001	100.00	5.46	
5155		0.003	<0.001	<0.001	26.4	0.013	0.001	0.01	0.002	0.022	<0.001	100.05	3.65	
5156		0.002	<0.001	0.006	27.7	0.009	0.001	0.01	0.001	0.021	<0.001	100.00	4.77	
5157		<0.001	<0.001	0.007	23.9	0.009	<0.001	0.01	<0.001	0.020	<0.001	100.05	7.99	
5158		0.050	0.001	0.036	44.4	0.006	0.003	0.16	0.007	0.008	<0.001	100.00	7.90	
5159		0.041	0.003	0.056	35.6	0.026	0.002	0.21	0.008	0.071	0.004	99.95	4.98	
5160		0.096	<0.001	0.020	21.8	0.008	0.001	0.06	0.009	0.033	<0.001	100.05	6.35	

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Page: 6 - A
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
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CERTIFICATE OF ANALYSIS BU13182031

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		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5161		1.27	0.75	0.023	<0.001	0.03	0.008	0.013	<0.0006	0.001	63.51	0.003	0.61	0.252	<0.005	<0.001
5162		0.78	1.28	0.024	<0.001	0.02	0.005	0.018	<0.0006	0.001	61.05	0.001	1.13	0.172	<0.005	<0.001
5163		0.38	1.10	0.036	0.001	0.01	0.008	0.019	<0.0006	0.005	62.80	0.001	0.91	0.182	0.009	<0.001
5164		0.33	0.80	0.037	0.001	0.01	0.006	0.021	<0.0006	0.005	62.98	0.004	0.77	0.130	<0.005	0.001
5165		1.66	0.70	0.033	<0.001	<0.01	0.007	0.019	<0.0006	0.006	63.24	0.004	0.98	0.168	<0.005	0.001
5166		1.95	0.51	0.032	<0.001	<0.01	0.007	0.019	<0.0006	0.005	63.39	0.002	0.78	0.153	0.006	0.001
5167		0.70	0.24	0.015	0.002	<0.01	0.008	0.020	<0.0006	0.004	68.39	<0.001	1.45	0.370	0.012	<0.001
5168		0.78	7.06	0.037	0.001	0.04	0.013	0.006	0.0048	0.005	45.71	0.012	8.31	0.647	0.012	0.002
5169		1.28	7.97	0.008	0.004	8.58	0.029	<0.001	0.0082	0.006	11.04	0.082	15.90	0.358	0.039	0.006
5170		3.15	0.52	0.033	0.003	0.17	0.024	<0.001	<0.0006	0.005	36.07	0.024	22.0	0.481	0.005	0.002
5171		2.41	1.24	0.022	0.001	0.01	0.009	0.003	<0.0006	0.005	64.78	0.003	1.40	0.247	<0.005	<0.001
5172		2.02	1.48	0.044	0.001	<0.01	0.010	0.004	<0.0006	0.008	62.78	0.001	1.12	0.258	<0.005	<0.001
5173		1.55	1.01	0.050	0.058	0.01	0.005	0.014	<0.0006	0.006	63.17	0.099	1.41	2.57	0.024	<0.001
5174		3.44	0.87	0.041	0.005	<0.01	0.006	0.005	<0.0006	0.005	63.14	<0.001	0.53	0.262	<0.005	<0.001
5175		2.07	1.25	0.041	<0.001	<0.01	0.006	0.002	<0.0006	0.004	60.48	<0.001	0.26	0.124	0.005	<0.001
5176		1.09	0.77	0.027	0.004	<0.01	0.007	0.004	<0.0006	0.004	63.30	0.003	0.86	0.254	0.006	<0.001
5177		3.40	0.78	0.033	0.002	<0.01	0.008	0.004	<0.0006	0.003	64.74	0.007	0.78	0.326	0.005	<0.001
5178		4.24	0.90	0.043	<0.001	<0.01	0.007	0.005	0.0020	0.004	63.62	0.004	0.53	0.190	<0.005	0.002
5179		0.62	1.58	0.112	<0.001	<0.01	0.009	0.006	0.0014	0.003	61.17	0.006	0.55	0.345	<0.005	<0.001
5180		2.02	0.32	0.036	0.005	<0.01	0.010	0.006	<0.0006	0.004	67.97	0.002	1.88	0.437	<0.005	<0.001
5181		0.43	0.17	0.015	0.006	0.01	0.008	0.007	0.0014	0.006	68.91	<0.001	2.27	0.226	0.010	<0.001
