

Quarterly Groundwater Results September 2021

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
	Units	LOR	33	34	35	42	46	48	49	51
Ammonia	mg/L	0.01	0.81	0.60	--	0.07	<0.01	0.08	0.05	0.10
Calcium	mg/L	1	366	168	--	68	67	58	9	14
Chloride	mg/L	1	1730	3190	--	118	2840	92	545	214
Electrical Conductivity	µS/cm	1	10000	10200	--	2640	10300	1320	3410	1940
Iron	mg/L	0.05	39.5	2.80	--	<0.05	<0.05	0.09	<0.05	<0.05
Lead	mg/L	0.001	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	510	204	--	74	163	42	52	30
Nitrate as N	mg/L	0.01	0.02	0.06	--	0.06	0.64	0.02	0.02	0.19
pH Value	pH Unit	0.01	5.74	6.76	--	6.97	6.65	6.66	6.19	6.17
Potassium	mg/L	1	34	22	--	17	35	9	18	12
Sodium	mg/L	1	1210	1700	--	474	1930	188	651	382
Sulfate	mg/L	1	3590	639	--	735	590	151	604	343
Total Alkalinity as CaCO ₃	mg/L	1	42	430	--	482	436	420	243	332
Total Dissolved Solids	mg/L	10	8540	6770	--	1930	6000	1060	2600	1440
Total Organic Carbon	mg/L	1	4	4	--	7	5	6	9	27
Standing Water Level	mAHD	0.01	24.34	27.77	6.36	35.57	21.92	36.23	37.188	35.711

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 points 31 & 32 were not sampled for safety reasons

EPL Monitoring point 35 was not sampled due to insufficient water within the well

Date sampled: 7 and 13 September 2021

Final data obtained: 21 September 2021

Date published: 18 October 2021

A copy of the Environmental Protection Licence can be viewed at: <http://app.epa.nsw.gov.au/prpoeoapp/>

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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>