Newcastle Inner City Bypass – Rankin Park to Jesmond Project

ENVIRONMENT PROTECTION LICENCE NO: 21762

POLLUTION MONITORING DATA

April 2024

Contents

1. Introduction

The Australian and NSW governments are funding the Rankin Park to Jesmond section of the Newcastle Inner City Bypass. The bypass will be built to the west of John Hunter Hospital.
In July 2022, a design and construct contract was awarded to Fulton Hogan Construction Pty Ltd who will finalise the design for the bypass and started major construction in March 2023.

The project will take three years to complete, weather permitting and will involve building a 3.4 kilometre four-lane divided road including:

- a northern interchange at Newcastle Road
- an interchange providing access to the John Hunter Hospital precinct
- a southern interchange at Lookout Road
- structures to improve connectivity in the bushland for people and animals
- off-road provisions for pedestrians and cyclists.

In accordance with section 66(6) of the POEO Act the following report details all required monitoring undertaken over the reporting period.

2. Water Quality Monitoring

Sampling conducted throughout the month.

Table 1 Monitoring results – Point 1 – April 2024

Date	Sample Location	pH	Oil/Grease	Irrigation Area
9/04/2024	10160E	7	No	H
12/04/2024	7520W	6.7	No	A
13/04/2024	8900W	7.1	No	E
13/04/2024	8100W	7.1	No	C
13/04/2024	7440W	7.1	No	A
15/04/2024	8100W	7.1	No	C
15/04/2024	8900W	7.1	No	E
15/04/2024	7440W	7.8	No	A
16/04/2024	8100W	7.1	No	C
16/04/2024	8760W	7.1	No	E
16/04/2024	7440W	7.8	No	A
17/04/2024	8760W	7.1	No	E
17/04/2024	8100W	7.1	No	C
19/04/2024	7440W	7.5	No	A

19/04/2024	10160E	8	No	H
23/04/2024	7520W	7.4	No	A
23/04/2024	10160E	7.4	No	H

Table 2 Monitoring results – Point 2 – April 2024

Date	Sample Location	Turbidity (NTU)	pH	Oil/Grease	Discharge Area
11/04/2024	8220W	37.6	6.5	No	Spillway
11/04/2024	10060W	34	7.1	No	Spillway
12/04/2024	10060W	44.3	7.3	No	Spillway
12/04/2024	8220W	36.7	7.2	No	Spillway
12/04/2024	9680E	45	7.2	No	Spillway
12/04/2024	8000E	36.4	7.1	No	Spillway
12/04/2024	9560E	39.2	6.8	No	Spillway
13/04/2024	8000E	15.25	7.1	No	Spillway
16/04/2024	8900W	46	6.5	No	Spillway
17/04/2024	8900W	40.2	6.6	No	Spillway
17/04/2024	7440W	44.9	7.8	No	Spillway
18/04/2024	8900W	34	6.6	No	Spillway
19/04/2024	8100W	12.66	6.5	No	Spillway
22/04/2024	8220W	37.1	6.5	No	Spillway
22/04/2024	8000E	22	7	No	Spillway
23/04/2024	10060W	22.9	7.5	No	Spillway
23/04/2024	8000E	11.57	7.2	No	Spillway
23/04/2024	9680E	38.1	7.6	No	Spillway
23/04/2024	9560E	45.1	7.5	No	Spillway
23/04/2024	8760W	44.9	7.9	No	Spillway
23/04/2024	8100W	45.6	7.5	No	Spillway
23/04/2024	8220W	34.5	6.5	No	Spillway
24/04/2024	7440W	31.8	7.5	No	Spillway
24/04/2024	8100W	21.8	7.3	No	Spillway
24/04/2024	8000E	12.8	6.8	No	Spillway
24/04/2024	9560E	23	7.6	No	Spillway
29/04/2024	7440W	19.51	7.2	No	Spillway
30/04/2024	8900W	37	6.7	No	Spillway

3. Vibration Monitoring

Sampling conducted throughout the month.

Table 3 April Monitoring Results – Blasting

Date	Sample Location	Overpressure (dB)	Peak Particle Velocity (mm/sec)	Notes
3/04/2024	Bellinger Close	106.2	1.21	Most impacted residence
3/04/2024	JHH	NA	0.249	Most impacted other sensitive receiver
12/04/2024	Bellinger Close	104.2	2	Most impacted residence
12/04/2024	JHH	NA	0.438	Most impacted other sensitive receiver
24/04/2024	Bellinger Close	107.8	2.26	Most impacted residence
24/04/2024	JHH	NA	0.393	Most impacted other sensitive receiver