5182		1.41	0.09	0.008	0.007	0.02	0.010	0.006	<0.0006	0.004	68.56	0.001	2.32	0.325	0.007	<0.001
5183		2.45	0.14	0.026	0.029	0.05	0.009	0.006	<0.0006	0.005	64.55	0.002	2.96	0.381	0.018	<0.001
5184		1.68	5.79	0.027	0.016	7.10	0.081	<0.001	0.0071	0.005	18.52	0.146	20.3	0.530	0.070	0.003
5185		1.89	18.90	0.006	0.138	0.02	0.022	<0.001	0.0115	0.016	4.90	3.47	1.70	0.186	0.067	0.003
5186		1.75	15.75	0.017	0.028	0.03	0.013	0.002	0.0094	0.046	34.94	0.086	3.31	0.223	0.016	0.003
5187		3.95	0.95	0.009	0.039	<0.01	0.007	0.018	<0.0006	0.016	67.19	0.064	1.06	0.630	0.014	0.002
5188		2.53	0.28	0.010	0.009	0.02	0.009	0.006	0.0040	0.017	68.45	0.003	1.41	0.226	0.008	0.002
5189		4.98	0.28	0.006	0.003	0.03	0.007	0.006	<0.0006	0.007	66.99	0.001	1.68	0.104	0.006	0.001
5190		4.93	0.12	0.006	0.004	<0.01	0.008	0.006	<0.0006	0.005	69.69	<0.001	1.44	0.120	0.008	<0.001
5191		0.40	15.30	0.012	0.018	0.04	0.010	0.029	0.0067	0.007	18.42	0.106	0.52	2.29	0.021	0.003
5192		2.83	20.6	0.012	0.004	0.01	0.009	0.031	0.0089	0.006	18.80	0.064	0.32	1.770	0.013	0.002
5193		1.95	23.0	0.013	0.006	<0.01	0.009	0.018	0.0106	0.006	20.05	0.031	0.29	1.245	0.023	0.002
5194		2.65	22.3	0.010	0.018	0.01	0.009	0.025	0.0114	0.006	20.88	0.253	0.27	2.35	0.029	0.003
5195		1.68	20.8	0.008	0.015	0.01	0.010	0.020	0.0164	0.007	25.64	0.413	0.28	1.850	0.029	0.008
5196		0.75	24.1	0.013	0.027	0.01	0.012	0.021	0.0091	0.006	19.89	0.987	0.54	2.03	0.029	0.005
5197		1.81	13.95	0.015	0.028	0.07	0.010	0.013	0.0094	0.006	30.27	0.184	2.01	2.55	0.019	0.009
5198		1.70	20.5	0.009	0.027	0.54	0.028	0.020	0.0224	0.007	27.22	0.496	0.44	1.790	0.036	0.004
5199		2.72	5.27	0.067	0.419	0.06	0.007	0.046	0.0026	0.010	35.30	0.287	1.02	12.55	0.062	<0.001
5200		1.86	1.14	0.033	0.055	0.02	0.008	0.002	<0.0006	0.004	38.71	0.026	8.28	1.550	0.007	0.001

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Page: 6 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n	ME-GRA05	PUL-QC										
		P %	Pb %	S %	SiO2 %	Sn %	Sr %	TiO2 %	V %	Zn %	Zr %	Total %	LOI %	Pass75um %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	
5161		0.009	0.027	0.023	2.10	0.045	<0.001	0.05	0.002	0.088	<0.001	100.00	4.99	
5162		0.011	0.043	0.049	3.07	0.024	<0.001	0.08	<0.001	0.100	<0.001	100.00	6.48	
5163		0.012	0.059	0.037	1.41	0.013	<0.001	0.04	<0.001	0.172	0.001	100.00	5.98	
5164		0.010	0.087	0.013	2.08	0.014	<0.001	0.06	<0.001	0.162	0.002	100.00	5.59	
5165		0.009	0.103	0.008	1.68	0.014	<0.001	0.04	<0.001	0.174	0.002	100.00	5.49	
5166		0.008	0.096	0.006	1.36	0.011	<0.001	0.03	<0.001	0.182	0.001	100.00	6.01	
5167		0.001	0.018	0.003	0.35	0.008	<0.001	0.01	<0.001	0.203	<0.001	99.99	-0.71	
5168		0.020	0.036	0.004	12.45	0.026	<0.001	0.30	0.010	0.278	0.009	100.00	5.00	
5169		0.029	0.025	0.001	45.6	0.017	0.011	0.34	0.018	0.104	0.009	99.95	4.80	
5170		0.008	0.007	0.010	21.7	0.009	<0.001	0.02	0.001	0.040	<0.001	99.98	3.13	
