

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: April 2020

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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1. Introduction

WestConnex is one of the NSW Government’s key infrastructure projects which aims to ease congestion, create jobs and connect communities. Together with the other components of the WestConnex Program of Works and the proposed future Sydney Gateway, the WestConnex M4M5 Link will facilitate improved connections between western Sydney, Sydney Airport and Port Botany and south and south-western Sydney, as well as better connectivity between the important economic centres along Sydney’s Global Economic Corridor and local communities (refer to Figure 1). Due to its importance, the WestConnex M4-M5 Link project was declared to be critical state significant infrastructure (CSSI) by the Minister for Planning on 15 August 2017.

The WestConnex M4-M5 Link is being delivered in two stages:

- Stage 1, the Mainline Tunnels, which includes the construction and operation of the M4-M5 Link Tunnel between the New M4 at Haberfield and the New M5 at St Peters, and
- Stage 2, the Rozelle Interchange, which will connect the Stage 1 mainline tunnels to the surrounding surface road network and includes the construction and operation of (see Figure 1)
 - › An interchange at Lilyfield and Rozelle, including a connection to the proposed future Western Harbour Tunnel and Beaches Link project, and
 - › A tunnel connection between the Anzac Bridge and Victoria Road, east of Iron Cove Bridge.

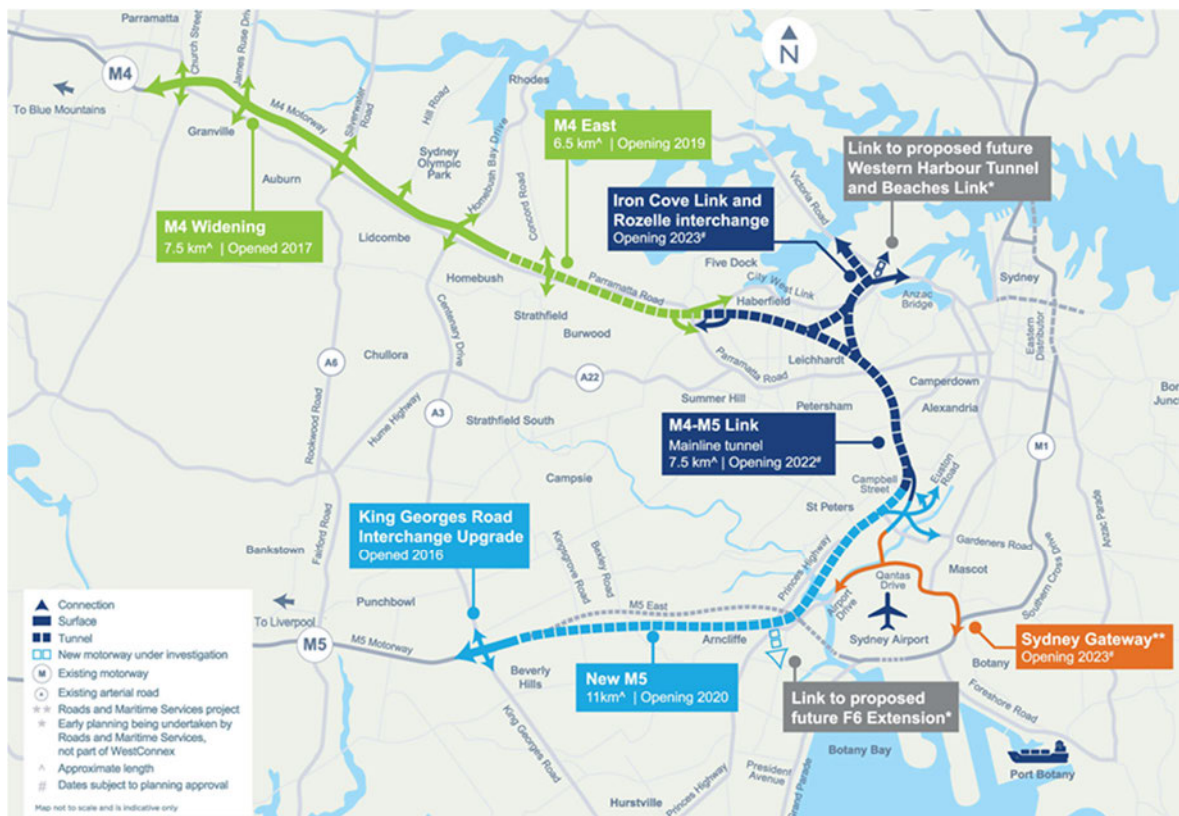


Figure 1 Westconnex Project Overview

2. Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 21278) from the NSW Environment Protection Authority for the Rozelle Interchange Works on behalf of the John Holland CPB (JHCPB) Joint Venture. The licence is for construction works relating to Road Construction as defined under Schedule 1 of the *Protection of the Environment Operations Act, 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the M4-M5 Link Rozelle Interchange Works, and specifically provides discharge criteria for water treatment plant and sediment basin water quality. The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA's website:

<https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=174300&SYSUID=1&LICID=21278>

3. Water Monitoring

