

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1244-13
FROM	Dianne Theriault	SHIFT:	0630 to 1030
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA
FAX	(902) 539-3381		Wilfred Kaiser, STPA
DATE	17 th December, 2008		Terry Smith, ALL-TECH
		STPA NO.	COCW-0028

**SUBJECT: 16th 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 16th 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:

- Cloudy, rain
- Temperature: approximately 10°C
- Wind Direction: Southwest

Comments: *ALL-TECH was on-Site at 0630 and sampling began as soon as there was site activity. Air monitoring was performed during EarthTech's construction activities. Sampling was put on stand-by at 0830 and cancelled at 1030 due to ongoing precipitation.*

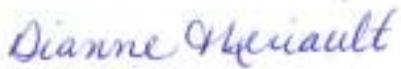
All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

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
16th December, 2008

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
1 30m West of Victoria Road	0700	155	17	Southwest	Upwind	Background	No observations seen to affect sampling integrity
2 120m Southwest of Spar Road, Lingan Road intersection	0700	155	17	Southwest	Downwind	No activity observed on site	No observations seen to effect sampling integrity
3 120m Southwest of Spar Road, Lingan Road intersection	0730	155	13	Southwest	Downwind	No activity observed on site	No observations seen to effect sampling integrity
4 30m West of Victoria Road	0800	155	13	Southwest	Upwind	Background	No observations seen to affect sampling integrity
5 120m Southwest of Spar Road, Lingan Road intersection	0800	155	9	Southwest	Downwind	Machinery moving	No observations seen to affect sampling integrity
6 120m Southwest of Spar Road, Lingan Road intersection	0845	155	8	Southwest	Downwind	Machinery moving	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 ($\mu\text{g}/\text{m}^3$)
120m Southwest of Spar Road, Lingan Road intersection	0700 to 0759	15	990
120m Southwest of Spar Road, Lingan Road intersection	0800 to 0859	24	990

VOC Monitoring

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