

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1194-01
FROM	Dianne Theriault	SHIFT:	1230 to 1715
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA Wilfred Kaiser, STPA Terry Smith, ALL-TECH
FAX	(902) 539-3381		
DATE	4 th September, 2008	STPA NO.	TP2-0005

**SUBJECT: 2nd September, 2008, Real-time Air Monitoring Results (Revised)
Sydney Tar Ponds Agency – Materials Processing Facility
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 2nd of September, 2008. Kelly Morrison, not Reg Peters as previously reported, and Tyler Rowe of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Sunny with cloudy periods
- Temperature: approximately 20°C
- Wind Direction: Northeast

Comments: *ALL-TECH was on-Site at 1230 and sampling began as soon as there was site activity. Air monitoring was performed during EarthTech'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 – Materials Processing Facility
2nd September, 2008

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, 50m North of Spar Road	1300	155	11	Northeast	Upwind	Background	No observations seen to affect sampling integrity
2 30m East of Ferry Street bridge	1345	155	19	Northeast	Downwind	Excavator operating	No observations seen to effect sampling integrity
3 Inglis Street, 50m North of Spar Road	1400	155	25	Northeast	Upwind	Background	No observations seen to affect sampling integrity
4 30m East of Ferry Street bridge	1400	155	23	Northeast	Downwind	Bobcat operating	No observations seen to effect sampling integrity
5 30m East of Ferry Street bridge	1445	155	11	Northeast	Downwind	Bobcat operating	No observations seen to effect sampling integrity
6 Inglis Street, 50m North of Spar Road	1500	155	16	Northeast	Upwind	Background	No observations seen to affect sampling integrity
7 30m East of Ferry Street bridge	1500	155	13	Northeast	Downwind	Bobcat operating	No observations seen to effect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	PM ₁₀ Action Level (µg/m ³)	Average Result (µg/m ³)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
8 30m East of Ferry Street bridge	1530	155	21	Northeast	Downwind	Bobcat operating	No observations seen to effect sampling integrity
9 Inglis Street, 50m North of Spar Road	1600	155	18	Northeast	Upwind	Background	No observations seen to affect sampling integrity
10 30m East of Ferry Street bridge	1600	155	15	Northeast	Downwind	Bobcat operating	No observations seen to effect sampling integrity
11 30m East of Ferry Street bridge	1630	155	18	Northeast	Downwind	No activity observed on-site	No observations seen to effect 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 ($\mu\text{g}/\text{m}^3$)
30m East of Ferry Street bridge	1300 to 1359	19	990
30m East of Ferry Street bridge	1400 to 1459	36	990
30m East of Ferry Street bridge	1500 to 1559	53	990
30m East of Ferry Street bridge	1600 to 1659	70	990

VOC Monitoring

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