

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: June 2020

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.

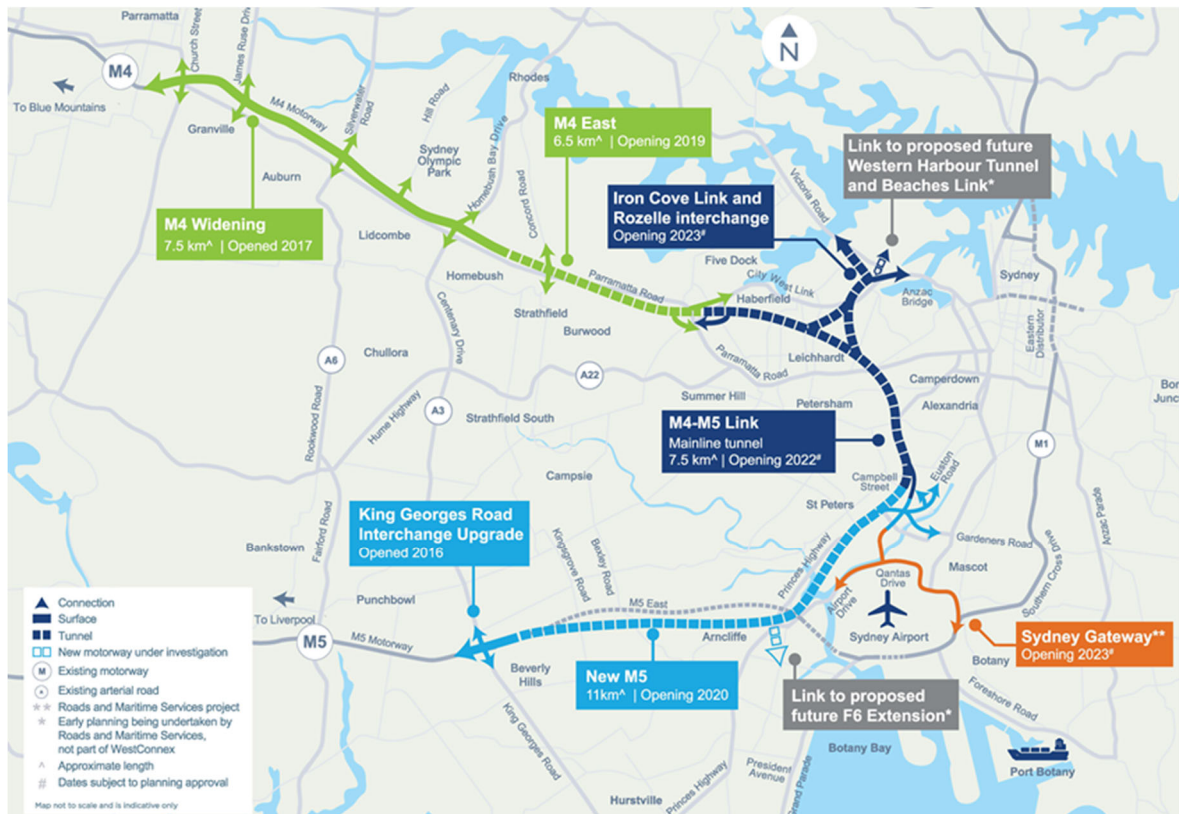


Figure 1 Westconnex Project Overview

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=188944&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	Visible	N/A	Licence Limit
CWL01	01/06/2020	1.9	7.22	No	Each discharge	Compliant
CWL01	01/06/2020	4.4	7.19	No	Each discharge	Compliant
CWL01	01/06/2020	10.3	7.7	No	Each discharge	Compliant
CWL01	01/06/2020	17.8	7.47	No	Each discharge	Compliant
CWL01	01/06/2020	39.4	7.59	No	Each discharge	Compliant
ICL01	01/06/2020	6.2	7.36	No	Each discharge	Compliant
RRY03	01/06/2020	47.1	7.08	No	Each discharge	Compliant
RRY03	01/06/2020	43.1	7.1	No	Each discharge	Compliant
ICL02	02/06/2020	10.8	7.45	No	Each discharge	Compliant
ICL02	02/06/2020	26.7	8.32	No	Each discharge	Compliant
RRY03	02/06/2020	13.4	6.54	No	Each discharge	Compliant
RRY03	02/06/2020	45.6	7.34	No	Each discharge	Compliant
RRY03	02/06/2020	48.3	7.21	No	Each discharge	Compliant
CWL01	02/06/2020	2.1	7.53	No	Each discharge	Compliant
CWL01	02/06/2020	35.3	7.59	No	Each discharge	Compliant
CWL01	02/06/2020	41.4	7.64	No	Each discharge	Compliant
ICL02	02/06/2020	35.5	7.41	No	Each discharge	Compliant
ICL02	03/06/2020	48.5	7.54	No	Each discharge	Compliant
CWL01	03/06/2020	2.8	7.74	No	Each discharge	Compliant
CWL01	03/06/2020	11.6	8.33	No	Each discharge	Compliant
CWL01	03/06/2020	32.1	8.01	No	Each discharge	Compliant
CWL01	03/06/2020	26.5	7.92	No	Each discharge	Compliant
CWL01	03/06/2020	41	7.98	No	Each discharge	Compliant
RRY03	03/06/2020	20.1	7.23	No	Each discharge	Compliant
CWL01	04/06/2020	4.7	8.3	No	Each discharge	Compliant
ICL02	04/06/2020	30.3	7.21	No	Each discharge	Compliant

