Surface Water Results
February 2025

City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection License 5897 - Condition M2 – Special Frequency 1 (Daily during discharge)
Monthly rainfall = 51.4mm

Purpose of Sampling		SW57	SW57	SW57
CN ID	**EPL ID**	1/02/2025	2/02/2025	3/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7.01	7.04	7.50
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**	226	232	246
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**	<5	7	6
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	3
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results
February 2025

Purpose of Sampling				SW57
CN ID		4/02/2025	5/02/2025	6/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	6.94
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**	N/A	N/A	252
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**	N/A	N/A	<5
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**	N/A	N/A	0.06
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**	N/A	N/A	3
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results
February 2025

Purpose of Sampling		SW57	SW57	
CN ID		7/02/2025	8/02/2025	9/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	6.92	7.17	N/A
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**	272	278	N/A
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**	<5	<5	N/A
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	0.06	N/A
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	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results
February 2025

Purpose of Sampling			SW58a & SW59	SW57, SW58a & SW59
CN ID		10/02/2025	11/02/2025	12/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	7.03
SW58a	**61**	N/A	7.20	7.17
SW59	**66**	N/A	7.20	7.17
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	278
SW58a	**61**	N/A	630	491
SW59	**66**	N/A	619	720
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	<5
SW58a	**61**	N/A	19	<0.05
SW59	**66**	N/A	34	0.08
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	<0.05
SW58a	**61**	N/A	0.08	<0.05
SW59	**66**	N/A	0.08	0.08
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	2
SW58a	**61**	N/A	2	<2
SW59	**66**	N/A	3	3

Surface Water Results
February 2025

Purpose of Sampling		SW57, SW58 & SW59	SW58 & SW59	SW59
CN ID		13/02/2025	14/02/2025	15/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	7.21	N/A	N/A
SW58a	**61**	7.17	7.18	N/A
SW59	**66**	7.27	7.30	8.33
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	277	N/A	N/A
SW58a	**61**	602	654	N/A
SW59	**66**	725	730	7.26
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	<5	N/A	N/A
SW58a	**61**	27	12	N/A
SW59	**66**	48	25	32
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	<0.05	N/A	N/A
SW58a	**61**	<0.05	0.09	N/A
SW59	**66**	<0.05	<0.05	<0.05
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	N/A	N/A
SW58a	**61**	<2	2	N/A
SW59	**66**	<2	<2	3

Surface Water Results
February 2025

Purpose of Sampling		SW59	SW59	SW59
CN ID	**EPL ID**	16/02/2025	17/02/2025	18/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	8.04	7.36	7.58
Parameter:			**Electrical Conductivity (µS/cm)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	735	735	770
Parameter:			**Suspended Solids (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	28	38	73
Parameter:			**Ammonia (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	<0.05	1.51	<0.05
Parameter:			**Biological Oxygen Demand (mg/L)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	2	2	3

Surface Water Results
February 2025

Purpose of Sampling				
CN ID	**EPL ID**	19/02/2025	20/02/2025	21/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results
February 2025

Purpose of Sampling				
CN ID	**EPL ID**	22/02/2025	23/02/2025	24/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	N/A
SW56	**56**	N/A	N/A	N/A
SW57	**57**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
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**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

Surface Water Results
February 2025

Purpose of Sampling				*SW55 & SW56
CN ID	**EPL ID**	25/02/2025	26/02/2025	27/02/2025
Parameter:			**pH (pH unit)**	
SW55	**55**	N/A	N/A	7.57
SW56	**56**	N/A	N/A	7.43
SW57	**57**	N/A	N/A	N/A
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	780
SW56	**56**	N/A	N/A	628
SW57	**57**	N/A	N/A	N/A
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	29
SW56	**56**	N/A	N/A	50
SW57	**57**	N/A	N/A	N/A
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	0.15
SW56	**56**	N/A	N/A	<0.05
SW57	**57**	N/A	N/A	N/A
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	6
SW56	**56**	N/A	N/A	7
SW57	**57**	N/A	N/A	N/A
SW58a	**61**	N/A	N/A	N/A
SW59	**66**	N/A	N/A	N/A

