

Cement

FLY ASH TEST REPORT

Analysis by:	Lafarge Seattle Concrete Lab
Sample from :	Centralia Power Plant
Average Analysis:	December 2023
Test Report Number	1-24 F CSA

Chemical Analysis

		Limits
Silicon Dioxide (SiO ₂)	48.2 %	
Aluminum Oxide (Al ₂ O ₃)	17.4 %	
Iron Oxide (Fe ₂ O ₃)	5.7 %	
Sulphur Trioxide (SO ₃)	1 %	
Calcium Oxide (CaO)	14.7 %	15% Max - CSA
Magnesium Oxide	4.0 %	
Moisture Content	0.2 %	
Loss on Ignition	0.38 %	
Total Alkalies as Equivalent Na ₂ O	4.07 %	

Physical Analysis

Fineness Retained on 45 um (No. 325 Sieve)	11.0	%	34% Max - CSA
Strength Activity Index with Portland Cement			
% of Control at 28 Days (previous month's result)	105	%	
Water Requirement, Percent of Control	91	%	
Density	2.64	Mg/m 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.

A.J. Shagnen Certified .

Rob Shogren Technical Director

WESTERN REGION

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