

Environmental Monitoring Report

Harwood Sugar Mill and Refinery

Mill Road, Harwood, NSW 2465



100%
Locally grown
Australian owned
Certified sustainable

Licencee NSW Sugar Milling Co-operative Ltd and
Manildra Stockfeeds (Manufacturing) Pty Ltd
Address Suite 1, Level 1, Cnr Martin & River Streets Ballina NSW 2478
EPL No 171 <http://www.epa.nsw.gov.au/prpoeoapp/>

ENVIRONMENTAL MONITORING SUMMARY REPORT

Last Published: 18/09/2026

Licencee: Manildra Harwood Sugars

Location: Harwood Sugar Mill

Address: Harwood Island, Harwood

EPL No: 171

Limits:

1. 90% means 90th percentile for which 90% of results must be below the prescribed 90% limit. 2. Max limit is the maximum permissible discharge value. 3. The 90th percentile limit for monitoring point 4 temperature is reduced to 45°C when both mill and refinery are operating which is typically between June and December. 4. n/a = no limit applicable.

> bgd: The results for parameters BOD and TSS at Point 4 are reported as level above background or ambient river levels. The results are determined by subtracting riverwater background monitoring values at point 5 from the results of Mill Torri Drain at point 4 which sometimes results in a negative value meaning the quality of the discharge is better than the background or ambient source.



Summary Report Period: 19-Sep-25 18-Sep-26
 2024 Mill Season Start Date: 25-Jun-24 End Date 07-Jan-25
 2025 Mill Season Start Date: 19-Jun-25 End Date 23-Jan-26 estimated

Monitoring Point ID	Source	Parameter	Sampling Frequency	Unit	Samples Required	Limits			Samples Obtained	Results			Exceed Limit Counts	
						Min	90%	Max		Min	Mean	Max	90%	Max
1	Boiler Stack	Total Solid Particles	Quarterly	mg/m ³	5	n/a	n/a	250	3	191.0	834.0	1307.0	-	2
1	Boiler Stack	Opacity	Continuous	%	Continuous	n/a	n/a	n/a	Continuous	-25.0	66.6	98.7	-	-
3	Refinery Heat Exchanger	Temperature	Monthly Representative	°C	12	n/a	35	40	26	19.3	30.2	39.4	Yes (8)	0
3	Refinery Heat Exchanger	Volume	Continuous Inline	kL/day	Continuous	n/a	n/a	2,000	Continuous	0	316	519	-	0
4	Mill Torri Drain	BOD ₅	Fortnightly Composite	mg/L	26	n/a	45	50	34	-0.5	15.6	48.4	No	0
4	Mill Torri Drain	TSS	Fortnightly Composite	mg/L	26	n/a	20	25	34	-12	3	22	No	0
4	Mill Torri Drain	pH	Fortnightly Representative	pH	26	6.5	n/a	8.5	34	7.4	7.7	7.9	-	0
4	Mill Torri Drain	Temperature	Fortnightly Representative	°C	26	45	50	55	34	32.8	42.7	50.1	No	0
4	Mill Torri Drain	Volume	Continuous Online	kL/day	Continuous	n/a	n/a	90,000	Continuous	0	25162	61078	-	0
5	River Water - Background	BOD ₅	Fortnightly Composite	mg/L	26	n/a	n/a	n/a	34	0.0	1.7	5.1	-	-
5	River Water - Background	TSS	Fortnightly Composite	mg/L	26	n/a	n/a	n/a	34	2.0	10.6	44.0	-	-
5	River Water - Background	pH	Fortnightly Representative	pH	26	n/a	n/a	n/a	34	7.5	7.8	8.1	-	-
5	River Water - Background	Temperature	Fortnightly Representative	°C	26	n/a	n/a	n/a	34	17.3	23.5	28.1	-	-

			Sampling Point: Monitoring Point 1 - No 1 Boiler Stack Emissions Licence: Manildra Harwood Sugars Location: Harwood Island, Harwood EPL No: 171 Parameter/s: Measured: Total Solid Particles Monitoring: Frequency: Quarterly Limit: See Table			
			RESULTS TABLE 2022-23			
Test ID Number			AE14575	AE14689	AE14862	AE14912
Sampling Date			18-Oct-22	16-Nov-22	08-Mar-23	23-May-23
Date Results Obtained			01-Nov-22	23-Nov-22	27-Mar-23	13-Jun-23
Date Published Results			11-Nov-22	16-Dec-22	18-Apr-23	17-Jul-23
Measured Parameters dry @ STP and corrected to 12% O2	Unit of measure	EPL Limit				
Average stack gas temperature	°C	Not Applicable	134.0	135.0	137.0	122.0
Average velocity at sampling plane	m/s	Not Applicable	9.8	9.7	7.5	7.2
Gas Volumetric Flowrate	m ³ /sec	Not Applicable	56.3	54.3	48.7	45.7
Dry Gas Density	kg/m ³	Not Applicable	1.35	1.34	1.31	1.31
Molecular Weight of Stack Gases	g/g mole	Not Applicable	30.2	30.0	29.3	29.3
Moisture content	%	Not Applicable	19.5	20.6	7.6	14.3
Concentration of carbon dioxide	%	Not Applicable	11.1	9.8	4.0	3.9
Total Solid Particles (@12%CO2)	mg/m ³	250	965.4	584.0	372.0	686.0
			Notes and Date 18-Oct-22 Extremely wet field conditions from unprecedented rainfall are causing significant amount of mud being attached to harvested 16-Nov-22 cane brought in for processing			

			Sampling Point: Monitoring Point 1 - No 1 Boiler Stack Emissions				Sampling Point: Monitoring Point 1 - No 1 Boiler Stack Emissions			
			Licencee Manildra Harwood Sugars				Licencee Manildra Harwood Sugars			
			Location Harwood Island, Harwood				Location Harwood Island, Harwood			
			EPL No 171				EPL No 171			
			Parameter/s Measured Monitoring Frequency Limit				Parameter/s Measured Total Solid Particles Monitoring Frequency Limit			
			Total Solid Particles				Total Solid Particles			
			Quarterly				Quarterly			
See Table				See Table						
			RESULTS TABLE 2023-24				RESULTS TABLE 2023-24			
Test ID Number			AE15184	AE15394	AE15415	AE15627	AE15736	AE16192	AE16572	AE16908
Sampling Date			12-Sep-23	09-Nov-23	18-Jan-24	02-May-24	19-Jun-24	12-Sep-24	21-Jan-25	21-May-25
Date Results Obtained			26-Sep-23	15-Apr-24	15-Apr-24	20-Jun-24	03-Jul-24	11-Nov-24	21-Feb-25	12-Jun-25
Date Published Results			13-Oct-23	14-Oct-23	15-Oct-23	26-Jul-24	26-Jul-24	18-Nov-24	14-Mar-25	10-Jul-25
Measured Parameters dry @ STP and corrected to 12% O2	Unit of measure	EPL Limit								
Average stack gas temperature	°C	Not Applicable	132.0	131.0	128.0	122.0	125.0	125.0	126.0	95.0
Average velocity at sampling plane	m/s	Not Applicable	7.4	8.2	7.0	9.4	8.5	8.5	9.6	9.3
Gas Volumetric Flowrate	m³/sec	Not Applicable	56.3	54.0	40.7	62.1	56.3	56.6	63.8	72.1
Dry Gas Density	kg/m³	Not Applicable	1.35	1.31	1.31	1.31	1.35	1.33	1.31	1.31
Molecular Weight of Stack Gases	g/g mole	Not Applicable	29.60	29.30	29.40	29.30	29.50	29.90	29.30	29.30
Moisture content	%	Not Applicable	18.10	8.50	18.20	10.30	7.50	8.50	7.10	11.60
Concentration of carbon dioxide	%	Not Applicable	6.45	4.10	4.53	4.60	6.00	9.20	4.10	4.60
Total Solid Particles (@12%CO2)	mg/m³	250	172.0	405.0	275.0	592.0	640.0	334.0	913.0	538.0
			Notes and Date				Notes and Date			

			Sampling Point: Monitoring Point 1 - No 1 Boiler Stack Emissions Licencee: Manildra Harwood Sugars Location: Harwood Island, Harwood EPL No: 171 Parameter/s Measured: Total Solid Particles Monitoring Frequency: Quarterly Limit: See Table				Sampling Point: Monitoring Point 1 - No 1 Boiler Stack Emissions Licencee: Manildra Harwood Sugars Location: Harwood Island, Harwood EPL No: 171 Parameter/s Measured: Total Solid Particles Monitoring Frequency: Quarterly Limit: See Table			
Test ID Number			AE 16909	AE17654	AE17654 R2	AE18170	AE17654			
Sampling Date			09-Sep-25	17-Feb-26	25-Mar-26	09-Jun-26	02-Sep-26			
Date Results Obtained			27-Oct-25	18-Mar-26	14-Apr-26	30-Jun-26	16-Sep-26			
Date Published Results			14-Nov-25	20-Mar-26	15-May-26	17-Jul-26	17-Jul-26			
Measured Parameters dry @ STP and corrected to 12% O2	Unit of measure	EPL Limit								
Average stack gas temperature	°C	Not Applicable	149.0	133.0	133.0	132.0	139.0			
Average velocity at sampling plane	m/s	Not Applicable	10.1	9.6	9.1	7.3	9.2			
Gas Volumetric Flowrate	m ³ /sec	Not Applicable	55.8	59.5	59.3	46.6	48.7			
Dry Gas Density	kg/m ³	Not Applicable	1.31	1.31	1.30	1.31	1.38			
Molecular Weight of Stack Gases	g/g mole	Not Applicable	29.30	29.30	29.20	29.40	31.00			
Moisture content	%	Not Applicable	19.40	12.70	8.30	12.40	24.60			
Concentration of carbon dioxide	%	Not Applicable	10.70	2.04	3.85	5.10	13.80			
Total Solid Particles (@12%CO2)	mg/m ³	250	618.0	1004.0	1307.0	191.0	320.0			
			Notes and Date							
			18-Mar-26	Excess tramp air getting into the system. Maintenance work is planned for May shutdown to address this issue						

Sampling Point:		Monitoring Point 1 - No 1 Boiler Stack Emissions - Opacity				
Licencee		Manildra Harwood Sugars				
Location		Harwood Island, Harwood				
EPL No		170				
Parameter Monitored		OPACITY (%)				
Monitoring Frequency		Continuous Online				
Limit		No Limits Prescribed				
The results in the table provide a summary of the minimum, maximum and mean reading for the period and include the number of exceedences recorded if applicable						
Comments						
MONITORING PERIOD						
Date start	Date finish	Date Published	Minimum Reading	Maximum Reading	Mean Reading	Notes
10-Jul-22	23-Jul-22	12-Aug-22	19.1	87.4	53.6	
24-Jul-22	6-Aug-22	12-Aug-22	0.0	89.3	42.4	
7-Aug-22	20-Aug-22	9-Sep-22	17.1	90.8	47.9	
21-Aug-22	3-Sep-22	9-Sep-22	22.3	88.4	45.1	
4-Sep-22	17-Sep-22	19-Oct-22	22.3	81.7	44.4	
18-Sep-22	1-Oct-22	19-Oct-22	13.0	90.8	46.8	
2-Oct-22	15-Oct-22	19-Oct-22	20.3	95.6	55.0	
16-Oct-22	29-Oct-22	11-Nov-22	12.7	95.1	47.6	
30-Oct-22	12-Nov-22	16-Dec-22	17.8	83.7	49.2	
13-Nov-22	26-Nov-22	16-Dec-22	19.7	85.8	40.0	
27-Nov-22	10-Dec-22	16-Dec-22	20.7	85.3	35.7	
11-Dec-22	24-Dec-22	16-Jan-23	10.9	83.6	32.7	
25-Dec-22	7-Jan-23	16-Jan-23	0.0	96.7	28.8	
8-Jan-23	21-Jan-23	17-Feb-23	14.6	84.9	22.8	
22-Jan-23	4-Feb-23	17-Feb-23	0.0	84.1	-21.0	Opacity Meter Failure - New Unit ordered - Some delays with international source/supply issues
5-Feb-23	18-Feb-23	17-Mar-23	0.0	0.0	0.0	Monitoring meter failed
19-Feb-23	4-Mar-23	17-Mar-23	0.0	0.0	0.0	Monitoring meter failed
5-Mar-23	18-Mar-23	18-Apr-23	0.0	-25.0	-25.0	Monitoring meter failed
19-Mar-23	1-Apr-23	18-Apr-23	0.0	-25.0	-25.0	Monitoring meter failed
2-Apr-23	15-Apr-23	18-Apr-23	0.0	-25.0	-25.0	Monitoring meter failed
16-Apr-23	29-Apr-23	13-Oct-23	0.0	-25.0	-25.0	Monitoring meter failed
30-Apr-23	13-May-23	13-Oct-23	0.0	-25.0	-25.0	Monitoring meter failed
14-May-23	27-May-23	13-Oct-23	0.0	-25.0	-25.0	Monitoring meter failed
28-May-23	10-Jun-23	13-Oct-23	0.0	-25.0	-25.0	Monitoring meter failed
11-Jun-23	24-Jun-23	13-Oct-23	0.0	99.7	-11.8	New monitor and system being installed
25-Jun-23	8-Jul-23	13-Oct-23	14.7	99.4	44.8	
9-Jul-23	22-Jul-23	13-Oct-23	19.1	98.5	48.1	
23-Jul-23	5-Aug-23	13-Oct-23	24.6	99.3	54.5	
6-Aug-23	19-Aug-23	13-Oct-23	18.0	99.3	43.8	
20-Aug-23	2-Sep-23	13-Oct-23	17.4	99.4	36.9	
3-Sep-23	16-Sep-23	13-Oct-23	16.6	97.4	42.1	
17-Sep-23	30-Sep-23	13-Oct-23	11.9	99.4	39.8	Personnel change caused backlog of IT issues so there were delays extracting the data from the DCS into this report
1-Oct-23	14-Oct-23	15-Dec-23	12.8	98.2	42.5	
15-Oct-23	28-Oct-23	15-Dec-23	18.1	98.4	42.1	
29-Oct-23	11-Nov-23	15-Dec-23	20.2	98.2	50.9	
12-Nov-23	25-Nov-23	15-Dec-23	14.9	99.3	42.4	
26-Nov-23	9-Dec-23	15-Dec-23	18.2	97.9	44.9	
10-Dec-23	23-Dec-23	15-Jan-24	21.0	99.4	46.7	
24-Dec-23	6-Jan-24					Shutdown
7-Jan-24	20-Jan-24	12-Feb-24	22.0	98.4	51.6	
21-Jan-24	3-Feb-24	12-Feb-24	18.4	94.9	48.9	
4-Feb-24	17-Feb-24	18-Mar-24	17.8	92.3	51.1	
18-Feb-24	2-Mar-24	18-Mar-24	9.6	92.8	50.8	
3-Mar-24	16-Mar-24	18-Mar-24	25.6	93.3	50.0	
17-Mar-24	30-Mar-24	17-May-24	30.7	91.1	53.7	
31-Mar-24	13-Apr-24	17-May-24	18.8	89.6	59.8	
14-Apr-24	27-Apr-24	17-May-24	32.2	99.1	58.6	

