

JHCPB Joint Venture

## **EPL Monthly Monitoring Report**

Reporting Period: February 2020

Project	Rozelle Interchange and WHT Enabling Works – Design and Construct
Document No.	RIC-JHC-RPT-20-EN-001-020
Revision Date	09 February 2020

#### **Document Approval**

Rev	Date	Prepared by	Reviewed by	Approved by	Remarks
00	09/03/2020				



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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://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 Table 2 contains the water monitoring results.



Table 1 Surface water quality monitoring results

Discharge/Monitoring	Date sampled	Total suspended solids (mg/L)	рН	Oil & Grease	Monitoring frequency	Comment
Point		50 <sup>1</sup>	6.5-8.5	Not Visible	N/A	Licence Limit
RRY02	4/02/2020	38.6	7.3	Not ∀isible	Each discharge	Compliant
RRY01	6/02/2020	49.5	7.48	Not ∀isible	Each discharge	Compliant
ICL01	10/02/2020	18.4	6.73	Not ∀isible	Each discharge	Compliant
VRE01	10/02/2020	37	8.08	Not ∀isible	Each discharge	Compliant
VRE01	10/02/2020	44.5	7.37	Not ∀isible	Each discharge	Compliant
RRY-C	11/02/2020	34.8	7.2	Not ∀isible	Each discharge	Compliant
ICL02	11/02/2020	41.4	7.69	Not ∀isible	Each discharge	Compliant
RRY03	11/02/2020	18	7.17	Not ∀isible	Each discharge	Compliant
RRY02	11/02/2020	16.2	6.89	Not ∀isible	Each discharge	Compliant
VRE01	11/02/2020	33.3	7.73	Not ∀isible	Each discharge	Compliant
VRE01	11/02/2020	18.4	6.79	Not ∀isible	Each discharge	Compliant
VRE01	11/02/2020	7.7	8.06	Not ∀isible	Each discharge	Compliant
VRE01	11/02/2020	7.7	8.06	Not ∀isible	Each discharge	Compliant
RRY-C	12/02/2020	39.2	7.2	Not ∀isible	Each discharge	Compliant
ICL02	12/02/2020	8.6	7.14	Not ∀isible	Each discharge	Compliant
RRY02	12/02/2020	17.8	7.10	Not ∀isible	Each discharge	Compliant
RRY02	12/02/2020	14.2	6.99	Not ∀isible	Each discharge	Compliant
RRY03	12/02/2020	8.1	7.4	Not ∀isible	Each discharge	Compliant
RRY03	12/02/2020	17	7.7	Not ∀isible	Each discharge	Compliant
VRE01	12/02/2020	12.4	7.02	Not ∀isible	Each discharge	Compliant
RRY03	12/02/2020	42.3	7.58	Not ∀isible	Each discharge	Compliant
RRY-C	13/02/2020	18.2	6.88	Not ∀isible	Each discharge	Compliant
RRY03	13/02/2020	2.5	7.93	Not ∀isible	Each discharge	Compliant

<sup>&</sup>lt;sup>1</sup> A correlation between TSS and Turbidity has been established. Including a safety factor the turbidity limit is 50NTU



						100-001
ICL02	13/02/2020	17.2	6.73	Not Visible	Each discharge	Compliant
RRY02	13/02/2020	18.2	6.88	Not Visible	Each discharge	Compliant
RRY-C	14/02/2020	25.1	7.43	Not Visible	Each discharge	Compliant
VRE01	14/02/2020	13.3	7	Not Visible	Each discharge	Compliant
RRY02	14/02/2020	38.6	6.61	Not Visible	Each discharge	Compliant
RRY02	14/02/2020	48.1	7.8	Not Visible	Each discharge	Compliant
RRY01	14/02/2020	25.1	7.43	Not Visible	Each discharge	Compliant
RRY02	17/02/2020	3.6	7.2	Not Visible	Each discharge	Compliant
ICL02	18/02/2020	17.5	6.81	Not Visible	Each discharge	Compliant
ICL02	18/02/2020	7.9	7.83	Not Visible	Each discharge	Compliant
RRY02	18/02/2020	23.1	6.76	Not Visible	Each discharge	Compliant
RRY-C	20/02/2020	24.8	8.04	Not Visible	Each discharge	Compliant
ICL02	20/02/2020	20.6	8.39	Not Visible	Each discharge	Compliant
ICL02	20/02/2020	18.3	7.63	Not Visible	Each discharge	Compliant
RRY01	20/02/2020	39.7	8.44	Not Visible	Each discharge	Compliant
RRY03	20/02/2020	33.2	7.52	Not Visible	Each discharge	Compliant
RRY03	21/02/2020	12.4	7.27	Not Visible	Each discharge	Compliant
RRY03	21/02/2020	18.2	7.61	Not Visible	Each discharge	Compliant
RRY03	21/02/2020	5.8	7.34	Not Visible	Each discharge	Compliant
ICL01	24/02/2020	47.8	6.88	Not Visible	Each discharge	Compliant
ICL02	24/02/2020	11.2	6.74	Not Visible	Each discharge	Compliant
ICL02	24/02/2020	24.9	7.40	Not Visible	Each discharge	Compliant
RRY02	26/02/2020	1.6	7.25	Not Visible	Each discharge	Compliant
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Table 2 Water quality monitoring results at Water Treatment Plant which processes ground water

