

Lucas Heights 2
Licence Number: 6345
Licence Holder: EDL LFG (NSW) PTY LTD
Licencee Address: Lucas Heights 2
Testing Year 2024
Testing Required Points 12, 13, 14, 15 and 21
Testing Frequency Engines (1-20) and the Flare are required to be tested once every 5 years. The Gas Supply Line is required to be tested whenever engines are also tested.



Location of Monitoring Point	Sampled	Obtained	Published	Pollutant	Units of Measure	No. Samples Required by Licence	No. Samples collected and Analysed	Value	Licence Limit	Exceedance (Yes/No)
Discharge and Monitoring Point 12, Discharge to air, Gas engine exhaust stack labelled 'G112' on drawing number 840-BA-048, Rev A	5/03/24	19/04/24	19/04/24	Carbon dioxide	%	1	1	10.63		
	5/03/24	19/04/24	19/04/24	Carbon monoxide	mg/m ³	1	1	763		
	5/03/24	19/04/24	19/04/24	Dry gas density	Kg/m ³	1	1	1.35		
	5/03/24	19/04/24	19/04/24	Moisture content	%	1	1	12.3		
	5/03/24	19/04/24	19/04/24	Molecular weight of stack gases	g/g mol	1	1	30.04		
	5/03/24	19/04/24	19/04/24	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	431	450	No
	5/03/24	19/04/24	19/04/24	Oxygen	%	1	1	8.56		
	5/03/24	19/04/24	19/04/24	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	0.42	100	No
	5/03/24	19/04/24	19/04/24	Sulphur dioxide	mg/m ³	1	1	30.8		
	5/03/24	19/04/24	19/04/24	Temperature	°C	1	1	468		
Discharge and Monitoring Point 13, Discharge to air, Gas engine exhaust stack labelled 'G113' on drawing number 840-BA-048, Rev A	5/03/24	19/04/24	19/04/24	Velocity	m/s	1	1	19		
	5/03/24	19/04/24	19/04/24	Volumetric flowrate	m ³ /s	1	1	177		
	5/03/24	19/04/24	19/04/24	Carbon dioxide	%	1	1	11.21		
	5/03/24	19/04/24	19/04/24	Carbon monoxide	mg/m ³	1	1	1090		
	5/03/24	19/04/24	19/04/24	Dry gas density	Kg/m ³	1	1	1.35		
	5/03/24	19/04/24	19/04/24	Moisture content	%	1	1	7		
	5/03/24	19/04/24	19/04/24	Molecular weight of stack gases	g/g mol	1	1	30.11		
	5/03/24	19/04/24	19/04/24	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	424	450	No
	5/03/24	19/04/24	19/04/24	Oxygen	%	1	1	7.86		
	5/03/24	19/04/24	19/04/24	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	2.4	100	No
Discharge and Monitoring Point 14, Discharge to air, Gas engine exhaust stack labelled 'G114' on drawing number 840-BA-048, Rev A	5/03/24	19/04/24	19/04/24	Sulphur dioxide	mg/m ³	1	1	3		
	5/03/24	19/04/24	19/04/24	Temperature	°C	1	1	440		
	5/03/24	19/04/24	19/04/24	Velocity	m/s	1	1	33.1		
	5/03/24	19/04/24	19/04/24	Volumetric flowrate	m ³ /s	1	1	250		
	5/03/24	19/04/24	19/04/24	Carbon dioxide	%	1	1	11.03		
	5/03/24	19/04/24	19/04/24	Carbon monoxide	mg/m ³	1	1	1170		
	5/03/24	19/04/24	19/04/24	Dry gas density	Kg/m ³	1	1	1.35		
	5/03/24	19/04/24	19/04/24	Moisture content	%	1	1	8.3		
	5/03/24	19/04/24	19/04/24	Molecular weight of stack gases	g/g mol	1	1	30.09		
	5/03/24	19/04/24	19/04/24	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	418	450	No
Discharge and Monitoring Point 15, Discharge to air, Gas engine exhaust stack labelled 'G115' on drawing number 840-BA-048, Rev A	5/03/24	19/04/24	19/04/24	Oxygen	%	1	1	8.07		
	5/03/24	19/04/24	19/04/24	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	4.9	100	No
	5/03/24	19/04/24	19/04/24	Sulphur dioxide	mg/m ³	1	1	40		
	5/03/24	19/04/24	19/04/24	Temperature	°C	1	1	455		
	5/03/24	19/04/24	19/04/24	Velocity	m/s	1	1	30.8		
	5/03/24	19/04/24	19/04/24	Volumetric flowrate	m ³ /s	1	1	99.16		
	5/03/24	19/04/24	19/04/24	Carbon dioxide	%	1	1	11.05		
	5/03/24	19/04/24	19/04/24	Carbon monoxide	mg/m ³	1	1	1140		
	5/03/24	19/04/24	19/04/24	Dry gas density	Kg/m ³	1	1	1.35		
	5/03/24	19/04/24	19/04/24	Moisture content	%	1	1	8.8		
Discharge and Monitoring Point 21, Gas Supply Monitoring, LFG Supply Line to gas engines labelled 'LFG SUPPLY LINE' on drawing 840-BA-048, Rev A	5/03/24	19/04/24	19/04/24	Molecular weight of stack gases	g/g mol	1	1	28.69		
	5/03/24	19/04/24	19/04/24	Oxygen	%	1	1	<0.5		
	5/03/24	19/04/24	19/04/24	Temperature	°C	1	1	63.5		
	5/03/24	19/04/24	19/04/24	Velocity	m/s	1	1	37.3		
	5/03/24	19/04/24	19/04/24	Volatile organic compounds	mg/m ³	1	1	753.51		
	5/03/24	19/04/24	19/04/24	Volumetric flowrate	m ³ /s	1	1	2.6		
	5/03/24	19/04/24	19/04/24	Nitrogen Oxides (as NO2) (Corrected @7%)	mg/m ³	1	1	415	450	No
	5/03/24	19/04/24	19/04/24	Oxygen	%	1	1	7.95		
	5/03/24	19/04/24	19/04/24	Sulfuric acid mist and sulphur trioxide (as SO3) (Corrected @7%)	mg/m ³	1	1	0.82	100	No
	5/03/24	19/04/24	19/04/24	Sulphur dioxide	mg/m ³	1	1	<2.9		