Sampling Point:		Monitoring Point 1 - No 1 Boiler Stack Emissions - Opacity				
Licencee		Manildra Harwood Sugars				
Location		Harwood Island, Harwood				
EPL No		170				
Parameter Monitored		OPACITY (%)				
Monitoring Frequency		Continuous Online				
Limit		No Limits Prescribed				
The results in the table provide a summary of the minimum, maximum and mean reading for the period and include the number of exceedences recorded if applicable						
Comments						
MONITORING PERIOD						
Date start	Date finish	Date Published	Minimum Reading	Maximum Reading	Mean Reading	Notes
28-Apr-24	11-May-24	17-May-24	28.8	87.7	57.1	
12-May-24	25-May-24	14-Jun-24	24.7	90.5	56.8	
26-May-24	8-Jun-24	14-Jun-24	7.3	93.9	52.7	
9-Jun-24	22-Jun-24	26-Jul-24	10.3	94.0	56.9	
23-Jun-24	6-Jul-24	26-Jul-24	24.7	93.8	50.5	
7-Jul-24	20-Jul-24	26-Jul-24	19.5	94.6	59.7	
21-Jul-24	3-Aug-24	16-Aug-24	15.1	93.9	56.9	
4-Aug-24	17-Aug-24	18-Sep-24	18.2	97.1	52.0	
18-Aug-24	31-Aug-24	18-Sep-24	-3.0	97.7	56.9	
1-Sep-24	14-Sep-24	18-Sep-24	24.1	98.9	52.1	
15-Sep-24	28-Sep-24	18-Oct-24	19.8	99.2	50.1	
29-Sep-24	12-Oct-24	18-Oct-24	26.1	98.3	53.4	
13-Oct-24	26-Oct-24	18-Nov-24	33.0	96.8	60.4	
27-Oct-24	9-Nov-24	18-Nov-24	7.8	97.3	58.1	
10-Nov-24	23-Nov-24	20-Dec-24	30.0	96.6	59.2	
24-Nov-24	7-Dec-24	20-Dec-24	37.4	96.5	64.7	
8-Dec-24	21-Dec-24	14-Jan-25	31.2	97.7	64.3	
22-Dec-24	4-Jan-25	14-Jan-25	29.8	97.7	52.1	
5-Jan-25	18-Jan-25	14-Feb-25	32.5	96.4	59.5	
19-Jan-25	1-Feb-25	14-Feb-25	13.5	98.0	63.9	
2-Feb-25	15-Feb-25	14-Mar-25	-25.0	87.7	61.8	
16-Feb-25	1-Mar-25	14-Mar-25	39.1	91.8	63.9	
2-Mar-25	15-Mar-25	11-Apr-25	29.5	95.1	65.7	
16-Mar-25	29-Mar-25	11-Apr-25	31.1	93.3	69.0	
30-Mar-25	12-Apr-25	9-May-25	36.5	99.1	71.7	
13-Apr-25	26-Apr-25	9-May-25	28.7	29.5	28.9	
27-Apr-25	10-May-25	12-Jun-25	0.0	0.0	0.0	Boiler and Refinery Shutdown
11-May-25	24-May-25	12-Jun-25	-25.0	99.0	76.1	
25-May-25	7-Jun-25	12-Jun-25	30.9	99.2	77.8	
8-Jun-25	21-Jun-25	10-Jul-25	-2.6	97.0	77.2	
22-Jun-25	5-Jul-25	10-Jul-25	54.8	98.2	79.2	
6-Jul-25	19-Jul-25	15-Aug-25	59.0	96.4	78.0	
20-Jul-25	2-Aug-25	15-Aug-25	53.0	98.3	77.4	
17-Aug-25	30-Aug-25	15-Sep-25	58.1	97.1	75.5	
31-Aug-25	13-Sep-25	15-Sep-25	17.9	98.0	79.6	
14-Sep-25	27-Sep-25	9-Oct-25	59.9	98.7	79.4	
28-Sep-25	11-Oct-25	14-Nov-25	-25.0	98.7	72.4	
12-Oct-25	25-Oct-25	14-Nov-25	37.9	98.5	65.8	
26-Oct-25	8-Nov-25	14-Nov-25	-25.0	98.6	63.8	
9-Nov-25	22-Nov-25	12-Dec-25	5.3	97.0	66.5	
23-Nov-25	6-Dec-25	12-Dec-25	40.0	96.2	66.8	
7-Dec-25	20-Dec-25	16-Jan-26	36.7	98.1	69.1	
21-Dec-25	3-Jan-26	16-Jan-26	39.3	97.0	64.2	
4-Jan-26	17-Jan-26	16-Feb-26	41.4	98.0	68.3	
18-Jan-26	31-Jan-26	16-Feb-26	37.3	92.9	67.5	
1-Feb-26	14-Feb-26	16-Feb-26	45.0	97.1	68.0	
15-Feb-26	28-Feb-26	20-Mar-26	48.7	98.1	67.2	
1-Mar-26	14-Mar-26	20-Mar-26	38.3	98.5	67.9	
15-Mar-26	28-Mar-26	17-Apr-26	42.8	97.0	65.2	
29-Mar-26	11-Apr-26	17-Apr-26	46.4	98.1	70.1	
12-Apr-26	25-Apr-26	15-May-26	50.6	98.7	73.2	
26-Apr-26	9-May-26	15-May-26	45.6	97.4	71.6	
10-May-26	23-May-26	12-Jun-26	0.0	0.0	0.0	
24-May-26	6-Jun-26	12-Jun-26	30.3	98.6	67.5	
7-Jun-26	20-Jun-26	17-Jul-26	25.0	96.2	68.7	
21-Jun-26	4-Jul-26	17-Jul-26	45.3	97.1	76.0	
5-Jul-26	18-Jul-26	14-Aug-26	50.4	93.4	78.2	
19-Jul-26	1-Aug-26	14-Aug-26	50.2	94.8	73.9	
2-Aug-26	15-Aug-26	18-Sep-26	55.8	91.9	75.0	
16-Aug-26	29-Aug-26	18-Sep-26	30.4	97.4	67.8	
30-Aug-26	12-Sep-26	18-Sep-26	35.5	97.9	69.1	

Sampling Point:		Monitoring Point 3 - Drain No 8 Heat Exchanger Discharging to River		
Licencee		Manildra Harwood Sugars		
Location		Harwood Island, Harwood		
EPL No		171		
Parameter Measured		TEMPERATURE (°C)		
Frequency & Method		Monthly Representative Insitu		
Limits		90 th percentile limit 35°C 40°C Maximum		
Comments		<u>Pecentile limits:</u> A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value		
Date Sampled	Date Results Obtained	Date Published	Results	Notes
9-Jul-22	9-Jul-22	18-Jul-22	22.3	
23-Jul-22	23-Jul-22	12-Aug-22	22.4	
6-Aug-22	6-Aug-22	12-Aug-22	22.1	
20-Aug-22	20-Aug-22	9-Sep-22	22.9	
3-Sep-22	3-Sep-22	9-Sep-22	24.1	
17-Sep-22	17-Sep-22	19-Oct-22	26.3	
1-Oct-22	1-Oct-22	19-Oct-22	26.9	
15-Oct-22	15-Oct-22	19-Oct-22	27.1	
29-Oct-22	29-Oct-22	11-Nov-22	28.0	
12-Nov-22	12-Nov-22	16-Dec-22	30.3	
26-Nov-22	26-Nov-22	16-Dec-22	33.1	
10-Dec-22	10-Dec-22	16-Dec-22	31.1	
24-Dec-22	24-Dec-22	16-Jan-23	31.3	
7-Jan-23	7-Jan-23	16-Jan-23	31.9	
21-Jan-23	21-Jan-23	17-Feb-23	33.9	
7-Jan-23	7-Jan-23	17-Feb-23	31.9	
21-Jan-23	21-Jan-23	17-Mar-23	33.9	
4-Feb-23	4-Feb-23	17-Mar-23	35.4	
18-Feb-23	18-Feb-23	17-Mar-23	35.5	
4-Mar-23	4-Mar-23	17-Mar-23	32.9	
18-Mar-23	18-Mar-23	18-Apr-23	33.7	
1-Apr-23	1-Apr-23	18-Apr-23	34.2	
15-Apr-23	15-Apr-23	18-Apr-23	30.8	
29-Apr-23	29-Apr-23	15-Jun-23	29.3	
13-May-23	13-May-23	15-Jun-23	22.8	
27-May-23	27-May-23	15-Jun-23	23.0	
10-Jun-23	10-Jun-23	15-Jun-23	25.9	
24-Jun-23	24-Jun-23	13-Jul-23	23.7	
8-Jul-23	8-Jul-23	13-Jul-23	21.2	
22-Jul-23	22-Jul-23	10-Aug-23	22.1	
5-Aug-23	5-Aug-23	13-Oct-23	26.8	
19-Aug-23	19-Aug-23	13-Oct-23	25.6	
2-Sep-23	2-Sep-23	13-Oct-23	27.0	
16-Sep-23	16-Sep-23	13-Oct-23	26.8	
30-Sep-23	30-Sep-23	13-Oct-23	28.6	
14-Oct-23	14-Oct-23	15-Dec-23	30.1	
28-Oct-23	28-Oct-23	15-Dec-23	31.4	
11-Nov-23	11-Nov-23	15-Dec-23	32.1	
25-Nov-23	25-Nov-23	15-Dec-23	34.3	
9-Dec-23	9-Dec-23	15-Dec-23	36.0	
23-Dec-23	23-Dec-23	18-Mar-24	37.1	Personnel change caused backlog of IT issues so there were delays extracting the data from the DCS into this report
6-Jan-24	6-Jan-24	18-Mar-24	0.0	
20-Jan-24	20-Jan-24	18-Mar-24	35.7	
3-Feb-24	3-Feb-24	18-Mar-24	36.2	
17-Feb-24	17-Feb-24	18-Mar-24	35.6	
2-Mar-24	2-Mar-24	18-Mar-24	35.9	
16-Mar-24	16-Mar-24	18-Mar-24	35.1	Elevated temperatures investigated and rectified
30-Mar-24	30-Mar-24	19-Apr-24	33.6	
13-Apr-24	13-Apr-24	19-Apr-24	33.1	
27-Apr-24	27-Apr-24	17-May-24	31.0	
11-May-24	11-May-24	14-Jun-24	29.4	
25-May-24	25-May-24	14-Jun-24	24.7	
8-Jun-24	8-Jun-24	14-Jun-24	24.5	
22-Jun-24	22-Jun-24	26-Jul-24	22.2	
6-Jul-24	6-Jul-24	26-Jul-24	23.3	
20-Jul-24	20-Jul-24	26-Jul-24	24.1	
3-Aug-24	3-Aug-24	16-Aug-24	22.6	
17-Aug-24	17-Aug-24	18-Sep-24	23.9	
31-Aug-24	31-Aug-24	18-Sep-24	27.3	
14-Sep-24	14-Sep-24	18-Sep-24	28.2	
28-Sep-24	28-Sep-24	18-Oct-24	26.0	
12-Oct-24	12-Oct-24	18-Oct-24	28.6	
26-Oct-24	26-Oct-24	18-Nov-24	30.4	
9-Nov-24	9-Nov-24	18-Nov-24	33.3	
23-Nov-24	23-Nov-24	20-Dec-24	33.4	
7-Dec-24	7-Dec-24	20-Dec-24	34.6	
21-Dec-24	21-Dec-24	14-Jan-25	35.3	
4-Jan-25	4-Jan-25	14-Jan-25	34.7	
18-Jan-25	18-Jan-25	14-Feb-25	35.7	
1-Feb-25	1-Feb-25	14-Feb-25	35.3	
15-Feb-25	15-Feb-25	14-Mar-25	35.6	
1-Mar-25	1-Mar-25	14-Mar-25	36.2	
15-Mar-25	15-Mar-25	11-Apr-25	34.2	
29-Mar-25	29-Mar-25	11-Apr-25	36.5	
12-Apr-25	12-Apr-25	9-May-25	35.6	
26-Apr-25	26-Apr-25	9-May-25	29.8	
10-May-25	10-May-25	12-Jun-25	0.0	
24-May-25	24-May-25	12-Jun-25	27.9	
7-Jun-25	7-Jun-25	12-Jun-25	27.1	
21-Jun-25	21-Jun-25	10-Jul-25	24.1	
5-Jul-25	5-Jul-25	10-Jul-25	23.0	
19-Jul-25	19-Jul-25	15-Aug-25	25.4	



