

Subsurface Gas Results

February 2024

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	30.2	28.2	<0.0001	41.6	0.016	<0.1	<0.0001	0.1
SSG22	87	<0.1	10.4	<0.0001	83.5	0.005	6.1	0.0001	0.1
SSG24	88	<0.1	9.5	<0.0001	80.5	0.03	10	<0.0001	0.1
SSG25	89	<0.1	13.7	<0.0001	80.2	-0.012	6.1	<0.0001	<0.1
SSG26	90	<0.1	0.3	<0.0001	80.6	0.012	19.1	<0.0001	<0.1
SSG27	91	0.1	2.4	<0.0001	80.1	0.009	17.4	0.0001	0.1
SSG28	92	<0.1	0.3	<0.0001	81.5	-0.014	18.2	0.0001	-0.1
SSG29	93	26.5	21.2	0.0001	52.3	0.009	<0.1	0.0075	<0.1
SSG30	94	<0.1	9.8	0.0001	86.6	-0.009	3.6	<0.0001	<0.1
SSG31	95	<0.1	1.5	<0.0001	80.7	0.009	17.8	<0.0001	<0.1
SSG32	96	0.1	0.6	<0.0001	79.7	0.003	19.6	<0.0001	<0.1
SSG33	97	0.2	0.1	<0.0001	79.7	0.002	20	0.0001	<0.1
SSG34	98	0.2	6.1	<0.0001	80.6	0.002	13.1	0.0001	0.1
SSG35	99	<0.1	4.1	<0.0001	78.9	0.007	17	<0.0001	<0.1
SSG29B	101	20.4	20.8	0.0005	55	0.003	3.8	<0.0001	0.1
SSG29C	102	<0.1	6.2	0.0002	82.2	-0.112	11.6	<0.0001	-0.4
SSG29D	103	5.4	4.8	<0.0001	74.7	0	15.1	<0.0001	-0.1
SSG26A	104	<0.1	2.6	<0.0001	80	-0.01	17.4	0.0001	<0.1

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

Sampling date 16, 17 and 21 November 2023. Final data obtained 22/02/24. Published date: 20/03/24.

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>