Water monitoring was undertaken during this reporting period. Table 1 and 2 contains the water monitoring results.

Table 1 Surface water quality monitoring results

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Not Visible	N/A	Licence Limit
RRY03	01/04/2020	15	8.1	No	Each discharge	Compliant
RRY02	01/04/2020	41	7.54	No	Each discharge	Compliant
RRY03	02/04/2020	24.5	7.93	No	Each discharge	Compliant
RRY02	02/04/2020	16.3	7.68	No	Each discharge	Compliant
ICL02	02/04/2020	37.6	7.37	No	Each discharge	Compliant
ICL02	02/04/2020	13.6	8.46	No	Each discharge	Compliant
RRY01	03/04/2020	27.5	7.7	No	Each discharge	Compliant
RRY03	03/04/2020	11.2	8.21	No	Each discharge	Compliant
RRY03	01/04/2020	15	8.1	No	Each discharge	Compliant
RRY02	02/04/2020	16.3	7.68	No	Each discharge	Compliant
RRY03	02/04/2020	24.5	7.93	No	Each discharge	Compliant
ICL02	02/04/2020	37.6	7.37	No	Each discharge	Compliant
RRY03	03/04/2020	11.2	8.21	No	Each discharge	Compliant
ICL02	03/04/2020	13.6	8.46	No	Each discharge	Compliant
JCR	06/04/2020	16.8	8.33	No	Each discharge	Compliant
JCR	06/04/2020	31.3	7.13	No	Each discharge	Compliant
RRY02	07/04/2020	30.4	7.87	No	Each discharge	Compliant
ICL01	07/04/2020	4.9	6.77	No	Each discharge	Compliant
ICL02	07/04/2020	2.1	7.11	No	Each discharge	Compliant
JCR	08/04/2020	18.2	6.96	No	Each discharge	Compliant
RRY02	08/04/2020	30.1	7.81	No	Each discharge	Compliant
ICL02	08/04/2020	38.1	8.32	No	Each discharge	Compliant
RRY03	09/04/2020	31.5	8.5	No	Each discharge	Compliant

¹ A correlation between TSS and Turbidity has been established. Including a safety factor the turbidity limit is 50NTU

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Not Visible	N/A	Licence Limit
RRY03	09/04/2020	5.7	7.88	No	Each discharge	Compliant
RRY03	14/04/2020	10.5	7.97	No	Each discharge	Compliant
ICL02	14/04/2020	20.9	6.70	No	Each discharge	Compliant
RRY03	15/04/2020	44	7.00	No	Each discharge	Compliant
RRY02	15/04/2020	36.8	6.88	No	Each discharge	Compliant
RRY03	17/04/2020	19.1	8.41	No	Each discharge	Compliant
ICL02	20/04/2020	7	7.45	No	Each discharge	Compliant
RRY03	21/04/2020	47	7.28	No	Each discharge	Compliant
RRY03	22/04/2020	41.1	7.1	No	Each discharge	Compliant
JCR	23/04/2020	0.1	8.09	No	Each discharge	Compliant
ICL02	27/04/2020	41.1	8.11	No	Each discharge	Compliant
RRY03	28/04/2020	44.2	7.1	No	Each discharge	Compliant
RRY03	30/04/2020	36	7.4	No	Each discharge	Compliant

Table 2 Water quality monitoring results at Water Treatment Plant which processes ground water