Sampling Point:	Monitoring Point 3 - Drain No 8 Heat Exchanger Discharging to River		
Licencee	Manildra Harwood Sugars		
Location	Harwood Island, Harwood		
EPL No	171		
Parameter Measured	TEMPERATURE (°C)		
Frequency & Method	Monthly Representative Insitu		
Limits	90 th percentile limit 35°C	40°C Maximum	
Comments	<u>Pecentile limits:</u>	A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value	



Date Sampled	Date Results Obtained	Date Published	Results	Notes
2-Aug-25	2-Aug-25	15-Aug-25	22.8	
30-Aug-25	30-Aug-25	15-Sep-25	23.9	
13-Sep-25	13-Sep-25	15-Sep-25	26.0	
27-Sep-25	27-Sep-25	9-Oct-25	27.8	
11-Oct-25	11-Oct-25	14-Nov-25	31.3	
25-Oct-25	25-Oct-25	14-Nov-25	32.2	
8-Nov-25	8-Nov-25	14-Nov-25	31.8	
22-Nov-25	22-Nov-25	12-Dec-25	31.1	
6-Dec-25	6-Dec-25	12-Dec-25	35.4	
20-Dec-25	20-Dec-25	16-Jan-26	36.8	
3-Jan-26	3-Jan-26	16-Jan-26	35.2	
17-Jan-26	17-Jan-26	16-Feb-26	37.7	
31-Jan-26	31-Jan-26	16-Feb-26	37.8	
14-Feb-26	14-Feb-26	16-Feb-26	35.8	
28-Feb-26	28-Feb-26	20-Mar-26	37.2	
14-Mar-26	14-Mar-26	20-Mar-26	39.4	Faulty Transmitter replaced 11/3/26
28-Mar-26	28-Mar-26	17-Apr-26	34.4	
11-Apr-26	11-Apr-26	17-Apr-26	32.3	
25-Apr-26	25-Apr-26	15-May-26	31.1	
9-May-26	9-May-26	15-May-26	28.7	
23-May-26	23-May-26	12-Jun-26	20.2	
6-Jun-26	6-Jun-26	12-Jun-26	26.6	
20-Jun-26	20-Jun-26	17-Jul-26	25.4	
4-Jul-26	4-Jul-26	17-Jul-26	24.8	
18-Jul-26	18-Jul-26	14-Aug-26	23.7	
1-Aug-26	1-Aug-26	14-Aug-26	23.7	
15-Aug-26	15-Aug-26	18-Sep-26	23.1	
29-Aug-26	29-Aug-26	18-Sep-26	19.3	
12-Sep-26	12-Sep-26	18-Sep-26	22.0	



Sampling Point:	Monitoring Point 3 - Drain No 8 Heat Exchanger Discharging to River						
Licencee	Manildra Harwood Sugars						
Location	Harwood Island, Harwood						
EPL No	171						
Paramater Measured	VOLUME (kL/day)						
Frequency & Method	Continuous inline						
Limit (max)	2000 kL/day						
The results in the table provide a summary of the minimum, maximum and mean daily volume discharged in kilolitres per day (kL/day) for the period and identifies the number of exceedences recorded if applicable							
Comments							
MONITORING PERIOD			Volume (kL)				
Date Start	Date Finish	Date Published	Minimum Daily Discharge	Maximum Daily Discharge	Mean Daily Discharge	Number of Exceedences	Notes
26-Jun-22	9-Jul-22	18-Jul-22	38	348	174	0	
10-Jul-22	23-Jul-22	12-Aug-22	10	166	99	0	
24-Jul-22	6-Aug-22	12-Aug-22	0	306	104	0	
7-Aug-22	20-Aug-22	9-Sep-22	10	330	159	0	
21-Aug-22	3-Sep-22	9-Sep-22	2	297	156	0	
4-Sep-22	17-Sep-22	19-Oct-22	5	212	116	0	
18-Sep-22	1-Oct-22	19-Oct-22	6	328	170	0	
2-Oct-22	15-Oct-22	19-Oct-22	81	285	168	0	
16-Oct-22	29-Oct-22	11-Nov-22	59	326	209	0	
30-Oct-22	12-Nov-22	16-Dec-22	152	379	262	0	
13-Nov-22	26-Nov-22	16-Dec-22	87	378	222	0	
27-Nov-22	10-Dec-22	16-Dec-22	147	557	256	0	
11-Dec-22	24-Dec-22	16-Jan-23	46	334	197	0	
25-Dec-22	7-Jan-23	16-Jan-23	9	286	131	0	
8-Jan-23	21-Jan-23	17-Feb-23	169	328	256	0	
25-Dec-22	7-Jan-23	17-Feb-23	9	286	131	0	
8-Jan-23	21-Jan-23	17-Mar-23	169	328	256	0	
22-Jan-23	4-Feb-23	17-Mar-23	23	377	242	0	
5-Feb-23	18-Feb-23	17-Mar-23	131	298	236	0	
19-Feb-23	4-Mar-23	17-Mar-23	26	386	220	0	
5-Mar-23	18-Mar-23	18-Apr-23	160	338	244	0	
19-Mar-23	1-Apr-23	18-Apr-23	78	360	269	0	
2-Apr-23	15-Apr-23	18-Apr-23	149	342	241	0	
16-Apr-23	29-Apr-23	15-Jun-23	95	209	142	0	
30-Apr-23	13-May-23	15-Jun-23	1	1	1	0	Shutdown 4/5 - 16/5/23
14-May-23	27-May-23	15-Jun-23	0	303	121	0	
28-May-23	10-Jun-23	15-Jun-23	85	264	159	0	
11-Jun-23	24-Jun-23	13-Jul-23	2	142	57	0	
25-Jun-23	8-Jul-23	13-Jul-23	0	148	58	0	
9-Jul-23	22-Jul-23	10-Aug-23	0	180	68	0	
23-Jul-23	5-Aug-23	13-Oct-23	20	671	195	0	
6-Aug-23	19-Aug-23	13-Oct-23	64	251	136	0	
20-Aug-23	2-Sep-23	13-Oct-23	38	190	112	0	
3-Sep-23	16-Sep-23	13-Oct-23	0	200	68	0	
17-Sep-23	30-Sep-23	13-Oct-23	79	320	183	0	
1-Oct-23	14-Oct-23	15-Dec-23	55	298	195	0	
15-Oct-23	28-Oct-23	15-Dec-23	12	304	160	0	
29-Oct-23	11-Nov-23	15-Dec-23	128	329	231	0	
12-Nov-23	25-Nov-23	15-Dec-23	18	313	215	0	
26-Nov-23	9-Dec-23	15-Dec-23	169	355	281	0	
10-Dec-23	23-Dec-23	18-Mar-24	125	350	244	0	
24-Dec-23	6-Jan-24	18-Mar-24	0	0	0	0	Shutdown
7-Jan-24	20-Jan-24	18-Mar-24	46	309	214	0	
21-Jan-24	3-Feb-24	18-Mar-24	84	312	210	0	
4-Feb-24	17-Feb-24	18-Mar-24	120	268	194	0	
18-Feb-24	2-Mar-24	18-Mar-24	44	257	157	0	
3-Mar-24	16-Mar-24	18-Mar-24	159	334	251	0	
17-Mar-24	30-Mar-24	19-Apr-24	186	314	249	0	
31-Mar-24	13-Apr-24	19-Apr-24	66	283	222	0	
14-Apr-24	27-Apr-24	17-May-24	71	275	206	0	
28-Apr-24	11-May-24	14-Jun-24	13	310	72	0	
12-May-24	25-May-24	14-Jun-24	0	5	2	0	
26-May-24	8-Jun-24	14-Jun-24	6	33	18	0	
9-Jun-24	22-Jun-24	26-Jul-24	0	16	7	0	
23-Jun-24	6-Jul-24	26-Jul-24	0	31	13	0	
7-Jul-24	20-Jul-24	26-Jul-24	0	42	18	0	
21-Jul-24	3-Aug-24	16-Aug-24	0	36	12	0	
4-Aug-24	17-Aug-24	18-Sep-24	10	233	110	0	
18-Aug-24	31-Aug-24	18-Sep-24	24	303	182	0	
1-Sep-24	14-Sep-24	18-Sep-24	4	347	206	0	
15-Sep-24	28-Sep-24	18-Oct-24	0	484	254	0	
29-Sep-24	12-Oct-24	18-Oct-24	21	343	222	0	
13-Oct-24	26-Oct-24	18-Nov-24	240	416	321	0	
27-Oct-24	9-Nov-24	18-Nov-24	174	484	268	0	
10-Nov-24	23-Nov-24	20-Dec-24	47	421	234	0	
24-Nov-24	7-Dec-24	20-Dec-24	31	387	255	0	
8-Dec-24	21-Dec-24	14-Jan-25	156	430	294	0	
22-Dec-24	4-Jan-25	14-Jan-25	12	389	224	0	
5-Jan-25	18-Jan-25	14-Feb-25	75	313	247	0	
19-Jan-25	1-Feb-25	14-Feb-25	77	247	174	0	
2-Feb-25	15-Feb-25	14-Mar-25	117	305	219	0	
16-Feb-25	1-Mar-25	14-Mar-25	240	362	282	0	
2-Mar-25	15-Mar-25	11-Apr-25	90	275	182	0	
16-Mar-25	29-Mar-25	11-Apr-25	193	294	258	0	
30-Mar-25	12-Apr-25	9-May-25	113	255	210	0	
13-Apr-25	26-Apr-25						Boiler and Refinery Shutdown for 1 month
27-Apr-25	10-May-25	9-May-25				0	
		12-Jun-25				0	
11-May-25	24-May-25	12-Jun-25	0	265	160	0	
25-May-25	7-Jun-25	12-Jun-25	71	240	164	0	
8-Jun-25	21-Jun-25	10-Jul-25	24	177	100	0	
22-Jun-25	5-Jul-25	10-Jul-25	3	177	85	0	
6-Jul-25	19-Jul-25	15-Aug-25	83	193	131	0	

Sampling Point:

Licencee

Location

EPL No

Parameter Measured

Frequency & Method

Limit (max)

Comments

Monitoring Point 3 - Drain No 8 Heat Exchanger Discharging to River

Manildra Harwood Sugars

Harwood Island, Harwood

171

VOLUME (kL/day)

Continuous inline

2000 kL/day

The results in the table provide a summary of the minimum, maximum and mean daily volume discharged in kilolitres per day (kL/day) for the period and identifies the number of exceedences recorded if applicable

