

JHCPB Joint Venture

# EPL Monthly Monitoring Report

Reporting Period: April 2022

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-A	01/04/2022	35.2	7.05	No	Each Discharge	Compliant
RRY-A	04/04/2022	0	6.8	No	Each Discharge	Compliant
RRY-6	05/04/2022	23	8.1	No	Each Discharge	Compliant
RRY-03	06/04/2022	40	7.7	No	Each Discharge	Compliant
RRY-03	06/04/2022	41	8.3	No	Each Discharge	Compliant
RRY-03	07/04/2022	36	8	No	Each Discharge	Compliant
RRY-03	07/04/2022	37	8.1	No	Each Discharge	Compliant
RRY-03	07/04/2022	38	8.2	No	Each Discharge	Compliant
RRY-03	07/04/2022	42	8.1	No	Each Discharge	Compliant
RRY-A	07/04/2022	28.8	7.3	No	Each Discharge	Compliant
RRY-A	07/04/2022	39.5	7.31	No	Each Discharge	Compliant
RRY-A	09/04/2022	2.8	7.01	No	Each Discharge	Compliant
RRY-06	11/04/2022	45	7.4	No	Each Discharge	Compliant
VRE-07	12/04/2022	10.1	7.7	No	Each Discharge	Compliant
RRY-06	12/04/2022	22	7.1	No	Each Discharge	Compliant
VRE-07	13/04/2022	42.1	7.2	No	Each Discharge	Compliant
RRY-A	14/04/2022	4.3	6.87	No	Each Discharge	Compliant
RRY-06	19/04/2022	21	6.7	No	Each Discharge	Compliant
VRE-07	19/04/2022	5.9	7.98	No	Each Discharge	Compliant
RRY-A	20/04/2022	4.6	6.97	No	Each Discharge	Compliant
RRY-06	27/04/2022	40	8.2	No	Each Discharge	Compliant
RRY-A	29/04/2022	27.8	6.85	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
04/04/2022	RRY-C	6.4	7.3	None visible	0.0002	<0.00005	0.031	<0.001	0.0017	0.005	<0.0001	0.0034	0.0003	0.0006	0.005	Monthly	Compliant
04/04/2022	RRY-C	0.7	6.86	None visible	<0.0005	<0.0002	0.019	<0.001	<0.001	<0.005	<0.0002	<0.0005	0.00021	<0.0005	<0.005	Monthly	Compliant

<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 April 2022 reporting period. All construction noise monitoring results were complaint 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
NCA21, Bayview Crescent, Annandale	01/04/2022	11:41 PM	Attended	Laeq 1 minute	75	56.1	Compliant
NCA20, Brenan Street, Lilyfield	02/04/2022	12:00 AM	Attended	Laeq 1 minute	63	52.6	Compliant
NCA23, Johnston Street, Annandale	05/04/2022	9:53 AM	Attended	Laeq 1 minute	73	61.5	Compliant
NCA27, Alexandra Road,	05/04/2022	8:25 AM	Attended	Laeq 1 minute	63	57.1	Compliant
NCA20: Brenan Street, Lilyfield	05/04/2022	9:15 AM	Attended	Laeq 1 minute	61	48.7	Compliant
NCA23, Johnston Street, Annandale	05/04/2022	9:53 AM	Attended	Laeq 1 minute	73	61.5	Compliant
NCA24, Hutcheson Street, Rozelle	05/04/2022	10:30 AM	Attended	Laeq 1 minute	71	60.5	Compliant
NCA21, Pritchard St, Annandale	05/04/2022	10:05 AM	Attended	Laeq 1 minute	58	55.2	Compliant
NCA19, Cecily Street, Lilyfield	05/04/2022	11:03 AM	Attended	Laeq 1 minute	57	56.1	Compliant
NCA 19, Lilyfield Road, Lilyfield	05/04/2022	11:26 AM	Attended	Laeq 1 minute	59	59	Compliant

