

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: January 2021

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.

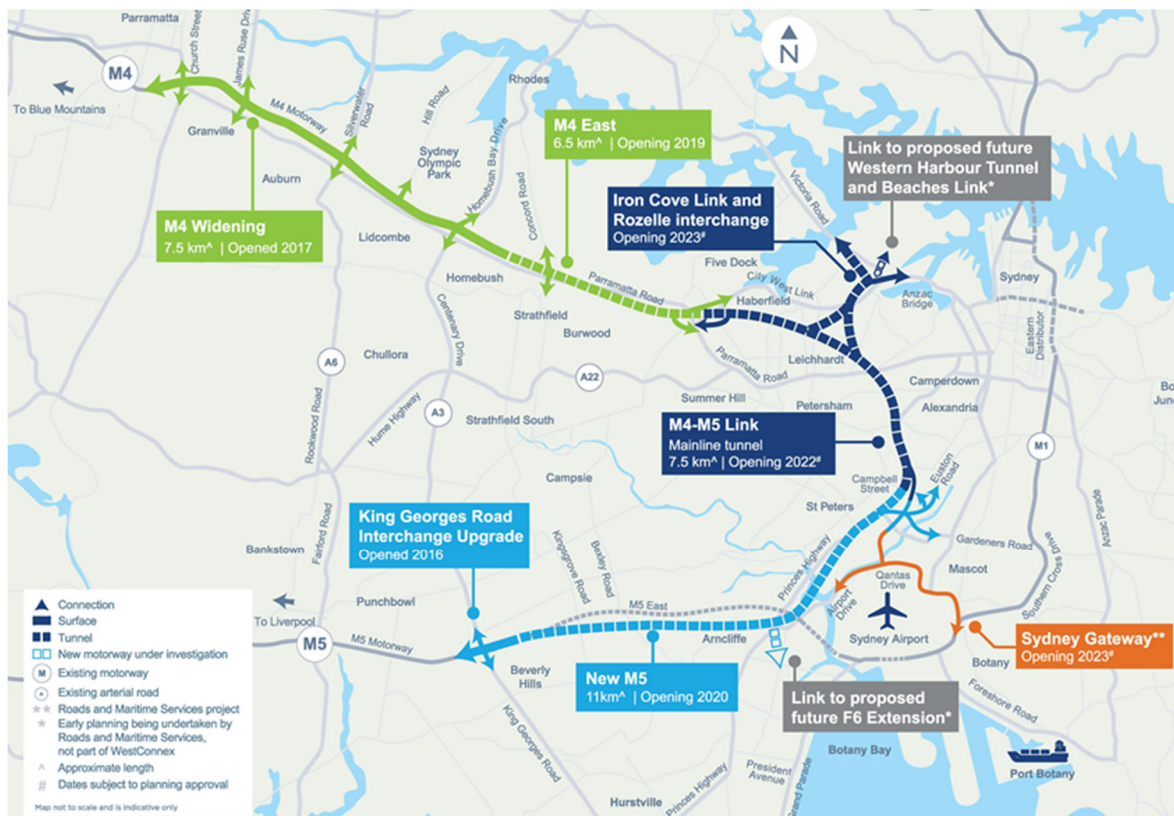


Figure 1 Westconnex Project Overview

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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=194995&SYSUID=1&LICID=21278>

3. Water Monitoring

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

Table 1 Surface water quality monitoring results

Discharge/Monitoring Point	Date sampled	Turbidity (NTU)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Visible	N/A	Licence Limit
RRY03	04/01/2021	25	8.2	No	Each discharge	Compliant
CWL06	04/01/2021	5	8.14	No	Each discharge	Compliant
CWL06	04/01/2021	31.7	8.27	No	Each discharge	Compliant
CWL06	04/01/2021	40.9	8.41	No	Each discharge	Compliant
ICL02	05/01/2021	8.1	6.86	No	Each discharge	Compliant
ICL02	04/01/2021	17.1	7.68	No	Each discharge	Compliant
ICL02	04/01/2021	21.0	8.48	No	Each discharge	Compliant
CWL06	04/01/2021	7.2	8.12	No	Each discharge	Compliant
ICL02	05/01/2021	49.2	8.08	No	Each discharge	Compliant
RRY06	06/01/2021	30.0	8.4	No	Each discharge	Compliant
ICL02	06/01/2021	34.2	7.64	No	Each discharge	Compliant
RRY06	06/01/2021	30.0	8.4	No	Each discharge	Compliant
RRY06	12/01/2021	17.0	7.3	No	Each discharge	Compliant
RRY03	12/01/2021	22	8.5	No	Each discharge	Compliant
ICL02	12/01/2021	14.5	6.55	No	Each discharge	Compliant

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

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

Date Sampled	Discharge Point	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	Visible	0.05	0.014	0.07 ²	0.15	0.04 ²	1.5	0.03	2.5	0.0007	0.2	0.15 ²	N/A	Licence Limit
05/01/2021	RRY-A	0	8.21	None visible	<0.0005	<0.0002	<0.001	<0.001	0.001	<0.005	<0.0002	0.0042	<0.0001	<0.0005	0.006	Monthly	Compliant
05/01/2021	RRY-C	1.6	7.95	None visible	<0.0005	<0.0002	0.002	<0.001	0.001	<0.005	<0.0002	0.0514	<0.0001	<0.0005	<0.005	Monthly	Compliant
05/01/2021	RRY-C	0.1	7.92	None visible	<0.0005	<0.0002	0.003	<0.001	0.001	<0.005	<0.0002	0.0494	<0.0001	<0.0005	<0.005	Monthly	Compliant

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

² 90 Percentile concentration limit.

4. Noise Monitoring

Noise monitoring was undertaken over the January 2021 reporting period. All noise monitoring results were compliant during this period. There was one exceedance recorded above the target level, however this was the result of extraneous noise (traffic passing on local roads) and not the result of construction activities. Table 3 contains detailed noise monitoring results.

Table 3. Noise monitoring results

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA33 Warayama Place	27/01/2021	9:31 PM	Attended	Laeq 15 minutes	93	61	Compliant
NCA33 Yara Avenue	27/01/2021	9:13 PM	Attended	Laeq 15 minutes	91	61.9	Compliant
NCA33 Terry St	27/01/2021	8:46 PM	Attended	Laeq 15 minutes	81	66.4	Compliant
NCA27 Glebe Point Road	13/01/2021	12:46 AM	Attended	Laeq 15 minutes	64	48	Compliant
NCA21 Johnston Street	13/01/2021	12:21 AM	Attended	Laeq 15 minutes	73	62.8	Compliant
NCA29 Crescent Street	12/01/2021	11:56 PM	Attended	Laeq 15 minutes	62	65.9	Compliant
NCA25 Hornsey Street	12/01/2021	11:29 PM	Attended	Laeq 15 minutes	74	59	Compliant