

JHCPB Joint Venture

## EPL Monthly Monitoring Report

Reporting Period: March 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	01/03/2022	49.2	6.9	No	Each Discharge	Compliant
RRY-A	02/03/2022	0	7.25	No	Each Discharge	Compliant
ICL02	03/03/2022	44.6	6.95	No	Each Discharge	Compliant
RRY-A	03/03/2022	23.8	7.04	No	Each Discharge	Compliant
RRY-A	04/03/2022	0	6.75	No	Each Discharge	Compliant
RRY-A	04/03/2022	6.5	7.44	No	Each Discharge	Compliant
VRE07	04/03/2022	11.1	6.92	No	Each Discharge	Compliant
RRY-A	07/03/2022	45	7.56	No	Each Discharge	Compliant
ICL02	09/03/2022	8.8	8.39	No	Each Discharge	Compliant
RRY-A	09/03/2022	15.2	7.52	No	Each Discharge	Compliant
RRY06	09/03/2022	45	7.6	No	Each Discharge	Compliant
RRY06	09/03/2022	2.37	8.2	No	Each Discharge	Compliant
RRY03	09/03/2022	20	8.1	No	Each Discharge	Compliant
RRY-A	09/03/2022	42.5	7.25	No	Each Discharge	Compliant
RRY-A	10/03/2022	0	7.12	No	Each Discharge	Compliant
VRE07	10/03/2022	38	8.25	No	Each Discharge	Compliant
VRE07	09/03/2022	43.7	7.27	No	Each Discharge	Compliant
VRE07	10/03/2022	27.4	7.55	No	Each Discharge	Compliant
RRY06	11/03/2022	20	7.7	No	Each Discharge	Compliant
VRE07	11/03/2022	17	7.4	No	Each Discharge	Compliant

VRE07	14/03/2022	12.2	7.97	No	Each Discharge	Compliant
RRY-A	15/03/2022	44.3	6.74	No	Each Discharge	Compliant
VRE07	18/03/2022	7.1	7.37	No	Each Discharge	Compliant
RRY-A	17/03/2022	3.1	7.66	No	Each Discharge	Compliant
VRE07	18/03/2022	14.4	7.6	No	Each Discharge	Compliant
VRE07	18/03/2022	25.2	7.59	No	Each Discharge	Compliant
VRE07	18/03/2022	15.7	7.79	No	Each Discharge	Compliant
VRE07	19/03/2022	17	7.4	No	Each Discharge	Compliant
VRE07	19/03/2022	19	7.4	No	Each Discharge	Compliant
ICL02	21/03/2022	44	7.21	No	Each Discharge	Compliant
RRY-A	22/03/2022	28.3	7.21	No	Each Discharge	Compliant
VRE 07	21/03/2022	3.2	8.4	No	Each Discharge	Compliant
VRE07	21/03/2022	34.1	8.45	No	Each Discharge	Compliant
RRY-A	28/03/2022	2.44	7.31	No	Each Discharge	Compliant
RRY-A	28/03/2022	28.5	7.09	No	Each Discharge	Compliant
RRY-03	29/03/2022	32	7.3	No	Each Discharge	Compliant
ICL02	30/03/2022	25.2	6.73	No	Each Discharge	Compliant
RRY-03	30/03/2022	12	7.7	No	Each Discharge	Compliant
RRY-A	30/03/2022	2.2	8.2	No	Each Discharge	Compliant
RRY-A	30/03/2022	13.3	7.56	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
01/03/2022	RRY-C	1.2	7.4	None visible	0.0004	<0.00005	0.02	<0.001	0.0047	<0.002	0.0002	0.0021	<0.0001	<0.0005	0.034	Monthly	Compliant
01/03/2022	RRY-C	1.6	7.84	None visible	0.0008	<0.00005	0.003	0.001	0.0014	0.016	0.0001	0.275	<0.0001	0.0006	0.035	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 March 2022 reporting period. All construction noise monitoring results were complaint during this period. 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
NCA 24, Denison Street, Rozelle	01/03/2022		Unattended	Laeq 1 minute	41	33	Compliant
NCA21, Johnston Street, Annandale	09/03/2022	10:55 PM	Attended	Laeq 15 minutes	73	54.6	Complaint
NCA24, Hutcheson Street, Rozelle	10/03/2022	1:02 AM	Attended	Laeq 15 minutes	59	49.5	Complaint
NCA25, Lilyfield Road, Rozelle	10/03/2022	12:05 AM	Attended	Laeq 15 minutes	59	53.9	Complaint
NCA 19, Foucart Street, Rozelle	11/03/2022		Unattended	Laeq 1 minute	41	28	Complaint
NCA33, Toelle Street, Rozelle	18/03/2022	11:19 AM	Attended	Laeq 15 minutes	87	65.3	Complaint
NCA36, Clubb St, Rozelle	18/03/2022	11:58 AM	Attended	Laeq 15 minutes	77	65.2	Complaint
NCA24, Hutcheson Street, Rozelle	21/03/2022	1:17 AM	Attended	Laeq 15 minutes	63	46.8	Complaint
NCA21, Johnston Street, Annandale	21/03/2022	10:46 PM	Attended	Laeq 15 minutes	85	55.3	Complaint
NCA19, Lilyfield Road, Rozelle	21/03/2022	11:43 PM	Attended	Laeq 15 minutes	65	56.6	Complaint
NCA27, Glebe Point Road	22/03/2022	10:07 AM	Attended	Laeq 15 minutes	64	61.3	Complaint
NCA21, Johnston Street, Annandale	22/03/2022	10:34 AM	Attended	Laeq 15 minutes	81	77.6	Complaint
NCA21, Railway Pde Annandale	22/03/2022	10:59 AM	Attended	Laeq 15 minutes	82	67	Complaint

