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AIR MONITORING RISK ASSESSMENT CRINGILA PUBLIC SCHOOL - NW HOTSPOT 35 SHEFFIELD STREET CRINGILA NSW 2502

Weekly Report 12/11/18 - 16/11/18

Cringila Public School

November 2018 C107826: J153825: RC

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Document Control

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1	Electronic	NSW Department of Education	Greg Mott Senior Group Leader





Air Monitoring Risk Assessment

Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502

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1.INTRODUCTION

At the request of the Department of Education, Greencap were engaged to undertake air monitoring utilising real-time monitoring devices at Cringila Public School, 35 Sheffield Street Cringila NSW 2502. The aim of this monitoring program was primarily to investigate concerns raised by school employees and those of the public regarding the potential exposure to air pollutants originating from the pre-identified subsurface hotspot occurring in this particular area of the school.

Based on the correspondence provided by the NSW Department of Education, the objectives of this assessment are as follows:

- Undertake an assessment of the air quality at the source of the subsurface hotspot and to determine the extent of associated atmospheric pollutants (gases) distribution within Cringila Public School;
- Pollutants to be monitored using real-time monitors to provide a profile of air quality i.e. carbon monoxide (CO), carbon dioxide (CO₂), volatile organic compounds, sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄ – LEL), oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂).
- Real time monitoring was to provide a snapshot to determine the extent of atmospheric pollutant levels on School grounds.

This report presents the results relating to an ongoing air monitoring investigation carried out in the North-Western Hotspot, situated on the Cringila Public School grounds, located at 35 Sheffield Street, Cringila NSW 2502.

2.ASSESSMENT CRITERIA

As demonstrated in Table 1 below, the assessment criteria referenced as part of this project is based on several sources as this monitoring assessment had to consider numerous factors including outside air exposure, indoor air quality exposure and personal worker exposure. These reference sources included *Approved Methods for Modelling and Assessment of Air Pollutants in NSW* (NSW EPA 2016), *Workplace Exposure Standards for Airborne Contaminants* (SWA, 2013), *ASHRAE Standard 62.1 Ventilation for Acceptable Indoor Air Quality* (2016), or equivalent publications as a point of reference.

For the purpose of this assessment, these criteria values highlighted in bold will be referenced in this report as they are deemed to be the most conservative levels based on the multifaceted monitoring works undertaken. It is however important to note that WES do not apply to children. Reference to WES is purely for guidance purposes only.





POLLUTANT	AVERAGING PERIOD	CRITERIA	SOURCE
Carbon monoxide (CO)	8-hours	9 ppm	NSW EPA 2016 ^a
		9 ppm	ASHRAE Standard
			62.1-2016
		30 ppm	SWA 2013 ^b
Carbon dioxide (CO ²)	8-hours	5000 ppm	SWA 2013 ^b
		Not greater than 700	ASHRAE Standard
		ppm above local	62.1-2016
		outdoor concentration levels	
Sulphur dioxide (SO ²)	24-hours 0.08 ppm (8 ppm)		NSW EPA 2016 ^a
	8-hours	2 ppm (5 ppm STEL) ^d	SWA 2013 ^b
Hydrogen sulphide (H ² S)	8-hour	10 ppm (15 ppm STEL) ^d	SWA 2013
		0.9 ppm (Peak)	NSW EPA 2016
Nitric oxide (NO)	8-hour	25 ppm	SWA 2013
Nitrogen dioxide (NO ²)	1-hour	0.12 ppm (12 ppm)	NSW EPA 2016 ^a
	8-hours	3 ppm (5 ppm STEL) ^d	SWA 2013 ^b
Oxygen (O²)	-	19.5-23.5%	SWA 2011 ^c
Volatile organic compounds (VOC)	-	Contaminant specific	-
Methane (as LEL)	-	<5%	SWA 2011 ^c

Sources:

a - NSW EPA 2016, Approved methods for the Modelling and Assessment of Air Pollutants in New South Wales, NSW Environment Protection Authority.

b - SWA 2013, Workplace Exposure Standards for Airborne Contaminants, Safe Work Australia. These concentrations are based on Time Weighted Averages (TWA) for an 8-hour shift.

c - SWA 2011, Confined Spaces Code of Practice, Safe Work Australia. These concentrations are based on conditions that do not pose an immediate risk to human health.

d - Short term exposure limit (STEL) means the average airborne concentration of a substance calculated over a 15minute period. The STEL should not be exceeded at any time during a normal eight hour working day.



