

Quarterly Groundwater Results

November 2022



City of Newcastle - Summerhill Waste Management Centre

141 Minmi Road, Wallsend, NSW

Environment Protection Licence 5897 - Condition M2 - Water Monitoring Grab Samples

Parameter	CN ID		GW33	GW34	GW35	GW42	GW46	GW48	GW49	GW51
	EPL ID		33	34	35	42	46	48	49	51
	Units	LOR								
Ammonia	mg/L	0.01	0.81	0.55			<0.01	0.02		0.22
Calcium	mg/L	1	393	183			59	59		10
Chloride	mg/L	1	1840	3400			3070	109		232
Electrical Conductivity	µS/cm	1	10500	11000			9990	1390		1880
Iron	mg/L	0.05	43.8	0.80			<0.05	<0.05		0.66
Lead	mg/L	0.001	<0.001	<0.001			<0.001	<0.001		<0.001
Magnesium	mg/L	1	541	238			152	45		24
Nitrate as N	mg/L	0.01	0.04	0.06			0.47	0.10		<0.01
pH Value	pH Unit	0.01	5.74	6.76			7.01	6.70		6.31
Potassium	mg/L	1	38	22			32	6		8
Sodium	mg/L	1	1300	1750			1770	188		342
Sulfate	mg/L	1	3480	636			583	148		366
Total Alkalinity as CaCO ₃	mg/L	1	73	485			379	470		282
Total Dissolved Solids	mg/L	10	7880	6590			5970	1020		1900
Total Organic Carbon	mg/L	1	<1	14			6	8		12
Standing Water Level	mAHD	0.01	24.34	26.73			22.69	36.06		35.60

Notes:

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

mAHD = metres above Australian Height Datum

Results preceded by < indicate that the results were below the limit of detection for that analysis

NR = no result (non-compliant sample, insufficient water to sample etc)

EPL Monitoring point 35 was not sampled as well had insufficient water to sample.

EPL Monitoring points 42 and 49 were not sampled as wells are damaged

Date sampled: 22 & 24 November 2022

Final data obtained: 2 December 2022

Date published: 21 December 2022

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