5171		0.005	0.020	0.050	1.54	0.074	<0.001	0.04	<0.001	0.032	<0.001	100.00	2.47	
5172		0.007	0.021	0.047	1.36	0.146	<0.001	0.05	<0.001	0.062	<0.001	100.00	5.38	
5173		0.008	0.006	0.017	0.51	0.041	<0.001	0.02	<0.001	0.059	0.001	100.00	2.66	
5174		0.008	0.025	0.030	0.59	0.236	<0.001	0.02	<0.001	0.051	<0.001	99.99	6.79	
5175		0.008	0.015	0.026	1.09	0.319	<0.001	0.03	<0.001	0.047	<0.001	100.00	10.11	
5176		0.003	0.008	0.020	0.55	0.082	<0.001	0.02	<0.001	0.035	<0.001	99.99	6.68	
5177		0.003	0.007	0.014	1.20	0.052	<0.001	0.05	<0.001	0.032	<0.001	100.00	3.95	
5178		0.004	0.008	0.036	1.18	0.025	<0.001	0.05	<0.001	0.035	0.001	99.99	5.86	
5179		0.012	0.005	0.080	3.62	0.040	<0.001	0.06	<0.001	0.047	<0.001	100.00	5.76	
5180		0.002	0.017	0.008	0.30	0.072	<0.001	0.01	<0.001	0.055	<0.001	100.00	-0.58	89.8
5181		<0.001	0.010	0.007	0.38	0.045	<0.001	0.01	<0.001	0.030	0.001	100.00	-1.85	
5182		<0.001	0.003	0.001	1.20	0.032	<0.001	<0.01	<0.001	0.047	<0.001	100.00	-2.25	
5183		0.009	0.006	0.005	4.88	0.013	<0.001	0.01	<0.001	0.098	<0.001	100.00	-1.14	
5184		0.024	0.023	0.003	32.5	0.018	0.003	0.27	0.016	0.130	<0.001	100.00	6.24	
5185		0.038	0.014	0.017	61.9	0.002	<0.001	0.62	0.015	0.019	0.018	99.94	5.58	
5186		0.061	0.044	0.038	21.8	0.007	<0.001	0.58	0.010	0.056	0.015	100.05	7.69	
5187		0.016	0.031	0.010	1.73	0.003	<0.001	0.03	0.001	0.032	<0.001	99.99	-1.05	
5188		0.003	0.021	0.008	1.68	0.002	<0.001	0.01	<0.001	0.031	<0.001	100.00	-1.74	
5189		0.005	0.016	0.001	3.71	0.001	<0.001	0.01	<0.001	0.039	0.001	100.00	-1.74	
5190		0.007	0.006	0.002	0.71	0.002	<0.001	0.02	0.001	0.021	<0.001	100.00	-2.19	
5191		0.027	0.198	0.130	44.0	0.006	<0.001	0.60	0.016	0.059	0.022	99.98	9.07	
5192		0.031	0.102	0.158	36.0	0.004	<0.001	0.78	0.024	0.057	0.026	100.00	12.07	
5193		0.048	0.066	0.161	31.4	0.021	<0.001	0.93	0.020	0.053	0.032	100.00	13.10	
5194		0.050	0.072	0.172	28.7	0.034	<0.001	1.02	0.022	0.074	0.033	99.99	13.37	
5195		0.054	0.062	0.172	23.6	0.102	<0.001	0.95	0.035	0.085	0.032	99.97	13.61	
5196		0.030	0.036	0.144	27.6	0.091	<0.001	1.20	0.028	0.078	0.036	99.98	13.38	
5197		0.021	0.044	0.102	24.6	0.038	<0.001	0.57	0.016	0.136	0.019	99.98	11.05	
5198		0.073	0.014	0.125	20.9	0.103	0.001	0.98	0.061	0.092	0.026	99.95	13.68	
5199		0.034	<0.001	0.114	10.05	0.016	<0.001	0.14	0.013	0.476	0.007	99.97	13.55	
5200		0.034	0.174	0.063	22.8	0.004	<0.001	0.01	<0.001	0.257	0.002	99.96	9.31	

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Page: 7 - A
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- XRF21n Al2O3 %	ME- XRF21n As %	ME- XRF21n Ba %	ME- XRF21n CaO %	ME- XRF21n Cl %	ME- XRF21n Co %	ME- XRF21n Cr2O3 %	ME- XRF21n Cu %	ME- XRF21n Fe %	ME- XRF21n K2O %	ME- XRF21n MgO %	ME- XRF21n Mn %	ME- XRF21n Na2O %	ME- XRF21n Ni %
		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5201		2.01	1.55	0.046	0.176	0.33	0.008	0.008	0.0015	0.007	38.15	0.090	5.68	4.24	0.026	0.001