NCA32, Waterloo Street, Rozelle	08/04/2022	10:50 PM	Attended	Laeq 1 minute	63	60.1	Compliant
NCA 36, Toelle St, Rozelle	08/04/2022	11:15 PM	Attended	Laeq 1 minute	68	60.5	Compliant
NCA 36, Callan Street, Rozelle	08/04/2022	11:35 PM	Attended	Laeq 1 minute	74	64.2	Compliant
NCA34, Terry Street, Rozelle	09/04/2022	12:00 AM	Attended	Laeq 1 minute	83	57.6	Compliant
NCA 35, Yara Avenue, Rozelle	09/04/2022	12:20 AM	Attended	Laeq 1 minute	93	72.1	Compliant
NCA OSR: Waragal Avenue, Rozelle	09/04/2022	12:55 AM	Attended	Laeq 1 minute	51	37.7	Compliant
NCA 33, Callan St, Rozelle	09/04/2022	10:00 PM	Attended	Laeq 1 minute	80	58.9	Compliant
NCA 36, Toelle St, Rozelle	09/04/2022	10:20 PM	Attended	Laeq 1 minute	71	56.4	Compliant
NCA 32, Waterloo St, Rozelle	09/04/2022	10:45 PM	Attended	Laeq 1 minute	66	57.5	Compliant
NCA 34, Terry St, Rozelle	09/04/2022	11:10 PM	Attended	Laeq 1 minute	80	62.3	Compliant
NCA 35, Yara Avenue, Rozelle	09/04/2022	11:31 PM	Attended	Laeq 1 minute	81	70.6	Compliant

NCA34, Terry St, Rozelle	09/04/2022	11:47 PM	Attended	Laeq 1 minute	80	61.6	Compliant
NCA 25, Lilyfield Road, Rozelle	11/04/2022	7:40 PM	Attended	Laeq 1 minute	55	62.3	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Rd, Rozelle	11/04/2022	8:30 PM	Attended	Laeq 1 minute	56	56.6	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	11/04/2022	9:05 PM	Attended	Laeq 1 minute	52	56.7	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 27, Glebe Point Road, Glebe	11/04/2022	9:50 PM	Attended	Laeq 1 minute	54	64.1	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 21, Johnston St, Annandale	11/04/2022	10:30 PM	Attended	Laeq 1 minute	53	52.2	Compliant
NCA 25, Lilyfield Road, Rozelle	11/04/2022	11:40 PM	Attended	Laeq 1 minute	52	49.8	Compliant
NCA 25, Lilyfield Road, Rozelle	12/04/2022	12:10 AM	Attended	Laeq 1 minute	55	58.1	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	12/04/2022	12:35 AM	Attended	Laeq 1 minute	50	51.1	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	12/04/2022	8:15 PM	Attended	Laeq 1 minute	52	57.3	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	12/04/2022	8:40 PM	Attended	Laeq 1 minute	55	60.7	Compliant – Extraneous noise (traffic) was the dominate noise source.

NCA 27, Glebe Point Road, Glebe	12/04/2022	9:20 PM	Attended	Laeq 1 minute	54	56.4	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 21, Johnston St, Annandale	12/04/2022	9:55 PM	Attended	Laeq 1 minute	53	55.7	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	12/04/2022	11:10 PM	Attended	Laeq 1 minute	55	57.0	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	12/04/2022	11:30 PM	Attended	Laeq 1 minute	52	50.4	Compliant
NCA 27, Glebe Point Road, Glebe	13/04/2022	12:10 AM	Attended	Laeq 1 minute	47	54.8	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 21, Johnston Street, Annandale	13/04/2022	12:45 AM	Attended	Laeq 1 minute	47	44.7	Compliant
NCA 32, Waterloo St, Rozelle	15/04/2022	8:16 AM	Attended	Laeq 1 minute	68	55.1	Compliant
NCA 34, Terry St, Rozelle	15/04/2022	8:48 AM	Attended	Laeq 1 minute	82	63.3	Compliant
NCA 35, Yara Avenue, Rozelle	15/04/2022	9:17 AM	Attended	Laeq 1 minute	83	74.4	Compliant
NCA 36, Toelle St, Rozelle	15/04/2022	9:50 AM	Attended	Laeq 1 minute	74	59.3	Compliant
NCA 33, Callan St, Rozelle	15/04/2022	10:24 AM	Attended	Laeq 1 minute	82	66	Compliant

NCA 25, Lilyfield Road, Rozelle	22/04/2022	2:56 AM	Attended	Laeq 1 minute	94	67.8	Compliant
NCA 24, Burt Street, Rozelle	22/04/2022	3:16 AM	Attended	Laeq 1 minute	89	54.6	Compliant
NCA 25, Lilyfield Road, Rozelle	26/04/2022	9:35 PM	Attended	Laeq 1 minute	55	61.2	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25, Lilyfield Road, Rozelle	26/04/2022	9:55 PM	Attended	Laeq 1 minute	52	52.7	Compliant – Extraneous noise (traffic) was the dominate noise source.