WestConnex
Rozelle Interchange

JOHN HOLLAND | CPB CONTRACTORS

JHCPB Joint Venture

EPL Monthly Monitoring Report

Reporting Period: May 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.

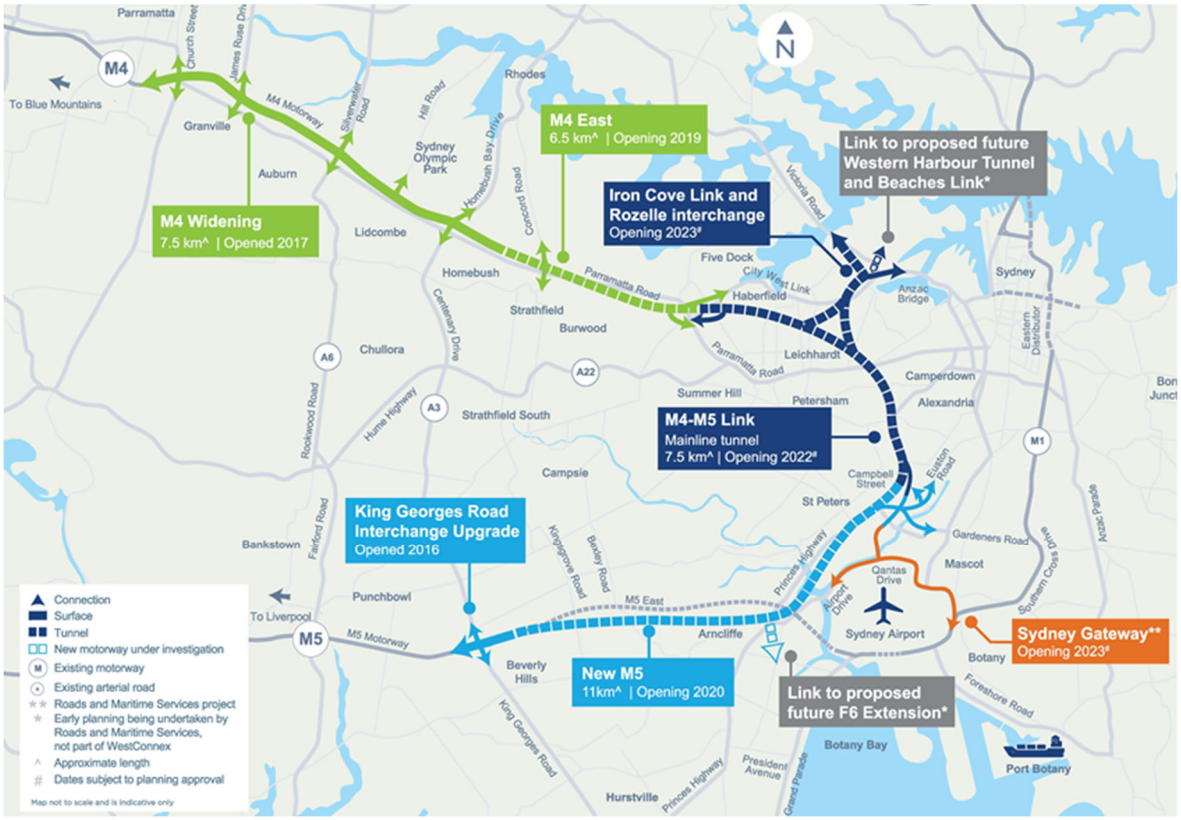

Figure 1 Westconnex Project Overview

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
RRY03	01/05/2020	17.1	8.43	No	Each discharge	Compliant
RRY03	01/05/2020	20.3	7.63	No	Each discharge	Compliant
ICL02	01/05/2020	38.5	7.49	No	Each discharge	Compliant
RRY03	01/05/2020	20.3	7.63	No	Each discharge	Compliant
RRY03	05/05/2020	14.6	6.97	No	Each discharge	Compliant
RRY02	05/05/2020	20.6	6.88	No	Each discharge	Compliant
RRY02	05/05/2020	20.3	6.66	No	Each discharge	Compliant
RRY03	06/05/2020	19.3	8.06	No	Each discharge	Compliant
RRY02	06/05/2020	19.7	7.1	No	Each discharge	Compliant
RRY03	07/05/2020	15.2	8.1	No	Each discharge	Compliant
RRY02	08/05/2020	48.1	7.42	No	Each discharge	Compliant
ICL01	11/05/2020	11.2	8.01	No	Each discharge	Compliant
ICL02	11/05/2020	34.4	7.29	No	Each discharge	Compliant
ICL02	11/05/2020	23.6	7.5	No	Each discharge	Compliant
ICL02	12/05/2020	4.2	7.86	No	Each discharge	Compliant
RRY03	11/05/2020	14.4	7.52	No	Each discharge	Compliant
RRY03	12/05/2020	21.01	7.74	No	Each discharge	Compliant
RRY03	13/05/2020	20.2	8.01	No	Each discharge	Compliant
RRY03	18/05/2020	9.5	7.34	No	Each discharge	Compliant
RRY02	19/05/2020	47.1	8.1	No	Each discharge	Compliant
RRY03	20/05/2020	49.1	8.1	No	Each discharge	Compliant
RRY03	20/05/2020	35.1	7.59	No	Each discharge	Compliant
ICL02	20/05/2020	29.8	7.16	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	Visible	N/A	Licence Limit
ICL02	20/05/2020	49.8	7.92	No	Each discharge	Compliant
ICL02	22/05/2020	46.5	6.69	No	Each discharge	Compliant
ICL02	22/05/2020	12.0	6.80	No	Each discharge	Compliant
RRY03	22/05/2020	27.2	7.1	No	Each discharge	Compliant
RRY03	22/05/2020	15.7	6.68	No	Each discharge	Compliant
RRY02	23/05/2020	43.5	7.54	No	Each discharge	Compliant
RRY03	23/05/2020	32.3	7.81	No	Each discharge	Compliant
RRY03	25/05/2020	21.3	7.42	No	Each discharge	Compliant
CWL01	25/05/2020	6.7	7.64	No	Each discharge	Compliant
CWL01	25/05/2020	30.9	7.91	No	Each discharge	Compliant
CWL01	25/05/2020	41.1	7.39	No	Each discharge	Compliant
RRY02	26/05/2020	25.1	7.75	No	Each discharge	Compliant
RRY03	26/05/2020	28.1	8.31	No	Each discharge	Compliant
ICL02	26/05/2020	24.8	7.59	No	Each discharge	Compliant
ICL02	26/05/2020	4.7	7.90	No	Each discharge	Compliant
ICL02	26/05/2020	4.6	8.03	No	Each discharge	Compliant
RRY02	27/05/2020	37.1	7.99	No	Each discharge	Compliant
CWL02	27/05/2020	17.7	7.63	No	Each discharge	Compliant
ICL02	27/05/2020	26.6	6.90	No	Each discharge	Compliant
ICL02	28/05/2020	4.5	6.57	No	Each discharge	Compliant
