

Year Ending 14/8/2022 Meaningful Summary - Statistics from Licenced Discharge Points

Pollutant	Units	Monitoring Frequency	Detection Limit	Statistics for 2021						Limits			Exceedances		
				Count	Min.	Mean	Median	Max.	90 %ile	Min.	Max.	90 %ile	Count	Comments	
Point 1	Discharge from Sludge Drying Beds														
Aluminium	mg/L	Special A	0.02	8	84	471	317	1770	—	—	—	—	—	—	No limits apply
Chlorine (Free Residual)	mg/L	Special A	0.03	8	<0.03	<0.03	<0.03	0.03	—	—	0.1	—	0	No exceedances	
pH	pH	Special A	—	8	7.01	7.31	7.36	7.58	—	6.5	8.5	—	0	No exceedances	
Total Suspended Solids	mg/L	Special A	2	8	3	3	3	11	—	—	10	—	1	Drying bed filter ripening period	
Turbidity	NTU	Special A	0.3	8	1.2	2.9	2.2	8.8	4.7	—	—	5	1*	No exceedance for annual 90th percentile value. *Of the 8 samples collected, 1 sample was above the 90th percentile limit (within the defined licence conditions)	
Point 2	Ambient Monitoring of Queanbeyan River														
Turbidity	NTU	Special C	0.3	8	3.7	4.4	4.3	6	—	—	—	—	—	No limits apply	
Point 3	Discharge from Clear Water Storage														
Chlorine (Free Residual)	mg/L	Special B	0.03	—	—	—	—	—	—	—	0.1	—	—	No discharge occurred	
pH	pH	Special B	—	—	—	—	—	—	—	6.5	8.5	—	—	No discharge occurred	
Total Suspended Solids	mg/L	Special B	2	—	—	—	—	—	—	—	10	—	—	No discharge occurred	
Turbidity	NTU	Special B	0.3	—	—	—	—	—	—	—	5	—	—	No discharge occurred	
Point 4	Ambient Monitoring of Googong Creek														
Turbidity	NTU	Special C	0.3	—	—	—	—	—	—	—	—	—	—	No limits apply	

NOTE: Any results below the detection limit are considered to be equal to the detection limit divided by 2 for the calculation of the above statistics.

NOTE: Exceedances are calculated as inclusive of the limit

Special A: Weekly during (and for two weeks after) the operation of Googong Water Treatment Plant

Special B: Weekly during discharge

Special C: Monthly during discharge

EPA Discharge Volume Limits

Point	Units	Limit	Total	Comments
Point 1	ML/year	1000	21.699	Within specification
Point 3	ML/year	60	0	No discharge occurred through Point 3 during 21-22 reporting period

Additional Comments

In February 2021 Icon Water received a Licence Variation which (a) increased the turbidity and total suspended solid limits at Point 3 (b) altered the sampling frequency at Point 1 and (c) required a submission of a Water Quality Validation report after the first discharge from Point 3.

No discharge from Point 3 has occurred since this time.

Year Ending 14/8/2022 Meaningful Summary - Exceedances from Licensed Discharge Points

Sample Point	Pollutant	Value	Units	Sampled Date	Comments
Point 1	Total Suspended Solids	11	mg/L	4/04/2022	Total suspended solids discharge exceedance reported to NSW EPA. Sub-optimal solids removal (including turbidity of 8.8 NTU) occurred for a temporary period as the drying bed filters were ripening during plant start-up operations.