5202		1.19	1.31	0.041	0.147	3.54	0.009	0.010	0.0012	0.008	30.55	0.220	7.16	6.16	0.038	0.002
5203		4.95	0.51	0.012	0.013	1.39	0.005	<0.001	<0.0006	0.003	26.04	0.022	3.99	1.055	0.015	0.002
5204		1.49	1.56	0.017	0.001	0.06	0.009	<0.001	<0.0006	0.005	6.02	0.003	28.1	0.132	0.041	0.004
5205		1.01	2.60	0.036	0.006	0.18	0.018	<0.001	<0.0006	0.006	17.04	0.002	23.3	0.158	0.034	0.002
5206		1.14	0.72	0.016	<0.001	0.14	0.008	0.008	0.0014	0.001	58.07	<0.001	5.20	0.442	0.041	0.007
5207		3.54	0.10	0.004	<0.001	0.04	0.006	0.010	0.0095	0.003	65.83	<0.001	2.44	0.247	0.049	0.016
5208		3.33	0.13	0.007	0.002	0.62	0.005	0.008	<0.0006	0.003	58.70	<0.001	7.16	0.138	0.044	0.007
5209		3.18	0.09	0.004	<0.001	4.17	0.006	0.009	<0.0006	0.003	52.72	<0.001	8.86	0.406	0.031	0.006
5210		3.15	0.19	0.009	<0.001	4.31	0.007	0.006	0.1590	0.002	48.18	<0.001	11.70	0.450	0.028	0.196
5211		3.03	0.16	0.016	<0.001	2.17	0.008	0.006	0.0007	0.003	49.18	<0.001	13.10	0.412	0.026	0.006
5212		3.08	0.06	0.010	<0.001	6.86	0.003	0.006	<0.0006	0.001	42.29	<0.001	13.90	0.450	0.021	0.005
5213		2.99	0.02	0.006	<0.001	9.23	0.002	0.006	0.0009	<0.001	42.75	<0.001	11.65	0.467	0.015	0.005
5214		2.90	0.04	0.007	<0.001	4.38	0.003	0.006	0.0055	0.001	47.80	<0.001	12.30	0.433	0.024	0.011
5215		2.59	0.09	0.006	<0.001	2.99	0.008	0.006	0.0006	0.002	56.69	<0.001	8.01	0.375	0.035	0.006
5216		2.12	9.10	0.011	0.021	7.08	0.086	0.002	0.0056	0.001	8.42	0.708	22.1	0.640	0.132	0.009
5217		3.53	0.52	0.057	<0.001	0.22	0.010	0.002	<0.0006	<0.001	14.60	0.002	32.6	0.172	<0.005	0.006
5218		1.70	2.57	0.028	<0.001	0.02	0.007	0.005	0.0028	0.005	57.25	0.007	0.66	0.126	0.033	0.009
5219		0.48	2.69	0.031	<0.001	<0.01	0.006	0.008	0.0018	0.003	55.61	0.003	1.02	0.213	0.034	0.006
5220		0.85	2.19	0.013	0.042	0.13	0.005	0.050	<0.0006	0.002	36.69	0.014	11.85	2.14	0.035	0.007
5221		4.39	2.18	0.049	0.038	0.04	0.008	0.041	0.0033	0.004	57.60	0.042	2.71	2.45	0.048	0.009
5222		1.44	0.98	0.013	0.008	0.06	0.021	0.005	<0.0006	0.003	51.71	0.012	7.63	0.778	0.049	0.006
5223		0.47	1.04	0.026	0.021	0.04	0.014	0.010	0.0074	0.004	62.83	0.013	2.22	0.969	0.049	0.009
5224		2.02	1.44	0.017	0.051	0.02	0.020	0.006	<0.0006	0.003	45.91	0.107	7.48	2.63	0.049	0.008
5225		1.61	2.19	0.019	0.052	0.89	0.005	0.005	0.0011	0.003	31.53	0.084	11.75	2.45	0.033	0.006
5226		0.95	1.18	0.011	0.042	0.08	0.009	0.006	0.0019	0.004	59.14	0.043	2.20	1.440	0.044	0.008
5227		0.97	0.99	0.019	0.020	0.03	0.010	0.005	<0.0006	0.003	63.89	0.016	0.65	0.669	0.051	0.008
5228		2.06	1.46	0.016	0.024	0.01	0.004	0.004	<0.0006	0.003	36.94	0.032	10.05	1.285	0.028	0.006
5229		1.84	0.64	0.003	0.193	0.06	0.006	0.036	<0.0006	0.057	38.49	0.063	11.05	2.11	0.045	0.024
5230		2.11	0.40	0.687	0.004	0.42	0.011	0.009	0.0011	0.007	51.82	0.068	8.52	0.460	0.042	0.008
5231		1.44	3.20	0.528	<0.001	0.58	0.018	0.012	<0.0006	0.089	21.04	0.102	25.0	0.271	0.009	0.008
