

Subsurface Gas Results

August 2023

Environment Protection Licence 5897 - Condition M2 - Air Quality - Quarterly Subsurface Gas
City of Newcastle - Summerhill Waste Management Centre
141 Minmi Road, Wallsend, NSW

Parameter		Methane CH ₄	Carbon Dioxide CO ₂	Carbon Monoxide CO	Nitrogen N	Pressure	Oxygen O ₂	Hydrogen Sulfide H ₂ S	Flow Rate
Units:		%	%	%	%	KPa	%	%	L/hr
LOR:		0.1	0.1	0.0001			0.1	0.0001	
CN ID	EPL ID								
SSG15A	67	37.1	31.0	<0.0001	31.2	0.028	0.3	0.0001	0.2
SSG22	87	<0.1	5.9	<0.0001	81.7	0.009	12.0	<0.0001	0
SSG24	88	<0.1	7.9	<0.0001	80.0	-0.016	11.7	<0.0001	0
SSG25	89	<0.1	14.6	<0.0001	80.7	-0.012	4.3	<0.0001	0
SSG26	90	<0.1	1.6	<0.0001	79.0	-0.495	19.4	<0.0001	0
SSG27	91	0.3	1.8	<0.0001	79.2	-0.009	18.3	<0.0001	0
SSG28	92	0.2	0.6	<0.0001	79.2	-3.26	19.6	0.0001	0
SSG29	93	26.4	14.0	<0.0001	54.3	-0.03	4.9	0.0020	0.1
SSG30	94	<0.1	4.2	0.0001	82.4	0.003	13.4	<0.0001	0
SSG31	95	<0.1	5.7	<0.0001	83.8	0.003	10.5	<0.0001	0
SSG32	96	0.1	4.1	<0.0001	85.4	-0.019	10.0	<0.0001	0
SSG33	97	<0.1	0.1	<0.0001	78.4	0.017	21.5	<0.0001	0
SSG34	98	<0.1	12.8	<0.0001	77.8	-0.031	9.4	<0.0001	0
SSG35	99	<0.1	4.1	<0.0001	79.4	0.012	16.5	<0.0001	0
SSG29B	101	24.6	26.2	0.0007	47.4	0.007	1.8	<0.0001	0.1
SSG29C	102	<0.1	7.4	0.0004	82.0	-4.47	10.6	<0.0001	0
SSG29D	103	3.6	3.6	0.0001	76.0	-1.00	16.8	<0.0001	0
SSG26A	104	<0.1	0.1	0.0001	79.7	-0.005	20.2	<0.0001	0

Threshold	1.0% above background ¹ 1.25% ²	1.5 % above background ¹		-	-	-	--	-
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- Please note the nitrogen concentration is automatically calculated by the instrument.

Sampling date 11/08/23. Final data obtained 11/08/23. Published date: 22/09/23.

LOR = Limit of reporting of the instrument

CN = City of Newcastle

EPL = Environment Protection Licence

1. NSW EPA Environmental Guidelines for Solid Waste Landfills, 2016.

2. EPL 5897, version date 20 March 2023

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

A map showing the location of gas wells can be viewed at: <http://www.newcastle.nsw.gov.au/Living/Waste-recycling/Summerhill-Waste-management-Centre/Environmental-Monitoring-Data>