

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: March 2020

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
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WestConnex

Rozelle Interchange

**JOHN
HOLLAND**



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://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=174300&SYSUID=1&LICID=21278>

3. Water Monitoring

Water monitoring was undertaken during this reporting period. Table 1 and 2 contains the water monitoring results.

Table 1 Surface water quality monitoring results

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Not Visible	N/A	Licence Limit
RRY02	06/03/2020	42.5	8.19	No	Each discharge	Compliant
ICL02	09/03/2020	25.4	7.39	No	Each discharge	Compliant
ICL02	09/03/2020	8.7	7.06	No	Each discharge	Compliant
ICL01	09/03/2020	11.0	6.74	No	Each discharge	Compliant
RRY03	10/03/2020	43.4	7.9	No	Each discharge	Compliant
ICL02	10/03/2020	17.6	6.96	No	Each discharge	Compliant
ICL01	10/03/2020	10.2	7.29	No	Each discharge	Compliant
ICL02	10/03/2020	21.6	6.57	No	Each discharge	Compliant
ICL01	11/03/2020	22.3	6.77	No	Each discharge	Compliant
ICL02	11/03/2020	13.4	7.01	No	Each discharge	Compliant
ICL02	11/03/2020	25.4	7.76	No	Each discharge	Compliant
ICL01	11/03/2020	34.9	6.95	No	Each discharge	Compliant
ICL02	11/03/2020	17.7	6.51	No	Each discharge	Compliant
RRY02	11/03/2020	8.4	7.2	No	Each discharge	Compliant
RRY03	11/03/2020	41	7.45	No	Each discharge	Compliant
ICL02	12/03/2020	6.2	7.04	No	Each discharge	Compliant
ICL01	12/03/2020	25.6	7.20	No	Each discharge	Compliant
RRY03	12/03/2020	9.8	6.55	No	Each discharge	Compliant
RRY02	12/03/2020	25	7.34	No	Each discharge	Compliant
RRY02	12/03/2020	43	6.6	No	Each discharge	Compliant
RRY03	16/03/2020	5	8.1	No	Each discharge	Compliant
RRY04	17/03/2020	0	6.7	No	Each discharge	Compliant
RRY03	17/03/2020	0	6.76	No	Each discharge	Compliant

¹ A correlation between TSS and Turbidity has been established. Including a safety factor the turbidity limit is 50NTU

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Not Visible	N/A	Licence Limit
ICL02	17/03/2020	31.7	6.71	No	Each discharge	Compliant
ICL02	17/03/2020	12.7	7.37	No	Each discharge	Compliant
ICL01	17/03/2020	15.5	7.54	No	Each discharge	Compliant
ICL01	18/03/2020	38.1	7.25	No	Each discharge	Compliant
RRY02	18/03/2020	3.4	6.84	No	Each discharge	Compliant
ICL02	18/03/2020	26.8	7.19	No	Each discharge	Compliant
RRY02	18/03/2020	45	7.6	No	Each discharge	Compliant
ICL02	19/03/2020	6.5	6.65	No	Each discharge	Compliant
RRY03	19/03/2020	0	7.23	No	Each discharge	Compliant
RRY03	19/03/2020	26.6	6.52	No	Each discharge	Compliant
RRY03	23/03/2020	1.2	6.96	No	Each discharge	Compliant
RRY04	24/03/2020	4.0	6.52	No	Each discharge	Compliant
RRY03	25/03/2020	7.7	6.67	No	Each discharge	Compliant
RRY03	25/03/2020	48.1	7.4	No	Each discharge	Compliant
RRY03	26/03/2020	6.4	7.68	No	Each discharge	Compliant
RRY03	26/03/2020	41.3	8.2	No	Each discharge	Compliant
RRY02	26/03/2020	31.5	8.35	No	Each discharge	Compliant
ICL01	26/03/2020	34.3	6.72	No	Each discharge	Compliant
ICL02	27/03/2020	16.5	7.1	No	Each discharge	Compliant
ICL02	27/03/2020	33.7	7.14	No	Each discharge	Compliant
RRY03	28/03/2020	20.9	8.45	No	Each discharge	Compliant
RRY03	28/03/2020	8.4	7.33	No	Each discharge	Compliant
RRY03	30/03/2020	9.8	7.23	No	Each discharge	Compliant
RRY01	31/03/2020	21.2	6.66	No	Each discharge	Compliant

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Not Visible	N/A	Licence Limit
RRY01	31/03/2020	23.3	6.98	No	Each discharge	Compliant

Table 2 Water quality monitoring results at Water Treatment Plant which processes ground water

Discharge/ Monitoring Point	Date Sampled	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	Not visible	0.05	0.014	0.02	0.0486	0.003	0.3	0.0066	2.5	0.0007	0.2	0.023	N/A	Licence Limit
RRY-C	13/03/2020	34.82	7.09	Not visible	<0.001	<0.0002	<0.001	0.033	<0.001	<0.05	<0.001	0.086	0.0001	<0.001	<0.005	Monthly	Compliant

4. Noise Monitoring

Noise monitoring was undertaken during this reporting period. Table 3 contains the noise monitoring results.

