



EPL Monitoring

Licence Holder:

Metal Manufactures Limited

Gloucester Boulevard, Port Kembla NSW 2505

EPL Number:

6158

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Stormwater Monitoring Results

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
18/01/2017	21/01/2016	30/01/2017	7.7	8.0	8.1	8.1	8.3	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
24/01/2017	1/02/2017	3/02/2017	7.9	8.3	8.3	8.4	8.5	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
8/02/2017	16/02/2017	17/02/2017	7.6	7.7	8.1	7.8	8.1	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
27/02/2017	3/03/2017	3/03/2017	8.0	7.8	8.3	8.1	8.4	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
13/03/2017	23/03/2017	23/03/2017	7.8	6.7	8.2	7.9	8.4	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
27/03/2017	4/04/2017	10/04/2017	7.4	7.9	8.2	8.2	8.3	<5	<5	<5	6.0	<5	<5	<5	<5	<5	<5
12/04/2017	24/04/2017	24/04/2017	7.2	7.9	8.0	8.3	8.3	<10	<10	<10	19.0	<10	<5	<5	<5	<5	<5
27/04/2017	5/05/2017	8/05/2017	7.4	8.1	8.1	8.3	8.4	<10	<10	<10	52.0	22.0	<5	<5	<5	<5	<5
9/05/2017	18/05/2017	19/05/2017	7.8	8.1	8.0	8.3	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
24/05/2017	1/06/2017	13/06/2017	6.8	7.2	7.3	7.2	8.2	<5	<5	<5	30.0	5.0	30.0	23.0	140.0	19.0	25.0
14/06/2017	20/06/2017	22/06/2017	6.8	7.5	7.9	8.2	8.3	<5	<5	<5	29.0	<5	6.0	6.0	6.0	<5	<5
27/06/2017	4/07/2017	6/07/2017	7.3	7.4	8.0	8.2	8.4	<5	<5	<5	5.0	7.0	<5	<5	<5	<5	<5
19/07/2017	25/07/2017	27/07/2017	7.0	7.9	7.8	7.7	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
31/07/2017	8/08/2017	11/08/2017	8.0	8.7	8.5	8.3	8.6	<5	<5	<5	6.0	6.0	<5	<5	<5	<5	<5
10/08/2017	18/08/2017	18/08/2017	8.0	8.2	8.1	7.9	8.4	<5	<5	<5	8.0	<5	<5	<5	<5	8.0	<5
28/08/2017	5/09/2017	8/09/2017	7.5	7.9	7.9	7.7	8.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
14/09/2017	21/09/2017	22/09/2017	6.6	7.0	7.1	7.7	8.3	<10	<10	<10	<10	<10	<5	<5	<5	7.0	<5
26/09/2017	3/10/2017	5/10/2017	7.2	7.8	7.9	8.1	8.4	<10	<10	<10	<10	<10	<5	<5	<5	<5	<5
10/10/2017	17/10/2017	19/10/2017	7.6	8.0	7.8	7.8	8.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
26/10/2017	1/11/2017	6/11/2017	7.9	7.9	8.1	7.6	8.5	<10	<10	<10	11.0	<5	<5	<5	<5	<5	<5
13/11/2017	20/11/2017	28/11/2017	7.2	7.5	7.9	8.0	8.2	<5	<5	<5	<5	11.0	<5	<5	<5	<5	<5
29/11/2017	7/12/2017	8/12/2017	7.7	7.9	7.9	7.9	8.4	8.0	<5	<5	6.0	14.0	<5	<5	<5	<5	<5
12/12/2017	18/12/2017	22/12/2017	7.5	7.8	7.9	8.0	8.2	<5	<5	<5	8.0	7.0	<5	<5	<5	7.0	<5
21/12/2017	4/01/2017	8/01/2017	7.7	8.1	8.1	8.3	8.5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
23/01/2018	1/02/2018	15/02/2018	7.3	7.9	7.9	7.8	8.1	<5	<5	<5	7.0	<5	<5	<5	<5	<5	<5

