

JHCPB Joint Venture

# EPL Monthly Monitoring Report

Reporting Period: May 2023

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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## Document Approval

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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. There were no exceedances during the monitoring period.

Table 1 Surface water quality monitoring results

Discharge/Monitoring Point	Date sampled	Turbidity (NTU)	pH	Oil & Grease	Monitoring frequency	Comment
		50 <sup>1</sup>	6.5-8.5	Visible	N/A	Licence Limit
RRY-C	02/05/2023	1.8	8.03	No	Each Discharge	Compliant
RRY-C	03/05/2023	8.7	8.21	No	Each Discharge	Compliant
CWL	16/05/2023	34.3	7.44	No	Each Discharge	Compliant

<sup>1</sup> 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 <sup>1</sup>	6.5 - 8.5	Visible	0.05	0.014	0.07 <sup>2</sup>	0.15	0.04 <sup>2</sup>	1.5	0.03	2.5	0.0007	0.2	0.15 <sup>2</sup>	N/A	Licence Limit
01/05/2023	WHT Dis 1*	0.4	6.84	None visible	<0.0002	<0.00005	<0.01	<0.01	<0.0005	0.005	<0.0001	0.0073	<0.0001	0.0012	0.008	01/05/2023	WHT Dis 1*
09/05/2023	WHT Dis 1*	0.6	6.64	None visible	<0.0002	<0.00005	<0.01	<0.01	<0.0005	<0.002	<0.0001	0.0078	<0.0001	0.0005	0.007	09/05/2023	WHT Dis 1*
26/05/2023	RRY-A	0.4	7.63	None visible	0.0005	0.00006	0.005	<0.001	0.0016	0.003	<0.0001	0.0536	<0.0001	0.0013	0.011	26/05/2023	RRY-A
30/05/2023	WHT Dis 1*	0.2	6.61	None visible	0.0004	<0.00005	<0.01	<0.01	<0.0005	<0.002	<0.0001	0.0032	<0.0001	<0.0005	0.005	30/05/2023	WHT Dis 1*

\*Remark: Western Harbour Tunnel Stage 3A Discharge point (WHT Dis 1) is under EPL 21748, separated from RIC EPL 21278.

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

<sup>2</sup> 90 Percentile concentration limit.

## 4. Noise Monitoring

Noise monitoring was undertaken during the May 2023 reporting period. All construction noise monitoring results were compliant during this period. Where the predicted noise level was exceeded, this was result of extraneous activities (traffic passing). Construction noise was audible and in line with the predicted levels. 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
<b>NCA25: Hornsey St, Rozelle</b>	<b>01/05/2023</b>	<b>10:00 PM</b>	<b>Attended</b>	<b>Laeq 15 minute</b>	<b>88</b>	<b>78.5</b>	<b>Compliant</b>
NCA28: Bowman St, Pyrmont	05/05/2023	7:30 AM	Attended	Laeq 15 minute	40	57.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27L Leichardt St, Glebe	06/05/2023	2:45 AM	Attended	Laeq 15 minute	56	43	Compliant
NCA27: Cook St, Glebe	06/05/2023	3:13 AM	Attended	Laeq 15 minute	55	54	Compliant
NCA28: Distillery Dr, Pyrmont	06/05/2023	3:52 AM	Attended	Laeq 15 minute	68	47	Compliant
NCA28: Bowman St, Pyrmont	06/05/2023	4:16 AM	Attended	Laeq 15 minute	68	64	Compliant
NCA25: Lilyfield Rd, Rozelle	08/05/2023	8:30 PM	Attended	Laeq 15 minute	56	53.8	Compliant
NCA25: Lilyfield Rd, Rozelle	08/05/2023	9:20 PM	Attended	Laeq 15 minute	56	57.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	08/05/2023	11:10 PM	Attended	Laeq 15 minute	50	50	Compliant
NCA21: Johnston St, Annandale	09/05/2023	12:00 AM	Attended	Laeq 15 minute	51	53.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27: Leichardt St, Glebe	09/05/2023	1:03 AM	Attended	Laeq 15 minute	56	48.8	Compliant
NCA28: Distillery Dr, Pyrmont	09/05/2023	1:30 AM	Attended	Laeq 15 minute	55	53.5	Compliant
NCA28: Bowman St, Pyrmont	09/05/2023	1:50 AM	Attended	Laeq 15 minute	68	61.2	Compliant
NCA27: Cook St, Glebe	09/05/2023	12:40 PM	Attended	Laeq 15 minute	68	52.20	Compliant
NCA24: Burt St, Rozelle	11/05/2023	12:52 PM	Attended	Laeq 15 minute	62	63.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	11/05/2023	1:12 PM	Attended	Laeq 15 minute	79	57.9	Compliant
NCA25: Hornsey St, Rozelle	11/05/2023	1:58 PM	Attended	Laeq 15 minute	79	62.5	Compliant
NCA25: Gordon St, Rozelle	11/05/2023	2:00 PM	Attended	Laeq 15 minute	49	62.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

