Lucas Heights 2
Licence Number: 6345
Licence Holder: EDL LFG (NSW) PTY LTD
Licensee Address: Lucas Heights 2
Testing Year 2020
Testing Required Engines 1, 4, 9, 10 and LFG Supply Line
Tesing 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	Excedance (Yes/No)
Discharge and Monitoring Point 1, Discharge to air, Gas engine exhaust stack labelled 'G101' on drawing number 840-BA-048, Rev A	30/04/20	7/05/20	7/05/20	Temperature	°C	1	1	499		
	30/04/20	7/05/20	7/05/20	Velocity	m/s	1	1	45		
	30/04/20	7/05/20	7/05/20	Volumetric flowrate	m^3/s	1	1	1.2		
	30/04/20	7/05/20	7/05/20	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	0.87	100	No
	30/04/20	7/05/20	7/05/20	Sulphur dioxide	mg/m^3	1	1	<5		
	30/04/20	7/05/20	7/05/20	Nitrogen oxides	mg/m^3	1	1	300	450	No
	30/04/20	7/05/20	7/05/20	Moisture content	%	1	1	9.3		
	30/04/20	7/05/20	7/05/20	Molecular weight of stack gases	g/g mole	1	1	30.3		
	30/04/20	7/05/20	7/05/20	Dry gas density	kg/m^3	1	1	1.35		
	30/04/20	7/05/20	7/05/20	Carbon dioxide	%	1	1	11.4		
	30/04/20	7/05/20	7/05/20	Oxygen	%	1	1	7.8		
	30/04/20	7/05/20	7/05/20	Carbon monoxide	mg/m^3	1	1	880		
Discharge and Monitoring Point 4, Discharge to air, Gas engine exhaust stack labelled 'G104' on drawing number 840-BA-048, Rev A	30/04/20	7/05/20	7/05/20	Temperature	°C	1	1	517		
	30/04/20	7/05/20	7/05/20	Velocity	m/s	1	1	45		
	30/04/20	7/05/20	7/05/20	Volumetric flowrate	m^3/s	1	1	1.2		
	30/04/20	7/05/20	7/05/20	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	1	100	No
	30/04/20	7/05/20	7/05/20	Sulphur dioxide	mg/m^3	1	1	<5		
	30/04/20	7/05/20	7/05/20	Nitrogen oxides	mg/m^3	1	1	360	450	No
	30/04/20	7/05/20	7/05/20	Moisture content	%	1	1	8.9		
	30/04/20	7/05/20	7/05/20	Molecular weight of stack gases	g/g mole	1	1	30.3		
	30/04/20	7/05/20	7/05/20	Dry gas density	kg/m^3	1	1	1.35		
	30/04/20	7/05/20	7/05/20	Carbon dioxide	%	1	1	11.4		
	30/04/20	7/05/20	7/05/20	Oxygen	%	1	1	7.8		
	30/04/20	7/05/20	7/05/20	Carbon monoxide	mg/m^3	1	1	1100		
Discharge and Monitoring Point 9, Discharge to air, Gas engine exhaust stack labelled 'G109' on drawing number 840-BA-048, Rev A	30/04/20	7/05/20	7/05/20	Temperature	°C	1	1	483		
	30/04/20	7/05/20	7/05/20	Velocity	m/s	1	1	37		
	30/04/20	7/05/20	7/05/20	Volumetric flowrate	m^3/s	1	1	1		
	30/04/20	7/05/20	7/05/20	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	2.4	100	No
	30/04/20	7/05/20	7/05/20	Sulphur dioxide	mg/m^3	1	1	<5		
	30/04/20	7/05/20	7/05/20	Nitrogen oxides	mg/m^3	1	1	360	450	No
	30/04/20	7/05/20	7/05/20	Moisture content	%	1	1	9.1		
	30/04/20	7/05/20	7/05/20	Molecular weight of stack gases	g/g mole	1	1	30.3		
	30/04/20	7/05/20	7/05/20	Dry gas density	kg/m^3	1	1	1.35		
	30/04/20	7/05/20	7/05/20	Carbon dioxide	%	1	1	11.4		
	30/04/20	7/05/20	7/05/20	Oxygen	%	1	1	7.9		
	30/04/20	7/05/20	7/05/20	Carbon monoxide	mg/m^3	1	1	1100		
Discharge and Monitoring Point 10, Discharge to air, Gas engine exhaust stack labelled 'G110' on drawing number 840-BA-048, Rev A	30/04/20	7/05/20	7/05/20	Temperature	°C	1	1	490		
	30/04/20	7/05/20	7/05/20	Velocity	m/s	1	1	34		
	30/04/20	7/05/20	7/05/20	Volumetric flowrate	m^3/s	1	1	0.93		
	30/04/20	7/05/20	7/05/20	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	1.9	100	No
	30/04/20	7/05/20	7/05/20	Sulphur dioxide	mg/m^3	1	1	<5		
	30/04/20	7/05/20	7/05/20	Nitrogen oxides	mg/m^3	1	1	360	450	No
	30/04/20	7/05/20	7/05/20	Moisture content	%	1	1	11		
	30/04/20	7/05/20	7/05/20	Molecular weight of stack gases	g/g mole	1	1	30.3		
	30/04/20	7/05/20	7/05/20	Dry gas density	kg/m^3	1	1	1.35		
	30/04/20	7/05/20	7/05/20	Carbon dioxide	%	1	1	12		
	30/04/20	7/05/20	7/05/20	Oxygen	%	1	1	7.1		
	30/04/20	7/05/20	7/05/20	Carbon monoxide	mg/m^3	1	1	1400		
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	30/04/20	7/05/20	7/05/20	Volatile organic compounds	mg/m^3	1	1	450		
	30/04/20	7/05/20	7/05/20	Oxygen	%	1	1	1.3		
	30/04/20	7/05/20	7/05/20	Molecular weight of the gases in supply line	g/g mole	1	1	34.5		
	30/04/20	7/05/20	7/05/20	Carbon dioxide	%	1	1	39.5		
	30/04/20	7/05/20	7/05/20	Dry gas density	kg/m^3	1	1	1540000		
	30/04/20	7/05/20	7/05/20	Moisture content	%	1	1	1.6		
	30/04/20	7/05/20	7/05/20	Temperature	°C	1	1	51		
	30/04/20	7/05/20	7/05/20	Velocity	m/s	1	1	130		
	30/04/20	7/05/20	7/05/20	Volumetric flowrate	m^3/s	1	1	0.0097		

Change Log

Date	Change
23/07/2020	Included frequency of sampling into the data sheet