MONITORING PERIOD

Date Start

Date Finish

Date Published

Minimum Daily Discharge

Maximum Daily Discharge

Mean Daily Discharge

Number of Exceedences

Notes

20-Jul-25

2-Aug-25

15-Aug-25

4

170

69

0

17-Aug-25

30-Aug-25

15-Sep-25

10

167

68

0

31-Aug-25

13-Sep-25

15-Sep-25

38

223

120

0

14-Sep-25

27-Sep-25

9-Oct-25

7

291

109

0

28-Sep-25

11-Oct-25

14-Nov-25

77

206

163

0

12-Oct-25

25-Oct-25

14-Nov-25

100

339

232

0

26-Oct-25

8-Nov-25

14-Nov-25

87

397

244

0

9-Nov-25

22-Nov-25

12-Dec-25

25

203

124

0

23-Nov-25

6-Dec-25

12-Dec-25

3

265

161

0

7-Dec-25

20-Dec-25

16-Jan-26

123

307

219

0

21-Dec-25

3-Jan-26

16-Jan-26

66

238

169

0

4-Jan-26

17-Jan-26

16-Feb-26

72

188

147

0

18-Jan-26

31-Jan-26

16-Feb-26

69

251

170

0

1-Feb-26

14-Feb-26

16-Feb-26

94

335

220

0

15-Feb-26

28-Feb-26

20-Mar-26

248

324

283

0

1-Mar-26

14-Mar-26

20-Mar-26

138

351

264

0

15-Mar-26

28-Mar-26

17-Apr-26

43

447

307

0

29-Mar-26

11-Apr-26

17-Apr-26

207

325

272

0

12-Apr-26

25-Apr-26

15-May-26

113

320

238

0

26-Apr-26

9-May-26

15-May-26

177

335

295

0

10-May-26

23-May-26

12-Jun-26

0

303

73

0

24-May-26

6-Jun-26

12-Jun-26

24

303

163

0

7-Jun-26

20-Jun-26

17-Jul-26

19

377

185

0

21-Jun-26

4-Jul-26

17-Jul-26

82

359

226

0

5-Jul-26

18-Jul-26

14-Aug-26

48

258

133

0

19-Jul-26

1-Aug-26

14-Aug-26

57

238

158

0

2-Aug-26

15-Aug-26

18-Sep-26

150

519

287

0

16-Aug-26

29-Aug-26

18-Sep-26

20

288

139

0

30-Aug-26

12-Sep-26

18-Sep-26

43

423

136

0





Sampling Point:	Monitoring Point 4 - Drain 4 Torri Discharge					
Licencee	Manildra Harwood Sugars					
Location	Harwood Island, Harwood					
EPL No	171					
Parameter/s Monitored	Biochemical Oxygen Demand and Total Suspended Solids (milligrams per litre)					
Frequency & Method	Fortnightly Composite					
Limits	See table					
Comments	Percentile limits: A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value					
	>bgd Means the concentration of the relevant parameter above the background water quality sampled and reported at monitoring point 5. The values in the table are provided as the level above background.					
			Licence Limits	BOD ₅ (mg/L)	TSS (mg/L)	
Date Sampled	Date Results Obtained	Date Published	90 Percentile Limit Maximum	45 >bgd 50 >bgd	20 >bgd 25 >bgd	Notes
5-Jul-22	11-Jul-22	18-Jul-22		2.4	0.0	
12-Jul-22	20-Jul-22	12-Aug-22		16.8	2.0	
19-Jul-22	26-Jul-22	12-Aug-22		15.3	-6.0	
26-Jul-22	1-Aug-22	12-Aug-22		69.2	0.0	Exceedance Reported 1/8 under investigation
9-Aug-22	15-Aug-22	9-Sep-22		25.8	2.0	mill stopped between 1/08/2022 and 07/08/2022
16-Aug-22	24-Aug-22	9-Sep-22		16.9	-2.0	
23-Aug-22	29-Aug-22	9-Sep-22		19.9	0.0	
30-Aug-22	6-Sep-22	9-Sep-22		16.1	3.0	
6-Sep-22	13-Sep-22	19-Oct-22		2.7	-4.0	
13-Sep-22	21-Sep-22	19-Oct-22		13.7	2.0	
20-Sep-22	27-Sep-22	19-Oct-22		28.9	0.0	
26-Sep-22	2-Oct-22	19-Oct-22				Shutdown
4-Oct-22	10-Oct-22	19-Oct-22		4.7	2.0	
11-Oct-22	19-Oct-22	11-Nov-22		12.8	2.0	
18-Oct-22	25-Oct-22	11-Nov-22		18.1	5.0	
25-Oct-22	31-Oct-22	11-Nov-22		4.8	5.0	
1-Nov-22	8-Nov-22	11-Nov-22		15.2	1.0	
9-Nov-22	14-Nov-22	16-Dec-22		22.8	6.0	
15-Nov-22	22-Nov-22	16-Dec-22		14.1	6.9	
22-Nov-22	28-Nov-22	16-Dec-22		11.1	12.7	
29-Nov-22	7-Dec-22	16-Dec-22		9.9	-2.0	
7-Dec-22	14-Dec-22	16-Dec-22		17.4	-4.0	
13-Dec-22	20-Dec-22	16-Jan-23		49.1	2.0	
20-Dec-22	3-Jan-23	16-Jan-23		10.9	5.0	
3-Jan-23	9-Jan-23	16-Jan-23		1.8	0.0	
10-Jan-23	17-Jan-23	17-Feb-23				No samples taken. Mill in final shut down and not running at steady state
17-Jan-23	24-Jan-23	17-Feb-23		3.2	-1.0	
24-Jan-23	1-Feb-23	17-Feb-23		13.1	7.0	
31-Jan-23	9-Feb-23	17-Feb-23		4.6	2.0	
7-Feb-23	13-Feb-23	17-Feb-23		6.5	-2.0	
14-Feb-23	20-Feb-23	17-Mar-03		2.5	2.0	
21-Feb-23	28-Feb-23	17-Mar-03				no samples - shutdown
28-Feb-23	9-Mar-23	17-Mar-03		2.2	15.5	
7-Mar-23	15-Mar-23	17-Mar-03		1.4	19.9	
14-Mar-23	22-Mar-23	18-Apr-23		2.7	-7.0	
21-Mar-23	26-Mar-23	18-Apr-23		6.7	10.0	
28-Mar-23	3-Apr-23	18-Apr-23		6.5	0.0	
4-Apr-23	14-Apr-23	18-Apr-23		2.6	13.0	
18-Apr-23	28-Apr-23	15-Jun-23		4.4	21.0	No Samples - easter
23-May-23	28-May-23	15-Jun-23		5.1	-2.0	Shutdown
30-May-23	5-Jun-23	15-Jun-23		5.0	-2.0	
6-Jun-23	16-Jun-23	13-Jul-23		5.8	3.0	No Samples
20-Jun-23	5-Jul-23	13-Jul-23		5.0	6.0	
27-Jun-23	4-Jul-23	13-Jul-23		2.7	1.0	
4-Jul-23	11-Jul-23	13-Jul-23		6.3	1.5	
11-Jul-23	17-Jul-23	10-Aug-23		13.8	-2.0	
18-Jul-23	25-Jul-23	10-Aug-23		11.8	1.0	
1-Aug-23	7-Aug-23	10-Aug-23		12.4	6.0	No Samples - Maint. Day
8-Aug-23	14-Aug-23	15-Sep-23		9.1	0.0	
15-Aug-23	22-Aug-23	15-Sep-23		14.4	-1.0	
22-Aug-23	29-Aug-23	15-Sep-23		15.2	0.0	
29-Aug-23	5-Sep-23	15-Sep-23		13.9	-4.0	
5-Sep-23	11-Sep-23	15-Sep-23		11.1	0.0	
12-Sep-23	19-Sep-23	13-Oct-23		10.6	2.0	
20-Sep-23	25-Sep-23	13-Oct-23		9.5	-3.0	
26-Sep-23	5-Oct-23	13-Oct-23		75.1	8.0	Notifications issued - under investigation
3-Oct-23	11-Oct-23	13-Oct-23		15.4	1.0	
10-Oct-23	19-Oct-23	15-Dec-23		9.9	6.0	
17-Oct-23	23-Oct-23	15-Dec-23		12.3	-2.0	
24-Oct-23	1-Nov-23	15-Dec-23		3.5	-1.0	
31-Oct-23	8-Nov-23	15-Dec-23		4.0	-1.0	
7-Nov-23	13-Nov-23	15-Dec-23		7.4	17.0	
14-Nov-23	19-Nov-23	15-Dec-23				
21-Nov-23	26-Nov-23	15-Dec-23		11.0	16.2	
28-Nov-23	4-Dec-23	15-Dec-23		3.4	18.8	
5-Dec-23	13-Dec-23	15-Dec-23		4.8	11.0	
12-Dec-23	18-Dec-23	15-Jan-24		23.6	-2.0	
19-Dec-23	24-Dec-23	15-Jan-24		5.5	5.0	
9-Jan-24	16-Jan-24	12-Feb-24		20.9	21.0	
16-Jan-24	24-Jan-24	12-Feb-24		5.5	8.0	
23-Jan-24	29-Jan-24	12-Feb-24		5.9	0.0	
30-Jan-24	5-Feb-24	12-Feb-24		2.7	-5.0	
6-Feb-24	12-Feb-24	18-Mar-24		3.4	4.0	
13-Feb-24	23-Feb-24	18-Mar-24		2.2	11.0	
19-Feb-24	26-Feb-24	18-Mar-24		22.2	3.0	
27-Feb-24	4-Mar-24	18-Mar-24		3.9	9.0	
5-Mar-24	11-Mar-24	18-Mar-24		4.0	2.0	
12-Mar-24	18-Mar-24	15-Apr-24		9.0	-1.0	
19-Mar-24	25-Mar-24	19-Apr-24		10.5	3.0	
26-Mar-24	2-Apr-24	19-Apr-24		6.8	7.0	
2-Apr-24	8-Apr-24	19-Apr-24		9.9	3.3	
9-Apr-24	15-Apr-24	19-Apr-24		8.4	17.0	
						Shutdown

Sampling Point:		Monitoring Point 4 - Drain 4 Torri Discharge			
Licencee		Manildra Harwood Sugars			
Location		Harwood Island, Harwood			
EPL No		171			
Parameter/s Monitored		Biochemical Oxygen Demand and Total Suspended Solids (milligrams per litre)			
Frequency & Method		Fortnightly Composite			
Limits		See table			
Comments		Percentile limits: A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value			
		Means the concentration of the relevant parameter above the background water quality sampled and reported at monitoring point 5. The values in the table are provided as the level above background.			
		>bgd			

Sampling Point:	Monitoring Point 4 - Drain 4 Torri Discharge				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameters					
Monitored	pH and Temperature (°C)				
Frequency & Method	Fortnightly Representative Sample Insitu				
Limits	See Table				
Comments	Percentile limits: A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value Temperature * A temperature limit of 50°C applies when only the refinery is operating and is indicated with Y. Conversely a temperature limit of 45°C applies when the mill and refinery is operating indicated with N.				
		Licence Limits	pH	Temperature (°C)	50
		90 Percentile Limit		45*	
		Maximum	6.5 - 8.5	55	Refinery Only Op
Date Sampled	Date Published				Notes
5-Jul-22	18-Jul-22		7.8	34.0	N
12-Jul-22	12-Aug-22		7.5	30.1	N
19-Jul-22	12-Aug-22		7.7	29.4	N
26-Jul-22	12-Aug-22		7.8	29.0	N
9-Aug-22	9-Sep-22		7.6	33.1	N
16-Aug-22	9-Sep-22		7.9	32.7	N
23-Aug-22	9-Sep-22		7.7	36.1	N
30-Aug-22	9-Sep-22		7.7	34.5	N
6-Sep-22	19-Oct-22		7.7	31.2	N
13-Sep-22	19-Oct-22		7.6	34.5	N
20-Sep-22	19-Oct-22		7.6	35.4	N
26-Sep-22	19-Oct-22				Shutdown
4-Oct-22	19-Oct-22		7.3	35.0	N
11-Oct-22	11-Nov-22		7.2	35.7	N
18-Oct-22	11-Nov-22		7.3	37.7	N
25-Oct-22	11-Nov-22		7.4	29.3	N
1-Nov-22	11-Nov-22		7.3	39.0	N
9-Nov-22	16-Dec-22		7.2	38.7	N
15-Nov-22	16-Dec-22		7.3	41.0	N
22-Nov-22	16-Dec-22		7.6	40.1	N
29-Nov-22	16-Dec-22		7.6	38.0	N
7-Dec-22	16-Dec-22		7.6	40.0	N
13-Dec-22	16-Jan-23		7.6	41.7	N
20-Dec-22	16-Jan-23		7.8	35.4	N
3-Jan-23	16-Jan-23		7.9	35.3	Y
10-Jan-23	17-Feb-23				Shutdown in process
17-Jan-23	17-Feb-23		7.8	38.3	Y
24-Jan-23	17-Feb-23		7.7	37.8	Y
31-Jan-23	17-Feb-23		7.9	41.6	Y
7-Feb-23	17-Feb-23		7.9	40.1	Y
14-Feb-23	17-Mar-03		8.0	37.5	Y
21-Feb-23	17-Mar-03				no samples - shutdown
28-Feb-23	17-Mar-03		8.0	36.5	Y
7-Mar-23	17-Mar-03		8.0	34.2	Y
14-Mar-23	18-Apr-23		7.9	35.7	Y
21-Mar-23	18-Apr-23		7.7	38.5	Y
28-Mar-23	18-Apr-23		7.8	41.4	Y
4-Apr-23	18-Apr-23		7.9	37.0	Y
18-Apr-23	15-Jun-23		7.9	35.9	Y
23-May-23	15-Jun-23		7.7	33.0	Y
30-May-23	15-Jun-23		7.8	33.1	Y
6-Jun-23	13-Jul-23		7.8	33.1	Y
20-Jun-23	13-Jul-23		8.0	29.4	Y
27-Jun-23	13-Jul-23		7.7	30.4	Y
4-Jul-23	13-Jul-23		7.6	25.5	N
11-Jul-23	10-Aug-23		7.7	31.3	N
18-Jul-23	10-Aug-23		7.6	34.9	N
1-Aug-23	10-Aug-23		7.7	35.8	N
8-Aug-23	15-Sep-23		7.7	34.8	N
15-Aug-23	15-Sep-23		7.7	36.7	N
22-Aug-23	15-Sep-23		7.6	36.0	N
29-Aug-23	15-Sep-23		7.5	35.4	N
5-Sep-23	15-Sep-23		7.6	29.6	N
12-Sep-23	13-Oct-23		7.8	35.8	N
20-Sep-23	13-Oct-23		7.8	36.2	N
26-Sep-23	13-Oct-23		7.7	38.5	N
3-Oct-23	13-Oct-23		7.6	40.7	N
10-Oct-23	15-Dec-23		7.8	40.1	N
17-Oct-23	15-Dec-23		7.8	40.7	N
24-Oct-23	15-Dec-23		7.8	33.3	Y
31-Oct-23	15-Dec-23		7.8	34.7	Y
7-Nov-23	15-Dec-23		7.7	33.4	Y
14-Nov-23	15-Dec-23				Shut Down
21-Nov-23	15-Dec-23		7.7	49.4	Y
28-Nov-23	15-Dec-23		7.7	46.4	Y
5-Dec-23	15-Dec-23		7.6	45.3	Y
12-Dec-23	15-Jan-24		7.6	45.0	Y
19-Dec-23	15-Jan-24		7.6	40.7	Y
9-Jan-24	12-Feb-24		7.9	42.8	Y
16-Jan-24	12-Feb-24		7.8	45.5	Y
23-Jan-24	12-Feb-24		7.5	44.3	Y
30-Jan-24	12-Feb-24		7.3	45.3	Y
6-Feb-24	18-Mar-24		7.7	45.7	Y
13-Feb-24	18-Mar-24		7.8	46.7	Y
19-Feb-24	18-Mar-24		7.2	40.0	Y
27-Feb-24	18-Mar-24		7.8	40.5	Y
5-Mar-24	18-Mar-24		7.8	40.5	Y
12-Mar-24	15-Apr-24		7.7	44.8	Y
19-Mar-24	19-Apr-24		7.9	45.4	Y
26-Mar-24	19-Apr-24		7.6	36.0	Y
2-Apr-24	19-Apr-24		7.7	38.4	Y
9-Apr-24	19-Apr-24		7.8	35.6	Y
					Shutdown