<b>NCA25: Hornsey St, Rozelle</b>	<b>01/05/2023</b>	<b>10:00 PM</b>	<b>Attended</b>	<b>Laeq 15 minute</b>	<b>88</b>	<b>78.5</b>	<b>Compliant</b>
OSR Victoria Rd, Rozelle	11/05/2023	2:25 PM	Attended	Laeq 15 minute	70	73.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA29: Crescent St, Rozelle	12/05/2023	2:45 PM	Attended	Laeq 15 minute	53	53.5	Compliant – Extraneous noise (residential property cleaning) was the dominate noise source. Project-related noise below target level.
NCA27: Cook St, Glebe	13/05/2023	1:45 AM	Attended	Laeq 15 minute	55	48.5	Compliant
NCA27: Leichhardt St, Glebe	13/05/2023	2:06 AM	Attended	Laeq 15 minute	56	44.9	Compliant
NCA28: Distillery Dr, Pyrmont	13/05/2023	2:35 AM	Attended	Laeq 15 minute	68	59.4	Compliant
NCA28: Bowman St, Pyrmont	13/05/2023	3:00 AM	Attended	Laeq 15 minute	64	57.8	Compliant
NCA25: Lilyfield Rd, Rozelle	13/05/2023	6:00 AM	Attended	Laeq 15 minute	50	60.0	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA35: Warayama Pl, Rozelle	15/05/2023	12:15 AM	Attended	Laeq 15 minute	95	46.8	Compliant
NCA32: Victoria Rd, Rozelle	15/05/2023	12:35 AM	Attended	Laeq 15 minute	88	68.9	Compliant
NCA38: Formosa St, Drummoyne	15/05/2023	1:10 AM	Attended	Laeq 15 minute	59	75.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA33: Callan St, Rozelle	15/05/2023	11:10 AM	Attended	Laeq 15 minute	68	66.3	Compliant
NCA34: Terry St, Rozelle	15/05/2023	11:51 AM	Attended	Laeq 15 minute	85	64.6	Compliant
NCA36: Toelle St, Rozelle	15/05/2023	11:30 PM	Attended	Laeq 15 minute	68	56.8	Compliant
NCA24: Hutcheson St, Rozelle	16/05/2023	10:18 AM	Attended	Laeq 15 minute	71	69.9	Compliant
NCA24: Lilyfield Rd, Rozelle	16/05/2023	10:37 AM	Attended	Laeq 15 minute	72	66.7	Compliant
NCA19: Cecily St, Lilyfield	16/05/2023	12:14 PM	Attended	Laeq 15 minute	57	61.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Ryan St, Lilyfield	16/05/2023	12:33 PM	Attended	Laeq 15 minute	70	65.7	Compliant
NCA28: Distillery Dr, Pyrmont	18/05/2023	12:33 AM	Attended	Laeq 15 minute	52	54.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA33: Callan St, Rozelle	18/05/2023	1:10 AM	Attended	Laeq 15 minute	68	62.5	Compliant

<b>NCA25: Hornsey St, Rozelle</b>	<b>01/05/2023</b>	<b>10:00 PM</b>	<b>Attended</b>	<b>Laeq 15 minute</b>	<b>88</b>	<b>78.5</b>	<b>Compliant</b>
NCA36: Toelle St, Rozelle	18/05/2023	1:30 AM	Attended	Laeq 15 minute	68	49.4	Compliant
NCA34: Terry St, Rozelle	18/05/2023	11:50 PM	Attended	Laeq 15 minute	85	61.8	Compliant
NCA27: Alexandra Rd, Glebe	22/05/2023	4:00 PM	Attended	Laeq 15 minute	61	57.2	Compliant
NCA27: Glebe Point Rd, Glebe	22/05/2023	4:22 PM	Attended	Laeq 15 minute	63	56.5	Compliant
NCA25: Lilyfield Rd, Rozelle	25/05/2023	4:30 AM	Attended	Laeq 15 minute	50	59.0	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	25/05/2023	5:00 AM	Attended	Laeq 15 minute	50	60.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Railway Pde, Annandale	26/05/2023	8:06 AM	Attended	Laeq 15 minute	42	62.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Pritchard St, Annandale	26/05/2023	8:42 AM	Attended	Laeq 15 minute	77	63	Compliant
NCA16 Lilyfield Rd, Lilyfield 2	29/05/2023	10:11 AM	Attended	Laeq 15 minute	63	65.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR James Craig Rd, Rozelle	29/05/2023	1:33 PM	Attended	Laeq 15 minute	61	70.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	30/05/2023	12:10 AM	Attended	Laeq 15 minute	50	57.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA23: Johnston St, Annandale	30/05/2023	7:25 AM	Attended	Laeq 15 minute	73	63.9	Compliant
NCA36: Warayama Place, Rozelle	30/05/2023	9:28 AM	Attended	Laeq 15 minute	76	55	Compliant
NCA35: Clubb Street, Rozelle	30/05/2023	9:59 AM	Attended	Laeq 15 minute	72	62.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA20: Brenan St, Lilyfield	30/05/2023	10:45 AM	Attended	Laeq 15 minute	51	59.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

<b>NCA25: Hornsey St, Rozelle</b>	<b>01/05/2023</b>	<b>10:00 PM</b>	<b>Attended</b>	<b>Laeq 15 minute</b>	<b>88</b>	<b>78.5</b>	<b>Compliant</b>
NCA33: Toelle St, Rozelle	30/05/2023	4:27 PM	Attended	Laeq 15 minute	72	66.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	30/05/2023	7:40 PM	Attended	Laeq 15 minute	56	62.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	30/05/2023	8:30 PM	Attended	Laeq 15 minute	56	64.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	30/05/2023	10:17 PM	Attended	Laeq 15 minute	50	61.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	30/05/2023	11:20 PM	Attended	Laeq 15 minute	50	61.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	31/05/2023	1:30 AM	Attended	Laeq 15 minute	50	59.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	31/05/2023	1:50 AM	Attended	Laeq 15 minute	50	55.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.