

Subsurface Gas Results

February 2025

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	33.8	30.4	0.0002	35.7	0.021	0.1	<0.0001	0.1
SSG22	87	<0.1	5.1	0.0002	78.4	-0.005	16.5	<0.0001	<0.1
SSG24	88	<0.1	9.4	<0.0001	79.8	0.004	10.8	<0.0001	<0.1
SSG25	89	<0.1	14.7	0.0002	79.1	-0.009	6.2	<0.0001	<0.1
SSG26	90	<0.1	2.6	<0.0001	80.7	-0.002	16.7	<0.0001	-0.1
SSG27	91	<0.1	3.8	<0.0001	81	-0.007	15.2	<0.0001	-0.1
SSG28	92	<0.1	0.5	<0.0001	79.7	-0.014	19.8	0.0002	-0.1
SSG29	93	16.8	12.1	<0.0001	65.3	0.021	5.8	0.005	0.1
SSG30	94	<0.1	8.4	<0.0001	87.7	0.004	3.9	<0.0001	<0.1
SSG31	95	<0.1	1.2	<0.0001	83.4	-0.004	20.1	<0.0001	<0.1
SSG32	96	<0.1	1.2	0.0002	78.8	0.009	20	0.0002	<0.1
SSG33	97	<0.1	0.1	<0.0001	78.7	0.002	21.2	<0.0001	<0.1
SSG34	98	<0.1	7.4	<0.0001	80.6	-0.004	12	<0.0001	<0.1
SSG35	99	<0.1	3.9	<0.0001	79.7	0.009	16.4	<0.0001	<0.1
SSG29B	101	16.9	18.9	0.0003	57	0.009	7.2	<0.0001	0.1
SSG29C	102	<0.1	2.3	0.0002	80.7	0.023	17	<0.0001	<0.1
SSG29D	103	10.9	12.7	<0.0001	69	0.023	7.4	<0.0001	<0.1
SSG26A	104	<0.1	8.3	<0.0001	81	-0.012	10.7	<0.0001	-0.1
Threshold		1.0% above background ¹ 1.0% ²	1.5 % above background ¹	-	-	-	-	--	-

Please note the nitrogen concentration is automatically calculated by the instrument.

Sampling date 20 and 21 February 2025, Published date: 17 March 2024.

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 4 July 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>