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

Discharge/Monitoring Point	Date sampled	Total suspended solids (mg/L)	pH	Oil & Grease	Monitoring frequency	Comment
		50 ¹	6.5-8.5	Visible	N/A	Licence Limit
CWL01	04/06/2020	14.4	8.04	No	Each discharge	Compliant
RRY03	04/06/2020	39.9	6.89	No	Each discharge	Compliant
CWL01	04/06/2020	44.2	7.47	No	Each discharge	Compliant
CWL01	04/06/2020	43	7.83	No	Each discharge	Compliant
ICL02	04/06/2020	2.9	6.59	No	Each discharge	Compliant
CWL01	05/06/2020	14	7.62	No	Each discharge	Compliant
CWL01	05/06/2020	30.3	7.73	No	Each discharge	Compliant
CWL01	09/06/2020	0.3	7.32	No	Each discharge	Compliant
CWL01	09/06/2020	11.4	7.58	No	Each discharge	Compliant
CWL01	09/06/2020	2.3	7.88	No	Each discharge	Compliant
CWL05	09/06/2020	1.9	7.8	No	Each discharge	Compliant
CWL02	09/06/2020	48.3	7.19	No	Each discharge	Compliant
RRY03	09/06/2020	5.2	8.28	No	Each discharge	Compliant
ICL02	10/06/2020	22.1	8.30	No	Each discharge	Compliant
ICL02	10/06/2020	46.9	6.92	No	Each discharge	Compliant
CWL01	10/06/2020	4.3	7.32	No	Each discharge	Compliant
ICL02	10/06/2020	40.7	7.13	No	Each discharge	Compliant
CWL01	10/06/2020	5.7	7.99	No	Each discharge	Compliant
CWL05	10/06/2020	6.5	8.12	No	Each discharge	Compliant
CWL01	10/06/2020	40.2	7.34	No	Each discharge	Compliant
RRY03	10/06/2020	27.9	6.94	No	Each discharge	Compliant
CWL01	10/06/2020	31.8	7.27	No	Each discharge	Compliant
RRY03	10/06/2020	39.2	7.26	No	Each discharge	Compliant
RRY02	10/06/2020	19.6	6.9	No	Each discharge	Compliant
CWL01	11/06/2020	0	7.14	No	Each discharge	Compliant
CWL01	11/06/2020	3.5	7.22	No	Each discharge	Compliant
ICL02	11/06/2020	5.2	8.32	No	Each discharge	Compliant
CWL01	11/06/2020	3.2	7.24	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	Visible	N/A	Licence Limit
ICL02	11/06/2020	34	7.5	No	Each discharge	Compliant
ICL02	11/06/2020	6.3	7.5	No	Each discharge	Compliant
RRY02	11/06/2020	45.2	7.07	No	Each discharge	Compliant
ICL02	12/06/2020	8.1	8.17	No	Each discharge	Compliant
ICL02	12/06/2020	6.6	7.54	No	Each discharge	Compliant
ICL02	12/06/2020	21.7	8.46	No	Each discharge	Compliant
RRY02	12/06/2020	27.2	7.1	No	Each discharge	Compliant
RRY03	12/06/2020	31.3	6.98	No	Each discharge	Compliant
ICL02	15/06/2020	14.3	7.84	No	Each discharge	Compliant
ICL02	15/06/2020	4.4	6.54	No	Each discharge	Compliant
ICL02	15/06/2020	28.1	7.12	No	Each discharge	Compliant
CWL01	15/06/2020	4.2	7.54	No	Each discharge	Compliant
ICL02	15/06/2020	40.0	8.08	No	Each discharge	Compliant
RRY03	15/06/2020	20.2	7.04	No	Each discharge	Compliant
CWL01	15/06/2020	48.5	7.5	No	Each discharge	Compliant
CWL01	15/06/2020	46.8	7.67	No	Each discharge	Compliant
CWL01	16/06/2020	9.5	7.44	No	Each discharge	Compliant
