

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: February 2023

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	02/02/2023	10.6	8.33	No	Each Discharge	Compliant
RRY - A	03/02/2023	9.5	7.49	No	Each Discharge	Compliant
RRY - A	07/02/2023	14	7.99	No	Each Discharge	Compliant
RRY - 06	11/02/2023	28	8.36	No	Each Discharge	Compliant
RRY - 06	13/02/2023	9	7.86	No	Each Discharge	Compliant
RRY - 06	14/02/2023	21	8.2	No	Each Discharge	Compliant
RRY - 06	15/02/2023	22	6.69	No	Each Discharge	Compliant
RRY - 06	15/02/2023	25	6.82	No	Each Discharge	Compliant
RRY - 06	16/02/2023	20	7.14	No	Each Discharge	Compliant
RRY - 06	17/02/2023	45	7.51	No	Each Discharge	Compliant
VRE - 07	20/02/2023	10.7	6.6	No	Each Discharge	Compliant
VRE - 07	21/02/2023	30.1	6.72	No	Each Discharge	Compliant
VRE - 07	24/02/2023	4	7	No	Each Discharge	Compliant
VRE - 07	27/02/2023	2.1	7.45	No	Each Discharge	Compliant
VRE - 07	27/02/2023	38.8	7.45	No	Each Discharge	Compliant
VRE - 07	28/02/2023	6.6	7.39	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
01/02/2023	RRY-C	0.4	7	None visible	0.0004	<0.00005	0.012	<0.001	0.0022	<0.002	<0.0001	0.0354	0.0004	0.0009	0.009	01/02/2023	RRY-C
07/02/2023	RRY-A	3	7.74	None visible	0.0003	<0.00005	0.008	<0.001	0.0011	<0.002	0.0001	0.34	<0.0001	0.0008	0.005	07/02/2023	RRY-A
08/02/2023	RRY-A	6.4	7.83	None visible	0.0003	<0.00005	0.006	0.001	0.0009	0.007	<0.0001	0.111	<0.0001	0.0005	0.003	08/02/2023	RRY-A
09/02/2023	RRY-A	2.3	8.09	None visible	0.0003	<0.00005	0.008	<0.001	0.0007	0.002	<0.0001	0.134	<0.0001	<0.0005	0.003	09/02/2023	RRY-A
14/02/2023	RRY-A	2.5	7.43	None visible	0.0006	<0.00005	0.006	<0.001	0.0012	0.002	<0.0001	0.0308	<0.0001	0.0006	0.003	14/02/2023	RRY-A
15/02/2023	RRY-A	1.2	7.69	None visible	<0.001	<0.0001	0.003	0.001	0.001	<0.05	<0.001	0.03	<0.0001	<0.001	0.006	15/02/2023	RRY-A

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 February 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
NCA28: Bowman St, Pyrmont	02/02/2023	7:19 AM	Attended	Laeq 15 minute	40	55.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Railway Pde, Annandale	02/02/2023	8:02 AM	Attended	Laeq 15 minute	52	67.7	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Lilyfield Rd, Rozelle	02/02/2023	9:31 AM	Attended	Laeq 15 minute	72	65.4	Compliant
NCA24: Hutcheson St, Rozelle	02/02/2023	9:56 AM	Attended	Laeq 15 minute	71	66.2	Compliant
NCA19: Cecily St, Lilyfield	02/02/2023	10:19 AM	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	02/02/2023	10:45 AM	Attended	Laeq 15 minute	70	66.4	Compliant
NCA27: Alexandra Rd, Glebe	03/02/2023	7:53 AM	Attended	Laeq 15 minute	61	54.3	Compliant

NCA27: Glebe Point Rd, Glebe	03/02/2023	8:15 AM	Attended	Laeq 15 minute	63	69.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Johnston St, Annandale	03/02/2023	8:47 AM	Attended	Laeq 15 minute	92	66.6	Compliant
NCA20: Brenan St, Lilyfield	03/02/2023	9:14 AM	Attended	Laeq 15 minute	51	61.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burt St, Rozelle	07/02/2023	10:08 AM	Attended	Laeq 15 minute	62	72.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	07/02/2023	10:28 AM	Attended	Laeq 15 minute	79	68.5	Compliant
NCA25: Hornsey St, Rozelle	07/02/2023	12:38 PM	Attended	Laeq 15 minute	79	62.1	Compliant
NCA25: Gordon St, Rozelle	07/02/2023	12:59 PM	Attended	Laeq 15 minute	49	65.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA33: Toelle St, Rozelle	15/02/2023	10:23 AM	Attended	Laeq 15 minute	76	65.4	Compliant

NCA35: Clubb St, Rozelle	15/02/2023	10:41 AM	Attended	Laeq 15 minute	72	67	Compliant
NCA26: James Craig Rd, Rozelle	17/02/2023	7:30 AM	Attended	Laeq 15 minute	61	70.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA21: Pritchard St, Annandale	17/02/2023	8:43 AM	Attended	Laeq 15 minute	77	60.1	Compliant
NCA29: Victoria Rd, Rozelle	17/02/2023	9:02 AM	Attended	Laeq 15 minute	61	74.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA29: Crescent St, Rozelle	17/02/2023	9:23 AM	Attended	Laeq 15 minute	53	54.4	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA16: Lilyfield Rd, Lilyfield	27/02/2023	8:20 AM	Attended	Laeq 15 minute	43	67	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA36: Warayama Pl, Rozelle	27/02/2023	11:28 AM	Attended	Laeq 15 minute	76	74.6	Compliant