3. AIR QUALITY MONITORING METHODOLOGY

3.1 SPOT CHECK / REAL TIME AIR QUALITY MONITORING

'Spot-check' air quality monitoring at locations within the vicinity of the subsurface hotspot area was conducted to determine the extent of atmospheric pollutants (gases) associated with the hotspot. Pollutants monitored using real-time Multi-Gas Detectors provided and continue to provide a profile of air quality which include: carbon monoxide (CO), carbon dioxide (CO₂), volatile organic compounds (VOCs), sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄) as LEL, oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂).

These air quality parameters were recorded at specific nominated locations within the northwest hotspot area over an interval of up to 15 minutes at each location. Monitoring included sensitive receptors such as locations within the school boundary and adjacent neighbouring residences in order to effectively delineate the extent and distribution of these atmospheric pollutants. This will be performed at the digression of the Greencap Consultant on site.

In this assessment, RAE Systems Multi RAE Gas Detectors were used with specific sensor configurations to target the nominated pollutants/gases to be assessed against the Air Quality Monitoring Criteria detailed below in Table 2. Each unit will be configured to log data at one second intervals, and upper and lower alarm limits will be set to reflect the adopted air monitoring criteria.

UNIT	SENSOR	RANGE	RESOLUTION
Multi RAE Lite – Unit 1	SO ₂	0 to 20 ppm	0.1 ppm
	NO	0 to 250 ppm	0.5 ppm
	NO ₂	0 to 20 ppm	0.1 ppm
	O ₂	To 30% (Volume)	0.1% (Volume)
	VOCs	0 to 1,000 ppm	1 ppm
Multi RAE Lite – Unit 2	СО	0 to 200 ppm	0.1 ppm
	CO ₂	0 to 50,000 ppm	100 ppm
	H ₂ S	0 to 100 ppm	0.1 ppm
	LEL (Methane)	0 to 100%	1%

Table 2 Multi-Gas Detector Sensor Specifications

3.2 MONITORING LOCATIONS

Spot measurements were taken within the North-Western Hotspot area and at surrounding locations to determine whether potential air pollutants from the subsurface hotspot were present. These monitoring locations included the following:

- A-01 General Background
- A-02 NW Hotspot Concrete Cap Surface
- A-03 NW Hotspot Small Mound
- A-04 NW Hotspot NE fence line
- A-05 Exclusion Area Fence Line East of Hotspot (Approx. 10m)
- A-06 Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)
- A-07 Exclusion Area Fence Line South of Hotspot (Approx. 30m)
- A-08 Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)





4. SPOT CHECK / REAL TIME AIR MONITORING RESULTS

The atmospheric pollutant results for each monitoring event are summarised below in Table 3, and locations can be viewed in **Appendix A**.

Date o	Date of Monitoring: Monday 12 th November 2018										
Locat	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO ²) (ppm)	Sulphur dioxide (SO ²) (ppm)	Hydrogen sulphide (H ² S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO ²) (ppm)	Oxygen (O ²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	300	0	0	0	0	20.9	0	0	✓
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0	0	0	0	20.9	0	0	~
A-03	NW Hotspot – Small Mound	0	300	0	0	0	0	20.9	0	0	✓
A-04	NE Fence Line Adjacent Hotspot	0	300	0	0	0	0	20.9	0	0	~
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0	0	0	0	20.9	0	0	✓
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0	0	0	0	20.9	0	0	~
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0	0	0	0	20.9	0	0	✓
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0	0	0	0	20.9	0	0	✓





Date o	Date of Monitoring: Wednesday 14 th November 2018										
Locat	tion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO ²) (ppm)	Sulphur dioxide (SO ²) (ppm)	Hydrogen sulphide (H ² S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO ²) (ppm)	Oxygen (O ²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	300	0	0	0	0	20.9	0	0	~
A-02	NW Hotspot – Adjacent Concrete Cap	0	300	0	0	0	0	20.9	0	0	~
A-03	NW Hotspot – Small Mound	0	300	0	0	0	0	20.9	0	0	~
A-04	NE Fence Line Adjacent Hotspot	0	300	0	0	0	0	20.9	0	0	~
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	300	0	0	0	0	20.9	0	0	~
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	300	0	0	0	0	20.9	0	0	*
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	300	0	0	0	0	20.9	0	0	~
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	300	0	0	0	0	20.9	0	0	~





