

Lucas Heights 2

Licence Number: 6345

Licence Holder: EDL LFG (NSW) PTY LTD

Licensee Address: Lucas Heights 2

Testing year 2016

Testing Required Engine 6, 8 and LFG supply line

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	Licence Limit	No. Samples Required	No. Samples collected	Min. Value	Mean Value	Max. Value
Discharge and Monitoring Point 6, Discharge to air, Gas engine exhaust stack labelled 'G106' on drawing number 840-BA-048, Rev A	29/02/16	13/04/16	28/04/16	Carbon dioxide	%		1	1		11.5	
	29/02/16	13/04/16	28/04/16	Carbon monoxide	mg/m3		1	1		1487	
	29/02/16	13/04/16	28/04/16	Dry gas density	Kg/m3		1	1		1.34	
	29/02/16	13/04/16	28/04/16	Moisture Content	%		1	1		3.8	
	29/02/16	13/04/16	28/04/16	Molecular weight of stack gases	g/g-mole		1	1		30.09	
	29/02/16	13/04/16	28/04/16	Nitrogen oxides	mg/m3	<450	1	1		349	
	29/02/16	13/04/16	28/04/16	Oxygen (O2)	%		1	1		6.2	
	29/02/16	13/04/16	28/04/16	Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	<100	1	1		<0.04	
	29/02/16	13/04/16	28/04/16	Sulphur dioxide	mg/m3		1	1		<0.01	
	29/02/16	13/04/16	28/04/16	Temperature	Degrees Celsius		1	1		540	
	29/02/16	13/04/16	28/04/16	Velocity	m/s		1	1		35	
	29/02/16	13/04/16	28/04/16	Volumetric flowrate	m ³ /s		1	1		2.64	
Discharge and Monitoring Point 8, Discharge to air, Gas engine exhaust stack labelled 'G108' on drawing number 840-BA-048, Rev A	29/02/16	13/04/16	28/04/16	Carbon dioxide	%		1	1		11.1	
	29/02/16	13/04/16	28/04/16	Carbon monoxide	mg/m3		1	1		1354	
	29/02/16	13/04/16	28/04/16	Dry gas density	Kg/m3		1	1		1.34	
	29/02/16	13/04/16	28/04/16	Moisture Content	%		1	1		3.50	
	29/02/16	13/04/16	28/04/16	Molecular weight of stack gases	g/g-mole		1	1		30.1	
	29/02/16	13/04/16	28/04/16	Nitrogen oxides	mg/m3	<450	1	1		362	
	29/02/16	13/04/16	28/04/16	Oxygen (O2)	%		1	1		7	
	29/02/16	13/04/16	28/04/16	Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	<100	1	1		<0.03	
	29/02/16	13/04/16	28/04/16	Sulphur dioxide	mg/m3		1	1		<0.01	
	29/02/16	13/04/16	28/04/16	Temperature	Degrees Celsius		1	1		458	
	29/02/16	13/04/16	28/04/16	Velocity	m/s		1	1		24.1	
	29/02/16	13/04/16	28/04/16	Volumetric flowrate	m ³ /s		1	1		1.8	
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	29/02/16	13/04/16	28/04/16	Carbon dioxide	%		1	1		32.8	
	29/02/16	13/04/16	28/04/16	Dry gas density	kg/m3		1	1		1.5	
	29/02/16	13/04/16	28/04/16	Moisture Content	%		1	1		15.5	
	29/02/16	13/04/16	28/04/16	Molecular weight of stack gases	g/g-mole		1	1		18.0	
	29/02/16	13/04/16	28/04/16	Oxygen (O2)	%		1	1		2.1	
	29/02/16	13/04/16	28/04/16	Temperature	Degrees Celsius		1	1		55.0	
	29/02/16	13/04/16	28/04/16	Velocity	m/s		1	1		2.4	
	29/02/16	13/04/16	28/04/16	Volatile organic compounds (as n-propane)	mg/m3		1	1		55	
29/02/16	13/04/16	28/04/16	Volumetric flowrate	m3/s		1	1		0.2		

Change Log

Date Change

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

23/07/2020 Corrected to 'trioxide' from 'trioide'