

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: February 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.

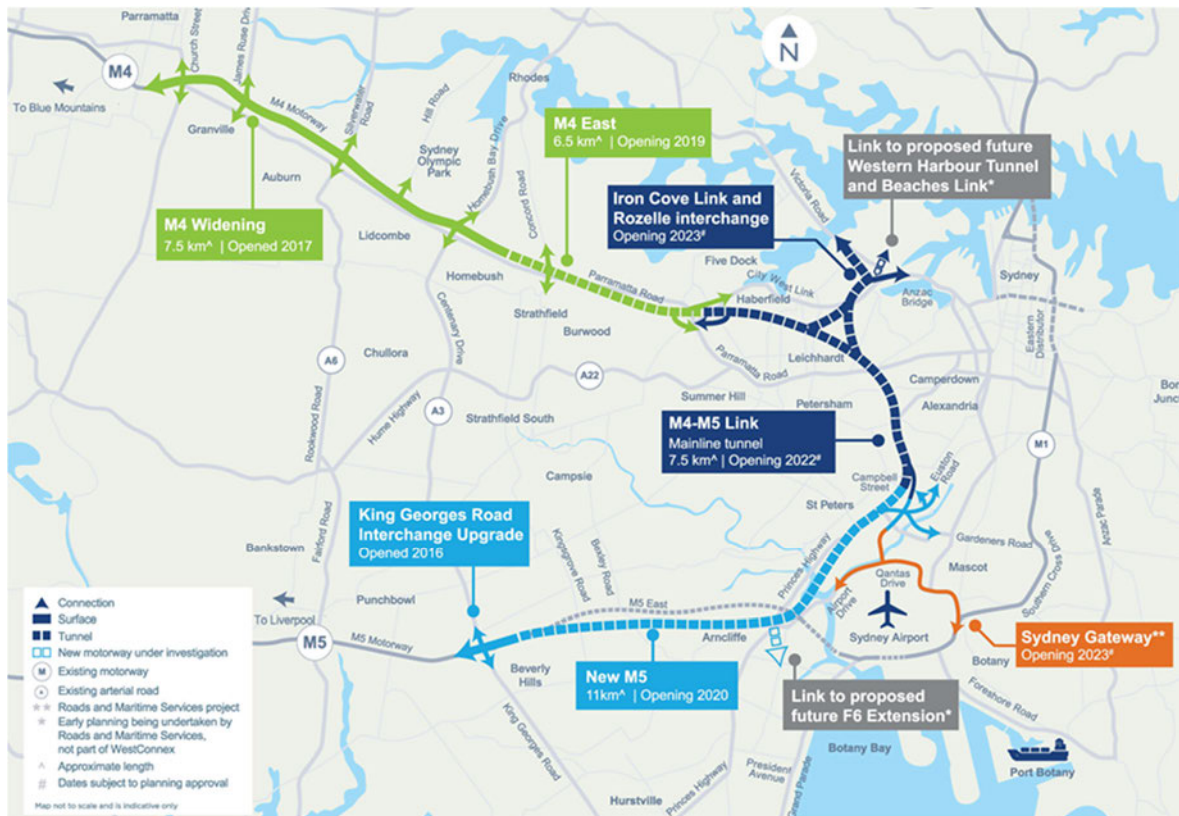


Figure 1 Westconnex Project Overview

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
ICL02	01/02/2021	19.4	7.03	No	Each discharge	Compliant
ICL02	01/02/2021	23.6	7.36	No	Each discharge	Compliant
ICL02	02/02/2021	41.8	6.74	No	Each discharge	Compliant
ICL02	02/02/2021	47.1	6.97	No	Each discharge	Compliant
ICL02	03/02/2021	18.6	6.5	No	Each discharge	Compliant
ICL02	03/02/2021	30	6.51	No	Each discharge	Compliant
ICL02	03/02/2021	34.9	6.78	No	Each discharge	Compliant
ICL02	15/02/2021	1.7	8.19	No	Each discharge	Compliant
ICL02	15/02/2021	47.2	6.92	No	Each discharge	Compliant
ICL02	15/02/2021	39.9	6.64	No	Each discharge	Compliant
ICL02	16/02/2021	30.4	6.77	No	Each discharge	Compliant
ICL02	16/02/2021	28.3	6.66	No	Each discharge	Compliant
ICL02	16/02/2021	30.4	7.08	No	Each discharge	Compliant
ICL02	16/02/2021	31.2	7.12	No	Each discharge	Compliant
ICL02	17/02/2021	37.5	6.77	No	Each discharge	Compliant
ICL02	17/02/2021	42.2	6.99	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
05/02/2021	RRY-A	5.8	7.51	None visible	0.0004	<0.0005	0.011	<0.001	<0.0005	0.006	<0.0001	0.022	<0.0001	<0.0005	0.004	Monthly	Compliant
05/02/2021	RRY-C	4.5	7.62	None visible	0.0007	<0.0005	0.030	<0.001	0.0011	0.002	<0.0001	0.0632	<0.0001	0.0006	0.004	Monthly	Compliant
05/02/2021	RRY-C	0.2	7.67	None visible	0.0004	<0.0005	0.035	<0.001	0.0009	0.002	<0.0001	0.025	<0.0001	0.0005	0.008	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 February 2021 reporting period. All construction noise monitoring results were complaint during this period. There were seventeen exceedances recorded above the target level, however this was the result of extraneous noise (traffic passing by on nearby 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
NCA28 Glebe Point Road	01/02/2021	10:00 PM	Attended	Laeq 15 minutes	64	53.8	Compliant
NCA29 Crescent Street	01/02/2021	10:55 PM	Attended	Laeq 15 minutes	62	70	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	01/02/2021	10:30 PM	Attended	Laeq 15 minutes	78	75.4	Compliant
NCA36 Byrnes Street	04/02/2021	10:42 PM	Attended	Laeq 15 minutes	62	57.2	Compliant
NCA35 Warayama Place	04/02/2021	11:14 PM	Attended	Laeq 15 minutes	61	44.7	Compliant
NCA36 Byrnes Street	04/02/2021	9:48 PM	Attended	Laeq 15 minutes	65	63.3	Compliant
NCA29 Crescent Street	05/02/2021	11:45 PM	Attended	Laeq 15 minutes	60	52.9	Compliant
NCA25 Lilyfield Rd	05/02/2021	10:14 PM	Attended	Laeq 15 minutes	77	57.6	Compliant
