

Quarterly Groundwater Results

March 2020

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	1.15	1.88	2.24	0.29	0.44	2.64	0.09	0.22
Calcium	mg/L	1	380	122	237	62	59	43	10	10
Chloride	mg/L	1	1980	3180	4080	223	2970	159	667	225
Electrical Conductivity	µS/cm	1	10400	10200	13700	2900	10200	1500	3720	1970
Iron	mg/L	0.05	59	4.95	<0.05	4.5	0.73	0.79	0.23	1.7
Lead	mg/L	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/L	1	549	155	184	70	167	35	57	28
Nitrate as N	mg/L	0.01	0.06	<0.01	21.3	<0.01	0.09	0.08	<0.01	<0.01
pH Value	pH Unit	0.01	5.48	5.79	7.44	6.26	6.22	6.77	5.76	5.90
Potassium	mg/L	1	35	20	14	16	33	7	16	8
Sodium	mg/L	1	1360	1920	2340	504	1900	253	697	366
Sulfate	mg/L	1	3600	356	347	692	577	167	676	398
Total Alkalinity as CaCO ₃	mg/L	1	136	538	676	522	356	496	199	284
Total Dissolved Solids	mg/L	10	8480	5140	NR	1450	5720	2270	2080	1230
Total Organic Carbon	mg/L	1	5	<1	<1	8	<1	9	2	<1
Standing Water Level	mAHD	0.01	24.28	26.84	5.90	35.74	21.28	35.40	36.17	35.22

Notes:

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

mAHD = metres above Australian Height Datum

Date sampled: 17 – 19 March 2020

Final data obtained: 25 March 2020

Date published: 3 April 2020

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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

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/Groundwater-Monitoring>