LAFARGE NORTH AMERICA

Cement

FLY ASH TEST REPORT

Analysis by:	Edmonton Mortar Lab
Sample from :	Keephills Power Plant
Average Analysis:	September 2021
Test Report Number	10-21 CSA

Chemical Analysis

Silicon Dioxide (SiO_2)	**59.1**	%
Aluminum Oxide (Al_2O_3)	**23.0**	%
Iron Oxide (Fe_2O_3)	**3.8**	%
Total (SiO_2) + (Al_2O_3) + (Fe_2O_3)	**85.9**	**%**
Sulphur Trioxide (SO_3)	**0.1**	%
Calcium Oxide (CaO)	**9.3**	%
Magnesium Oxide	**1.2**	%
Moisture Content	**0.01**	%
Loss on Ignition	**0.74**	%
Total Alkalies as Equivalent Na_2O	**3.46**	%

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	**21.0**	%
Strength Activity Index with Portland Cement		
% of Control at 28 Days *(previous month's result)*	**95**	%
Water Requirement, Percent of Control	**94**	%
Autoclave Expansion	**-0.02**	%
Density	**2.06**	g/cm^3

We hereby certify that the composite fly ash sample above meets the chemical and physical requirements of CAN/CSA A3001 for Type F Fly Ash.

Certified : Robert S. Shoogren

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