	Monitoring	Date	Turbidity (NTU)	рН	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)		Monitoring frequency	Comment
		Sampled	50 <sup>1</sup>	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-B	13/02/2020	4.8	7.2	Not visible	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.05	<0.001	0.098	<0.0001	0.002	<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
NCA21 Railway Pde, Annandale	10/02/2020	10:23 PM	Attended	Laeq 15 minutes	73	52.2	Compliant
NCA36 Clubb St, Rozelle	18/02/2020	12:29 AM	Attended	Laeq 15 minutes	73	54.0	Compliant
NCA35 Warayama PI, Rozelle	18/02/2020	10:41 PM	Attended	Laeq 15 minutes	71	74.3	Compliant, exceedance attributed to non-JHCPB activities.
NCA23 Johnston St, Annandale	20/02/2020	11:23 PM	Attended	Laeq 15 minutes	79	65.2	Compliant
NCA21 Railway Pde, Annandale	20/02/2020	11:50 PM	Attended	Laeq 15 minutes	73	70.2	Compliant
NCA24 Lilyfield Rd, Lilyfield	21/02/2020	12:36 AM	Attended	Laeq 15 minutes	59	69.9	Compliant, exceedance attributed to non-JHCPB activities.
NCA25 Lilyfield Rd, Lilyfield	21/02/2020	1:00 AM	Attended	Laeq 15 minutes	66	64.4	Compliant
NCA34 Terry St, Rozelle	21/02/2020	1:29 AM	Attended	Laeq 15 minutes	73	88.9	Exceedance due to project related works. Noise model to be checked for accuracy. Noisy plant removed from project.
NCA35 Warayama PI, Rozelle	21/02/2020	2:02 AM	Attended	Laeq 15 minutes	71	59.7	Compliant
NCA36 Clubb St, Rozelle	21/02/2020	2:34 AM	Attended	Laeq 15 minutes	73	69.6	Compliant
NCA33 Toelle St, Rozelle	21/02/2020	3:03 AM	Attended	Laeq 15 minutes	78	64.9	Compliant
NCA29 Crescent St, Rozelle	25/02/2020	12:18 AM	Attended	Laeq 15 minutes	63	51.7	Compliant
NCA25 Quirk St, Rozelle	25/02/2020	12:35 AM	Attended	Laeq 15 minutes	53	54.7	Compliant, exceedance attributed to non-JHCPB activities.
NCA29 Crescent St, Rozelle	25/02/2020	2:59 AM	Attended	Laeq 15 minutes	63	53.7	Compliant
NCA25 Graham St, Rozelle	25/02/2020	3:22 AM	Attended	Laeq 15 minutes	60	57.2	Compliant
NCA21	25/02/2020	11:44 PM	Attended	Laeq 15 minutes	79	53.8	Compliant



Monitoring Location (Noise Catchment Area, Street, Suburb)	Date	Time	Attended or Continuous Monitoring	Parameter	Goals/Target dB(A)	Actual dB(A)	Comments
Johnston St, Annandale							
NCA25 Graham St, Rozelle	26/02/2020	1:55 AM	Attended	Laeq 15 minutes	63	57.2	Compliant
NCA29 Crescent St, Rozelle	26/02/2020	2:33 AM	Attended	Laeq 15 minutes	65	42.9	Compliant
NCA21 Railway Pde, Annandale	26/02/2020	2:57 AM	Attended	Laeq 15 minutes	73	42.1	Compliant