5232		3.88	8.80	0.048	0.368	4.14	0.027	0.008	0.0056	0.147	14.29	1.750	20.6	0.183	0.031	0.011
5233		1.24	3.28	0.274	0.008	0.79	0.021	0.006	0.0006	0.047	25.54	0.092	25.1	0.210	0.015	0.008
5234		2.62	0.85	0.284	<0.001	0.18	0.024	0.009	0.0006	0.003	41.05	0.005	18.05	0.220	0.027	0.008
5235		2.40	0.10	0.150	<0.001	0.29	0.014	0.009	0.0007	0.004	56.69	0.003	7.14	0.276	0.039	0.007
5236		3.58	1.04	0.066	<0.001	0.22	0.025	0.008	0.0011	0.002	49.42	0.005	13.25	0.294	0.030	0.007
5237		1.91	10.55	0.004	0.006	13.80	0.212	0.003	0.0148	0.006	9.38	0.472	14.40	0.686	0.287	0.013
5238		0.97	14.80	0.013	<0.001	0.01	0.011	0.005	0.0148	0.033	35.98	0.084	0.30	0.178	0.025	0.006
5239		0.88	4.57	0.031	<0.001	0.19	0.006	0.002	0.0076	0.039	48.61	0.074	0.38	0.052	0.028	0.005
5240		1.12	9.08	0.077	1.095	<0.01	0.003	0.092	0.0047	0.042	38.37	0.767	0.48	10.65	0.095	0.014

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Page: 7 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n P %	ME-XRF21n Pb %	ME-XRF21n S %	ME-XRF21n SiO2 %	ME-XRF21n Sn %	ME-XRF21n Sr %	ME-XRF21n TiO2 %	ME-XRF21n V %	ME-XRF21n Zn %	ME-XRF21n Zr %	ME-XRF21n Total %	ME-GRA05 LOI %	PUL-QC Pass75um %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.01
5201		0.030	0.498	0.042	19.90	0.009	0.001	0.04	0.001	0.426	0.005	99.32	9.73	
5202		0.030	0.021	0.026	26.4	0.002	0.003	0.02	<0.001	0.535	0.005	99.81	7.82	
5203		0.011	0.010	0.007	48.6	<0.001	<0.001	<0.01	<0.001	0.326	0.002	100.00	6.29	
5204		0.010	0.106	0.073	56.1	<0.001	<0.001	0.02	<0.001	0.056	<0.001	100.05	4.92	
5205		0.022	0.023	0.024	44.3	0.004	<0.001	0.03	<0.001	0.054	0.002	100.00	4.70	
5206		0.004	0.008	0.018	8.20	0.003	<0.001	0.02	<0.001	0.047	<0.001	100.00	1.85	
5207		0.002	0.034	0.088	4.16	0.005	0.001	0.01	0.001	0.040	0.004	99.99	-1.64	
5208		0.005	0.019	0.010	7.28	0.013	0.003	0.01	0.001	0.016	0.003	100.00	0.51	
5209		0.016	0.053	0.060	2.04	0.357	0.005	<0.01	<0.001	0.081	0.002	100.00	8.04	
5210		0.018	0.032	0.020	2.59	0.169	0.007	0.01	0.001	0.027	0.003	100.00	10.84	
5211		0.010	0.015	0.014	4.32	0.134	0.003	0.01	<0.001	0.034	0.002	100.00	9.00	
5212		0.001	0.018	0.012	1.86	0.203	0.012	<0.01	<0.001	0.034	0.002	99.98	15.81	
5213		<0.001	0.010	0.015	0.60	0.192	0.015	<0.01	<0.001	0.058	0.001	100.00	16.34	
5214		0.003	0.002	0.009	3.36	0.095	0.005	<0.01	<0.001	0.079	0.002	100.00	10.68	
5215		0.001	0.007	0.008	2.92	0.118	0.003	<0.01	<0.001	0.072	0.002	99.99	4.07	
5216		0.032	0.022	0.031	39.7	0.018	0.014	0.37	0.010	0.072	0.013	100.00	7.51	
5217		0.027	0.018	0.015	34.8	0.007	0.001	0.02	<0.001	0.022	0.002	100.00	10.51	
5218		0.016	0.044	0.097	3.88	0.015	0.001	0.09	0.003	0.049	0.006	100.00	10.24	
5219		0.013	0.067	0.090	5.56	0.012	<0.001	0.07	0.002	0.053	0.004	100.00	10.33	
5220		0.004	0.249	0.039	25.4	0.008	0.002	0.02	<0.001	0.049	0.001	100.00	4.36	97.9
5221		0.007	0.178	0.057	5.93	0.024	0.003	0.05	0.003	0.061	0.002	100.00	2.59	