Sampling Point:		Monitoring Point 4 - Drain 4 Torri Discharge			
Licencee		Manildra Harwood Sugars			
Location		Harwood Island, Harwood			
EPL No		171			
Parameters					
Monitored		pH and Temperature (°C)			
Frequency & Method		Fortnightly Representative Sample Insitu			
Limits		See Table			
Comments		Percentile limits: A 90 percentile limit means 90% of results must be below this prescribed limit. Maximum limit is the maximum permissible discharge value Temperature * A temperature limit of 50°C applies when only the refinery is operating and is indicated with Y. Conversely a temperature limit of 45°C applies when the mill and refinery is operating indicated with N.			
Date Sampled	Date Published	Licence Limits	pH	Temperature (°C)	50
		90 Percentile Limit		45*	Refinery
		Maximum	6.5 - 8.5	55	Only Op
23-Apr-24	17-May-24		7.6	40.1	Y
30-Apr-24	17-May-24		7.5	43.6	Y
7-May-24	17-May-24		7.6	38.5	Y
13-May-24	14-Jun-24				
21-May-24	14-Jun-24		7.6	38.5	Y
28-May-24	14-Jun-24		7.5	36.4	Y
4-Jun-24	14-Jun-24		7.8	33.0	Y
11-Jun-24	26-Jul-24		7.6	33.4	Y
18-Jun-24	26-Jul-24		8.9	28.9	Y
25-Jun-24	26-Jul-24		7.8	35.4	N
2-Jul-24	26-Jul-24		7.8	30.8	N
9-Jul-24	26-Jul-24		7.7	27.4	N
16-Jul-24	16-Aug-24		7.8	30.7	N
30-Jul-24	16-Aug-24		7.8	33.7	N
6-Aug-24	16-Aug-24		7.6	33.5	N
13-Aug-24	18-Sep-24		7.6	32.3	N
20-Aug-24	18-Sep-24		7.1	33.2	N
27-Aug-24	18-Sep-24		7.1	36.6	N
10-Sep-24	18-Oct-24		7.5	39.2	N
17-Sep-24	18-Oct-24		7.6	35.9	N
24-Sep-24	18-Oct-24		7.6	37.5	N
1-Oct-24	18-Oct-24		7.7	37.0	N
8-Oct-24	18-Oct-24		7.5	38.1	N
15-Oct-24	18-Oct-24		7.5	39.1	N
22-Oct-24	18-Nov-24		7.5	40.3	N
5-Nov-24	18-Nov-24		7.5	42.3	N
26-Nov-24	18-Nov-24		7.3	39.1	N
10-Dec-24	20-Dec-24		7.3	43.5	N
17-Dec-24	14-Jan-25		7.3	42.6	N
7-Jan-25	14-Jan-25		7.6	40.1	N
14-Jan-25	14-Feb-25		7.7	40.2	Y
28-Jan-25	14-Feb-25		7.6	45.4	Y
4-Feb-25	14-Mar-25		7.6	43.3	Y
11-Feb-25	14-Mar-25		7.4	43.5	Y
18-Feb-25	14-Mar-25		7.5	43.5	Y
4-Mar-25	14-Mar-25		7.8	35.3	Y
18-Mar-25	11-Apr-25		7.1	39.3	Y
25-Mar-25	11-Apr-25		7.4	37.8	Y
1-Apr-25	11-Apr-25		7.3	36.4	Y
8-Apr-25	9-May-25		7.5	37.1	Y
20-May-25	9-May-25		7.5	34.0	Y
27-May-25	12-Jun-25		7.3	34.0	Y
3-Jun-25	12-Jun-25		7.2	34.9	Y
24-Jun-25	10-Jul-25		7.3	32.0	N
8-Jul-25	10-Jul-25		7.5	32.8	N
15-Jul-25	15-Aug-25		7.6	33.0	N
22-Jul-25	15-Aug-25		7.7	27.8	N
12-Aug-25	15-Sep-25		7.7	30.4	N
19-Aug-25	15-Sep-25		7.5	33.8	N
26-Aug-25	15-Sep-25		7.7	34.8	N
2-Sep-25	15-Sep-25		7.4	35.2	N
9-Sep-25	9-Oct-25		7.3	38.6	N
16-Sep-25	9-Oct-25		7.3	38.6	N
30-Sep-25	14-Nov-25		7.7	40.0	N
7-Oct-25	14-Nov-25		7.7	45.7	N
14-Oct-25	14-Nov-25		7.6	40.9	N
21-Oct-25	14-Nov-25		7.6	39.6	N
28-Oct-25	14-Nov-25		7.6	40.5	N
4-Nov-25	14-Nov-25		7.6	37.4	N
18-Nov-25	12-Dec-25		7.7	43.6	N
2-Dec-25	12-Dec-25		7.9	42.0	N
6-Dec-25	16-Jan-26		7.6	43.6	N
13-Jan-26	16-Feb-26		7.9	44.4	N
27-Jan-26	16-Feb-26		7.9	43.0	Y
3-Feb-26	16-Feb-26		7.9	42.9	Y
10-Feb-26	16-Feb-26		7.9	43.4	Y
17-Feb-26	20-Mar-26		7.7	44.6	Y
24-Feb-26	20-Mar-26		7.9	44.8	Y
3-Mar-26	20-Mar-26		7.9	44.7	Y
10-Mar-26	20-Mar-26		7.9	47.6	Y
17-Mar-26	20-Mar-26		7.8	50.1	Y
24-Mar-26	17-Apr-26		7.8	48.8	Y
31-Mar-26	17-Apr-26		7.7	49.6	Y
14-Apr-26	17-Apr-26		7.9	47.5	Y
21-Apr-26	15-May-26		7.7	47.1	Y
2-Jun-26	15-May-26		7.7	40.8	Y
9-Jun-26	12-Jun-26		7.7	43.2	Y
16-Jun-26	17-Jul-26		7.7	44.3	Y
23-Jun-26	17-Jul-26		7.6	45.0	Y
7-Jul-26	17-Jul-26		7.7	47.0	N
14-Jul-26	14-Aug-26		7.6	33.5	N
28-Jul-26	14-Aug-26		7.6	42.9	N
4-Aug-26	14-Aug-26		7.4	32.8	N
11-Aug-26	18-Sep-26		7.8	36.5	N
25-Aug-26	18-Sep-26		7.7	37.0	N
1-Sep-26	18-Sep-26		7.8	36.7	N
8-Sep-26	18-Sep-26		7.7	38.6	N

Sampling Point: **Monitoring Point 4 - Drain 4 Torri Discharge**
 Licencee **Manildra Harwood Sugars**
 Location **Harwood Island, Harwood**
 EPL No **171**
 Parameter/s
 Monitored **Volume (kilolitres/day)**
 Frequency and
 Method **Continuous Online**



Limit/s **90000 kL/day**

The results in the table provide a summary of the minimum, maximum and mean daily volume discharged in kilolitres per day for the period and includes the number of exceedences for period

Note: 1

MONITORING PERIOD				Volume (kL)			Notes
Date Start	Date Finish	Date Received	Date Published	Minimum Daily Discharge	Maximum Daily Discharge	Mean Daily Discharge	
11-Jul-22	24-Jul-22	2-Aug-22	12-Aug-22	22569	23877	23223	
25-Jul-22	7-Aug-22	16-Aug-22	9-Sep-22	0	18385	18385	stopped 1/08/2022 - 07/08/2022
8-Aug-22	21-Aug-22	30-Aug-22	9-Sep-22	27924	36038	31981	
22-Aug-22	4-Sep-22	21-Sep-22	19-Oct-22	35213	39041	37127	
5-Sep-22	18-Sep-22	28-Sep-22	19-Oct-22	18471	33209	25840	
19-Sep-22	2-Oct-22	11-Oct-22	19-Oct-22	0	28715	28715	shut down wk 16
3-Oct-22	16-Oct-22	20-Oct-22	11-Nov-22	28444	32779	30611	
17-Oct-22	30-Oct-22	1-Nov-22	11-Nov-22	6981	31847	19414	Shut down Wk 20
1-Nov-22	13-Nov-22	17-Nov-22	16-Dec-22	43368	47018	45193	
14-Nov-22	27-Nov-22	8-Dec-22	16-Dec-22	43138	47159	45149	
28-Nov-22	11-Dec-22	20-Dec-22	16-Jan-23	42972	44230	43601	
12-Dec-22	25-Dec-22	3-Jan-23	16-Jan-23	32874	50492	41683	
3-Jan-23	15-Jan-23	17-Jan-23	17-Feb-23	12225	17522	14874	Non - Crush
15-Jan-23	29-Jan-23	2-Feb-23	17-Feb-23	12333	16105	14219	
29-Jan-23	12-Feb-23	20-Feb-23	17-Mar-23	15410	17180	16295	
13-Feb-23	27-Feb-23	9-Mar-23	17-Mar-23	0	16659	16659	Shutdown 1 week
28-Feb-23	12-Mar-23	15-Mar-23	17-Mar-23	13900	14755	14328	
13-Mar-23	26-Mar-23	28-Mar-23	18-Apr-23	11195	11558	11377	
27-Mar-23	9-Apr-23	12-Apr-23	18-Apr-23	14936	17421	16179	
10-Apr-23	23-Apr-23	3-May-23	11-May-23	0	16439	16439	No samples Easter Week
13-May-23	28-May-23	5-Jun-23	15-Jun-23	6118	10581	8350	
29-May-23	11-Jun-23	16-Jun-23	13-Jul-23	10547	10601	10574	
13-Jun-23	25-Jun-23	4-Jul-23	13-Jul-23	7953	8044	7999	
26-Jun-23	9-Jul-23	1-Aug-23	10-Aug-23	10239	16381	13310	
10-Jul-23	23-Jul-23	1-Aug-23	10-Aug-23	23106	34579	28842	
24-Jul-23	6-Aug-23	15-Aug-23	15-Sep-23	10778	35672	23225	mill shut down for Maint.
7-Aug-23	20-Aug-23	29-Aug-23	15-Sep-23	33554	36374	34964	
21-Aug-23	3-Sep-23	11-Sep-23	15-Sep-23	28073	37276	32675	
4-Sep-23	17-Sep-23	5-Oct-23	13-Oct-23	15986	33145	24566	
18-Sep-23	1-Oct-23	19-Oct-23	15-Dec-23	31532	32251	31891	
2-Oct-23	15-Oct-23	19-Oct-23	15-Dec-23	35537	38809	37173	
16-Oct-23	29-Oct-23	2-Nov-23	15-Dec-23	10626	40432	25529	crush finished.
31-Oct-23	12-Nov-23	29-Nov-23	15-Dec-23	12125	12890	12508	
13-Nov-23	26-Nov-23	29-Nov-23	15-Dec-23	0	13034	6517	Shut down
27-Nov-23	10-Dec-23	14-Dec-23	15-Dec-23	15314	16437	15876	
11-Dec-23	24-Dec-23	15-Jan-24	12-Feb-24	11481	14955	13218	
9-Jan-24	21-Jan-24	25-Jan-24	12-Feb-24	11404	17435	14420	
22-Jan-24	4-Feb-24	5-Feb-24	12-Feb-24	13980	17841	15911	
5-Feb-24	18-Feb-24	23-Feb-24	18-Mar-24	12930	13735	13333	