Stormwater Monitoring Results - Continued

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
14/02/2018	22/02/2018	27/02/2018	7.3	8.1	8.1	8.2	8.5	<5	<5	<5	22.0	8.0	<5	<5	<5	<5	<5
2/03/2018	9/03/2018	23/03/2018	8.0	8.7	8.4	8.3	8.5	<5	<5	<5	9.0	6.0	<5	<5	<5	<5	<5
4/04/2018	12/04/2018	18/04/2018	7.8	8.2	8.3	8.2	8.5	7.0	<5	<5	<5	5.0	<5	<5	<5	<5	<5
16/04/2018	20/04/2018	3/05/2018	7.7	8.3	7.7	8.2	8.5	<5	<5	<5	30.0	48.0	<5	<5	<5	5.0	<5
9/05/2018	17/05/2018	18/05/2018	7.8	8.3	8.5	8.5	8.5	<5	<5	<5	<5	9.0	<5	<5	<5	<5	<5
28/05/2018	4/06/2018	5/06/2018	7.6	8.1	8.2	8.3	8.5	<5	<5	<5	26.0	45.0	<5	<5	<5	<5	<5
29/06/2018	26/06/2018	29/06/2018	7.6	7.5	7.7	7.5	7.3	9.0	14.0	<5	95.0	56.0	<5	<5	<5	6.0	<5
25/06/2018	3/07/2018	5/07/2018	7.4	7.7	7.8	7.7	8.2	8.0	<5	<5	54.0	150.0	<5	<5	<5	<5	<5
12/07/2018	19/07/2018	2/08/2018	7.5	8.1	8.0	8.2	8.4	<5	<5	<5	<5	80.0	<5	<5	<5	<5	<5
26/07/2018	31/07/2018	2/08/2018	7.5	8.1	8.1	8.3	8.4	6.0	<5	8.0	12.0	37.0	<5	<5	<5	<5	<5
9/08/2018	16/08/2018	17/08/2018	7.5	8.0	7.8	8.0	8.4	8.0	<5	8.0	19.0	72.0	<5	<5	<5	<5	<5
30/08/2018	6/09/2018	7/09/2018	8.0	8.2	8.3	8.4	8.6	<5	<5	<5	34.0	66.0	<5	<5	<5	<5	<5
11/09/2018	19/09/2018	28/09/2018	7.5	7.8	8.1	8.0	8.4	<5	<5	<5	8.0	86.0	<5	<5	<5	<5	<5
27/09/2018	8/10/2018	12/10/2018	7.7	7.4	8.0	7.6	8.3	<5	<5	<5	38.0	290.0	<5	<5	<5	6.0	<5
11/10/2018	19/10/2018	25/10/2018	7.2	7.7	7.6	7.7	8.2	16.0	6.0	6.0	67.0	7.0	<5	<5	<5	<5	<5
31/10/2018	8/11/2018	16/11/2018	7.0		8.2	8.1	8.4	10.0		<5	<5	28.0	<5		<5	<5	<5
15/11/2018	22/11/2018	17/11/2018	7.0	7.6	8.1	8.0	8.3	<5	<5	<5	10.0	100.0	<5	<5	<5	<5	20.0
27/11/2018	5/12/2018	14/12/2018	7.4	8.0	8.1	8.3	8.0	15.0	<5	<5	<5	16.0	<5	<5	<5	<5	6.0
11/12/2018	18/12/2018	21/12/2018	7.3	8.0	8.3	8.1	8.1	<5	<5	6.0	5.0	22.0	<5	<5	<5	<5	<5
18/12/2018	3/01/2019	7/01/2019	7.2	7.8	8.2	8.1	8.2	<5	<5	<5	15.0	170.0	<5	<5	<5	<5	<5
31/01/2019	8/02/2019	18/02/2019	8.0	8.4	8.4	8.4	8.5	<5	<5	<5	<5	38.0	<5	<5	<5	<5	<5
13/02/2019	14/02/2019	25/02/2019	7.6	8.2	8.5	8.5	8.5	<5	<5	<5	5.0	8.0	<5	<5	<5	<5	7.0
27/02/2019	7/03/2019	11/03/2019	7.6	8.1	8.3	8.1	8.4	<5	<5	<5	5.0	32.0	<5	<5	<5	<5	<5
18/03/2019	26/03/2019	8/04/2019	7.6	7.6	8.1	7.9	8.1	<5	<5	<5	15.0	28.0	<5	<5	<5	<5	<5

Drain 1B was not sampled on 31/10/18 as it was not discharging to stormwater at the time of sampling.