5222		0.004	0.062	0.021	15.30	0.021	0.003	0.02	0.003	0.039	0.003	99.99	0.67	
5223		0.009	0.098	0.028	4.50	0.020	0.002	0.03	0.003	0.037	0.003	100.00	0.56	
5224		0.017	0.096	0.050	17.15	0.021	0.005	0.02	0.003	0.142	0.003	100.00	3.86	
5225		0.033	0.220	0.068	28.4	0.024	0.001	0.03	0.004	0.162	0.002	100.05	7.39	
5226		0.035	0.130	0.053	5.64	0.023	0.003	0.02	0.003	0.124	0.003	99.99	3.60	
5227		0.039	0.070	0.069	1.82	0.028	0.002	0.02	0.003	0.126	0.002	99.99	3.53	
5228		0.037	0.196	0.061	26.9	0.013	<0.001	0.01	0.001	0.144	0.001	100.00	6.22	
5229		0.033	0.037	0.010	27.3	0.020	0.001	0.01	<0.001	0.138	0.002	100.05	2.20	
5230		0.012	0.010	0.239	12.35	0.012	0.003	0.02	<0.001	0.061	0.003	100.00	1.76	
5231		0.104	0.019	0.232	30.6	0.016	0.002	0.13	<0.001	0.126	0.004	100.05	8.10	
5232		0.146	0.010	>5.0	33.1	0.009	0.003	0.35	0.005	0.021	0.012	>110	9.07	
5233		0.224	0.009	0.755	25.5	0.006	0.002	0.14	0.002	0.032	0.006	102.00	7.35	
5234		0.024	0.010	0.069	17.25	0.005	0.002	0.04	<0.001	0.010	0.004	100.00	3.95	
5235		0.004	0.009	0.066	10.45	0.011	0.002	<0.01	<0.001	0.012	0.004	100.00	0.10	
5236		0.007	0.005	0.025	12.40	0.016	0.001	0.02	<0.001	0.019	0.003	100.05	1.75	
5237		0.048	0.080	0.128	41.3	0.039	0.016	0.51	0.022	0.145	0.018	100.00	3.44	
5238		0.128	0.016	0.018	20.4	0.028	<0.001	0.07	0.036	0.015	0.005	99.95	12.01	
5239		0.126	0.017	0.027	15.40	0.014	0.001	0.06	0.015	0.022	0.004	100.05	9.19	
5240		0.033	0.064	0.080	9.39	0.091	0.003	0.27	0.012	0.047	0.008	100.30	8.50	

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Page: 8 - A
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

Project: TLR_FE_10_2013

CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- XRF21n Al2O3 %	ME- XRF21n As %	ME- XRF21n Ba %	ME- XRF21n CaO %	ME- XRF21n Cl %	ME- XRF21n Co %	ME- XRF21n Cr2O3 %	ME- XRF21n Cu %	ME- XRF21n Fe %	ME- XRF21n K2O %	ME- XRF21n MgO %	ME- XRF21n Mn %	ME- XRF21n Na2O %	ME- XRF21n Ni %
		0.02	0.01	0.001	0.001	0.01	0.001	0.001	0.0006	0.001	0.01	0.001	0.01	0.001	0.005	0.001
5241		0.66	0.98	0.009	0.037	0.03	0.005	0.005	0.0028	0.009	64.10	0.017	1.24	0.822	0.046	0.007
5242		2.93	3.46	0.006	0.076	<0.01	0.005	0.011	0.0041	0.008	50.07	0.221	1.32	2.44	0.043	0.007
5243		0.61	9.16	0.006	0.044	0.03	0.012	0.009	0.1225	0.010	31.37	0.423	0.95	1.600	0.032	0.118
5244		1.96	4.92	0.040	0.095	0.01	0.007	0.010	0.0055	0.009	38.16	0.257	0.81	4.46	0.034	0.010
5245		0.61	16.60	0.013	0.127	0.02	0.005	0.017	<0.0006	0.015	30.78	0.125	1.50	4.07	0.031	0.018
5246		4.87	0.60	0.006	0.010	0.05	0.004	0.007	0.0023	0.004	65.96	0.133	2.01	0.174	0.048	0.006
5247		0.78	0.82	0.001	<0.001	<0.01	0.002	0.006	0.0044	0.005	65.99	0.006	0.69	0.331	0.044	0.009
5248		0.80	0.78	0.006	<0.001	<0.01	0.002	0.004	0.0081	0.005	65.81	0.015	0.69	0.285	0.039	0.012
5249		1.30	0.52	0.005	0.001	<0.01	0.008	0.005	0.0069	0.009	67.07	<0.001	1.01	0.350	<0.005	0.004