Sampling Point: **Monitoring Point 4 - Drain 4 Torri Discharge**
Licencee **Manildra Harwood Sugars**
Location **Harwood Island, Harwood**
EPL No **171**
Parameter/s
Monitored **Volume (kilolitres/day)**
Frequency and
Method **Continuous Online**



Limit/s **90000 kL/day**
The results in the table provide a summary of the minimum, maximum and mean daily volume discharged in kilolitres per day for the period and includes the number of exceedences for period
Note: 1

MONITORING PERIOD				Volume (kL)			Notes
Date Start	Date Finish	Date Received	Date Published	Minimum Daily Discharge	Maximum Daily Discharge	Mean Daily Discharge	
19-Feb-24	4-Mar-24	10-Mar-24	18-Mar-24	7964	15790	11877	3 days shut down
5-Mar-24	18-Mar-24	27-May-24	14-Jun-24	12348	12588	12468	
19-Mar-24	31-Mar-24	27-May-24	14-Jun-24	11440	13453	12447	
1-Apr-24	14-Apr-24	27-May-24	14-Jun-24	13780	19116	16448	
15-Apr-24	28-Apr-24	27-May-24	14-Jun-24	0	14962	14962	shutdown included
29-Apr-24	12-May-24	27-May-24	14-Jun-24	13749	14841	14295	
13-May-24	26-May-24	28-May-24	14-Jun-24	0	15024	15024	shutdown included
27-May-24	9-Jun-24	13-Jun-24	14-Jun-24	11094	12397	11746	
10-Jun-24	23-Jun-24	26-Jun-24	26-Jul-24	11100	13971	12536	
24-Jun-24	7-Jul-24	15-Jul-24	26-Jul-24	13506	17156	15331	
8-Jul-24	21-Jul-24	29-Jul-24	16-Aug-24	12630	27814	20222	
22-Jul-24	4-Aug-24	12-Aug-24	16-Aug-24	23485	36343	29914	
5-Aug-24	18-Aug-24	26-Aug-24	18-Sep-24	18900	38578	28739	
19-Aug-24	1-Sep-24	10-Sep-24	18-Sep-24	31716	50325	41020	
2-Sep-24	15-Sep-24	24-Sep-24	18-Oct-24	39990	47969	43979	
16-Sep-24	29-Sep-24	14-Oct-24	18-Oct-24	41678	43591	42634	
30-Oct-24	13-Oct-24	22-Oct-24	18-Nov-24	23461	39693	31577	
14-Oct-24	27-Oct-24	6-Nov-24	18-Nov-24	48361	49819	49090	
28-Oct-24	10-Nov-24	18-Nov-24	20-Dec-24	44758	55130	49944	
11-Nov-24	24-Nov-24	11-Dec-24	20-Dec-24	528	32666	16597	Shut down included - superheater tubes
25-Nov-24	8-Dec-24	31-Dec-24	14-Jan-25	29808	44701	37255	
9-Dec-24	22-Dec-24	31-Dec-24	14-Jan-25	49602	58785	54193	
23-Dec-24	5-Jan-25	29-Jan-25	14-Feb-25	20185	55404	37795	
6-Jan-25	19-Jan-25	29-Jan-25	14-Feb-25	25219	28635	26927	
20-Jan-25	2-Feb-25	2-Feb-25	14-Mar-25	17754	18509	18132	
3-Feb-25	16-Feb-25	20-Feb-25	14-Mar-25	18859	20222	19541	
17-Feb-25	2-Mar-25	19-Mar-25	11-Apr-25	19138	20547	19843	
3-Mar-25	16-Mar-25	19-Mar-25	11-Apr-25	11562	11562	11562	Shut down 1 week
17-Mar-25	30-Mar-25	4-Apr-25	11-Apr-25	20866	21193	21030	
31-Mar-25	13-Apr-25	16-Apr-25	9-May-25	16698	22431	19565	
20-May-25	1-Jun-25	13-Jun-25	10-Jul-25	12473	13035	12754	
2-Jun-25	15-Jun-25	25-Jun-25	10-Jul-25	15119	10102	12611	
16-Jun-25	29-Jun-25	9-Jul-25	10-Jul-25	13888	30549	22219	
30-Jun-25	13-Jul-25	16-Jul-25	15-Aug-25	24009	36287	30148	
14-Jul-25	27-Jul-25	5-Aug-25	15-Aug-25	20114	39232	29673	
28-Jul-25	10-Aug-25	21-Aug-25	15-Sep-25	29324	33548	31436	
11-Aug-25	24-Aug-25	27-Aug-25	15-Sep-25	22827	26059	24443	
25-Aug-25	14-Sep-25	22-Sep-25	9-Oct-25	26282	39198	32740	
15-Sep-25	21-Sep-25	30-Sep-25	9-Oct-25	27947	36994	32470	
22-Sep-25	5-Oct-25	16-Oct-25	14-Nov-25	41572	49749	45661	
6-Oct-25	19-Oct-25	31-Oct-25	14-Nov-25	50661	50695	50678	
20-Oct-25	2-Nov-25	25-Nov-25	12-Dec-25	40124	40443	40284	
3-Nov-25	16-Nov-25	25-Nov-25	12-Dec-25	10794	32724	21759	
17-Nov-25	30-Nov-25	9-Dec-25	12-Dec-25	8334	25597	16965	
1-Dec-25	14-Dec-25	9-Jan-26	16-Jan-26	45339	58140	51740	
15-Dec-25	28-Dec-25	9-Jan-26	16-Jan-26	8902	61078	34990	
29-Dec-25	11-Jan-26	21-Jan-26	16-Feb-26	47168	47958	47563	
12-Jan-26	20-Jan-26	18-Feb-26	20-Mar-26	12870	20005	16437	CRUSH completed 14/01/2026.
26-Jan-26	8-Feb-26	18-Feb-26	20-Mar-26	11774	17511	14643	
9-Feb-26	22-Feb-26	25-Feb-26	20-Mar-26	19192	20186	19689	
23-Feb-26	8-Mar-26	10-Mar-26	20-Mar-26	20273	21015	20644	
9-Mar-26	22-Mar-26	23-Mar-26	17-Apr-26	14933	17345	16139	
23-Mar-26	5-Apr-26	7-Apr-26	17-Apr-26	14856	16292	15574	
6-Apr-26	19-Apr-26	20-May-26	15-May-26	13574	13574	13574	
20-Apr-26	3-May-26	4-May-26	15-May-26	13741	13906	13824	
4-May-26	17-May-26	30-Jun-26	17-Jul-26	0	0	0	REFINERY/MILL SHUTDOWN
11-May-26	31-May-26	30-Jun-26	17-Jul-26	0	0	0	REFINERY/MILL SHUTDOWN
1-Jun-26	14-Jun-26	30-Jun-26	17-Jul-26	12917	13215	13066	
15-Jun-26	28-Jun-26	30-Jun-26	17-Jul-26	11160	34169	22665	Mill start up - 23/6/2026
29-Jun-26	12-Jul-26	16-Jul-26	17-Jul-26	21009	35444	28226	
13-Jul-26	26-Jul-26	4-Aug-26	14-Aug-26	18779	31287	25033	
27-Jul-26	9-Aug-26	17-Aug-26	18-Sep-26	33677	38973	36325	
10-Aug-26	23-Aug-26	27-Aug-26	18-Sep-26	20258	38167	29212	
24-Aug-26	6-Sep-26	15-Sep-26	18-Sep-26	33393	35309	34351	

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameter/s Monitored	Biochemical Oxygen Demand and Total Suspended Solids (milligrams per litre)				
Frequency & Method	Fortnightly Composite				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
					
Date Sampled	Date Results Obtained	Date Published	BOD ₅ (mg/L)	TSS (mg/L)	Notes
5-Jul-22	11-Jul-22	18-Jul-22	1.9	9.0	
12-Jul-22	20-Jul-22	12-Aug-22	1.9	4.0	
19-Jul-22	26-Jul-22	12-Aug-22	0.0	18.0	
26-Jul-22	1-Aug-22	12-Aug-22	8.3	4.5	
9-Aug-22	15-Aug-22	9-Sep-22	2.6	4.0	mill stopped between 1/08/2022 and 07/08/2022
16-Aug-22	24-Aug-22	9-Sep-22	2.1	13.0	
23-Aug-22	29-Aug-22	9-Sep-22	0.0	7.0	
30-Aug-22	6-Sep-22	9-Sep-22	2.1	9.0	
6-Sep-22	13-Sep-22	19-Oct-22	0.0	8.0	
13-Sep-22	21-Sep-22	19-Oct-22	2.1	12.0	
20-Sep-22	27-Sep-22	19-Oct-22	2.7	7.0	
26-Sep-22	2-Oct-22				Shut down
4-Oct-22	10-Oct-22	19-Oct-22	1.6	11.0	
11-Oct-22	19-Oct-22	11-Nov-22	3.8	14.0	
18-Oct-22	23-Oct-22	11-Nov-22	2.3	6.3	
25-Oct-22	31-Oct-22	11-Nov-22	1.8	27.0	
1-Nov-22	8-Nov-22	11-Nov-22	1.4	11.0	
9-Nov-22	14-Nov-22	16-Dec-22	0.0	16.0	
15-Nov-22	22-Nov-22	16-Dec-22	2.2	7.7	
22-Nov-22	28-Nov-22	16-Dec-22	1.0	8.0	
29-Nov-22	7-Dec-22	16-Dec-22	2.6	8.7	
7-Dec-22	14-Dec-22	16-Dec-22	1.4	10.0	
13-Dec-22	20-Dec-22	16-Jan-23	2.9	3.0	
20-Dec-22	3-Jan-23	16-Jan-23	2.1	3.0	
3-Jan-23	9-Jan-23	16-Jan-23	0.0	12.0	
10-Jan-23	17-Jan-23	17-Feb-23	0.0	10.0	
17-Jan-23	24-Jan-23	17-Feb-23	2.0	10.0	
24-Jan-23	1-Feb-23	17-Feb-23	1.8	11.6	
31-Jan-23	9-Feb-23	17-Feb-23	0.0	134.0	
7-Feb-23	13-Feb-23	17-Feb-23	2.4	7.0	
14-Feb-23	20-Feb-23	17-Mar-03	0.0	3.0	
21-Jan-00	28-Feb-23				Shutdown - no samples
28-Feb-23	9-Mar-23	17-Mar-03	0.0	6.0	
7-Mar-23	15-Mar-23	17-Mar-03	0.0	13.8	
14-Mar-23	22-Mar-23	18-Apr-23	1.2	22.0	
21-Mar-23	26-Mar-23	18-Apr-23	0.0	27.0	
28-Mar-23	3-Apr-23	18-Apr-23	0.0	9.0	
4-Apr-23	14-Apr-23	18-Apr-23	1.0	9.0	
18-Apr-23	28-Apr-23	15-Jun-23	2.2	23.0	no samples Easter Week
23-May-23	28-May-23	15-Jun-23	1.8	8.0	Shutdown - no samples
30-May-23	5-Jun-23	15-Jun-23	1.4	8.0	
6-Jun-23	16-Jun-23	13-Jul-23	0.0	7.0	
20-Jun-23	5-Jul-23	13-Jul-23	0.0	3.0	NO Samples
27-Jun-23	4-Jul-23	13-Jul-23	0.0	3.0	
4-Jul-23	11-Jul-23	13-Jul-23	2.1	10.6	
11-Jul-23	17-Jul-23	10-Aug-23	0.0	10.8	
18-Jul-23	25-Jul-23	10-Aug-23	1.2	3.0	
					No Samples . Maint. Day

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameter/s Monitored	Biochemical Oxygen Demand and Total Suspended Solids (milligrams per litre)				
Frequency & Method	Fortnightly Composite				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
					