CWL01	16/06/2020	5.2	7.4	No	Each discharge	Compliant
CWL01	16/06/2020	48	8.34	No	Each discharge	Compliant
CWL01	16/06/2020	48.6	8.28	No	Each discharge	Compliant
CWL01	16/06/2020	14.1	7.47	No	Each discharge	Compliant
ICL02	16/06/2020	18.0	7.05	No	Each discharge	Compliant
ICL04	16/06/2020	36.4	6.64	No	Each discharge	Compliant
ICL02	16/06/2020	9.5	7.69	No	Each discharge	Compliant
CWL01	16/06/2020	6.8	7.26	No	Each discharge	Compliant
CWL01	16/06/2020	44.1	7.83	No	Each discharge	Compliant
CWL01	16/06/2020	37.1	7.47	No	Each discharge	Compliant
RRY03	17/06/2020	33.2	7.1	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	Visible	N/A	Licence Limit
ICL02	17/06/2020	28.5	6.80	No	Each discharge	Compliant
CWL01	18/06/2020	6.5	7.23	No	Each discharge	Compliant
CWL01	18/06/2020	5.8	6.97	No	Each discharge	Compliant
ICL04	18/06/2020	44.9	7.04	No	Each discharge	Compliant
ICL02	19/06/2020	2.6	7.40	No	Each discharge	Compliant
ICL04	19/06/2020	44.4	6.86	No	Each discharge	Compliant
ICL02	19/06/2020	37.6	7.88	No	Each discharge	Compliant
CWL05	19/06/2020	6.9	7.74	No	Each discharge	Compliant
ICL04	19/06/2020	26.6	7.75	No	Each discharge	Compliant
CWL05	20/06/2020	0	7.10	No	Each discharge	Compliant
ICL02	20/06/2020	36	6.8	No	Each discharge	Compliant
RRY03	22/06/2020	30.8	6.52	No	Each discharge	Compliant
ICL02	22/06/2020	11.6	8.40	No	Each discharge	Compliant
ICL02	22/06/2020	16.5	6.78	No	Each discharge	Compliant
ICL04	22/06/2020	46.9	8.03	No	Each discharge	Compliant
ICL04	22/06/2020	45.3	7.94	No	Each discharge	Compliant
RRY03	23/06/2020	27.9	8.16	No	Each discharge	Compliant
ICL04	23/06/2020	43.9	7.63	No	Each discharge	Compliant
VRE04	23/06/2020	43.1	7.11	No	Each discharge	Compliant
ICL04	24/06/2020	39.1	7.12	No	Each discharge	Compliant
RRY03	25/06/2020	3.1	6.79	No	Each discharge	Compliant
ICL02	25/06/2020	15.8	6.83	No	Each discharge	Compliant
ICL02	25/06/2020	36.6	7.06	No	Each discharge	Compliant
ICL04	25/06/2020	38.5	7.76	No	Each discharge	Compliant
ICL04	26/06/2020	33.1	7.05	No	Each discharge	Compliant
RRY03	27/06/2020	16.3	6.72	No	Each discharge	Compliant
ICL04	29/06/2020	3.2	6.92	No	Each discharge	Compliant
RRY03	29/06/2020	37.4	6.7	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	Visible	N/A	Licence Limit
ICL04	29/06/2020	25.6	7.07	No	Each discharge	Compliant
ICL04	30/06/2020	34.9	6.75	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	Visible	0.05	0.014	0.07 ²	0.15	0.04 ¹	1.5	0.03	2.5	0.0007	0.2	0.15 ¹	N/A	Licence Limit
22/06/2020	RRY-C	0.9	7.0	None visible	0.0002	0.00005	0.022	0.001	0.0009	0.031	0.0001	0.0254	0.0001	0.0005	0.041	Monthly	Compliant
22/06/2020	RRY-A	0.03	6.92	None visible	0.0002	0.00005	0.016	0.001	0.0005	0.002	0.0001	0.0047	0.0001	0.0005	0.004	Monthly	Compliant