*Monthly sampling- Not Discharging

Surface Water Results
February 2025

Purpose of Sampling		SW56		
CN ID	**EPL ID**	28/02/2025		
Parameter:		**pH (pH unit)**		
SW55	**55**	N/A		
SW56	**56**	6.76		
SW57	**57**	N/A		
SW58a	**61**	N/A		
SW59	**66**	N/A		
Parameter:		**Electrical Conductivity (µS/cm)**		
SW55	**55**	N/A		
SW56	**56**	636		
SW57	**57**	N/A		
SW58a	**61**	N/A		
SW59	**66**	N/A		
Parameter:		**Suspended Solids (mg/L)**		
SW55	**55**	N/A		
SW56	**56**	48		
SW57	**57**	N/A		
SW58a	**61**	N/A		
SW59	**66**	N/A		
Parameter:		**Ammonia (mg/L)**		
SW55	**55**	N/A		
SW56	**56**	<0.05		
SW57	**57**	N/A		
SW58a	**61**	N/A		
SW59	**66**	N/A		
Parameter:		**Biological Oxygen Demand (mg/L)**		
SW55	**55**	N/A		
SW56	**56**	6		
SW57	**57**	N/A		
SW58a	**61**	N/A		
SW59	**66**	N/A		

Surface Water Results
February 2025

Environment Protection Licence 5897 - Condition M2 – SF1 and SF2 Sampling (Monthly - not discharging)

	CN ID		SW55
	EPL ID		55
DATE			**27/02/25**
Parameter	**Units**	**LOR**	
Alkalinity (as calcium carbonate)	mg/L	1	190
Aluminium	mg/L	0.01	0.46
Ammonia	mg/L	0.05	0.15
Copper	mg/L	0.001	0.016
Biological Oxygen Demand	mg/L	2	6
Electrical Conductivity	uS/cm	10	780
Iron	mg/L	0.05	0.91
Lead	mg/L	0.001	0.002
Nitrate as N	mg/L	0.05	<0.05
Organochlorine Pesticides	mg/L	0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005
pH	pH Units	0.01	7.57
Total Suspended Solids	mg/L	5	29
Zinc	mg/L	0.005	0.006

Surface Water Results
February 2025

Environment Protection Licence 5897 - Condition M2 – SF1, SF2 and SF3 Sampling (First Day Discharge)

	CN ID		SW56	SW57	SW57	SW58a	SW59
	EPL ID		56	57	57	58	59
DATE			27/02/25	6/02/25	12/02/25	11/02/25	11/02/25
Parameter	Units	LOR					
Alkalinity (as calcium carbonate)	mg/L	1	111	54	65	123	113
Aluminium	mg/L	0.01	2.14	0.08	0.06	1.67	4.16
Ammonia	mg/L	0.05	<0.05	0.06	<0.05	0.08	0.08
Arsenic	mg/L	0.001	0.007	<0.001	0.001	0.004	0.006
Barium	mg/L	0.001	0.070	0.026	0.035	0.058	0.069
Benzene	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
BOD	mg/L	2	7	3	2	2	3
Cadmium	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Calcium	mg/L	1	28	9	10	15	6
Chloride	mg/L	1	107	36	38	1.4	81
Chromium (Hex)	mg/L	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (Total)	mg/L	0.001	<0.01	<0.001	<0.001	0.001	0.003
Cobalt	mg/L	0.001	0.003	<0.001	<0.001	0.003	0.005
Copper	mg/L	0.001	0.004	<0.001	<0.001	0.002	0.007
Electrical Conductivity	uS/cm	11	628	252	278	630	710
Ethyl benzene	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Fluoride	mg/L	0.1	0.4	0.2	0.2	0.5	0.7
Iron	mg/L	0.05	3.60	0.43	0.64	3.42	6.08
Lead	mg/L	0.001	0.005	<0.001	<0.001	0.002	0.008
Magnesium	mg/L	1	13	5	5	11	10
Manganese	mg/L	0.001	0.763	0.093	0.260	0.005	0.009
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Nitrate as N	mg/L	0.01	2.40	<0.01	<0.01	0.06	0.01
Organochlorine Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Organophosphate Pesticides	mg/L	0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
pH	pH Units	0.01	7.43	6.94	7.03	7.20	7.20
Polycyclic Aromatic Hydrocarbons	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Potassium	mg/L	1	13	2	2	7	5
Sodium	mg/L	1	71	34	38	94	120
Sulfate	mg/L	1	47	14	14	56	115
Total Suspended Solids	mg/L	5	50	<5	<5	19	34
Toluene	mg/L	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Total Dissolved Solids	mg/L	11	443	176	190	402	619
Total Organic Carbon	mg/L	1	14	14	12	19	19
Total Petroleum Hydrocarbons	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Total Phenolics	mg/L	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Zinc	mg/L	0.005	0.019	<0.005	<0.005	0.011	0.026

Surface Water Results
February 2025

Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

- Final data obtained: 7/03/25
- Date published: 15/03/25

- Notes:
- CN = City of Newcastle
- EPL = Environment Protection Licence
- NR = no result (non-compliant sample, water body dry etc)
- N/A = Not applicable, sample not required
- 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