CWL01	28/05/2020	45.7	7.27	No	Each discharge	Compliant
RRY03	28/05/2020	23.5	6.98	No	Each discharge	Compliant
RRY03	28/05/2020	38.4	7.23	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	Visible	N/A	Licence Limit
RRY03	28/05/2020	33.1	7.1	No	Each discharge	Compliant
ICL02	29/05/2020	1.1	8.16	No	Each discharge	Compliant
CWL01	29/05/2020	10.5	7.53	No	Each discharge	Compliant
CWL01	29/05/2020	43.1	6.79	No	Each discharge	Compliant
RRY03	30/05/2020	25.9	8.48	No	Each discharge	Compliant

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

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
RRY-C	1/05/2020	6.2	7.44	Not visible	<0.001	<0.0002	<0.005	<0.005	<0.001	<0.05	<0.001	0.27	<0.0001	0.003	0.006	Monthly	Compliant
RRY-A	22/05/2020	3	7.79	Not visible	<0.001	<0.0002	0.014	<0.005	<0.001	<0.05	<0.001	<0.005	<0.0001	<0.001	<0.005	Monthly	Compliant
RRY-A	28/05/2020	1	6.87	Not visible	<0.001	<0.0002	0.014	<0.005	<0.001	<0.05	<0.001	<0.005	<0.0001	<0.001	<0.005	Monthly	Compliant
RRY-C	29/05/2020	17.5	7.4	Not visible	0.0003	0.00005	0.033	0.001	0.0006	0.02	0.0004	0.0009	0.0001	0.0005	0.01	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
NCA34, Terry St, Rozelle	04/05/2020	6:04 PM	Attended	Laeq 15 minutes	68	61.3	Compliant
NCA21, Railway Pde, Annandale	16/05/2020	1:00 PM	Attended	Laeq 15 minutes	83	57.9	Compliant
NCA21, Railway Pde, Annandale	16/05/2020	1:21 PM	Attended	Laeq 15 minutes	83	61.1	Compliant
NCA20, Brenan St, Lilyfield	16/05/2020	2:00 PM	Attended	Laeq 15 minutes	82	59.1	Compliant
NCA21, Pritchard St, Annandale	16/05/2020	2:24 PM	Attended	Laeq 15 minutes	75	57.0	Compliant
NCA19, Ryan St, Lilyfield	16/05/2020	2:52 PM	Attended	Laeq 15 minutes	64	55.0	Compliant
NCA21, Railway Pde, Annandale	17/05/2020	8:40 AM	Attended	Laeq 15 minutes	83	64.0	Compliant
NCA20, Brenan St, Lilyfield	17/05/2020	9:01 AM	Attended	Laeq 15 minutes	82	62.1	Compliant
NCA21, Pritchard St, Annandale	17/05/2020	9:21 AM	Attended	Laeq 15 minutes	75	57.1	Compliant
NCA19, Ryan St, Lilyfield	17/05/2020	9:45 AM	Attended	Laeq 15 minutes	64	54.0	Compliant
NCA21, Railway Pde, Annandale	17/05/2020	10:10 AM	Attended	Laeq 15 minutes	83	57.0	Compliant
NCA33, Springside St, Rozelle	19/05/2020	10:37 PM	Attended	Laeq 15 minutes	54	44.1	Compliant
NCA33, Toelle St, Rozelle	29/05/2020	9:03 PM	Attended	Laeq 15 minutes	82	56.8	Compliant
NCA35, Yarra Ave, Rozelle	29/05/2020	9:39 PM	Attended	Laeq 15 minutes	84	72.5	Compliant
NCA25, Hornsey St, Rozelle	29/05/2020	10:13 PM	Attended	Laeq 15 minutes	82	62.0	Compliant
NCA25, Quirk St, Rozelle	29/05/2020	10:40 PM	Attended	Laeq 15 minutes	77	66.4	Compliant
NCA25, Hornsey St, Rozelle	30/05/2020	12:44 AM	Attended	Laeq 15 minutes	82	57.0	Compliant