

JHCPB Joint Venture

# EPL Monthly Monitoring Report

Reporting Period: June 2023

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

Rev	Date	Prepared by	Reviewed by	Approved by	Remarks
00	03/07/2023	██████	██████	C Moriarty	

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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

No surface water monitoring for discharge was conducted during this reporting period.

<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
16/06/2023	WHT Dis 1*	0.6	7.17	None visible	0.0004	<0.00005	0.009	<0.01	<0.0005	<0.002	<0.0001	0.003	<0.0001	<0.0005	0.004	16/06/2023	WHT Dis 1*
26/06/2023	RRY-A	2.3	7.5	None visible	0.0003	0.00017	0.002	<0.001	0.0018	0.004	<0.0001	0.0736	<0.0001	0.0021	0.013	26/06/2023	WHT Dis 1*
27/06/2023	WHT Dis 1*	0.3	6.83	None visible	0.0003	<0.00005	0.012	<0.001	<0.0005	<0.002	<0.0001	0.0038	<0.0001	<0.0005	0.003	27/06/2023	RRY-A

\*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 June 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
NCA20: Brenan St, Lilyfield	05/06/2023	4:16 PM	Attended	Laeq 15 minute	51	60	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA27: Alexandra Rd, Glebe	06/06/2023	1:34 PM	Attended	Laeq 15 minute	61	53.3	Compliant
NCA27: Glebe Point Rd, Glebe	06/06/2023	2:18 PM	Attended	Laeq 15 minute	63	59.9	Compliant
NCA24: Lilyfield Rd, Rozelle	07/06/2023	10:13 AM	Attended	Laeq 15 minute	72	64.6	Compliant
NCA24: Hutcheson St, Rozelle	07/06/2023	10:32 AM	Attended	Laeq 15 minute	71	67.7	Compliant
NCA21: Railway Pde, Annandale	08/06/2023	12:39 PM	Attended	Laeq 15 minute	52	56.5	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA16: Lilyfield Rd, Lilyfield	09/06/2023	9:36 AM	Attended	Laeq 15 minute	63	66	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA19: Ryan St, Lilyfield	09/06/2023	9:56 AM	Attended	Laeq 15 minute	70	67.3	Compliant
NCA19: Cecily St, Lilyfield	09/06/2023	10:15 AM	Attended	Laeq 15 minute	57	62.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.

NCA25: Lilyfield Rd, Rozelle	09/06/2023	10:47 AM	Attended	Laeq 15 minute	79	60.6	Compliant
NCA21: Pritchard St, Annandale	19/06/2023	1:30 PM	Attended	Laeq 15 minute	77	54.1	Compliant
NCA23: Johnston St, Annandale	19/06/2023	1:53 PM	Attended	Laeq 15 minute	73	62.8	Compliant
NCA21: Johnston St, Annandale	21/06/2023	3:43 PM	Attended	Laeq 15 minute	92	66.2	Compliant
OSR: James Craig Rd, Rozelle	21/06/2023	4:10 PM	Attended	Laeq 15 minute	61	69.8	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	21/06/2023	9:42 PM	Attended	Laeq 15 minute	56	70.2	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	21/06/2023	11:04 PM	Attended	Laeq 15 minute	50	63	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Lilyfield Rd, Rozelle	22/06/2023	1:00 AM	Attended	Laeq 15 minute	50	63.6	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA24: Burt St, Rozelle	27/06/2023	2:22 PM	Attended	Laeq 15 minute	62	57.7	Compliant

NCA25: Gordon St, Rozelle	27/06/2023	2:42 PM	Attended	Laeq 15 minute	49	60.9	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA25: Hornsey St, Rozelle	27/06/2023	3:06 PM	Attended	Laeq 15 minute	64	58	Compliant
NCA36: Warayama Pl, Rozelle	28/06/2023	2:13 PM	Attended	Laeq 15 minute	85	52.2	Compliant
NCA33: Toelle St, Rozelle	28/06/2023	2:37 PM	Attended	Laeq 15 minute	72	68.8	Compliant
NCA35: Clubb St, Rozelle	28/06/2023	2:55 PM	Attended	Laeq 15 minute	72	62.5	Compliant
NCA29: Crescent St, Rozelle	28/06/2023	3:31 PM	Attended	Laeq 15 minute	53	54.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
OSR: Victoria Rd, Rozelle	28/06/2023	4:08 PM	Attended	Laeq 15 minute	61	75.3	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.
NCA28: Bowman St, Pymont	28/06/2023	4:37 PM	Attended	Laeq 15 minute	40	56.1	Compliant – Extraneous noise (traffic) was the dominate noise source. Project-related noise below target level.