Correction Log : Transcription errors indicated a figure of <1 for Total Suspended Solids and Oil and Grease for May 28 2018. These were corrected to <5 on November 27 2018



Stormwater Monitoring Results - Continued

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
25/03/2019	2/04/2019	8/04/2019	7.4	7.9	8.2	8.1	8.4	<5	<5	<5	6.0	6.0	<5	<5	<5	<5	<5
9/04/2019	16/04/2019	18/04/2019	7.6	8.1	8.4	8.3	8.5	<5	<5	<5	8.0	<5	<5	<5	<5	<5	9.0
30/04/2019	9/05/2019	13/05/2019	7.4	8.0	8.3	8.1	8.4	<5	<5	<5	9.0	9.0	<5	<5	<5	<5	6.0
14/05/2019	14/05/2019	24/05/2019	7.5	8.2	8.3	8.2	8.5	<5	<5	5.0	16.0	<5	<5	<5	<5	<5	<5
29/05/2019	5/06/2019	21/06/2019	7.7	8.2	8.2	8.2	8.6	<5	8.0	<5	<5	6.0	<5	<5	<5	<5	<5
13/06/2019	21/06/2019	21/06/2019	7.4	7.9	8.1	8.1	8.3	6.0	<5	<5	<5	<5	<5	<5	<5	<5	10.0
28/06/2019	5/07/2019	12/07/2019	7.5	7.9	8.0	8.0	8.3	5.0	<5	<5	7.0	12.0	<5	<5	<5	<5	<5
11/07/2019	18/07/2019	1/08/2019	7.5	8.1	8.1	8.2	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
31/07/2019	9/08/2019	22/08/2019	7.6	8.2	7.9	8.2	8.6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
13/08/2019	22/08/2019	22/08/2019	7.8	7.9	7.9	8.3	8.5	9.0	<5	<5	<5	6.0	<5	<5	<5	<5	6.0
28/08/2019	4/09/2019	9/09/2019	7.4	8.1	7.9	7.9	8.4	6.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
12/09/2019	20/09/2019	27/09/2019	7.4	8.0	8.0	7.9	8.3	<5	<5	5.0	<5	<5	<5	<5	<5	<5	<5
26/09/2019	4/10/2019	10/10/2019	7.5	8.1	8.3	8.3	8.5	<5	10.0	<5	83.0	<5	<5	<5	<5	<5	<5
15/10/2019	24/10/2019	4/11/2019	7.4	7.9	8.1	8.1	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
29/10/2019	6/11/2019	11/11/2019	7.8	8.3	8.2	8.1	8.5	<5	<5	6.0	<5	5.0	<5	<5	<5	<5	<5
14/11/2019	21/11/2019	22/11/2019	7.6	8.3	8.3	8.2	8.5	<5	<5	<5	24.0	<5	<5	<5	<5	<5	<5
28/11/2019	6/12/2019	6/12/2019	7.5	8.1	7.9	8.1	8.4	<5	<5	<5	<5	<5	<5	<5	<5	6.0	<5
16/12/2019	2/01/2020	6/01/2020	7.6	8.1	8.0	8.3	8.5	<5	<5	6.0	8.0	<5	<5	<5	<5	<5	<5
9/01/2020	15/01/2020	23/01/2020	7.5	8.1	7.5	8.0	8.5	6.0	<5	6.0	<5	8.0	<5	<5	<5	<5	<5
30/01/2020	6/02/2020	6/02/2020	7.6	8.0	8.4	8.2	8.2	6.0	<5	5.0	8.0	9.0	6.0	<5	<5	<5	<5
11/02/2020	20/02/2020	20/02/2020	7.6	7.7	8.1	8.0	8.1	<5	<5	<5	16.0	48.0	<5	<5	<5	<5	<5
26/02/2020	6/03/2020	9/03/2020	7.4	8.1	8.3	8.2	8.3	<5	<5	<5	6.0	10.0	<5	<5	<5	<5	<5
19/03/2020	27/03/2020	31/03/2020	7.5	7.9	8.1	8.2	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
27/03/2020	3/04/2020	3/04/2020	7.6	7.9	8.2	8.0	8.5	<5	<5	<5	27.0	8.0	<5	<5	<5	<5	<5
8/04/2020	17/04/2020	17/04/2020	7.7	8.1	8.2	8.4	8.4	<5	<5	<5	<5	61.0	<5	<5	<5	<5	6.0
14/04/2020	20/04/2020	27/04/2020	7.8	8.2	8.3	8.4	8.5	5.0	<5	<5	5.0	8.0	<5	<5	<5	<5	5.0



