

Malabar Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 372

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
oil and grease ¹	mg/L	every 6 days	28	20	63	40	47	no ²
total suspended solids	mg/L	every 6 days	61	53	230	250	160	yes

50 percentile yearly summary								
EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
oil and grease ¹	mg/L	every 6 days	33	13	63	55	33	yes

¹A change in the Malabar WWTP EPL on 15th December 2021 resulted in a change in limit for oil and grease for both 50th and 90th percentiles.

Sample results and corresponding limits for period 1 July 2021 to 15th December 2022 can be found in Table 1, and results and limits for period 15th December 2022 to

30th June 2022 can be found in Table 2. These changes also apply to 90th percentile tables 4 and 5.

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90 percentile yearly summary								
EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	299	1,050	1,837	759	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	298	580	135	yes
nonylphenol ethoxylate	ug/L	monthly	12	17	311	515	296	yes
oil and grease ¹	mg/L	every 6 days	28	20	63	60	61	no ²
total suspended solids	mg/L	every 6 days	61	53	230	300	190	yes

90 percentile yearly summary								
EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
oil and grease ¹	mg/L	every 6 days	33	13	63	70	45	yes

²The 50th and 90th percentile oil and grease concentration exceedances were referenced against the historical limits applicable prior to the approval and release of the Licence Variation Application (LVA) on the 15th December 2021. The percentile exceedances can be attributed to the increasing oil and grease concentrations in the influent entering the deep ocean outfall (DOOF) WRRFs since 2000. Malabar WWTP are continuously working to optimise oil and grease capture within capacity and process unit availability, and Sydney Water have launched a public campaign to influence customers to better manage their wastewater.

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90 percentile yearly summary

EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	0.25	1.4	0.1	0.3	yes

Average yearly summary

EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	299	1,050	885	594	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	298	187	54	yes
nonylphenol ethoxylate	ug/L	monthly	12	17	311	332	168	yes
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	0.25	1.4	0.19	0.7	yes

Effluent quality monitoring results obtained from EPA Point 6 are used to indicate the quality of water discharged at EPA Point 2 (deep water ocean outfall).

As per clause M2.4 under EPL 372, collection of samples from EPA Point 7 or EPA Point 8 is required when sewage or effluent is discharged from EPA Point 3 or 4.

There was no discharge from EPA Point 3 or 4 during the 2021-22 monitoring period.