5250		1.32	21.1	0.018	0.011	0.07	0.012	<0.001	0.0279	0.023	12.73	1.150	1.35	0.067	0.061	0.006
5251		2.70	18.25	0.010	0.006	0.03	0.011	<0.001	0.0244	0.015	18.43	1.420	1.26	0.064	0.050	0.003
5252		1.43	17.40	0.019	0.074	0.02	0.015	0.012	0.0161	0.025	19.99	1.045	0.90	0.479	0.059	0.004
5253		3.12	0.80	0.009	0.003	0.01	0.038	0.011	0.0050	0.038	65.95	0.013	1.36	1.020	<0.005	0.002
5254		4.58	0.39	0.008	0.004	0.01	0.015	0.010	<0.0006	0.046	65.67	<0.001	1.80	1.035	0.008	<0.001
5255		0.85	1.86	0.016	<0.001	0.02	0.007	0.009	0.0011	0.084	61.77	0.032	1.44	0.924	<0.005	<0.001
5256		0.56	8.60	0.049	0.006	0.05	0.028	0.006	0.0311	0.077	35.23	0.049	12.80	0.753	0.021	0.032
5257		1.48	5.01	0.017	0.010	0.46	0.010	0.006	0.0033	0.093	51.30	0.112	4.82	0.815	0.010	0.002
5258		2.45	0.36	0.006	0.004	0.05	0.015	0.008	0.0023	0.062	57.81	<0.001	8.29	0.812	<0.005	0.004
5259		3.41	0.42	0.003	0.006	0.06	0.036	0.002	0.0028	0.036	33.70	<0.001	34.1	0.556	<0.005	0.007
5260		3.35	2.13	0.006	0.004	0.65	0.066	<0.001	0.0020	0.042	14.45	<0.001	>40	0.409	<0.005	0.006
5261		4.04	3.64	0.005	0.024	2.81	0.069	<0.001	0.0066	0.047	16.20	0.142	37.0	0.469	0.007	0.007
5262		3.07	5.18	0.011	0.021	3.64	0.087	<0.001	0.0100	0.044	10.80	0.248	33.7	0.539	0.023	0.006
5263		2.06	5.10	0.010	0.030	5.98	0.089	<0.001	0.0146	0.034	13.46	0.287	28.4	0.596	0.040	0.009
5264		2.06	5.97	0.013	0.002	1.97	0.099	<0.001	0.0024	0.018	6.27	0.035	37.5	0.476	0.025	0.002
5265		1.97	5.26	0.011	0.004	1.13	0.104	<0.001	0.0018	0.030	8.83	0.003	36.3	0.459	0.022	0.004
5266		2.13	2.10	0.005	0.005	0.95	0.051	<0.001	<0.0006	0.024	20.82	0.024	37.8	0.582	0.005	0.002
5267		2.68	0.11	0.003	0.001	0.18	0.033	0.001	<0.0006	0.028	30.79	<0.001	37.8	0.478	<0.005	0.003
5268		1.92	0.32	0.004	0.002	1.20	0.045	0.005	<0.0006	0.035	37.78	<0.001	26.0	0.534	<0.005	<0.001
5269		3.19	0.55	0.005	0.001	0.24	0.028	0.009	0.0006	0.091	51.98	<0.001	10.55	0.648	0.006	0.001
5270		2.65	0.86	0.004	0.004	0.20	0.053	0.004	<0.0006	0.027	50.46	0.009	11.45	0.483	<0.005	0.001
5271		1.10	16.55	<0.001	0.004	8.95	0.013	<0.001	0.0080	0.004	6.61	0.015	18.80	0.368	0.196	0.005
5272		2.05	12.60	<0.001	0.025	18.65	0.021	<0.001	0.0103	0.008	5.02	0.559	10.95	0.370	0.293	0.005
5273		2.10	2.35	0.004	0.030	10.25	0.019	0.019	0.0046	0.155	22.98	0.233	12.55	0.126	0.047	0.020
5274		0.45	16.40	0.083	0.152	0.71	0.045	0.005	0.0106	0.032	14.38	0.712	1.72	1.380	0.031	0.015

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Page: 8 - B
 Total # Pages: 8 (A - B)
 Plus Appendix Pages
 Finalized Date: 21- OCT- 2013
 Account: AUSHUA

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CERTIFICATE OF ANALYSIS BU13182031

Sample Description	Method Analyte Units LOR	ME-XRF21n P %	ME-XRF21n Pb %	ME-XRF21n S %	ME-XRF21n SiO2 %	ME-XRF21n Sn %	ME-XRF21n Sr %	ME-XRF21n TiO2 %	ME-XRF21n V %	ME-XRF21n Zn %	ME-XRF21n Zr %	ME-XRF21n Total %	ME-GRA05 LOI %	PUL-QC Pass75um %