Stormwater Monitoring Results - Continued

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
14/05/2020	21/05/2020	21/05/2020	7.8	8.3	8.4	8.6	8.5	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
27/05/2020	4/06/2020	5/06/2020	7.5	8.0	8.1	8.0	8.4	<5	<5	<5	<5	38.0	<5	<5	<5	<5	<5
16/06/2020	25/06/2020	29/06/2020	7.9	8.2	8.2	8.2	8.5	<5	<5	<5	10.0	8.0	<5	<5	<5	<5	<5
29/06/2020	6/07/2020	9/07/2020	7.4	8.0	7.7	7.6	8.3	7.0	<5	5.0	6.0	<5	5.0	<5	<5	<5	<5
16/07/2020	24/07/2020	27/07/2020	7.4	7.8	7.8	8.0	8.2	<5	<5	<5	8.0	20.0	<5	<5	<5	<5	<5
30/07/2020	6/08/2020	17/08/2020	7.9	7.9	8.2	8.2	8.3	<5	<5	14.0	5.0	38.0	<5	<5	<5	<5	<5
18/08/2020	27/08/2020	7/09/2020	7.0	7.8	8.0	7.7	8.0	<5	<5	<5	150.0	8.0	<5	<5	<5	<5	<5
28/08/2020	4/09/2020	7/09/2020	7.4	8.1	8.0	8.0	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
15/09/2020	24/09/2020	6/10/2020	7.3	8.0	7.8	8.2	8.2	<5	<5	<5	6.0	<5	<5	<5	<5	<5	<5
29/09/2020	8/10/2020	19/10/2020	7.6	8.2	8.1	8.3	8.4	5.0	<5	5.0	<5	18.0	<5	<5	<5	<5	<5
13/10/2020	22/10/2020	30/10/2020	7.7	8.3	8.3	8.4	8.5	<5	5.0	5.0	<5	<5	<5	<5	<5	<5	<5
28/10/2020	6/11/2020	6/11/2020	7.6	7.7	8.0	8.1	8.2	<5	<5	8.0	10.0	12.0	<5	<5	<5	<5	<5
12/11/2020	19/11/2020	20/11/2020	7.6	8.1	8.3	8.4	8.4	<5	<5	6.0	5.0	24.0	<5	<5	<5	<5	<5
25/11/2020	3/12/2020	3/12/2020	7.6	8.1	8.1	8.1	8.4	5.0	6.0	<5	<5	42.0	<5	<5	<5	<5	<5
10/12/2020	18/12/2020	18/12/2020	7.5	8.2	8.1	8.4	8.4	<5	<5	6.0	8.0	32.0	<5	<5	<5	<5	<5
22/12/2020	7/01/2021	18/01/2021	7.6	7.7	8.1	7.8	8.2	6.0	<5	<5	10.0	12.0	<5	<5	<5	<5	<5
19/01/2021	28/01/2021	29/01/2021	7.3	8.0	7.9	7.9	8.2	8.0	12.0	13.0	60.0	21.0	<5	5.0	<5	<5	<5
28/01/2021	5/02/2021	8/02/2021	7.4	7.8	8.0	7.7	8.3	<5	<5	<5	6.0	11.0	6.0	6.0	6.0	6.0	8.0
9/02/2021	18/02/2021	22/02/2021	7.5	8.1	8.2	8.1	8.4	6.0	<5	<5	<5	8.0	<5	<5	<5	<5	<5
25/02/2021	5/03/2021	8/03/2021	8.3	8.4	8.4	8.3	8.6	<5	<5	<5	10.0	10.0	<5	<5	<5	<5	<5
10/03/2021	18/03/2021	26/03/2021	7.5	8.1	8.3	8.3	8.4	<5	<5	10.0	10.0	6.0	<5	<5	<5	<5	<5
25/03/2021	1/04/2021	9/04/2021	7.8	7.7	8.2	8.0	8.2	<5	<5	48.0	<5	54.0	<5	<5	<5	<5	<5
14/04/2021	22/04/2021	10/04/2021	7.2	8.0	7.9	8.1	8.0	28.0	<5	<5	16.0	6.0	<5	<5	<5	<5	<5
27/04/2021	4/05/2021	6/05/2021	7.7	8.1	8.2	8.2	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
11/05/2021	20/05/2021	24/05/2021	7.5	8.0	8.3	8.3	8.3	<5	<5	<5	18.0	20.0	<5	<5	<5	<5	<5
26/05/2021	3/06/2021	7/06/2021	7.9	8.2	8.3	8.2	8.2	8.0	<5	<5	<5	8.0	<5	<5	<5	<5	<5

10/06/2021	21/06/2021	28/06/2021	7.6	8.1	8.0	8.4	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5
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Stormwater Monitoring Results - Continued

