Lucas Heights 2
Licence Number: 6345
Licence Holder: EDL LFG (NSW) PTY LTD
Licensee Address: Lucas Heights 2
Testing year 2019
Testing Required Engines 12, 13, 14, 15 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 12, Discharge to air, Gas engine exhaust stack labelled 'G112' on drawing number 840-BA-048, Rev A	15/03/19	20/05/19	29/05/19	Temperature	°C	1	1	507		
	15/03/19	20/05/19	29/05/19	Velocity	m/s	1	1	18		
	15/03/19	20/05/19	29/05/19	Volumetric flowrate	m^3/s	1	1	0.9		
	15/03/19	20/05/19	29/05/19	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	2.9	100	No
	15/03/19	20/05/19	29/05/19	Sulphur dioxide	mg/m^3	1	1	<6		
	15/03/19	20/05/19	29/05/19	Nitrogen oxides	mg/m^3	1	1	390	450	No
	15/03/19	20/05/19	29/05/19	Moisture content	%	1	1	7.6		
	15/03/19	20/05/19	29/05/19	Molecular weight of stack gases	g/g mole	1	1	30.2		
	15/03/19	20/05/19	29/05/19	Dry gas density	kg/m^3	1	1	1.35		
	15/03/19	20/05/19	29/05/19	Carbon dioxide	%	1	1	11.1		
	15/03/19	20/05/19	29/05/19	Oxygen	%	1	1	7.8		
	15/03/19	20/05/19	29/05/19	Carbon monoxide	mg/m^3	1	1	1100		
Discharge and Monitoring Point 13, Discharge to air, Gas engine exhaust stack labelled 'G113' on drawing number 840-BA-048, Rev A	15/03/19	20/05/19	29/05/19	Temperature	°C	1	1	429		
	15/03/19	20/05/19	29/05/19	Velocity	m/s	1	1	19		
	15/03/19	20/05/19	29/05/19	Volumetric flowrate	m^3/s	1	1	0.8		
	15/03/19	20/05/19	29/05/19	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	3.3	100	No
	15/03/19	20/05/19	29/05/19	Sulphur dioxide	mg/m^3	1	1	<6		
	15/03/19	20/05/19	29/05/19	Nitrogen oxides	mg/m^3	1	1	350	450	No
	15/03/19	20/05/19	29/05/19	Moisture content	%	1	1	7.3		
	15/03/19	20/05/19	29/05/19	Molecular weight of stack gases	g/g mole	1	1	30.2		
	15/03/19	20/05/19	29/05/19	Dry gas density	kg/m^3	1	1	1.35		
	15/03/19	20/05/19	29/05/19	Carbon dioxide	%	1	1	11.4		
	15/03/19	20/05/19	29/05/19	Oxygen	%	1	1	7.6		
	15/03/19	20/05/19	29/05/19	Carbon monoxide	mg/m^3	1	1	1,100		
Discharge and Monitoring Point 14, Discharge to air, Gas engine exhaust stack labelled 'G114' on drawing number 840-BA-048, Rev A	21/03/19	20/05/19	29/05/19	Temperature	°C	1	1	528		
	21/03/19	20/05/19	29/05/19	Velocity	m/s	1	1	56		
	21/03/19	20/05/19	29/05/19	Volumetric flowrate	m^3/s	1	1	2.2		
	21/03/19	20/05/19	29/05/19	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	1.8	100	No
	21/03/19	20/05/19	29/05/19	Sulphur dioxide	mg/m^3	1	1	<6		
	21/03/19	20/05/19	29/05/19	Nitrogen oxides	mg/m^3	1	1	370	450	No
	21/03/19	20/05/19	29/05/19	Moisture content	%	1	1	7.4		
	21/03/19	20/05/19	29/05/19	Molecular weight of stack gases	g/g mole	1	1	30.2		
	21/03/19	20/05/19	29/05/19	Dry gas density	kg/m^3	1	1	1.35		
	21/03/19	20/05/19	29/05/19	Carbon dioxide	%	1	1	11.3		
	21/03/19	20/05/19	29/05/19	Oxygen	%	1	1	7.5		
	21/03/19	20/05/19	29/05/19	Carbon monoxide	mg/m^3	1	1	1000		
Discharge and Monitoring Point 15, Discharge to air, Gas engine exhaust stack labelled 'G115' on drawing number 840-BA-048, Rev A	21/03/19	20/05/19	29/05/19	Temperature	°C	1	1	487		
	21/03/19	20/05/19	29/05/19	Velocity	m/s	1	1	31		
	21/03/19	20/05/19	29/05/19	Volumetric flowrate	m^3/s	1	1	1.4		
	21/03/19	20/05/19	29/05/19	Sulfuric acid mist and sulphur trioxide (as SO3)	mg/m^3	1	1	0.88	100	No
	21/03/19	20/05/19	29/05/19	Sulphur dioxide	mg/m^3	1	1	<6		
	21/03/19	20/05/19	29/05/19	Nitrogen oxides	mg/m^3	1	1	450	450	No
	21/03/19	20/05/19	29/05/19	Moisture content	%	1	1	6.4		
	21/03/19	20/05/19	29/05/19	Molecular weight of stack gases	g/g mole	1	1	29.7		
	21/03/19	20/05/19	29/05/19	Dry gas density	kg/m^3	1	1	1.32		
	21/03/19	20/05/19	29/05/19	Carbon dioxide	%	1	1	6.3		
	21/03/19	20/05/19	29/05/19	Oxygen	%	1	1	13.5		
	15/03/19	20/05/19	29/05/19	Carbon monoxide	mg/m^3	1	1	600		
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	15/03/19	20/05/19	29/05/19	Volatile organic compounds	mg/m^3	1	1	530		
	15/03/19	20/05/19	29/05/19	Oxygen	%	1	1	1.5		
	15/03/19	20/05/19	29/05/19	Molecular weight of the gases in supply line	g/g mole	1	1	34.7		
	15/03/19	20/05/19	29/05/19	Carbon dioxide	%	1	1	40.6		
	15/03/19	20/05/19	29/05/19	Dry gas density	kg/m^3	1	1	1.6		
	15/03/19	20/05/19	29/05/19	Moisture content	%	1	1	1.8		
	15/03/19	20/05/19	29/05/19	Temperature	°C	1	1	64.0		
	15/03/19	20/05/19	29/05/19	Velocity	m/s	1	1	130.0		
	15/03/19	20/05/19	29/05/19	Volumetric flowrate	m^3/s	1	1	2.0		

Change Log

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