Discharge/ Monitoring Point	Date Sampled	Turbidity (NTU)	pH	Oil & Grease	Arsenic (mg/L)	Cadmium (mg/L)	Chromium (hexavalent) (mg/L)	Chromium (trivalent) (mg/L)	Copper (mg/L)	Iron (mg/L)	Lead (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Monitoring frequency	Comment
		50 ¹	6.5 - 8.5	Not visible	0.05	0.014	0.02	0.0486	0.003	0.3	0.0066	2.5	0.0007	0.2	0.023	N/A	Licence Limit
RRY-C	3/04/2020	37	7.5	Not visible	<0.001	<0.0002	0.014	<0.005	<0.001	<0.05	<0.001	0.021	<0.0001	<0.001	0.019	Monthly	Compliant

4. Noise Monitoring

Noise monitoring was undertaken during this reporting period. Table 3 contains the noise monitoring results.

Table 3 Noise monitoring results

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
NCA24, Cheltenham St, Rozelle	01/04/2020	12:30 AM	Attended	Laeq 15 minutes	50	42.8	Compliant
NCA25, Lilyfield Rd, Rozelle	01/04/2020	1:00 AM	Attended	Laeq 15 minutes	55	49.8	Compliant
NCA21, Railway Pde, Annandale	01/04/2020	1:25 AM	Attended	Laeq 15 minutes	56	48.5	Compliant
NCA35, Warayama Pl, Rozelle	01/04/2020	9:02 PM	Attended	Laeq 15 minutes	92	67.3	Compliant
NCA35, Terry St, Rozelle	01/04/2020	9:24 PM	Attended	Laeq 15 minutes	86	67.6	Compliant
NCA25, Hornsey St, Rozelle	02/04/2020	12:23 AM	Attended	Laeq 15 minutes	83	64.5	Compliant
NCA29, Crescent St, Rozelle	02/04/2020	12:54 AM	Attended	Laeq 15 minutes	67	48.4	Compliant
NCA33, Callan St, Rozelle	02/04/2020	1:36 AM	Attended	Laeq 15 minutes	72	57.5	Compliant
NCA25, Lilyfield Rd, Rozelle	08/04/2020	12:31 AM	Attended	Laeq 15 minutes	81	72.8	Compliant
NCA29, Mansfield St, Rozelle	08/04/2020	1:00 AM	Attended	Laeq 15 minutes	47	42.9	Compliant
NCA21, Railway Pde, Annandale	08/04/2020	11:30 PM	Attended	Laeq 15 minutes	47	47.3	Compliant, exceedance attributed to non-JHCPB activities.
NCA25, Lilyfield Rd, Lilyfield	10/04/2020	10:02 AM	Attended	Laeq 15 minutes	56	64.1	Compliant, exceedance attributed to non-JHCPB activities.
NCA27, Victoria Rd, Glebe	15/04/2020	12:07 AM	Attended	Laeq 15 minutes	55	39.8	Compliant
NCA35, Warayama Pl, Rozelle	15/04/2020	8:43 PM	Attended	Laeq 15 minutes	92	85.0	Compliant
NCA33, Toelle St, Rozelle	15/04/2020	9:44 PM	Attended	Laeq 15 minutes	70	63.3	Compliant
NCA33, Springside St, Rozelle	23/04/2020	8:28 PM	Attended	Laeq 15 minutes	69	59.4	Compliant
NCA25, Lilyfield Rd, Lilyfield	27/04/2020	10:00 PM	Attended	Laeq 15 minutes	85	58.5	Compliant
NCA21, Johnston St, Annandale	27/04/2020	10:40 PM	Attended	Laeq 15 minutes	88	69.8	Compliant
NCA21, Bayview/ Crescent St, Annandale	27/04/2020	11:30 PM	Attended	Laeq 15 minutes	74	58.9	Compliant
NCA21, Railway Pde, Annandale	28/04/2020	1:00 AM	Attended	Laeq 15 minutes	66	40.8	Compliant
NCA21, Johnston St, Annandale	28/04/2020	10:30 PM	Attended	Laeq 15 minutes	88	61.5	Compliant
NCA21, Railway Pde, Annandale	28/04/2020	11:10 PM	Attended	Laeq 15 minutes	66	49.9	Compliant

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
NCA29, Crescent St, Rozelle	29/04/2020	12:45 AM	Attended	Laeq 15 minutes	67	58.7	Compliant