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
3/06/2021	7/07/2021	19/06/2021	7.5	8.0	8.0	7.8	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
15/07/2021	23/07/2021	5/08/2021	7.7	8.1	8.2	8.3	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
28/07/2021	5/08/2021	5/08/2021	7.5	8.1	8.0	8.4	8.4	5.0	<5	<5	5.0	10.0	<5	<5	<5	<5	<5
16/08/2021	23/08/2021	7/09/2021	7.4	7.9	7.9	8.2	8.2	5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5
30/08/2021	3/09/2021	17/09/2021	7.6	8.1	8.1	8.3	8.3	<5	<5	<5	6.0	<5	<5	<5	<5	<5	<5
22/09/2021	30/09/2021	30/09/2021	7.5	8.1	8.0	8.3	8.3	9.0	7.0	<5	<5	35.0	<5	<5	<5	<5	<5
30/09/2021	8/10/2021	20/10/2021	7.7	8.2	8.1	8.4	8.4	<5	8.0	<5	<5	6.0	<5	<5	<5	<5	<5
20/10/2021	28/10/2021	1/11/2021	7.8	8.4	8.2	8.1	8.5	6.0	<5	<5	<5	100.0	<5	<5	<5	<5	<5
28/10/2021	5/11/2021	19/11/2021	7.5	8.0	8.1	8.3	8.4	<5	<5	6.0	6.0	10.0	<5	<5	<5	<5	<5
16/11/2021	19/11/2021	19/11/2021	7.5	8.0	8.2	8.2	8.4	<5	<5	<5	87.0	9.0	<5	<5	<5	<5	<5
30/11/2021	7/12/2021	20/12/2021	7.3	7.7	7.9	8.1	8.1	18.0	<5	<5	16.0	18.0	<5	<5	<5	<5	<5
9/12/2021	17/12/2021	20/12/2021	7.0	7.7	7.6	7.4	7.9	<5	<5	<5	<5	7.0	<5	<5	<5	<5	<5
22/12/2021	10/01/2022	11/01/2022	7.3	7.9	8.1	8.1	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
25/01/2022	1/02/2022	1/02/2022	7.6	7.6	8.1	8.2	8.3	<5	<5	<5	10.0	6.0	<5	<5	<5	<5	<5
31/01/2022	7/02/2022	11/02/2022	7.3	7.9	8.1	8.2	8.3	<5	<5	<5	10.0	8.0	<5	<5	<5	<5	12.0
17/02/2022	25/02/2022	1/03/2022	7.8	7.5	8.2	8.2	8.3	<5	<5	<5	8.0	12.0	<5	<5	<5	<5	7.0
28/02/2022	8/03/2022	14/03/2022	7.5	7.5	7.8	7.9	8.0	<5	<5	8.0	7.0	96.0	<5	<5	<5	<5	<5
14/03/2022	24/03/2022	25/03/2022	7.2	7.8	8.1	8.0	8.2	<5	<5	14.0	12.0	<5	<5	6.0	<5	8.0	9.0
30/03/2022	7/04/2022	11/04/2022	7.4	7.6	8.0	7.9	8.0	<5	<5	<5	12.0	210.0	<5	<5	<5	<5	<5
29/04/2022	6/05/2022	10/05/2022	7.3	7.7	7.9	7.7	8.0	<5	<5	<5	<5	20.0	<5	<5	<5	<5	<5
12/05/2022	23/05/2022	26/05/2022	7.5	7.6	7.9	7.9	7.7	<5	<5	8.0	8.0	30.0	<5	<5	<5	<5	<5
24/05/2022	2/06/2022	10/06/2022	7.4	7.5	7.9	7.8	8.0	<5	<5	5.0	10.0	59.0	<5	<5	<5	<5	<5
31/05/2022	9/06/2022	10/06/2022	7.5	8.2	8.2	8.2	8.3	<5	<5	<5	5.0	19.0	<5	<5	<5	15.0	<5
9/06/2022	21/06/2022	30/06/2022	7.5	8.1	8.0	8.1	8.3	11.0	<5	24.0	20.0	29.0	<5	<5	<5	<5	<5
29/06/2022	7/07/2022	12/07/2022	7.7	8.1	8.1	8.0	8.2	16.0	<5	<5	18.0	<5	<5	<5	<5	<5	<5
12/07/2022	18/07/2022	13/07/2022	7.6	8.1	8.1	8.1	8.2	13.0	<5	<5	10.0	<5	<5	<5	<5	5.0	<5
27/07/2022	4/08/2022	16/08/2022	7.4	8.1	8.3	8.2	8.3	12.0	<5	<5	12.0	21.0	<5	<5	<5	<5	<5

Only one sample taken during April 2022 due to training of new staff and overlapping annual leave around the plant shut. Additional samples taken during May 2022



