

MEMORANDUM

TO	Dawn MacNeil, STPA	FILE NO.	S-1293-11
FROM	Dianne Theriault	SHIFT:	0630 to 1830
TEL	(902) 539-3012	CC:	Shawn Bernon, STPA Wilfred Kaiser, STPA Terry Smith, ALL-TECH
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DATE	20 th April, 2009	STPA NO.	CO2-NSL-0014

**SUBJECT: 14th April, 2009, Real-time Air Monitoring Results
Sydney Tar Ponds Agency – Tar Cell, Sysco Site
FINAL REPORT**

Attached is a summary of Real-time Total Volatile Organic Compounds (TVOC) results for air monitoring performed on the 14th of April, 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:

- Cloudy with sunny periods, flurries
- Temperature: approximately 1°C
- Wind Direction: West

Comments: *ALL-TECH was on-Site at 0630 hours and sampling began as soon as there was site activity, but was later put on standby between 0800 and 0900 hours due to precipitation. Air monitoring was performed during SLR's construction activities.*

All downwind and upwind measurements of TVOCs 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 TVOC Concentration Results
 Sydney Tar Ponds Agency – Tar Cell, Sysco Site
 14th April, 2009**

Sample No. & Air Monitoring Location	Time of Day	TVOC Action Level (ppm)	Average Result (ppm)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
1 60m Northeast of railway office	0700	0.66	ND ⁽¹⁾	West	Upwind	Background	No observations seen to affect sampling integrity
2 100m Northwest of former Sysco scale house	0700	0.66	ND	West	Downwind	No activity observed on site	No observations seen to affect sampling integrity
3 100m Northwest of former Sysco scale house	0730	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
4 60m Northeast of railway office	0900	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
5 100m Northwest of former Sysco scale house	0900	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
6 100m Northwest of former Sysco scale house	0935	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	TVOC Action Level (ppm)	Average Result (ppm)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
7 60m Northeast of railway office	1000	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
8 100m Northwest of former Sysco scale house	1000	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
9 100m Northwest of former Sysco scale house	1025	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
10 60m Northeast of railway office	1100	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
11 100m Northwest of former Sysco scale house	1100	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
12 100m Northwest of former Sysco scale house	1130	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
13 60m Northeast of railway office	1200	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	TVOC Action Level (ppm)	Average Result (ppm)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
14 100m Northwest of former Sysco scale house	1200	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
15 100m Northwest of former Sysco scale house	1245	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
16 60m Northeast of railway office	1300	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
17 100m Northwest of former Sysco scale house	1300	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
18 100m Northwest of former Sysco scale house	1340	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
19 60m Northeast of railway office	1400	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
20 100m Northwest of former Sysco scale house	1400	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	TVOC Action Level (ppm)	Average Result (ppm)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
21 100m Northwest of former Sysco scale house	1415	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
22 60m Northeast of railway office	1500	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
23 100m Northwest of former Sysco scale house	1500	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
24 100m Northwest of former Sysco scale house	1535	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
25 60m Northeast of railway office	1600	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
26 100m Northwest of former Sysco scale house	1600	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
27 100m Northwest of former Sysco scale house	1635	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity

Sample No. & Air Monitoring Location	Time of Day	TVOC Action Level (ppm)	Average Result (ppm)	Wind Direction	Relative Position	Description of Activity	Observations that may affect sample
28 60m Northeast of railway office	1700	0.66	ND	West	Upwind	Background	No observations seen to affect sampling integrity
29 100m Northwest of former Sysco scale house	1700	0.66	ND	West	Downwind	Dump trucks operating	No observations seen to affect sampling integrity
30 100m Northwest of former Sysco scale house	1745	0.66	ND	West	Downwind	No activity observed on site	No observations seen to affect sampling integrity

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

(1) ND denotes that the concentration was below the detection level for this instrument.

VOC Monitoring

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