

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1244-11
FROM	Dianne Theriault	SHIFT:	0730 to 1130
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	15 th December, 2008		Terry Smith, ALL-TECH
		STPA NO.	COCW-0026

**SUBJECT: 14th December, 2008, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Coke Ovens Vertical Cutoff Walls
FINAL REPORT**

Attached is a summary of Real-time particulate (as PM₁₀) results for air monitoring performed on the 14th of December, 2008. 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 sunny
- Temperature: approximately -5°C
- Wind Direction: Northwest

Comments: *ALL-TECH was on-Site at 0730 and sampling began at 0800. Air monitoring was stopped at 1130 since there were no workers or activity on site.*

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 – Coke Ovens Vertical Cutoff Walls
14th December, 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 Spar Rd., 20m East of Milcreek gate	0800	155	6	Northwest	Upwind	Background	No observations seen to affect sampling integrity
2 Railroad tracks, 200m Southwest of Spar Road	0800	155	6	Northwest	Downwind	No activity observed on site	No observations seen to affect sampling integrity
3 Railroad tracks, 200m Southwest of Spar Road	0845	155	4	Northwest	Downwind	No activity observed on site	No observations seen to affect sampling integrity
4 Spar Rd., 20m East of Milcreek gate	0900	155	3	Northwest	Upwind	Background	No observations seen to affect sampling integrity
5 Railroad tracks, 200m Southwest of Spar Road	0900	155	3	Northwest	Downwind	No activity observed on site	No observations seen to affect sampling integrity
6 Railroad tracks, 200m Southwest of Spar Road	0945	155	4	Northwest	Downwind	No activity observed on site	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 ($\mu\text{g}/\text{m}^3$)
Railroad tracks, 200m Southwest of Spar Road	0800 to 0859	5	990
Railroad tracks, 200m Southwest of Spar Road	0900 to 0959	9	990

VOC Monitoring

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