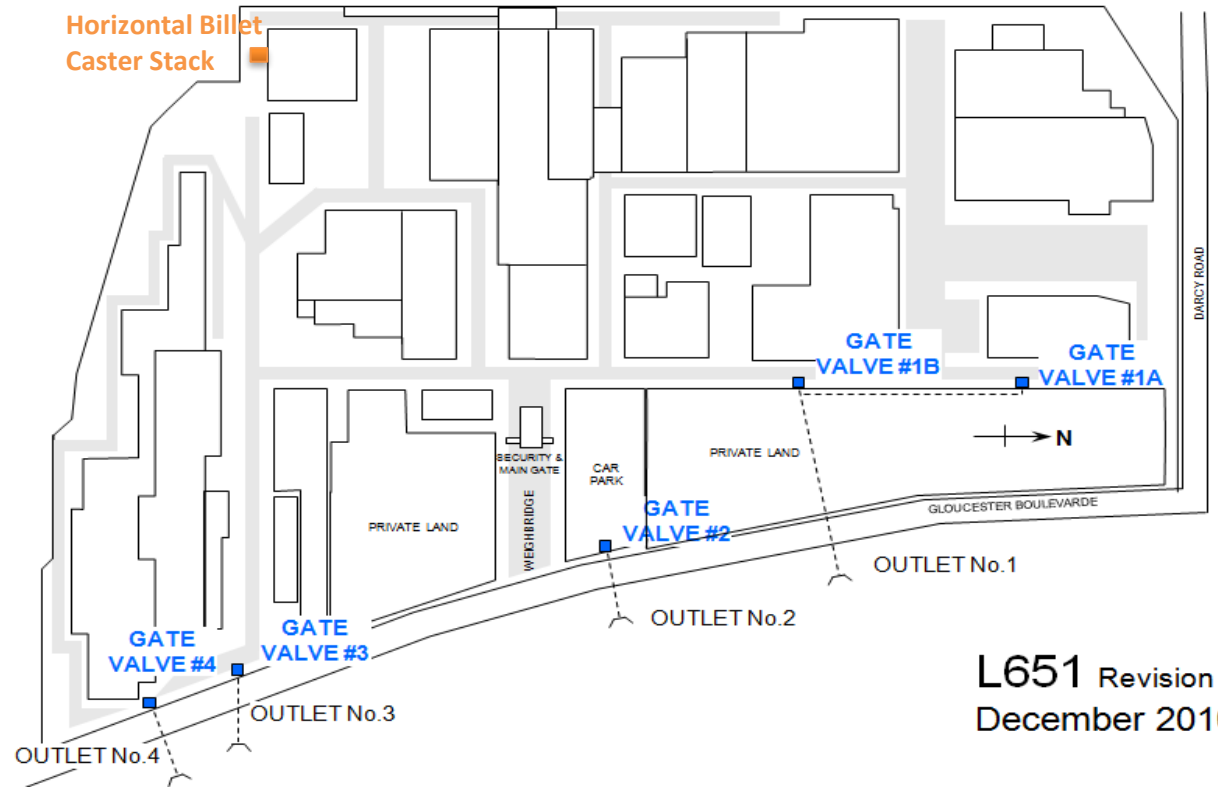
Stormwater Monitoring Results - Continued

