Quakers Hill Wastewater Treatment Plant
2024-25 Pollution Monitoring Summary

EPL 1724

Summary period: 01-07-2024 to 30-06-2025

Date published: 01-08-2025

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
EPA Point 4 Site code QH0004	**Point description: Downstream of the overflow weir in the clean water tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**50 percentile limit**	**50 percentile value**	**within limits**
biochemical oxygen demand	mg/L	every 6 days	60	<2	5	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	60	<0.01	1.68	0.9	0.01	yes
total suspended solids	mg/L	every 6 days	60	<2	5	5	<2	yes

Table 1: 50 percentile yearly summary								
EPA Point 5 Site code QH0005	**Point description: At the outlet of the chlorine contact tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**50 percentile limit**	**50 percentile value**	**within limits**
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes

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Table 2: 80 percentile yearly summary								
EPA Point 5 Site code QH0005	**Point description: At the outlet of the chlorine contact tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**80 percentile limit**	**80 percentile value**	**within limits**
faecal coliforms	CFU/100mL	every 6 days	61	<1	980	200	44	yes

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Table 3: 90 percentile yearly summary								
EPA Point 4 Site code QH0004	Point description: Downstream of the overflow weir in the clean water tank							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limit
aluminium	ug/L	monthly	12	63	283	190	156	yes
biochemical oxygen demand	mg/L	every 6 days	60	<2	5	15	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.3	<0.1	yes
chromium	ug/L	monthly	12	<0.2	1.2	4	0.8	yes
copper	ug/L	monthly	12	2.8	6.9	6	6.6	no [1]
nitrogen (ammonia)	mg/L	every 6 days	60	<0.01	1.68	1.4	0.19	yes
total suspended solids	mg/L	every 6 days	60	<2	5	10	2	yes
zinc	ug/L	monthly	12	15	31	41	22	yes

Table 3: 90 percentile yearly summary								
EPA Point 5 Site code QH0005	Point description: At the outlet of the chlorine contact tank							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limit
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.04	0.1	<0.04	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes

[1] The 90 percentile copper limit exceedance is largely influenced by limitations of existing treatment technology to meet stage 1 concentration limits. The Quakers Hill advanced treatment project (RO) is expected to improve copper concentrations in the future.

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Table 4: 100 percentile yearly summary								
EPA Point 4 Site code QH0004	**Point description: Downstream of the overflow weir in the clean water tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**100 percentile limit**	**100 percentile value**	**within limits**
nitrogen (total)	mg/L	every 6 days	60	2.77	10.8	45	10.8	yes
phosphorus	mg/L	every 6 days	60	0.03	0.67	5	0.67	yes

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Table 5: Average yearly summary								
EPA Point 4 Site code QH0004	**Point description: Downstream of the overflow weir in the clean water tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**Average limit**	**Average value**	**within limits**
aluminium	ug/L	monthly	12	63	283	120	130	no [2]
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
chromium	ug/L	monthly	12	<0.2	1.2	3	0.39	yes
copper	ug/L	monthly	12	2.8	6.9	5	4.8	yes
zinc	ug/L	monthly	12	15	31	34	19	yes

Table 5: Average yearly summary								
EPA Point 5 Site code QH0005	**Point description: At the outlet of the chlorine contact tank**							
pollutant	**unit of measure**	**sampling frequency**	**number of samples**	**minimum result**	**maximum result**	**Average limit**	**Average value**	**within limits**
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes

[2] The average aluminium limit exceedance is largely influenced by changes in treatment processes between AGS and IDAL leading to unoptimised alum dosing. Treatment optimisation is expected to aluminium compliance in the future.