Date Sampled	Date Results Obtained	Date Published	BOD ₅ (mg/L)	TSS (mg/L)	Notes
1-Aug-23	7-Aug-23	10-Aug-23	0.0	5.0	
8-Aug-23	14-Aug-23	15-Sep-23	1.9	0.0	
15-Aug-23	22-Aug-23	15-Sep-23	2.1	4.0	
22-Aug-23	29-Aug-23	15-Sep-23	1.8	5.0	
29-Aug-23	5-Sep-23	15-Sep-23	1.5	7.0	
5-Sep-23	11-Sep-23	15-Sep-23	0.0	7.0	
12-Sep-23	19-Sep-23	13-Oct-23	3.9	9.0	
20-Sep-23	25-Sep-23	13-Oct-23	3.5	10.0	
26-Sep-23	5-Oct-23	13-Oct-23	2.9	13.0	
3-Oct-23	11-Oct-23	13-Oct-23	1.1	3.0	
10-Oct-23	19-Oct-23	15-Dec-23	0.0	4.0	
17-Oct-23	23-Oct-23	15-Dec-23	1.6	9.0	
24-Oct-23	1-Nov-23	15-Dec-23	0.0	5.0	
31-Oct-23	8-Nov-23	15-Dec-23	0.0	7.0	
7-Nov-23	13-Nov-23	15-Dec-23	0.0	14.0	
14-Nov-23	19-Nov-23				Shutdown - no samples
21-Nov-23	26-Nov-23	15-Dec-23	0.0	15.9	
28-Nov-23	4-Dec-23	15-Dec-23	0.0	15.3	
5-Dec-23	13-Dec-23	15-Dec-23	2.6	15.4	
12-Dec-23	18-Dec-23	15-Jan-24	1.4	27.0	
19-Dec-23	24-Dec-23	15-Jan-24	0.0	17.0	
9-Jan-24	16-Jan-24	12-Feb-24	0.0	17.0	
16-Jan-24	25-Jan-24	12-Feb-24	1.3	8.0	
23-Jan-24	29-Jan-24	12-Feb-24	1.7	17.0	
30-Jan-24	5-Feb-24	12-Feb-24	0.0	25.0	
6-Feb-24	12-Feb-24	18-Mar-24	0.0	13.0	
13-Feb-24	23-Feb-24	18-Mar-24	0.0	36.0	
19-Feb-24	26-Feb-24	18-Mar-24	2.1	14.0	
27-Feb-24	4-Mar-24	18-Mar-24	0.0	20.0	
5-Mar-24	11-Mar-24	18-Mar-24	1.6	9.0	
12-Mar-24	18-Mar-24	15-Apr-24	0.0	16.0	
19-Mar-24	25-Mar-24	19-Apr-24	1.5	11.0	
26-Mar-24	2-Apr-24	19-Apr-24	1.1	7.0	
2-Apr-24	8-Apr-24	19-Apr-24	0.0	16.0	
9-Apr-24	15-Apr-24	19-Apr-24	0.0	34.0	
					Shutdown - no samples
23-Apr-24	29-Apr-24	17-May-24	1.9	11.0	
30-Apr-24	7-May-24	17-May-24	0.0	16.0	
7-May-24	13-May-24	17-May-24	1.8	12.0	
13-May-24	19-May-24				Shutdown - no samples
21-May-24	27-May-24	14-Jun-24	1.2	4.0	
28-May-24	2-Apr-24	14-Jun-24	0.0	11.0	
4-Jun-24	11-Jun-24	14-Jun-24	1.1	9.0	
11-Jun-24	17-Jun-24	26-Jul-24	0.0	11.0	
18-Jun-24	26-Jun-24	26-Jul-24	4.6	5.0	
25-Jun-24	2-Jul-24	26-Jul-24	0.0	5.0	
2-Jul-24	8-Jul-24	26-Jul-24	1.0	4.0	
9-Jul-24	15-Jul-24	26-Jul-24	0.0	7.0	
16-Jul-24	29-Jul-24	16-Aug-24	1.7	3.0	
30-Jul-24	6-Aug-24	16-Aug-24	2.1	3.0	
6-Aug-24	12-Aug-24	16-Aug-24	1.1	7.0	
13-Aug-24	21-Aug-24	18-Sep-24	0.0	10.0	
20-Aug-24	26-Aug-24	18-Sep-24	3.7	17.0	
27-Aug-24	2-Sep-24	18-Sep-24	1.3	15.0	
					Shut down

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameter/s Monitored	Biochemical Oxygen Demand and Total Suspended Solids (milligrams per litre)				
Frequency & Method	Fortnightly Composite				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
					
Date Sampled	Date Results Obtained	Date Published	BOD ₅ (mg/L)	TSS (mg/L)	Notes
10-Sep-24	19-Sep-24	18-Oct-24	1.9	8.0	
17-Sep-24	23-Sep-24	18-Oct-24	0.0	9.0	
24-Sep-24	1-Oct-24	18-Oct-24	2.4	3.0	
1-Oct-24	8-Oct-24	18-Oct-24	0.0	8.0	
8-Oct-24	16-Oct-24	18-Oct-24	2.4	8.0	
15-Oct-24	22-Oct-24	18-Oct-24	1.0	10.0	
22-Oct-24	5-Nov-24	18-Nov-24	0.0	10.0	
5-Nov-24	14-Nov-24	18-Nov-24	3.0	5.0	Mill not running 29/10/24
26-Nov-24	10-Dec-24	18-Nov-24	1.5	15.0	Mill shutdown 12/11/2024 & 19/11/24 - Superheater Tubes
10-Dec-24	2-Jan-25	20-Dec-24	0.0	0.0	
17-Dec-24	2-Jan-25	14-Jan-25	1.2	20.0	
7-Jan-25	14-Jan-25	14-Jan-25	5.0	15.1	Mill Christmas shutdown 24/12 - 27/12
14-Jan-25	28-Jan-25	14-Feb-25	1.4	8.0	Last day of 2024 crush 7/1
28-May-25	6-Feb-25	14-Feb-25	1.3	15.0	
4-Feb-25	13-Feb-25	14-Mar-25	13.9	17.0	
11-Feb-25	19-Feb-25	14-Mar-25	4.9	23.0	
18-Feb-25	24-Feb-25	14-Mar-25	1.7	7.1	
4-Mar-25	19-Mar-25	14-Mar-25	0.0	12.0	No Samples
18-Mar-25	3-Apr-25	11-Apr-25	10.3	18.0	
25-Mar-25	3-Apr-25	11-Apr-25	7.6	12.0	
1-Apr-25	11-Apr-25	11-Apr-25	8.0	18.0	
8-Apr-25	22-Apr-25	9-May-25	10.6	14.0	
20-May-25	28-May-25	9-May-25	5.7	14.0	
27-May-25	3-Jun-25	12-Jun-25	4.1	46.0	
3-Jun-25	13-Jun-25	12-Jun-25	35.6	13.0	
24-Jun-25	30-Jun-25	10-Jul-25	2.8	9.0	
8-Jul-25	15-Jul-25	10-Jul-25	3.2	5.8	
15-Jul-25	28-Jul-25	15-Aug-25	22.9	5.0	
22-Jul-25	28-Jul-25	15-Aug-25	3.2	4.0	
12-Aug-25	20-Aug-25	15-Sep-25	84.0	13.0	
19-Aug-25	27-Aug-25	15-Sep-25	2.0	5.0	
26-Aug-25	3-Sep-25	15-Sep-25	2.9	12.0	
2-Sep-25	10-Sep-25	15-Sep-25	2.5	16.0	
9-Sep-25	19-Sep-25	9-Oct-25	2.6	13.0	
16-Sep-25	23-Sep-25	9-Oct-25	2.6	7.0	
30-Sep-25	10-Oct-25	14-Nov-25	2.4	2.0	No samples sent 23/9/2025 Mill not running
7-Oct-25	16-Oct-25	14-Nov-25	2.7	12.0	
14-Oct-25	23-Oct-25	14-Nov-25	2.5	4.0	
21-Oct-25	31-Oct-25	14-Nov-25	2.2	11.0	
28-Oct-25	5-Nov-25	14-Nov-25	2.4	8.0	
4-Nov-25	10-Nov-25	14-Nov-25	0.0	44.0	
18-Nov-25	25-Nov-25	12-Dec-25	5.1	9.0	No samples sent 11/11/2025 due to Boiler Shutdown
2-Dec-25	9-Dec-25	12-Dec-25	1.8	12.0	
16-Dec-25	9-Jan-26	16-Jan-26	1.0	9.0	No samples collected 9/12/2025 due to Boiler Shutdown
13-Jan-26	27-Jan-26	16-Feb-26	2.6	5.0	LAST WEEK OF 2025 CRUSH
27-Jan-26	10-Feb-26	16-Feb-26	0.0	18.0	
3-Feb-26	16-Feb-26	16-Feb-26	1.1	13.0	
10-Feb-26	23-Feb-26	16-Feb-26	1.1	7.0	
17-Feb-26	2-Mar-26	20-Mar-26	2.1	6.0	
24-Feb-26	9-Mar-26	20-Mar-26	1.7	5.0	
3-Mar-26	16-Mar-26	20-Mar-26	1.9	14.0	
10-Mar-26	23-Mar-26	20-Mar-26	2.0	24.0	
17-Mar-26	1-Apr-26	20-Mar-26	1.3	14.0	
24-Mar-26	7-Apr-26	17-Apr-26	2.2	18.0	
31-Mar-26	20-Apr-26	17-Apr-26	1.3	2.0	
14-Apr-26	29-Apr-26	17-Apr-26	1.0	27.0	
21-Apr-26	10-Jun-26	15-May-26	2.1	4.0	
2-Jun-26	10-Jun-26	15-May-26	2.1	4.0	
9-Jun-26	22-Jun-26	12-Jun-26	1.9	7.0	
16-Jun-26	22-Jun-26	17-Jul-26	2.6	6.0	
23-Jun-26	29-Jun-26	17-Jul-26	0.0	6.0	
7-Jul-26	13-Jul-26	17-Jul-26	2.0	6.0	
14-Jul-26	20-Jul-26	14-Aug-26	0.0	8.0	
28-Jul-26	3-Aug-26	14-Aug-26	1.4	7.0	
4-Aug-26	13-Aug-26	14-Aug-26	1.5	16.0	
11-Aug-26	17-Aug-26	18-Sep-26	1.3	14.0	
25-Aug-26	31-Aug-26	18-Sep-26	1.2	10.0	
1-Sep-26	7-Sep-26	18-Sep-26	1.6	3.0	
8-Sep-26	14-Sep-26	18-Sep-26	1.7	7.0	

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameters Monitored	pH and Temperature (°C)				
Frequency & Method	Fortnightly Representative Insitu				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
					
Date Sampled	Date Results Obtained	Date Published	pH	Temp (°C)	Notes
5-Jul-22	11-Jul-22	18-Jul-22	7.7	15.7	
12-Jul-22	20-Jul-22	12-Aug-22	7.5	15.0	
19-Jul-22	26-Jul-22	12-Aug-22	7.7	15.4	
26-Jul-22	1-Aug-22	12-Aug-22	7.5	15.5	
9-Aug-22	15-Aug-22	9-Sep-22	7.7	16.8	mill stopped between 1/08/2022 and 07/08/2022
16-Aug-22	24-Aug-22	9-Sep-22	7.7	17.0	
23-Aug-22	29-Aug-22	9-Sep-22	7.8	17.8	
30-Aug-22	6-Sep-22	9-Sep-22	7.8	18.4	
6-Sep-22	13-Sep-22	19-Oct-22	7.7	18.4	
13-Sep-22	21-Sep-22	19-Oct-22	7.8	19.5	
20-Sep-22	27-Sep-22	19-Oct-22	7.8	19.9	
26-Sep-22	2-Oct-22				
4-Oct-22	10-Oct-22	19-Oct-22	7.0	19.9	
11-Oct-22	19-Oct-22	11-Nov-22	7.2	21.4	
18-Oct-22	25-Oct-22	11-Nov-22	7.3	22.0	
25-Oct-22	31-Oct-22	11-Nov-22	6.8	20.4	
1-Nov-22	8-Nov-22	11-Nov-22	7.2	22.5	
9-Nov-22	14-Nov-22	16-Dec-22	7.2	22.8	
15-Nov-22	22-Nov-22	16-Dec-22	7.3	24.5	
22-Nov-22	28-Nov-22	16-Dec-22	7.7	25.2	
29-Nov-22	7-Dec-22	16-Dec-22	7.6	24.8	
7-Dec-22	14-Dec-22	16-Dec-22	7.8	25.0	
13-Dec-22	20-Dec-22	16-Jan-23	7.6	25.7	
20-Dec-22	3-Jan-23	16-Jan-23	8.0	24.2	
3-Jan-23	9-Jan-23	16-Jan-23	7.9	26.6	
10-Jan-23	17-Jan-23	17-Feb-23	7.9	27.0	
17-Jan-23	24-Jan-23	17-Feb-23	7.9	27.5	
24-Jan-23	1-Feb-23	17-Feb-23	7.9	27.4	
31-Jan-23	9-Feb-23	17-Feb-23	8.0	28.3	
7-Feb-23	13-Feb-23	17-Feb-23	7.9	28.3	
14-Feb-23	20-Feb-23	17-Mar-03	8.0	27.4	
21-Jan-00	28-Feb-23				Shutdown - no samples
28-Feb-23	9-Mar-23	17-Mar-03	8.0	26.6	
7-Mar-23	15-Mar-23	17-Mar-03	8.1	26.6	
14-Mar-23	22-Mar-23	18-Apr-23	7.9	26.6	
21-Mar-23	26-Mar-23	18-Apr-23	7.7	27.4	
28-Mar-23	3-Apr-23	18-Apr-23	7.9	26.7	
4-Apr-23	14-Apr-23	18-Apr-23	7.9	24.9	
					no samples Easter Week
18-Apr-23	28-Apr-23	15-Jun-23	7.9	22.8	
					Shutdown - no samples
23-May-23	28-May-23	15-Jun-23	7.7	18.3	
30-May-23	5-Jun-23	15-Jun-23	8.0	18.0	
6-Jun-23	16-Jun-23	13-Jul-23	7.7	18.5	
20-Jun-23	5-Jul-23	13-Jul-23	7.9	16.9	
27-Jun-23	4-Jul-23	13-Jul-23	7.9	16.4	
4-Jul-23	11-Jul-23	13-Jul-23	7.8	16.1	
11-Jul-23	17-Jul-23	10-Aug-23	7.9	16.4	
18-Jul-23	25-Jul-23	10-Aug-23	7.8	17.1	
25-Jul-23					No Samples - Maint. Day