Sample Date	Results Obtained	Published	pH					Total Suspended Solids (mg/L)					Oil and Grease (mg/L)				
			1A	1B	2	3	4	1A	1B	2	3	4	1A	1B	2	3	4
16/08/2022	24/08/2022	7/09/2022	7.5	8.1	8.2	8.1	8.3	<5	<5	<5	<5	7.0	<5	<5	<5	<5	<5
30/08/2022	7/09/2022	7/09/2022	7.4	8.1	8.0	7.6	8.0	<5	<5	<5	<5	39.0	<5	<5	<5	<5	<5
7/09/2022	15/09/2022	15/09/2022	8.1	7.8	8.3	8.2	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
21/09/2022	30/09/2022	4/10/2022	7.5	8.1	8.0	7.9	8.3	15.0	<5	6.0	8.0	<5	<5	<5	<5	<5	<5
13/10/2022	20/10/2022	24/10/2022	7.4	7.8	8.2	8.0	8.1	<5	<5	<5	12.0	12.0	<5	<5	<5	<5	<5
26/10/2022	3/11/2022	10/11/2022	7.5	7.7	8.1	8.1	8.2	<5	<5	<5	12.0	76.0	<5	<5	<5	<5	<5
9/11/2022	18/11/2022	2/12/2022	7.2	8.0	8.2	8.2	8.3	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
23/11/2022	2/12/2022	2/12/2022	7.3	8.0	8.1	8.2	8.3	<5	<5	<5	12.0	22.0	<5	<5	<5	<5	<5
7/12/2022	16/12/2022	16/12/2022	7.4	8.1	8.1	8.3	8.4	6.0	<5	<5	<5	6.0	<5	<5	<5	<5	<5
21/12/2022	10/01/2022	16/01/2023	7.4	8.1	8.1	8.3	8.4	6.0	<5	<5	<5	16.0	<5	<5	<5	<5	<5
3/01/2023	11/01/2023	20/01/2023	7.5	7.9	8.2	8.3	8.3	<5	<5	<5	5.0	75.0	<5	<5	<5	<5	9.0
19/01/2023	27/01/2023	31/01/2023	7.7	8.2	8.2	8.3	8.4	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
8/02/2023	17/02/2023	24/02/2023	7.3	8.0	8.3	8.2	8.4	<5	<5	<5	<5	10.0	<5	<5	<5	<5	<5
28/02/2023	9/03/2022	9/03/2023	7.3	8.0	8.1	8.2	8.3	<5	<5	<5	<5	86.0	<5	<5	<5	<5	5.0
15/03/2023	24/03/2023	3/04/2023	7.7	7.8	8.1	8.1	8.2	6.0	<5	<5	19.0	12.0	<5	<5	6.0	<5	<5
29/03/2023	11/04/2023	12/04/2023	7.4	8.0	8.2	7.9	8.0	<5	<5	48.0	<5	12.0	<5	<5	<5	<5	<15
12/04/2023	21/04/2023	24/04/2023	7.4	8.1	8.2	8.2	8.3	<4	<5	<5	<5	14.0	<5	<5	5.0	<5	<5
26/04/2023	8/05/2023	12/05/2023	7.3	7.9	8.1	8.0	8.2	<5	8.0	<5	11.0	48.0	<5	<5	<5	13.0	<5
4/05/2023	12/05/2023	12/05/2023	7.2	7.8	7.9	7.9	8.1	<5	<5	<5	18.0	<5	<5	<5	<5	27.0	<5
31/05/2023	9/06/2023	19/06/2023	7.3	8.0	7.9	8.2	8.4	<5	<5	8.0	<5	12.0	<5	<5	<5	<5	<5
14/06/2023	23/06/2023	26/06/2023	7.3	8.0	8.1	8.2	8.3	8.0	<5	15.0	<5	<5	<5	<5	<5	<5	<5
27/06/2023	6/07/2023	20/07/2023	7.2	7.9	8.0	8.1	8.3	<5	<5	<5	8.0	14.0	<5	<5	<5	<5	<5
11/07/2023	20/07/2023	31/07/2023	7.2	8.0	8.0	8.2	8.4	<5	<5	8.0	6.0	15.0	<5	<5	<5	<5	<5
26/07/2023	17/08/2023	14/08/2023	7.2	7.9	7.6	7.9	8.2	<5	<5	38.0	<5	<5	<5	<5	<5	<5	<5
10/08/2023	17/08/2023	18/08/2023	7.9	8.3	8.3	8.3	8.6	<5	<5	<5	6.0	8.0	<5	<5	<5	<5	<5
23/08/2023	31/08/2023	14/09/2023	7.3	8.1	7.8	7.6	8.3	<5	<5	<5	16.0	82.0	<5	<5	<5	<5	<5
14/09/2023	22/09/2023	5/10/2023	7.6	8.2	8.1	7.9	8.5	5.0	<5	<5	72.0	11.0	<5	<5	<5	<5	<5

