

# Quarterly Groundwater Results

## December 2019

### 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	0.71	1.81	0.12	0.28	0.06	0.09	0.09	0.11
Calcium	mg/L	1	384	132	291	84	74	56	13	11
Chloride	mg/L	1	1590	3360	4180	242	3250	166	752	244
Electrical Conductivity	µS/cm	1	9660	10300	12700	2940	10300	1590	3800	1930
Iron	mg/L	0.05	59.2	3.33	0.93	3.56	0.45	2.2	0.6	2.13
Lead	mg/L	0.001	0.022	0.001	0.006	<0.001	0.002	0.012	0.002	0.003
Magnesium	mg/L	1	550	148	220	82	183	45	69	27
Nitrate as N	mg/L	0.01	0.2	0.02	19	0.02	0.35	0.02	0.02	<0.01
pH Value	pH Unit	0.01	5.44	6.44	7	6.74	6.1	5.94	5.86	6.17
Potassium	mg/L	1	36	19	18	17	37	9	18	9
Sodium	mg/L	1	1290	1840	2690	507	2070	340	785	363
Sulfate	mg/L	1	3640	330	336	736	568	149	638	357
Total Alkalinity as CaCO <sub>3</sub>	mg/L	1	113	546	644	550	411	505	193	304
Total Dissolved Solids	mg/L	10	7150	5180	7880	2000	6370	931	2020	1180
Total Organic Carbon	mg/L	1	5	9	6	11	8	9	10	6
Standing Water Level	mAHD	0.01	24.28	26.63	6.58	35.60	22.29	36.00	36.94	35.53

**Notes:**

CN = City of Newcastle

EPL = Environment Protection Licence

LOR = limit of reporting

mAHD = metres above Australian Height Datum

Date sampled: 3/12/19 and 4/12/19

Final data obtained: 04/02/20

Date published: 04.02.20

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