

Sydney Metro North West

Design and Construction of Surface
and Viaduct Civil Works



Environmental Monitoring Data

Environment Protection Licence No. 20454

March 2017

Document Approval

Doc No Environmental Monitoring Data February 2017					
Revision	Description	Prepared by	Reviewed by	Approved by	Date
1.0	Issued for publication	J. Burgin	B.Tucker	G. Perdikaris	07/04/2017

1.0 Introduction

The North West Rail Link is Australia's largest public transport infrastructure project and a priority rail project for the NSW Government. The Impregilo Salini Joint Venture (ISJV) has been contracted to design and construct the viaducts, bridges and associated civil works required for the NWRL between Bella Vista and Cudgegong Road.

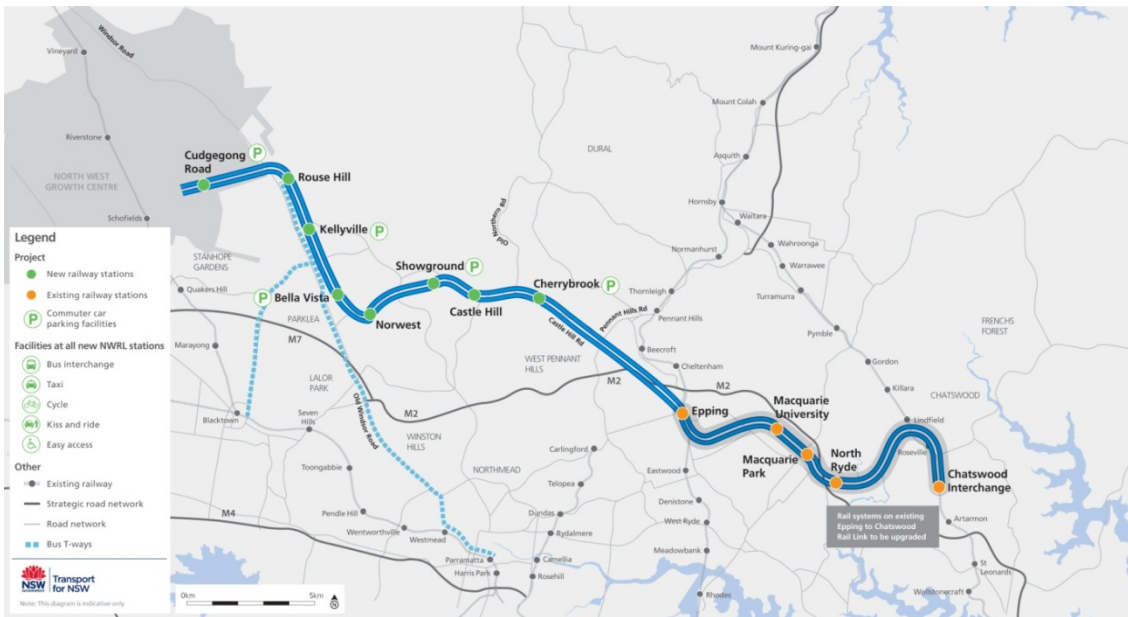


Figure 1: Project overview

2.0 Environmental Protection Licence and Reporting Requirements

The *Protection of the Environment Operations Act 1997* (POEO Act) requires holders of environment protection licences (EPLs) to make pollution monitoring data required by the EPL publicly available.

Salini Australia Pty. Ltd. holds EPL No. 20454 from the NSW Environment Protection Authority for the SVC Works on behalf of ISJV. The licence is for construction works relating to Rail Systems Activities as defined under Schedule 1 of the POEO Act.

Condition M2 of the EPL requires monitoring the concentration of total suspended solids, pH and visible oil and grease in waters discharged from sediment basins on the premises. The full licence can be viewed on the EPA website at:

<http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=41738&SYSUID=1&LICID=20454>

Environment Monitoring Data

Surface and Viaduct Civil Works



3.0 Discharge Water Monitoring

Table 1: Water Monitoring Data

Data for month: March 2017

Published: April 2017

Date of Discharge	EPL Basin ID	Approx. Chainage	TSS (mg/L)	*NTU	pH (unit)	Oil and Grease (visibility)	Compliant (Yes/No)
1/03/2017	SB16	44225	NT	71	7.85	Not Visible	Yes
7/03/2013	SB10	46300	NT	26.5	7.52	Not Visible	Yes
7/03/2013	SB11	40500	NT	64.7	8.47	Not Visible	Yes
7/03/2017	SB3	46220	NT	27	7.85	Not Visible	Yes
7/03/2017	SB16	44225	NT	70.1	8.15	Not Visible	Yes
9/03/2017	SB11	40500	NT	35.6	8.07	Not Visible	Yes
9/03/2017	SB3	46220	NT	28.9	8.13	Not Visible	Yes
10/03/2017	SB18A	41290	NT	38.7	8.06	Not Visible	Yes
10/03/2017	SB18B	41360	NT	31.2	7	Not Visible	Yes
10/03/2017	SB16	44225	NT	9	8.04	Not Visible	Yes
10/03/2017	SB10	46300	NT	29.6	7.93	Not Visible	Yes
13/03/2017	SB8	44680	NT	7	7.74	Not Visible	Yes
13/03/2017	SB11	40500	NT	34	8.29	Not Visible	Yes
16/03/2017	SB11	40500	NT	25.2	8.13	Not Visible	Yes
16/03/2017	SB16	44225	NT	35.8	8.15	Not Visible	Yes
17/03/2017	SB11	40500	NT	30.2	7.96	Not Visible	Yes
17/03/2017	SB3	46220	NT	53.6	7.8	Not Visible	Yes
17/03/2017	SB10	46300	NT	15.3	7.63	Not Visible	Yes
18/03/2017	SB11	40500	NT	70.1	8.1	Not Visible	Yes
20/03/2017	SB11	40500	NT	13.09	8.3	Not Visible	Yes
21/03/2017	SB3	46220	NT	44.1	6.98	Not Visible	Yes
21/03/2017	SB10	46300	NT	13	7.2	Not Visible	Yes
22/03/2017	SB11	40500	NT	33.2	8.3	Not Visible	Yes
23/03/2017	SB11	40500	NT	28.1	8.2	Not Visible	Yes
23/03/2017	SB10	46300	NT	61	7.76	Not Visible	Yes
27/03/2017	SB11	40500	NT	37	8.11	Not Visible	Yes
27/03/2017	SB10	46300	NT	56.8	7.9	Not Visible	Yes
28/03/2017	SB16	44225	NT	66.5	7.9	Not Visible	Yes
29/03/2017	SB11	40500	NT	55.5	7.89	Not Visible	Yes

KEY

Pollutant	TSS	*NTU	pH	Oil and grease
Concentration Limit	50 mg/L	71	6.5 – 8.5	Not visible
N/A = Not Applicable NT = Not Tested mg/L = milligrams per litre TSS = Total Suspended Solids (mg/L)		*NTU = Nephelometric Turbidity Units <i>A correlation graph between TSS and NTU has been established for the site. Using a 25% safety factor, a NTU reading of 71 has been adopted to ensure samples have a TSS below 50mg/L. Quality assurance measures and ongoing verification of the correlation will be used to ensure that this value continues to be an appropriate indicator of TSS.</i>		