NCA20, Brenan St, Lilyfield	22/03/2022	11:18 AM	Attended	Laeq 15 minutes	74	63.2	Complaint
NCA25, Lilyfield Road, Rozelle	22/03/2022	11:56 AM	Attended	Laeq 15 minutes	79	57.8	Complaint
NCA24, Burt St, Rozelle	22/03/2022	12:35 PM	Attended	Laeq 15 minutes	64	59.6	Complaint
NCA19, Ryan St, Lilyfield	22/03/2022	1:00 PM	Attended	Laeq 15 minutes	90	64.1	Complaint
NCA25, Lilyfield Road, Rozelle	22/03/2022	10:54 PM	Attended	Laeq 15 minutes	62	52.3	Complaint
NCA25, Lilyfield Road, Rozelle	22/03/2022	12:35 AM	Attended	Laeq 15 minutes	71	44.4	Complaint
NCA21, Bayview Crescent, Annandale	23/03/2022	12:05 AM	Attended	Laeq 15 minutes	75	57.1	Complaint
NCA24, Burt Street, Rozelle	23/03/2022	12:32 AM	Attended	Laeq 15 minutes	65	48.2	Complaint
NCA19, Foucart Street, Rozelle	23/03/2022	11:38 PM	Attended	Laeq 15 minutes	65	47.3	Complaint
NCA24, Hutcheson Street, Rozelle	28/03/2022	8:08 AM	Attended	Laeq 15 minutes	71	63	Complaint
NCA25, Lilyfield Road, Rozelle	30/03/2022	1:15 AM	Attended	Laeq 15 minutes	71	52.5	Complaint
NCA24, Burt Street, Rozelle	30/03/2022	1:44 AM	Attended	Laeq 15 minutes	65	49.6	Complaint
NCA21, Johnston Street, Annandale	30/03/2022	2:32 AM	Attended	Laeq 15 minutes	85	47.9	Complaint
NCA27, Northcote Road, Glebe	30/03/2022	3:08 AM	Attended	Laeq 15 minutes	56	39.8	Complaint

NCA21, Johnston Street, Annandale	31/03/2022	11:56 PM	Attended	Laeq 15 minutes	85	48.8	Complaint
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