

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1234-03
FROM	Dianne Theriault	SHIFT:	0730 to 1745
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA Wilfred Kaiser, STPA Terry Smith, ALL-TECH
FAX	(902) 539-3381		
DATE	17 th November, 2008	STPA NO.	COCW-0003

**SUBJECT: 16th November 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 November, 2008. Dianne Theriault and Jennifer Andrews of ALL-TECH Environmental Services Cape Breton Limited (ALL-TECH), performed all air monitoring activities.

Weather conditions on the day of sampling:

- Cloudy with fog in the morning and early afternoon
- Temperature: approximately 16°C
- Wind Direction: Southwest

Comments: *ALL-TECH was on-Site at 0730, but sampling remained on standby until 1530 due to high humidity. Air monitoring was performed during EarthTech's construction activities.*

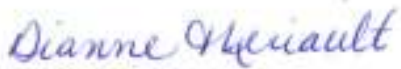
All downwind and upwind measurements of PM₁₀ were below the established Site Action Level for this parameter of 155 µg/m³.

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 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 November, 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 70m East of Victoria Road bridge, along Sparr Road	1550	155	11	Southwest	Downwind	Excavator and dozer operating	No observations seen to affect sampling integrity
2 70m East of Victoria Road bridge, along Sparr Road	1605	155	12	Southwest	Downwind	Excavator and dozer operating	No observations seen to effect sampling integrity
3 5m East of Victoria Road bridge along railway	1625	155	13	Southwest	Upwind	Background	No observations seen to effect sampling integrity
4 100m East of Victoria Road bridge, along Sparr Road	1630	155	16	Southwest	Downwind	Excavator operating	No observations seen to affect sampling integrity
5 5m East of Victoria Road bridge along railway	1700	155	21	Southwest	Upwind	Background	No observations seen to effect sampling integrity
6 100m East of Victoria Road bridge, along Sparr Road	1700	155	25	Southwest	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 ($\mu\text{g}/\text{m}^3$)
70m East of Victoria Road bridge, along Sparr Road	1500 to 1559	11	990
70m East of Victoria Road bridge, along Sparr Road / 100m East of Victoria Road bridge, along Sparr Road	1600 to 1659	25	990
100m East of Victoria Road bridge, along Sparr Road	1700 to 1759	50	990

VOC Monitoring

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