



August 2017 Water Quality Summary Report

One Sydney Harbour – Remediation Works

Licence Number: 13336

Licensee: Barangaroo Delivery Authority

Licensee Address: Level 21, 201 Kent Street, Sydney

Sampling period: 1 to 31 August 2017

Date provided to Licensee: 20 September 2017

Date published: 20 September 2017

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Barangaroo South – Remediation Works

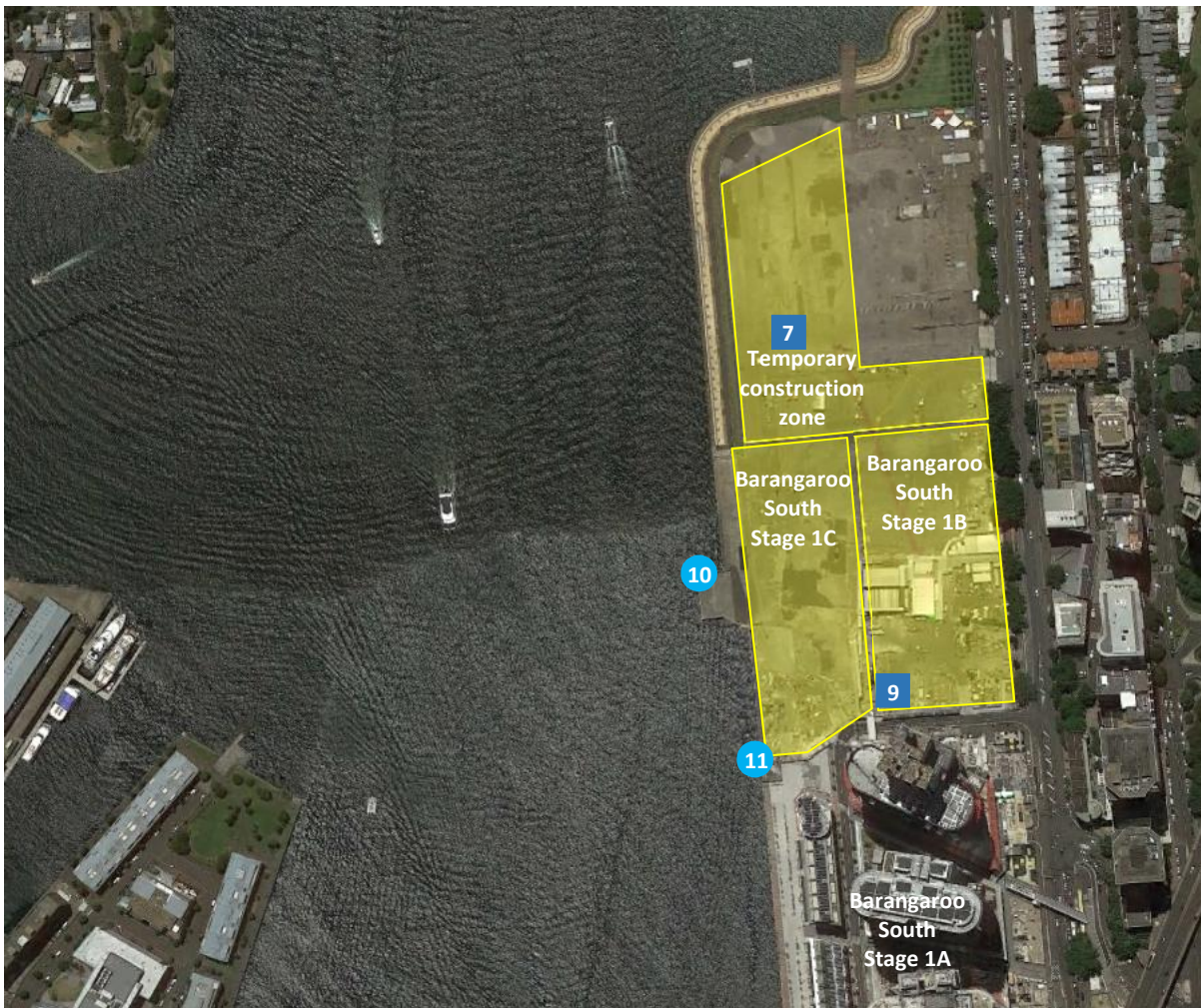
This report has been compiled to summarise results of water quality monitoring at Barangaroo South in August 2017 in accordance with [EPL number 13336](#). This data is for samples taken from 1 to 31 August 2017. The data was provided to the Barangaroo Delivery Authority (the Licencee) on 20 September 2017.

Lend Lease conducts water quality monitoring at Barangaroo South to measure water quality and assist the construction team implement appropriate environmental controls on site.

Water quality monitoring is carried out in accordance with all relevant authority and statutory requirements. Ambient monitoring in Darling Harbour measures conductivity, pH, temperature and turbidity.

Water quality monitoring locations

Water quality monitoring locations are located as shown below:



Approximate location of water quality monitoring equipment

Legend

- Ambient Water Quality Monitoring Location
- 7 WTP Water Discharge Point
- X EPL point number

EPL Point 10 is the Nearfield 1 (NF1) location, and EPL Point 11 is the Nearfield 2 (NF2) location. EPL Point 9 is the discharge point for the Perimeter Retention Wall (PRW) water treatment plant (WTP). EPL Point 7 is the discharge point for the Crown Development WTP.



Monitoring results

WTP Discharge

There was no discharge from the Water Treatment Plant to EPL Point 9 during the month.

There were no exceedances of turbidity criteria for ambient water quality monitoring in Darling Harbour during the month.

Turbidity

Monitoring Parameter	EPL Point 10 (NTU)	EPL Point 11 (NTU)
Minimum	1.5	1.6
Maximum	4.3	4.6
Mean	1.8	1.3
Limit	63	63

Conductivity

Monitoring Parameter	EPL Point 10 (mS/cm)	EPL Point 11 (mS/cm)
Minimum	52.2	52.0
Maximum	53.7	53.7
Mean	53.2	53.2
Limit	No licence limit, monitoring requirement only	

pH

Monitoring Parameter	EPL Point 10	EPL Point 11
Minimum	8.14	7.78
Maximum	8.35	7.94
Mean	8.26	7.88
Limit	No licence limit, monitoring requirement only	

Temperature

Monitoring Parameter	EPL Point 10 (°C)	EPL Point 11 (°C)
Minimum	14.71	14.65
Maximum	15.71	15.69
Mean	15.10	15.13
Limit	No licence limit, monitoring requirement only	

Frequency

Monitoring Parameter	EPL Point 10 (NF1)	EPL Point 11 (NF2)
Monitoring frequency required by licence	Every 15 minutes	
NTU Samples Collected & Analysed	95.3%	97.2%
pH Samples Collected & Analysed	97.7%	97.0%
Conductivity Samples Collected & Analysed	92.4%	96.9%
Temperature Samples Collected & Analysed	99.0%	98.8%