

October 2014 Air Quality Summary Report

Licence Number: 13336

Licensee: Barangaroo Delivery Authority

Licensee Address: Lvl 21, 201 Kent Street, Sydney

Sampling period: 1-31 October 2014

Date provided to Licensee: 21 November 2014

Date published: 28 November 2014

October 2014 Air Quality Summary Report

Barangaroo South

This report has been compiled to summarise results of air quality monitoring at Barangaroo South in October 2014 in accordance with [EPL number 13336](#). This data is for samples taken from 1 to 31 October 2014. The data was provided to the Barangaroo Delivery Authority (the Licencee) on 21 November 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 (Not in use)

EPL Points 14, 15 & 16 have not been monitored to date, as they are associated with works that have not commenced.

EPL Point 17 was not required as the WTP has been decommissioned.

EPL Point 18 was not required for this stage of the works as the remediation trial has been completed.

Monitoring results

During October 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 | 42.1* | 32.9 | 61.9+ |
| Minimum (24hr) | 18.3* | 15.9 | 27.2+ |
| Maximum (24hr) | 63.1* | 65.8 | 124.8+ |

*TEOM not operational from 01/10/14 to 15/10/14 and as such did not contribute to this value.

+No PM10 data was recorded during 01/10/14 to 15/10/14 due to power interruption and as such did not contribute to these figures.

Frequency

| Parameter | Frequency | EPL Point | | | |
|--------------------------------|--|------------|---|----|------------|
| | | 5 | 8 | 13 | 17 |
| PM10 / VOCs (Pt 17 only) | Monitoring frequency required by licence | Continuous | | | Not in use |
| | No. of samples required by licence | | | | |
| | No. of samples collected & analysed | | | | |