		0.001	0.001	0.001	0.01	0.001	0.001	0.01	0.001	0.001	0.001	0.01	0.01	0.01
5241		0.017	0.011	0.032	1.22	0.038	0.003	0.04	0.002	0.051	0.004	99.99	3.29	
5242		0.013	0.008	0.024	15.10	0.037	0.002	0.10	0.002	0.046	0.007	100.05	4.47	
5243		0.017	0.012	0.017	37.5	0.067	0.002	0.23	0.006	0.040	0.015	100.05	4.03	
5244		0.014	0.009	0.026	26.4	0.025	0.003	0.17	0.003	0.231	0.010	99.82	5.81	
5245		0.035	0.008	0.012	22.2	0.009	0.002	0.78	0.011	0.201	0.021	100.25	8.69	
5246		0.051	0.013	<0.001	3.07	0.009	0.002	0.02	0.002	0.033	0.004	100.00	-0.69	
5247		0.020	0.005	0.023	1.26	0.091	0.001	0.04	0.006	0.059	0.002	99.99	1.97	
5248		0.030	0.003	0.031	1.86	0.113	<0.001	0.07	0.011	0.054	0.002	100.00	1.64	
5249		0.019	0.003	0.060	0.59	0.075	<0.001	0.02	0.004	0.051	<0.001	100.00	1.07	
5250		0.060	0.010	0.026	47.8	0.009	<0.001	0.76	0.056	0.022	0.020	100.05	8.98	
5251		0.049	0.007	0.036	43.5	0.017	<0.001	0.68	0.036	0.020	0.019	100.00	7.95	
5252		0.078	0.007	0.043	42.7	0.020	<0.001	0.68	0.029	0.025	0.021	99.97	7.31	
5253		0.053	<0.001	0.012	1.08	0.085	<0.001	0.02	0.003	0.042	<0.001	100.00	0.60	
5254		0.052	<0.001	0.027	0.52	0.048	<0.001	<0.01	<0.001	0.060	<0.001	99.99	1.54	
5255		0.150	<0.001	0.028	3.13	0.017	<0.001	0.04	0.002	0.163	<0.001	100.00	3.10	
5256		0.218	0.032	1.685	16.90	0.009	<0.001	0.42	0.004	0.552	0.006	103.70	7.72	
5257		0.144	0.011	0.531	7.46	0.012	<0.001	0.25	0.004	0.295	0.004	100.00	5.18	
5258		0.029	<0.001	0.704	1.47	0.013	<0.001	0.01	<0.001	0.156	<0.001	100.00	3.89	
5259		0.015	0.003	2.31	0.90	0.005	<0.001	0.02	<0.001	0.083	<0.001	105.70	15.25	
5260		0.087	0.006	3.08	10.05	0.001	<0.001	0.09	<0.001	1.115	<0.001	107.35	20.83	93.3
5261		0.075	0.009	4.34	14.60	0.001	0.001	0.18	0.002	0.518	<0.001	109.70	15.73	
5262		0.080	0.009	2.30	22.9	<0.001	<0.001	0.32	0.003	>1.50	<0.001	104.55	13.72	
5263		0.090	0.010	2.92	20.9	<0.001	0.002	0.30	0.003	>1.50	<0.001	102.50	10.79	
5264		0.116	0.013	2.05	23.9	<0.001	<0.001	0.26	<0.001	>1.50	<0.001	103.00	15.62	
5265		0.096	0.012	2.73	23.7	0.001	<0.001	0.22	<0.001	>1.50	<0.001	105.80	16.44	
5266		0.022	0.004	2.35	8.92	0.003	<0.001	0.12	<0.001	>1.50	<0.001	105.20	16.74	
5267		0.020	<0.001	2.42	0.10	0.008	<0.001	<0.01	<0.001	0.077	<0.001	106.05	16.94	
5268		0.018	0.002	3.87	0.85	0.010	0.006	<0.01	<0.001	0.105	<0.001	105.85	12.81	
5269		0.023	0.002	4.85	6.12	0.015	<0.001	0.05	<0.001	0.083	<0.001	>110	6.04	
5270		0.007	0.006	2.40	10.60	0.104	<0.001	0.03	<0.001	0.087	<0.001	105.70	3.42	
5271		0.060	0.006	0.051	37.6	0.031	0.024	0.67	0.010	0.029	0.024	99.98	6.80	
5272		0.041	0.010	0.178	44.9	0.026	0.022	0.72	0.010	0.013	0.020	100.00	2.93	
5273		0.020	0.021	>5.0	32.4	0.007	0.007	0.15	0.008	0.015	0.008	>110	9.86	
5274		0.036	<0.001	1.690	46.7	0.001	<0.001	0.50	0.008	0.058	0.010	103.90	9.89	

***** See Appendix Page for comments regarding this certificate *****

