



Lakeland Industry and Community Association

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August 8, 2018

Alberta Environment and Parks (AEP)
Environmental Response Centre
1st fl Twin Atria Building
4999 - 98 Avenue
Edmonton, AB T6B 2X3
erc.environment@gov.ab.ca

Subject: Reference 341965 - Elevated Fine Particulate Matter (PM_{2.5}) Concentrations in Cold Lake

Below is a summary of exceedances of the 1-hour Alberta Ambient Air Quality Guideline for fine particulate matter (80 µg/m³) measured by LICA; all were recorded on August 8 at the Cold Lake continuous air monitoring station during calm wind conditions:

AQM Station	Time	Concentration	Wind Direction	Wind Speed
Cold Lake	01:00 - 02:00	94 µg/m ³	246	5.1
Cold Lake	02:00 - 03:00	94 µg/m ³	246	4.0
Cold Lake	03:00 - 04:00	91 µg/m ³	236	3.7
Cold Lake	04:00 - 05:00	93 µg/m ³	233	2.9
Cold Lake	05:00 - 06:00	85 µg/m ³	220	1.8
Cold Lake	06:00 - 07:00	88 µg/m ³	243	4.2

LICA's measurements of elevated fine particulate matter were as predicted in modelling by the BlueSky Canada Smoke Forecasting System. Smoke from large forest fires burning in British Columbia and Western Alberta is being carried into the region by westerly synoptic wind flows. Elevated particulate matter is expected to remain in the air quality forecast for the next several days.

If you have any questions, please don't hesitate to contact me.

Respectfully,

A handwritten signature in blue ink that reads "Michael Bisaga".

Michael Bisaga
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cc (by email): LICA Office, Kristen Berezanski, Megan Tilley, Elizabeth Michaud, Jean-Michel Wan, Tim Wozney, Katherine Bibby, Monty Moore, Neil Young, Roger Boucher, Alex Demmons