Date oj	Date of Monitoring: Friday 16 th November 2018										
Locat	ion	Carbon monoxide (CO) (ppm)	Carbon dioxide (CO ²) (ppm)	Sulphur dioxide (SO ²) (ppm)	Hydrogen sulphide (H ² S) (ppm)	Nitric oxide (NO) (ppm)	Nitrogen dioxide (NO ²) (ppm)	Oxygen (O ²) (%)	Volatile organic compounds (VOC) (ppm)	Methane (as LEL) (%)	Within Acceptable Limits?
A-01	General Background – West of Site Fence	0	400	0	0	0	0	20.9	0	0	✓
A-02	NW Hotspot – Adjacent Concrete Cap	0	400	0	0	0	0	20.9	0	0	√
A-03	NW Hotspot – Small Mound	0	400	0	0	0	0	20.9	0	0	√
A-04	NE Fence Line Adjacent Hotspot	0	400	0	0	0	0	20.9	0	0	✓
A-05	Exclusion Area Fence Line East of Hotspot (Approx. 10m)	0	400	0	0	0	0	20.9	0	0	✓
A-06	Exclusion Area Fence Line Southeast of Hotspot (Approx. 15m)	0	400	0	0	0	0	20.9	0	0	~
A-07	Exclusion Area Fence Line South of Hotspot (Approx. 30m)	0	400	0	0	0	0	20.9	0	0	✓
A-08	Exclusion Area Fence Line Northwest of Hotspot, adjacent 17 Lackawanna Street (Approx. 50m)	0	400	0	0	0	0	20.9	0	0	~





5. DISCUSSION

Based on the air quality monitoring data obtained as part of this monitoring assessment, the inhalation risk to human health as a result of the subsurface hotspot remains low. The reasons for this conclusion is as follows:

Real time monitoring results did not indicate the presence of gas in elevated concentrations; even at the source (i.e. the subsurface hotspot vent source). Concentrations of gases commonly associated with combustion (e.g. carbon monoxide (CO), carbon dioxide (CO₂), volatile organic compounds, sulphur dioxide (SO₂), hydrogen sulphide (H₂S), methane (CH₄ – LEL), oxygen (O₂), nitric oxide (NO) and nitrogen dioxide (NO₂), were not detected at concentrations that pose a risk to human health in the North-Western Hotspot area, including locations surrounding the hotspot.

This concludes the interim air monitoring report from the 12th November 2018, to the 16th November 2018. It is recommended that weekly interim assessments are conducted to continually monitor the potential risk to human health whilst further investigation of the site is undertaken.



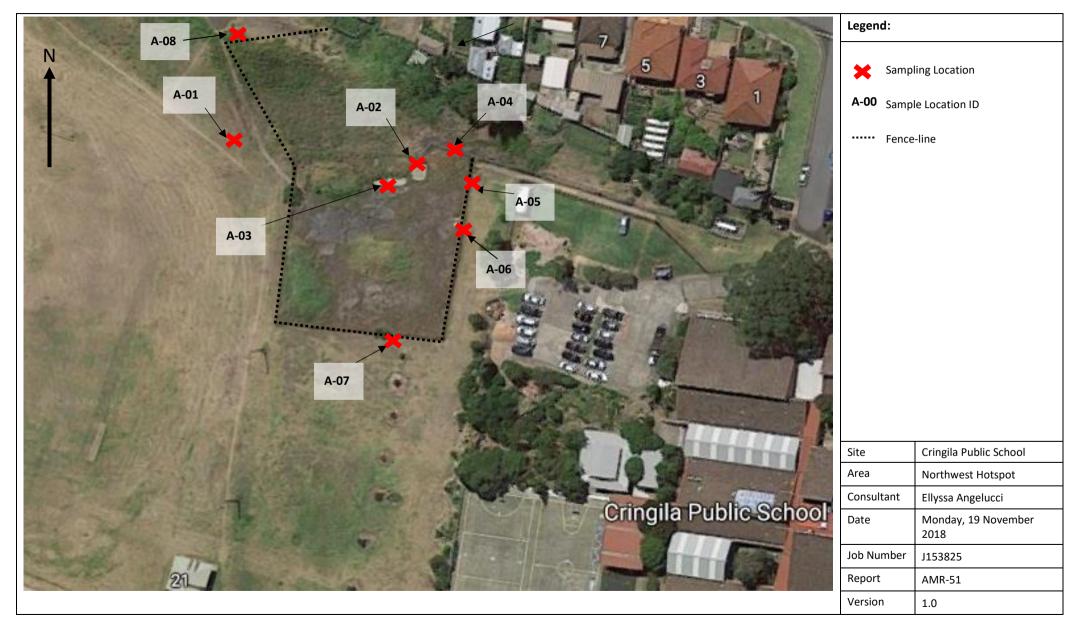


Air Monitoring Risk Assessment

Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502

Appendix A: Site Map and Sampling Locations









Air Monitoring Risk Assessment

Cringila Public School NW Hotspot – 35 Sheffield Street, Cringila NSW 2502

Appendix B: Calibration Certificates



Calibration & Service Report Gas Monitor

Company:	Active Environmental Solutions Hire	Manufacturer:	RAE Systems	Serial #:	MAA30042QB
Contact:	Aleks Todorovic	Instrument:	MultiRAE Lite	Asset #:	-
Address:	2 Merchant Avenue	Model:	PGM 6208	Part #:	-
	Thomastown Vic 3074	Configuration:	PID, OFCH	Sold:	-
Phone:	03 9464 2300 Fax : 03 9464 3421	Wireless:	-	Last Cal:	-
Email:	Hire@aesoultions.com.au	Network ID:	-	Job #:	-
		Unit ID:	-	Cal Spec:	Std