Table 3 Noise monitoring results

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
NCA33, Victoria Rd, Rozelle	9/03/2020	11:37 PM	Attended	Laeq 15 minutes	86	80.4	Compliant
NCA29, Batty St, Rozelle	10/03/2020	12:27 AM	Attended	Laeq 15 minutes	54	41.8	Compliant
NCA34, Terry St, Rozelle	10/03/2020	12:51 AM	Attended	Laeq 15 minutes	85	67.2	Compliant
NCA25, Lilyfield Rd, Rozelle	10/03/2020	1:50 AM	Attended	Laeq 15 minutes	63	59.9	Compliant
NCA33, Victoria Rd, Rozelle	10/03/2020	11:25 PM	Attended	Laeq 15 minutes	86	72.8	Compliant
NCA36, Byrnes St, Rozelle	10/03/2020	11:55 PM	Attended	Laeq 15 minutes	74	52.6	Compliant
NCA34, Terry St, Rozelle	11/03/2020	12:25 AM	Attended	Laeq 15 minutes	85	57.8	Compliant
NCA29, Batty St, Rozelle	11/03/2020	1:05 AM	Attended	Laeq 15 minutes	64	42.3	Compliant
NCA25, Lilyfield Rd, Rozelle	11/03/2020	3:20 AM	Attended	Laeq 15 minutes	50	54.5	Compliant, exceedance attributed to non-JHCPB activities.
NCA21, Railway Pde, Annandale	12/03/2020	10:15 PM	Attended	Laeq 15 minutes	72	54.0	Compliant
NCA24, Lilyfield Rd, Rozelle	12/03/2020	11:15 PM	Attended	Laeq 15 minutes	68	61.2	Compliant
NCA25, Lilyfield Rd, Rozelle	12/03/2020	11:40 PM	Attended	Laeq 15 minutes	69	52.2	Compliant
NCA34, Terry St, Rozelle	13/03/2020	12:10 AM	Attended	Laeq 15 minutes	94	62.8	Compliant
NCA33, Toelle St, Rozelle	13/03/2020	12:40 AM	Attended	Laeq 15 minutes	70	60.6	Compliant
NCA21, Railway Pde, Annandale	13/03/2020	1:55 AM	Attended	Laeq 15 minutes	72	52.2	Compliant
NCA21, Johnston St, Annandale	15/03/2020	10:15 PM	Attended	Laeq 15 minutes	53	57.5	Compliant, exceedance attributed to non-JHCPB activities.
NCA34, Terry St, Rozelle	16/03/2020	11:15 PM	Attended	Laeq 15 minutes	94	79	Compliant
NCA33, Toelle St, Rozelle	16/03/2020	11:42 PM	Attended	Laeq 15 minutes	70	65.8	Compliant
NCA35, Warayama Pl, Rozelle	17/03/2020	12:09 AM	Attended	Laeq 15 minutes	92	44.3	Compliant
NCA25, Lilyfield Rd, Rozelle	22/03/2020	1:15 AM	Attended	Laeq 15 minutes	82	63.7	Compliant
NCA29, Crescent St, Rozelle	22/03/2020	1:45 AM	Attended	Laeq 15 minutes	51	56.9	Compliant, exceedance attributed to non-JHCPB activities.

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
NCA25, Lilyfield Rd, Rozelle	22/03/2020	2:15 AM	Attended	Laeq 15 minutes	82	67.1	Compliant
NCA36, Clubb St, Rozelle	23/03/2020	10:56 PM	Attended	Laeq 15 minutes	74	62.7	Compliant
NCA35, Warayama Pl, Rozelle	23/03/2020	11:27 PM	Attended	Laeq 15 minutes	92	50.3	Compliant
NCA29, Crescent St, Rozelle	24/03/2020	11:08 PM	Attended	Laeq 15 minutes	60	54.5	Compliant
NCA25, Lilyfield Rd, Rozelle	24/03/2020	11:40 PM	Attended	Laeq 15 minutes	87	67.4	Compliant
NCA21, Railway Pde, Annandale	25/03/2020	12:50 AM	Attended	Laeq 15 minutes	73	49.6	Compliant
NCA23, Johnston St, Annandale	25/03/2020	1:21 AM	Attended	Laeq 15 minutes	67	49.3	Compliant
NCA25, Gordon St, Rozelle	29/03/2020	8:36 PM	Attended	Laeq 15 minutes	57	53.2	Compliant
NCA25, Lilyfield Rd, Rozelle	31/03/2020	11:25 PM	Attended	Laeq 15 minutes	101	83.5	Compliant
NCA25, Lilyfield Rd, Rozelle	31/03/2020	11:46 PM	Attended	Laeq 15 minutes	81	79.5	Compliant