

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: May 2022

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. 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 ¹	6.5-8.5	Visible	N/A	Licence Limit
RRY-A	07/05/2022	15	7.29	No	Each Discharge	Compliant
VRE-07	12/05/2022	41.3	6.52	No	Each Discharge	Compliant
RRY-03	12/05/2022	45	8.5	No	Each Discharge	Compliant
RRY-03	12/05/2022	50	8.5	No	Each Discharge	Compliant
ICL02	13/05/2022	31	8.09	No	Each Discharge	Compliant
RRY-A	17/05/2022	0.3	6.76	No	Each Discharge	Compliant
RRY-A	23/05/2022	1.4	7.54	No	Each Discharge	Compliant
RRY-A	23/05/2022	0	7.37	No	Each Discharge	Compliant
RRY-A	23/05/2022	29.8	7.78	No	Each Discharge	Compliant
RRY-A	23/05/2022	0	6.93	No	Each Discharge	Compliant
RRY-A	23/05/2022	0	7.23	No	Each Discharge	Compliant
VRE-07	24/05/2022	23.8	8.02	No	Each Discharge	Compliant
RRY-A	24/05/2022	33	7.3	No	Each Discharge	Compliant
RRY-A	25/05/2022	21	8.3	No	Each Discharge	Compliant
RRY-06	25/05/2022	42	8.5	No	Each Discharge	Compliant
RRY-A	25/05/2022	7.1	7.9	No	Each Discharge	Compliant
RRY-A	25/05/2022	24	8.1	No	Each Discharge	Compliant
VRE-07	26/05/2022	12.5	8.1	No	Each Discharge	Compliant
VRE-07	26/05/2022	24.1	8.2	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
03/05/2022	RRY-C	4.6	7.54	None visible	0.0004	<0.00005	0.036	<0.001	0.027	0.003	<0.0001	0.0091	<0.0001	0.0009	0.006	03/05/2022	RRY-C
03/05/2022	RRY-C	0.5	6.99	None visible	0.0004	<0.00005	0.036	<0.001	0.023	0.004	<0.0001	0.0056	<0.0001	0.001	0.007	03/05/2022	RRY-C

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 during the May 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: Johnston Street, Annandale NSW	09/05/2022	10:47 PM	Attended	Laeq 1 minute	76	54.2	Compliant
NCA24: Hutcheson Street, Rozelle NSW	10/05/2022	12:44 AM	Attended	Laeq 1 minute	67	46.5	Compliant
NCA 25: Lilyfield Road, Rozelle	10/05/2022	8:22 PM	Attended	Laeq 1 minute	55	60.7	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25: Lilyfield Road, Rozelle	10/05/2022	8:49 PM	Attended	Laeq 1 minute	52	55.5	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 27: Glebe Point Road, Glebe	10/05/2022	9:34 PM	Attended	Laeq 1 minute	54	49.1	Compliant
NCA 21: Johnston St, Annandale	10/05/2022	10:23 PM	Attended	Laeq 1 minute	53	52.7	Compliant
NCA27: Alexandra Road, Glebe 2037	17/05/2022	8:37 AM	Attended	Laeq 1 minute	61	59.5	Compliant
NCA23: Johnston Street, Annandale	17/05/2022	9:05 AM	Attended	Laeq 1 minute	73	63.7	Compliant
City West Link & The Crescent	17/05/2022	9:31 AM	Attended	Laeq 1 minute	64	62.8	Compliant
NCA21: Johnston Street, Annandale 2038	17/05/2022	9:49 AM	Attended	Laeq 1 minute	81	58.9	Compliant

NCA20: Brenan Street, Lilyfield 2040	17/05/2022	10:19 AM	Attended	Laeq 1 minute	61	61.7	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA24: Hutcheson Street, Rozelle 2039	17/05/2022	10:51 AM	Attended	Laeq 1 minute	86	61.4	Compliant
NCA 25: Lilyfield Road, Rozelle	18/05/2022	12:30 PM	Attended	Laeq 1 minute	55	55.2	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 27: Glebe Point Road, Glebe	18/05/2022	11:10 PM	Attended	Laeq 1 minute	47	55.9	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 21: Johnston St, Annandale	18/05/2022	11:48 PM	Attended	Laeq 1 minute	47	49.6	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 25: Lilyfield Road, Rozelle	19/05/2022	12:57 AM	Attended	Laeq 1 minute	52	48.8	Compliant
NCA 16: Lilyfield Road, Lilyfield 2040	23/05/2022	8:24 AM	Attended	Laeq 1 minute	74	61.8	Compliant
NCA19: Ryan Street, Lilyfield 2040	23/05/2022	12:08 PM	Attended	Laeq 1 minute	73	63.8	Compliant
NCA16: Lilyfield Road, Rozelle 2039	24/05/2022	9:01 AM	Attended	Laeq 1 minute	80	70.6	Compliant
NCA33: Toelle St, Rozelle	25/05/2022	11:18 AM	Attended	Laeq 1 minute	80	60.5	Compliant
NCA36: CLUBB ST ROZELLE	25/05/2022	11:40 AM	Attended	Laeq 1 minute	77	66.8	Compliant

NCA35: Warayama Pl, Rozelle	25/05/2022	12:06 PM	Attended	Laeq 1 minute	90	75.2	Compliant
NCA21: Johnston Street, Annandale NSW	28/05/2022	12:54 AM	Attended	Laeq 1 minute	47	50.6	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 27: Glebe Point Road, Glebe	30/05/2022	12:30 AM	Attended	Laeq 1 minute	47	51.8	Compliant – Extraneous noise (traffic) was the dominate noise source.
NCA 21: Johnston St, Annandale	30/05/2022	12:42 AM	Attended	Laeq 1 minute	53	50.2	Compliant
NCA 25: Lilyfield Road, Rozelle	30/05/2022	11:00 PM	Attended	Laeq 1 minute	55	50.2	Compliant
NCA25: Lilyfield Road, Rozelle	30/05/2022	11:20 PM	Attended	Laeq 1 minute	52	46.8	Compliant
NCA 25: Lilyfield Road, Rozelle	31/05/2022	11:00 PM	Attended	Laeq 1 minute	55	55.7	Compliant – Extraneous noise (traffic) was the dominate noise source.