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 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
NCA21, Johnston St, Annandale	15/06/2020	9:30 PM	Attended	Laeq 15 minutes	91	63.2	Compliant
NCA23 Johnston St, Annandale	15/06/2020	10:04 PM	Attended	Laeq 15 minutes	72	57.6	Compliant
NCA24, Denison St, Rozelle	15/06/2020	11:00PM	Attended	Laeq 15 minutes	57	53.6	Compliant
NCA25, Lilyfield Rd, Rozelle	15/06/2020	10:52 PM	Attended	Laeq 15 minutes	62	51.5	Compliant
NCA27, Alexandra Rd, Glebe	15/06/2020	11:30 PM	Attended	Laeq 15 minutes	61	50.2	Compliant
NCA22, View St, Annandale	16/06/2020	11:57 PM	Attended	Laeq 15 minutes	53	47.1	Compliant
NCA28, Little Mount St, Pyrmont	16/06/2020	10:30 PM	Attended	Laeq 15 minutes	76	57.9	Compliant
NCA27, Ferry Rd, Glebe	16/06/2020	10:05 PM	Attended	Laeq 15 minutes	55	55.6	Compliant, exceedance attributed to non-project related sources.
NCA21, Johnston St, Annandale	17/06/2020	10:05 PM	Attended	Laeq 15 minutes	91	71.1	Compliant
NCA29, Crescent St, Rozelle	17/06/2020	11:10 PM	Attended	Laeq 15 minutes	76	72.8	Compliant
NCA25, Quirk St, Rozelle	17/06/2020	11:35 PM	Attended	Laeq 15 minutes	76	65.8	Compliant
NCA25, Lilyfield Rd, Rozelle	17/06/2020	1:10 AM	Attended	Laeq 15 minutes	62	52.7	Compliant
NCA27, Ferry Rd, Rozelle	17/06/2020	1:15 AM	Attended	Laeq 15 minutes	55	49.1	Compliant
NCA28, Little Mount St, Pyrmont	17/06/2020	1:45 AM	Attended	Laeq 15 minutes	76	53.2	Compliant
NCA23, Johnston St, Annandale	18/06/2020	10:06 PM	Attended	Laeq 15 minutes	72	60.7	Compliant
NCA21, Johnston St, Annandale	18/06/2020	10:31 PM	Attended	Laeq 15 minutes	91	71.0	Compliant
NCA22, View St, Annandale	18/06/2020	11:00 PM	Attended	Laeq 15 minutes	53	51.9	Compliant
NCA27, Alexandra Rd, Glebe	18/06/2020	11:25 PM	Attended	Laeq 15 minutes	61	42.4	Compliant
NCA25, Lilyfield Rd, Rozelle	19/06/2020	12:40 AM	Attended	Laeq 15 minutes	62	58.4	Compliant
NCA25, Quirk St, Rozelle	19/06/2020	1:03 AM	Attended	Laeq 15 minutes	76	60.5	Compliant
NCA29, Crescent St, Rozelle	19/06/2020	1:30 AM	Attended	Laeq 15 minutes	76	54.7	Compliant
NCA28, Little Mount St, Pyrmont	19/06/2020	9:58 PM	Attended	Laeq 15 minutes	76	59.3	Compliant
NCA41, Wentworth Park Rd, Glebe	19/06/2020	10:29 PM	Attended	Laeq 15 minutes	52	61.7	Compliant, exceedance attributed to non-project related sources.

Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
NCA41, Ferry Rd, Glebe	19/06/2020	11:00 PM	Attended	Laeq 15 minutes	55	49.7	Compliant
NCA38, Formosa St, Drummoyne	25/06/2020	1:08 AM	Attended	Laeq 15 minutes	86	65.0	Compliant
NCA38, Formosa St, Drummoyne	26/06/2020	11:49 PM	Attended	Laeq 15 minutes	86	65.6	Compliant