

Surface Water Results

July 2023



City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2 – Special Frequency 1 (Daily during discharge)

Monthly rainfall = 41.2

No Discharge at SW55, SW56, SW58a or SW59 for the month of July 2023

Purpose of Sampling		SW57	SW57	SW57
CN ID	EPL ID	24/07/2023	25/07/2023	26/07/2023
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	7.24	7.58	7.56
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	276	285	284
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	17	11	23
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	<0.05	<0.05	<0.05
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	<2	<2	<2
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A

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Purpose of Sampling		SW57	SW57	SW57
CN ID	EPL ID	27/07/2023	28/07/2023	29/07/2023
Parameter:		pH (pH unit)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	7.60	7.62	7.52
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	289	294	291
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	19	20	30
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Ammonia (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	<0.05	<0.05	<0.05
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A	N/A	N/A
SW56	56	N/A	N/A	N/A
SW57	57	2	<2	<2
SW58a	61	N/A	N/A	N/A
SW59	66	N/A	N/A	N/A

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Purpose of Sampling		SW57	SW57	SW57
CN ID	EPL ID	30/07/2023		
Parameter:		pH (pH unit)		
SW55	55	N/A		
SW56	56	N/A		
SW57	57	7.56		
SW58a	61	N/A		
SW59	66	N/A		
Parameter:		Electrical Conductivity (µS/cm)		
SW55	55	N/A		
SW56	56	N/A		
SW57	57	294		
SW58a	61	N/A		
SW59	66	N/A		
Parameter:		Suspended Solids (mg/L)		
SW55	55	N/A		
SW56	56	N/A		
SW57	57	23		
SW58a	61	N/A		
SW59	66	N/A		
Parameter:		Ammonia (mg/L)		
SW55	55	N/A		
SW56	56	N/A		
SW57	57	<0.05		
SW58a	61	N/A		
SW59	66	N/A		
Parameter:		Biological Oxygen Demand (mg/L)		
SW55	55	N/A		
SW56	56	N/A		
SW57	57	<2		
SW58a	61	N/A		
SW59	66	N/A		

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Environment Protection Licence 5897 - Condition M2 – Special Frequency (SF)
1 and 2 Sampling

	CN ID		SW55	SW56	SW58a	SW59
	EPL ID		55	56	61	66
DATE			31/07/23	31/07/23	31/07/23	31/07/23
Parameter	Units	LOR				
Alkalinity (as calcium carbonate)	mg/L	1	191	127	112	149
Aluminium	mg/L	0.01	0.09	0.31	0.57	<0.01
Ammonia	mg/L	0.05	1.32	0.14	0.10	0.19
Copper	mg/L	0.001	<0.001	0.003	0.003	<0.001
Biological Oxygen Demand	mg/L	2	6	<2	<2	5
Electrical Conductivity	uS/cm	10	731	1110	423	1270
Iron	mg/L	0.05	0.36	0.23	1.55	<0.05
Lead	mg/L	0.001	<0.001	<0.001	0.001	<0.001
Nitrate as N	mg/L	0.05	0.09	1.68	0.13	0.33
Organochlorine Pesticides	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
Organophosphate Pesticides	mg/L	0.005	<0.005	<0.005	<0.005	<0.005
pH	pH Units	0.01	8.24	8.16	7.46	7.75
Total Suspended Solids	mg/L	5	17	7	7	35
Zinc	mg/L	0.005	<0.005	<0.005	<0.005	<0.005

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Environment Protection Licence 5897 - Condition M2 – SF1, SF2 and SF3
Sampling

	CN ID		SW57
	EPL ID		57
DATE			24/07/23
Parameter	Units	LOR	
Alkalinity (as calcium carbonate)	mg/L	1	70
Aluminium	mg/L	0.01	0.58
Ammonia	mg/L	0.05	<0.05
Arsenic	mg/L	0.001	0.001
Barium	mg/L	0.001	0.029
Benzene	mg/L	0.001	<0.001
BOD	mg/L	2	<2
Cadmium	mg/L	0.0001	<0.0001
Calcium	mg/L	1	9
Chloride	mg/L	1	32
Chromium (Hex)	mg/L	0.01	<0.01
Chromium (Total)	mg/L	0.001	<0.01
Cobalt	mg/L	0.001	<0.001
Copper	mg/L	0.001	<0.001
Electrical Conductivity	uS/cm	10	276
Ethyl benzene	mg/L	0.002	<0.002
Fluoride	mg/L	0.1	0.2
Iron	mg/L	0.05	0.63
Lead	mg/L	0.001	<0.001
Magnesium	mg/L	1	5
Manganese	mg/L	0.001	0.032
Mercury	mg/L	0.0001	<0.0001
Nitrate as N	mg/L	0.01	0.03
Organochlorine Pesticides	mg/L	0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005
pH	pH Units	0.01	7.24
Polycyclic Aromatic Hydrocarbons	mg/L	0.0005	<0.0005
Potassium	mg/L	1	6
Sodium	mg/L	1	39
Sulfate	mg/L	1	12
Total Suspended Solids	mg/L	5	17

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Toluene	mg/L	0.002	<0.002
Total Dissolved Solids	mg/L	10	154
Total Organic Carbon	mg/L	1	11
Total Petroleum Hydrocarbons	mg/L	0.05	<0.05
Total Phenolics	mg/L	0.05	<0.05
Zinc	mg/L	0.005	<0.005

Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Final data obtained: 7/08/2023

Date published: 15/08/2023

Notes:

CN = City of Newcastle

EPL = Environment Protection Licence

NR = no result (non-compliant sample, water body dry etc)

NA = Not applicable, sample not required

1. Water body not discharging from site
2. SW58a located in Wentworth Creek and impacted by other catchment activities.

A copy of the Environmental Protection Licence can be viewed at:

<http://app.epa.nsw.gov.au/prpoeoapp/>

A map showing the location of monitoring points can be viewed at:

<https://www.newcastle.nsw.gov.au/Living/Waste-and-recycling/Summerhill-Waste-management-Centre/Environmental-Monitoring>