

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1269-03
FROM	Dianne Theriault	SHIFT:	0730 to 1130
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	6 th February, 2009		Terry Smith, ALL-TECH
		STPA NO.	TP2-0101

**SUBJECT: 5th February, 2009, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Material Processing Facility
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 5th of February, 2009. Tyler Rowe and Reg Peters, of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Mainly cloudy, snow
- Temperature: approximately -6°C
- Wind Direction: Northeast

Comments: *ALL-TECH was on-Site at 0730 hours and sampling began as soon as there was site activity. Sampling was put on standby at 0930 hours due to precipitation, and later cancelled at 1130 hours. Air monitoring was performed during AECOM's construction activities.*

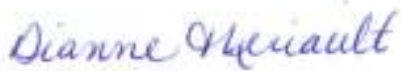
All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

All downwind and upwind measurements of Total Volatile Organic Compounds (TVOC) were below the established Site Action Level for this parameter of 0.66 ppm. Each measurement is the average of a 15 minute sample. A minimum of 2 samples were taken downwind and 1 sample upwind every hour. All measurements were found to be below the detection limit of the instrument. Levels above detection limit will be noted in the table below.

Due to operational criteria, during periods of precipitation (snow and rain) and high humidity, TVOC sampling is halted and resumes after the precipitation has ended.

This report has been prepared by Tyler Rowe and reviewed by Dianne Theriault. If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,



Dianne Theriault, B.Tech
Environmental Technologist
ALL-TECH Environmental Services Cape Breton Ltd.

Copied via e-mail:

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Real-time Airborne PM₁₀ Concentration Results
Sydney Tar Ponds Agency – Material Processing Facility
5th February, 2009

Sample No. & Air Monitoring Location	Time of Day	PM₁₀ Action Level (µg/m³)	Average Result (µg/m³)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
1 Inglis Street, 150m North of Spar Road	0800	155	19	Northeast	Upwind	Background	No observations seen to affect sampling integrity
2 Intercolonial Street, 90m South of Ferry Street	0800	155	16	Northeast	Downwind	No activity observed on site	No observations seen to affect sampling integrity
3 Intercolonial Street, 90m South of Ferry Street	0845	155	9	Northeast	Downwind	Machine moving material	No observations seen to affect sampling integrity
4 Inglis Street, 150m North of Spar Road	0900	155	9	Northeast	Upwind	Background	No observations seen to affect sampling integrity
5 Intercolonial Street, 90m South of Ferry Street	0900	155	11	Northeast	Downwind	Machine moving material	No observations seen to affect sampling integrity

Notes: Air sample duration for each monitoring event was 15 minutes.

Comparison of Downwind Daily Results for Dust Budget

Location	Duration	Dust Budget Value ($\mu\text{g}/\text{m}^3$)	Dust Budget Exceedance Value ($\mu\text{g}/\text{m}^3$)
Inglis Street, 50m North of Spar Road	0800 to 0859	13	990
Inglis Street, 50m North of Spar Road	0900 to 0959	35	990

VOC Monitoring

Monitoring Method	Yes	No
Sustained Odours Observed		•
P.I.D. Required	•	