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameters Monitored	pH and Temperature (°C)				
Frequency & Method	Fortnightly Representative Insitu				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
					
Date Sampled	Date Results Obtained	Date Published	pH	Temp (°C)	Notes
1-Aug-23	7-Aug-23	10-Aug-23	7.8	18.3	
8-Aug-23	14-Aug-23	15-Sep-23	7.8	18.4	
15-Aug-23	22-Aug-23	15-Sep-23	7.8	19.2	
22-Sep-23	29-Aug-23	15-Sep-23	7.7	19.0	
29-Aug-23	5-Sep-23	15-Sep-23	7.8	19.9	
5-Sep-23	11-Sep-23	15-Sep-23	7.7	21.0	
12-Sep-23	19-Sep-23	13-Oct-23	7.8	20.6	
20-Sep-23	25-Sep-23	13-Oct-23	7.9	21.6	
26-Sep-23	5-Oct-23	13-Oct-23	7.8	21.8	
3-Oct-23	11-Oct-23	13-Oct-23	7.7	23.1	
10-Oct-23	19-Oct-23	15-Dec-23	7.9	22.6	
17-Oct-23	23-Oct-23	15-Dec-23	7.8	22.9	
24-Oct-23	1-Nov-23	15-Dec-23	7.8	24.1	
31-Oct-23	8-Nov-23	15-Dec-23	7.7	23.2	
7-Nov-23	13-Nov-23	15-Dec-23	7.6	23.3	
14-Nov-23	19-Nov-23				Shutdown - no samples
21-Nov-23	26-Nov-23	15-Dec-23	7.6	24.8	
28-Nov-23	4-Dec-23	15-Dec-23	7.6	26.0	
5-Dec-23	13-Dec-23	15-Dec-23	7.6	27.7	
12-Dec-23	18-Dec-23	15-Jan-24	7.6	28.2	
19-Dec-23	24-Dec-23	15-Jan-24	7.6	27.9	
9-Jan-24	16-Jan-24	12-Feb-24	7.8	27.9	
16-Jan-24	25-Jan-24	12-Feb-24	7.7	27.6	
23-Jan-24	29-Jan-24	12-Feb-24	7.2	27.5	
30-Jan-24	5-Feb-24	12-Feb-24	7.1	28.8	
6-Feb-24	12-Feb-24	18-Mar-24	7.7	27.9	
13-Feb-24	23-Feb-24	18-Mar-24	7.4	28.1	
19-Feb-24	26-Feb-24	18-Mar-24	7.5	28.8	
27-Feb-24	4-Mar-24	18-Mar-24	7.5	24.6	
5-Mar-24	11-Mar-24	18-Mar-24	7.8	24.6	
12-Mar-24	18-Mar-24	15-Apr-24	7.6	24.3	temp data manually extracted
19-Mar-24	25-Mar-24	19-Apr-24	8.0	25.7	temp data manually extracted
26-Mar-24	2-Apr-24	19-Apr-24	7.6	23.5	temp data manually extracted
2-Apr-24	8-Apr-24	19-Apr-24	7.8	24.7	temp data manually extracted
9-Apr-24	15-Apr-24	19-Apr-24	7.3	23.3	temp data manually extracted
					Shutdown - no samples
23-Apr-24	29-Apr-24	17-May-24	7.6	19.1	temp data manually extracted
30-Apr-24	7-May-24	17-May-24	7.4	22.3	temp data manually extracted
7-May-24	13-May-24	17-May-24	7.5	20.7	temp data manually extracted
13-May-24	19-May-24				Shutdown - no samples
21-May-24	27-May-24	14-Jun-24	7.4	19.1	
28-May-24	2-Apr-24	14-Jun-24	7.6	19.5	
4-Jun-24	11-Jun-24	14-Jun-24	7.9	18.7	
11-Jun-24	17-Jun-24	26-Jul-24	7.7	17.8	
18-Jun-24	26-Jun-24	26-Jul-24	9.3	17.9	
25-Jun-24	2-Jul-24	26-Jul-24	7.7	17.0	First Week Of Crush
2-Jul-24	8-Jul-24	26-Jul-24	7.8	17.3	
9-Jul-24	15-Jul-24	26-Jul-24	7.6	17.6	
16-Jul-24	29-Jul-24	16-Aug-24	7.9	16.8	
30-Jul-24	6-Aug-24	16-Aug-24	8.0	16.6	
6-Aug-24	12-Aug-24	16-Aug-24	7.8	17.4	
13-Aug-24	21-Aug-24	18-Sep-24	7.5	17.5	
20-Aug-24	26-Aug-24	18-Sep-24	7.1	18.5	
27-Aug-24	2-Sep-24	18-Sep-24	7.0	20.5	
					Shut down

Sampling Point:	Monitoring Point 5 - Injection Water Inlet, Background River Water Quality				
Licencee	Manildra Harwood Sugars				
Location	Harwood Island, Harwood				
EPL No	171				
Parameters Monitored	pH and Temperature (°C)				
Frequency & Method	Fortnightly Representative Insitu				
Limits	Not Applicable - Data is used to determine compliance for BOD & TSS at monitoring point 4 by subtracting these background results from the results at point 4				
Date Sampled	Date Results Obtained	Date Published	pH	Temp (°C)	Notes
10-Sep-24	19-Sep-24	18-Oct-24	7.4	21.8	
17-Sep-24	23-Sep-24	18-Oct-24	7.7	20.6	
24-Sep-24	1-Oct-24	18-Oct-24	7.7	21.2	
1-Oct-24	8-Oct-24	18-Oct-24	7.6	21.0	
8-Oct-24	16-Oct-24	18-Oct-24	7.5	22.6	
15-Oct-24	22-Oct-24	18-Oct-24	7.5	22.5	
22-Oct-24	5-Nov-24	18-Nov-24	7.5	24.2	
5-Nov-24	14-Nov-24	18-Nov-24	7.6	26.3	Mill not running 29/10/24
26-Nov-24	10-Dec-24	18-Nov-24	7.2	26.3	Mill shutdown 12/11/2024 & 19/11/24 - Superheater Tubes
10-Dec-24	2-Jan-25	20-Dec-24	7.2	27.9	
17-Dec-24	2-Jan-25	14-Jan-25	7.2	27.9	
7-Jan-25	14-Jan-25	14-Jan-25	7.7	27.9	Mill Christmas shutdown 24/12 - 27/12
14-Jan-25	28-Jan-25	14-Feb-25	7.7	27.6	Last day of 2024 crush 7/1
28-May-25	6-Feb-25	14-Feb-25	7.6	28.4	
4-Feb-25	13-Feb-25	14-Mar-25	7.8	27.2	
11-Feb-25	19-Feb-25	14-Mar-25	7.6	28.6	
18-Feb-25	24-Feb-25	14-Mar-25	7.5	28.0	
4-Mar-25	19-Mar-25	14-Mar-25	7.7	27.1	No Samples
18-Mar-25	3-Apr-25	11-Apr-25	6.9	24.9	
25-Mar-25	3-Apr-25	11-Apr-25	7.3	24.8	
1-Apr-25	11-Apr-25	11-Apr-25	7.2	22.1	
8-Apr-25	22-Apr-25	9-May-25	7.2	22.3	
20-May-25	28-May-25	9-May-25	7.5	19.5	
27-May-25	3-Jun-25	12-Jun-25	7.1	18.7	
3-Jun-25	13-Jun-25	12-Jun-25	7.1	17.9	
24-Jun-25	30-Jun-25	10-Jul-25	7.3	17.0	
8-Jul-25	15-Jul-25	10-Jul-25	7.5	16.8	
15-Jul-25	28-Jul-25	15-Aug-25	7.8	16.4	
22-Jul-25	28-Jul-25	15-Aug-25	7.8	16.3	
12-Aug-25	20-Aug-25	15-Sep-25	7.5	16.4	
19-Aug-25	27-Aug-25	15-Sep-25	7.4	16.9	
26-Aug-25	3-Sep-25	15-Sep-25	7.4	17.9	
2-Sep-25	10-Sep-25	15-Sep-25	7.3	18.8	
9-Sep-25	19-Sep-25	9-Oct-25	7.2	20.7	
16-Sep-25	23-Sep-25	9-Oct-25	7.4	20.7	
30-Sep-25	10-Oct-25	14-Nov-25	7.8	23.1	No samples sent 23/9/2025 Mill not running
7-Oct-25	16-Oct-25	14-Nov-25	7.7	24.4	
14-Oct-25	23-Oct-25	14-Nov-25	7.6	25.2	
21-Oct-25	31-Oct-25	14-Nov-25	7.7	25.4	
28-Oct-25	5-Nov-25	14-Nov-25	7.7	24.6	
4-Nov-25	10-Nov-25	14-Nov-25	7.7	26.1	
18-Nov-25	25-Nov-25	12-Dec-25	7.8	24.8	No samples sent 11/11/2025 due to Boiler Shutdown
2-Dec-25	9-Dec-25	12-Dec-25	8.0	26.7	
16-Dec-25	9-Jan-26	16-Jan-26	7.8	27.5	No samples collected 9/12/2025 due to Boiler Shutdown
13-Jan-26	27-Jan-26	16-Feb-26	8.0	28.1	LAST WEEK OF 2025 CRUSH
27-Jan-26	10-Feb-26	16-Feb-26	8.0	27.9	
3-Feb-26	16-Feb-26	16-Feb-26	7.9	27.0	
10-Feb-26	23-Feb-26	16-Feb-26	8.0	27.7	
17-Feb-26	2-Mar-26	20-Mar-26	7.9	26.9	
24-Feb-26	9-Mar-26	20-Mar-26	8.0	28.0	
3-Mar-26	16-Mar-26	20-Mar-26	8.0	27.4	
10-Mar-26	23-Mar-26	20-Mar-26	8.0	26.9	
17-Mar-26	1-Apr-26	20-Mar-26	8.0	26.2	
24-Mar-26	7-Apr-26	17-Apr-26	7.9	26.1	
31-Mar-26	20-Apr-26	17-Apr-26	7.9	25.0	
14-Apr-26	29-Apr-26	17-Apr-26	8.1	24.7	
21-Apr-26	10-Jun-26	15-May-26	8.0	22.6	
2-Jun-26	10-Jun-26	15-May-26	7.8	19.1	
9-Jun-26	22-Jun-26	12-Jun-26	7.8	18.4	
16-Jun-26	22-Jun-26	17-Jul-26	7.5	19.3	
23-Jun-26	29-Jun-26	17-Jul-26	7.6	18.7	
7-Jul-26	13-Jul-26	17-Jul-26	7.8	17.6	
14-Jul-26	20-Jul-26	14-Aug-26	7.7	17.3	
28-Jul-26	3-Aug-26	14-Aug-26	7.6	17.6	
4-Aug-26	13-Aug-26	14-Aug-26	7.6	17.8	
11-Aug-26	17-Aug-26	18-Sep-26	7.8	18.0	
25-Aug-26	31-Aug-26	18-Sep-26	7.8	19.6	No EPA collection done last week as Mill was in
1-Sep-26	7-Sep-26	18-Sep-26	7.8	20.7	
8-Sep-26	14-Sep-26	18-Sep-26	7.9	21.4	



Manildra Harwood Sugars
Harwood Island, Harwood
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