

West Camden Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 1675

Summary period: 01-07-2020 to 30-06-2021

Date published: 13-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 5 Site code WC0005		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
biochemical oxygen demand	mg/L	every 6 days	51	<2	4	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	3.46	0.9	0.85	yes
nitrogen (total)	mg/L	every 6 days	61	5.07	10.9	10	7.53	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.06	0.3	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	3	5	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code WC0005		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	60	200	4	yes

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90 percentile yearly summary								
EPA Point 5 Site code WC0005		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 limits
aluminium	ug/L	monthly	12	45	278	500	198	yes
biochemical oxygen demand	mg/L	every 6 days	51	<2	4	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.11	0.1	<0.04	yes
cobalt	ug/L	monthly	2	0.4	0.5	-	0.5	n/a
copper	ug/L	monthly	12	0.8	1.7	5	1.6	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	15	68	240	37	yes
nickel	ug/L	monthly	2	2.7	2.7	-	2.7	n/a
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	3.46	1.4	2.62	no ¹
nitrogen (total)	mg/L	every 6 days	61	5.07	10.9	15	9.25	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.06	1	0.04	yes
total suspended solids	mg/L	every 6 days	61	<2	3	10	<2	yes
zinc	ug/L	monthly	12	12	27	37	20	yes

¹The Nitrogen (ammonia) 90th%-ile concentration limit exceedance was largely influenced by increasing inflows to West Camden WRRF exceeding the treatment capacity of the biological processes. The facility will undergo an amplification project to increase the treatment capacity and improve effluent quality in 2021-22.

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Average yearly summary								
EPA Point 5 Site code WC0005		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
aluminium	ug/L	monthly	12	45	278	130	95	yes
cobalt	ug/L	monthly	2	0.4	0.5	-	0.5	n/a
copper	ug/L	monthly	12	0.8	1.7	4	1	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	15	68	170	31	yes
nickel	ug/L	monthly	2	2.7	2.7	-	3	n/a
zinc	ug/L	monthly	12	12	27	31	16	yes

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.

Effluent quality monitoring results obtained from EPA Point 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).