

## August 2014 Air Quality Summary Report

**Licence Number: 13336**

**Licensee: Barangaroo Delivery Authority**

**Licensee Address: Lvl 21, 201 Kent Street, Sydney**

**Sampling period: 1-31 August 2014**

**Date provided to Licensee: 23 September 2014**

**Date published: 03 October 2014**

# August 2014 Air Quality Summary Report

## Barangaroo South

This report has been compiled to summarise results of air quality monitoring at Barangaroo South in August 2014 in accordance with [EPL number 13336](#). This data is for samples taken from 1 to 31 August 2014. The data was provided to the Barangaroo Delivery Authority (the Licencee) on 23 August 2014.

Lend Lease conducts continuous air quality monitoring at Barangaroo South to measure air quality and assist the construction team implement appropriate environmental controls on site. Air quality monitoring is carried out in accordance with all relevant authority and statutory requirements. Monitoring parameters include particulate matter less than 10 microns (PM10) and volatile organic compounds.

## Location of ambient air quality monitors

Ambient air quality monitoring devices are located at four locations around the site as shown below:



*Approximate locations of air monitoring equipment*

These locations correspond to the following licenced monitoring locations:

- Northern: EPL Point 5
- Eastern: EPL Point 8
- Southern: EPL Point 13
- Water Treatment Plant Air Quality: EPL Point 17

EPL Points 14, 15 & 16 have not been monitored to date, as they are associated with works that have not commenced. EPL Point 18 was not required for this stage of the works as the remediation trial has been completed.

## Monitoring results

During August 2014 construction activities were undertaken in accordance with relevant management plans. Bulk excavation of the Stage 1A basement is complete.

General controls implemented during this reporting period included:

- Water cart spraying and road sweeping.
- Covering loads and managing stockpiles as appropriate.
- Housekeeping to keep exposed areas to a minimum.
- Ongoing monitoring of air quality.

## PM10

Monitoring Parameter	EPL Point 5 ( $\mu\text{g}/\text{m}^3$ )	EPL Point 8 ( $\mu\text{g}/\text{m}^3$ )	EPL Point 13 ( $\mu\text{g}/\text{m}^3$ )
Average	24.8	21.5	21.2
Minimum (24hr)	18.7	6.3	6.9
Maximum (24hr)	29.9	39.4	38.6

## Volatile Organic Compounds (VOCs) – WTP discharge

Monitoring Parameter	EPL Point
	17
Monitoring Type	WTP emission
Average (ppm)	*
Minimum (ppm)	*
Maximum (ppm)	*
Limit	20 $\text{mg}/\text{m}^3$ (10.2ppm)
Number of Exceedences	0

\* CEMS unit diagnosed with faulty motherboard. No data for the week prior to decommissioning.

## Frequency

Parameter	Frequency	EPL Point			
		5	8	13	17
PM10/ VOCs (Pt 17 only)	Monitoring frequency required by licence	Continuous			
	No. of samples required by licence				
	No. of samples collected & analysed				
		Minimum 3 hours continuous operation weekly during varied WTP operation.*			

\* CEMS unit diagnosed with faulty motherboard. No data for the week prior to decommissioning.