



**Cement**

**FLY ASH TEST REPORT**

Analysis by: Edmonton Mortar Lab  
Sample from : Keephills Power Plant  
Average Analysis: January 2021  
Test Report Number 2-21 CSA

**Chemical Analysis**

Silicon Dioxide (SiO <sub>2</sub> )	<b>58.7 %</b>
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	<b>23.7 %</b>
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	<b>3.5 %</b>
Total (SiO <sub>2</sub> ) + (Al <sub>2</sub> O <sub>3</sub> ) + (Fe <sub>2</sub> O <sub>3</sub> )	<b>85.9 %</b>
Sulphur Trioxide (SO <sub>3</sub> )	<b>0.2 %</b>
Calcium Oxide (CaO)	<b>8.9 %</b>
Magnesium Oxide	<b>1.4 %</b>
Moisture Content	<b>0.18 %</b>
Loss on Ignition	<b>1.01 %</b>
Total Alkalies as Equivalent Na <sub>2</sub> O	<b>3.50 %</b>

**Physical Analysis**

Fineness Retained on 45 um (No. 325 Sieve)	<b>14.8 %</b>
Strength Activity Index with Portland Cement	
% of Control at 28 Days ( <i>previous month's result</i> )	<b>87 %</b>
Water Requirement, Percent of Control	<b>95 %</b>
Autoclave Expansion	<b>-0.02 %</b>
Density	<b>2.04 g/cm<sup>3</sup></b>

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. Sheehey

**WESTERN REGION**

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