Locality map



Location of sampling points



L651 Revision 0
December 2010

Air Emission Monitoring: Horizontal Billet Caster Stack

Pollutant	100 percentile concentration limit	Units of Measure	Testing Frequency	Sample Date 13th August 2015	Sample Date 6th April 2016	Sample Date 29th March 2017	Sample Date 8th March 2018
Stack Temperature	-	°C	Yearly	40	63	54	59
Stack Velocity	-	m/s	-	10	11	11	11
Stack Volumetric Flow	-	m ³ /s	Yearly	3.4	3.6	3.8	3.7
Moisture	-	%	Yearly	0.8	1.2	0.89	0.63
Oxygen	-	%	Yearly	20.7	20.9	20.8	20.9
Dioxins & Furans (TEQ)	0.1	ng/m ³	Yearly	0.003	0.024	0.018	0.067
Cadmium	0.2	mg/m ³	Yearly	0.000017	<0.0001	<0.0001	<0.0002
Mercury	0.2	mg/m ³	Yearly	0.015	0.024	0.0014	0.004
Type 1 Substances	-	mg/m ³	-	0.015	≤ 0.027	≤0.0034	≤0.006
Total Type 1 + 2 Substances	1	mg/m ³	Yearly	0.015	≤ 0.031	≤0.0066	≤0.01
Nitrogen Oxides	350	mg/m ³	Yearly	8.2	8.2	27	3.9
Total Solid Particles	50	mg/m ³	Yearly	<0.25	2.3	1.1	1.2
VOCs as n-propane	40	mg/m ³	Yearly	0.28	0.37	0.12	0.06
Results Obtained (date)	-	-	-	4-Sep-15	29-Apr-16	8-May-17	11-Apr-18
Results Published (date)	-	-	-	14-Sep-15	2-May-16	8-May-17	11-Apr-18

Notes: Air Emission

Special Frequency 3 means "during each stack emission test"

Milligrams per cubic metre is abbreviated as mg/m³. Nanograms per cubic metre is abbreviated as ng/m³.

Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m³/s.

Air Emission Monitoring: Horizontal Billet Caster Stack

Pollutant	100 percentile concentration limit	Units of Measure	Testing Frequency	Sample Date 20th March 2019	Sample Date 8th July 2020	Sample Date 23/06/2021	Sample Date 18/05/2022
Stack Temperature	-	°C	Yearly	52	49	49	41
Stack Velocity	-	m/s	-	11	9.6	11	11
Stack Volumetric Flow	-	m ³ /s	Yearly	3.6	3.2	3.7	3.8
Moisture	-	%	Yearly	1.2	<0.4	0.72	0.57
Oxygen	-	%	Yearly	20.7	20.9	20.9	20.9
Dioxins & Furans (TEQ)	0.1	ng/m ³	Yearly	0.035	0.045	0.019	0.007
Cadmium	0.2	mg/m ³	Yearly	<0.0004	<0.0005	<0.0005	<0.0006
Mercury	0.2	mg/m ³	Yearly	0.00049	0.0011	0.00081	<0.0004
Type 1 Substances	-	mg/m ³	-	≤0.0072	≤0.0097	≤0.01	≤0.017
Total Type 1 + 2 Substances	1	mg/m ³	Yearly	≤0.017	≤0.022	<0.023	≤0.03
Nitrogen Oxides	350	mg/m ³	Yearly	<3	4.4	5	5.5
Total Solid Particles	50	mg/m ³	Yearly	<1	2.2	<5	2
VOCs as n-propane	40	mg/m ³	Yearly	0.15	0.18	0.77	0.16
Results Obtained (date)	-	-	-	2-Jul-19	19-Aug-20	31-Aug-21	26-Aug-22
Results Published (date)	-	-	-	12-Jul-19	21-Aug-20	7-Sep-21	7-Sep-22

Notes: Air Emission

Special Frequency 3 means "during each stack emission test"

Milligrams per cubic metre is abbreviated as mg/m³. Nanograms per cubic metre is abbreviated as ng/m³.

Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m³/s.

Air Emission Monitoring: Horizontal Billet Caster Stack

Pollutant	100 percentile concentration limit	Units of Measure	Testing Frequency	Sample Date 22nd March 2023
Stack Temperature	-	°C	Yearly	55
Stack Velocity	-	m/s	-	12
Stack Volumetric Flow	-	m ³ /s	Yearly	3.9
Moisture	-	%	Yearly	0.97
Oxygen	-	%	Yearly	20.9
Dioxins & Furans (TEQ)	0.1	ng/m ³	Yearly	0.05
Cadmium	0.2	mg/m ³	Yearly	< 0.0005
Mercury	0.2	mg/m ³	Yearly	0.0018
Type 1 Substances	-	mg/m ³	-	
Total Type 1 + 2 Substances	1	mg/m ³	Yearly	≤ 0.024
Nitrogen Oxides	350	mg/m ³	Yearly	5.6
Total Solid Particles	50	mg/m ³	Yearly	< 2
VOCs as n-propane	40	mg/m ³	Yearly	0.057
Results Obtained (date)	-	-	-	14-Jun-23
Results Published (date)	-	-	-	19-Jun-23

Notes: Air Emission

Special Frequency 3 means "during each stack emission test"

Milligrams per cubic metre is abbreviated as mg/m³. Nanograms per cubic metre is abbreviated as ng/m³.

Metres per second is abbreviated as m/s. Cubic metres per second is abbreviated as m³/s.