NCA29 Crescent Street	09/02/2021	11:35 PM	Attended	Laeq 15 minutes	60	69.8	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	09/02/2021	11:00 PM	Attended	Laeq 15 minutes	75	61.2	Compliant
NCA28 Glebe Point Road	10/02/2021	12:25 AM	Attended	Laeq 15 minutes	64	46.6	Compliant
NCA21 Johnston Street	10/02/2021	12:00 AM	Attended	Laeq 15 minutes	73	56	Compliant
NCA29 Crescent Street	12/02/2021	3:10 AM	Attended	Laeq 15 minutes	60	61.7	Compliant, exceedance due to non-JHCPB activities
NCA28 Glebe Point Road	12/02/2021	2:40 AM	Attended	Laeq 15 minutes	64	49.5	Compliant
NCA25 Lilyfield Road	12/02/2021	1:45 AM	Attended	Laeq 15 minutes	75	63.8	Compliant
NCA21 Johnston Street	15/02/2021	11:40 PM	Attended	Laeq 15 minutes	47	58.6	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	15/02/2021	11:15 PM	Attended	Laeq 15 minutes	51	46.4	Compliant
NCA25 Lilyfield Road	15/02/2021	10:55 PM	Attended	Laeq 15 minutes	52	58.6	Compliant, exceedance due to non-JHCPB activities
NCA28 Glebe Point Road	15/02/2021	8:05 PM	Attended	Laeq 15 minutes	54	57.4	Compliant, exceedance due to non-JHCPB activities

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goal/Target dB(A)	Actual dB(A)	Comments
NCA21 Johnston Street	15/02/2021	7:40 PM	Attended	Laeq 15 minutes	53	63	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	15/02/2021	7:13 PM	Attended	Laeq 15 minutes	56	55.7	Compliant
NCA25 Lilyfield Road	15/02/2021	6:55 PM	Attended	Laeq 15 minutes	56	62.8	Compliant, exceedance due to non-JHCPB activities
NCA28 Glebe Point Road	15/02/2021	12:05 AM	Attended	Laeq 15 minutes	47	46	Compliant
NCA28 Glebe Point Road	16/02/2021	11:20 PM	Attended	Laeq 15 minutes	47	49.5	Compliant, exceedance due to non-JHCPB activities
NCA21 Johnston Street	16/02/2021	11:00 PM	Attended	Laeq 15 minutes	47	64.6	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	16/02/2021	10:40 PM	Attended	Laeq 15 minutes	51	54.2	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	16/02/2021	10:20 PM	Attended	Laeq 15 minutes	50	56.6	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	16/02/2021	10:00 PM	Attended	Laeq 15 minutes	52	60.4	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	16/02/2021	9:45 PM	Attended	Laeq 15 minutes	56	53.2	Compliant
NCA25 Lilyfield Road	16/02/2021	9:00 PM	Attended	Laeq 15 minutes	56	63.2	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	16/02/2021	9:25 PM	Attended	Laeq 15 minutes	56	58.1	Compliant, exceedance due to non-JHCPB activities
NCA21 Johnston Street	18/02/2021	12:40 AM	Attended	Laeq 15 minutes	47	63.5	Compliant, exceedance due to non-JHCPB activities
NCA25 Lilyfield Road	18/02/2021	12:20 AM	Attended	Laeq 15 minutes	51	50.8	Compliant
NCA25 Lilyfield Road	18/02/2021	12:00 AM	Attended	Laeq 15 minutes	52	58.3	Compliant, exceedance due to non-JHCPB activities