ltem	Test	Pass/Fail	Comments
Battery	Lilon	✓	
Charger	Charger, Power supply	✓	
	Cradle	✓	
Pump	Flow	✓	>300 mL/min
Filter	Filter, fitting, etc	✓	
Alarms	Audible, visual, vibration	✓	
Display	Operation	✓	
PCB	Operation	✓	
Connectors	Condition	✓	
Firmware	Version	✓	1.40
Datalogger	Operation	✓	
Monitor Housing	Condition	✓	
Case	Condition/Type	✓	
Sensors			
Oxygen	02	✓	
LEL	LEL	✓	
PID	10.6eV	✓	
Toxic 1	СО	✓	
Toxic 2	H2S	✓	
Toxic 3			
Toxic 4			
Toxic 5			

Engineer's Report

Setup, service and calibration for hire

Calibration Certificate

Sensor	Туре	Serial No:	Span	Concentration	Traceability	CF	Reading	
			Gas		Lot #		Zero	Span
Owngon	02	03420555UC	Fresh Air	20.9%	WO163704-3		20.9%	
Oxygen	02	0542055500	Oxygen	18.0%				18.0%
LEL	LEL	03110703T9	Methane	2.5% (50% LEL)	WO163704-3		0	50%
PID	10.6eV	03A30381QB	Isobutylene	100ppm	689134		0	100ppm
Toxic 1	СО	03060033N5	Carbon Monoxide	50ppm	WO163704-3		0	50ppm
Toxic 2	H2S	03AR0216Q3	Hydrogen Sulfide	10ppm	WO163704-3		0	10ppm
Toxic 3								
Toxic 4								
Toxic 5								

Calibrated/Repaired by:	William Pak
Date:	12.07.2018
Next due:	12.01.2019

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Calibration & Service Report Gas Monitor

Company:	Active Environmental Solutions Hire	Manufacturer:	RAE Systems	Serial #:	M01C005735
Contact:	Aleks Todorovic	Instrument:	MultiRAE Lite	Asset #:	-
Address:	2 Merchant Avenue	Model:	PGM 6208	Part #:	-
	Thomastown Vic 3074	Configuration:	NO, NO2, SO2, CO2	Sold:	-
Phone:	03 9464 2300 Fax : 03 9464 3421	Wireless:	-	Last Cal:	-
Email:	Hire@aesoultions.com.au	Network ID:	-	Job #:	-
		Unit ID:	-	Cal Spec:	Std

ltem	Test	Pass/Fail	Comments
Battery	Lilon	✓	
Charger	Charger, Power supply	✓	
	Cradle	✓	
Pump	Flow	✓	>300 mL/min
Filter	Filter, fitting, etc	✓	
Alarms	Audible, visual, vibration	✓	
Display	Operation	✓	
PCB	Operation	✓	
Connectors	Condition	✓	
Firmware	Version	✓	1.40
Datalogger	Operation	✓	
Monitor Housing	Condition	✓	
Case	Condition/Type	✓	
Sensors			
Oxygen			
LEL			
PID			
Toxic 1	NO	✓	
Toxic 2	NO2	✓	
Toxic 3	SO2	✓	
Toxic 4	CO2	✓	
Toxic 5			

Engineer's Report

Setup, service and calibration for hire

Calibration Certificate

Sensor	Туре	Serial No:	Span	Concentration	Traceability	CF	Reading	
			Gas		Lot #		Zero	Span
Overgan								
Oxygen								
LEL								
PID								
Toxic 1	NO	03740026U9	Nitric Oxide	25ppm	WO153855-2		0	25ppm
Toxic 2	NO2	03750052RC	Nitrogen Dioxide	5ppm	WO169855-1		0	5ppm
Toxic 3	SO2	03AF0109T5	Sulfur Dioxide	5ppm	W0155612-5		0	5ppm
Toxic 4	CO2	03610036QC	Carbon Monoxide	5000ppm	WO169824-1		0	5000ppm
Toxic 5								

Hood Office Melbourne	NCW Office Achilad	WA Office Malaga	OLD Office Paper
Next due:	12.01.2019		
Date:	12.07.2018		
Calibrated/Repaired by:	William Pak		

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