CERTIFICATE OF TESTING

Samples were taken and tested to determine total alkalis following the method given in BS EN 196-2:2013.

Aboño GGBS

Acid Soluble Alkalis

Sample Date	Na_2O	K_2O	Na_2O Equiv.	R.Mean Last 25 Na_2O Equiv.
12/10/19	0.30	0.45	0.60	0.54
13/10/19	0.30	0.46	0.60	0.55
18/10/19	0.29	0.45	0.59	0.55
20/10/19	0.29	0.44	0.58	0.55
26/10/19	0.32	0.44	0.61	0.56
27/10/19	0.34	0.46	0.64	0.56
01/11/19	0.32	0.45	0.62	0.57
07/11/19	0.29	0.44	0.58	0.57
08/11/19	0.28	0.44	0.57	0.58
09/11/19	0.30	0.44	0.59	0.58
10/11/19	0.25	0.43	0.53	0.58
17/11/19	0.27	0.42	0.55	0.58
18/11/19	0.29	0.42	0.57	0.58
23/11/19	0.30	0.43	0.58	0.58
24/11/19	0.31	0.43	0.59	0.58
25/11/19	0.29	0.42	0.57	0.58
30/11/19	0.29	0.43	0.57	0.58
14/12/19	0.31	0.42	0.59	0.58
15/12/19	0.31	0.43	0.59	0.58
16/12/19	0.29	0.43	0.57	0.59
25/12/19	0.31	0.43	0.59	0.59
26/12/19	0.29	0.42	0.57	0.58

Sample Date	Na_2O	K_2O	Na_2O Equiv.	R.Mean Last 25 Na_2O Equiv.
06/06/19	0.22	0.42	0.50	0.46
07/06/19	0.22	0.44	0.51	0.47
12/06/19	0.23	0.39	0.49	0.47
13/06/19	0.24	0.40	0.50	0.47
14/06/19	0.21	0.41	0.48	0.47
20/06/19	0.20	0.42	0.48	0.47
21/06/19	0.23	0.41	0.50	0.47
22/06/19	0.24	0.41	0.51	0.48
26/06/19	0.23	0.41	0.50	0.48
27/06/19	0.23	0.41	0.50	0.48
28/06/19	0.20	0.40	0.46	0.48
05/07/19	0.19	0.34	0.41	0.48
07/07/19	0.21	0.36	0.45	0.48
15/07/19	0.20	0.41	0.47	0.49
25/07/19	0.15	0.40	0.41	0.49
26/07/19	0.20	0.40	0.46	0.48
31/07/19	0.18	0.41	0.45	0.48
05/08/19	0.20	0.42	0.48	0.48
06/08/19	0.24	0.42	0.52	0.48
10/08/19	0.22	0.40	0.48	0.48
11/08/19	0.24	0.40	0.50	0.48
17/08/19	0.22	0.41	0.49	0.48
18/08/19	0.22	0.41	0.49	0.48
21/08/19	0.22	0.42	0.50	0.48
26/08/19	0.25	0.42	0.53	0.48
27/08/19	0.23	0.44	0.52	0.48
30/08/19	0.30	0.41	0.57	0.49
31/08/19	0.33	0.41	0.60	0.49
07/09/19	0.27	0.41	0.54	0.49
08/09/19	0.22	0.41	0.49	0.49
11/09/19	0.28	0.42	0.56	0.50
12/09/19	0.28	0.42	0.56	0.50
15/09/19	0.30	0.46	0.60	0.50
16/09/19	0.26	0.44	0.55	0.50
19/09/19	0.27	0.42	0.55	0.51
25/09/19	0.28	0.48	0.60	0.51
26/09/19	0.27	0.48	0.59	0.52
05/10/19	0.26	0.46	0.56	0.52
06/10/19	0.30	0.47	0.61	0.53
07/10/19	0.30	0.47	0.61	0.54

The GGBS contained no additional materials other than those permitted. The above results and other tests demonstrate the conformity of the material sold during the month to the requirements of EN 15167-1:2006

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L Bontoft - Technical Manager GGBS