

Lucas Heights 2

Licence Number: 6345

Licence Holder: EDL LFG (NSW) PTY LTD

Licensee Address: Lucas Heights 2

Testing year 2015

Testing Required Units 1, 4, 9, 10, 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 by Licence	No. Samples you collected and Analysed	Mean Value
Discharge and Monitoring Point 1, Discharge to air, Gas engine exhaust stack labelled 'G101' on drawing number 840- BA-048, Rev A	30/04/2015	5/05/2015	11/05/2015	Carbon dioxide	Percent		1	1	11.3
	31/03/2015	24/04/2015	11/05/2015	Carbon monoxide	Milligrams per cubic metre		1	1	140
	30/04/2015	5/05/2015	11/05/2015	Dry gas density	Kilograms per cubic metre		1	1	1.35
	30/04/2015	5/05/2015	11/05/2015	Moisture Content	Percent		1	1	7.4
	30/04/2015	5/05/2015	11/05/2015	Molecular weight of stack gases	Grams per gram mole		1	1	30.3
	30/04/2015	5/05/2015	11/05/2015	Nitrogen Oxides	Milligrams per cubic metre	<450	1	1	410
	30/04/2015	5/05/2015	11/05/2015	Oxygen (O2)	Percent		1	1	8.3
	31/03/2015	24/04/2015	11/05/2015	Sulfuric acid mist and sulfur trioxide (as SO3)	Milligrams per cubic metre	<100	1	1	3
	31/03/2015	24/04/2015	11/05/2015	Sulphur dioxide	Milligrams per cubic metre		1	1	11
	30/04/2015	5/05/2015	11/05/2015	Temperature	Degrees Celsius		1	1	491
	30/04/2015	5/05/2015	11/05/2015	Velocity	Metres per second		1	1	32
	30/04/2015	5/05/2015	11/05/2015	Volumetric flowrate	Cubic metres per second		1	1	3.2
Discharge and Monitoring Point 4, Discharge to air, Gas engine exhaust stack labelled 'G104' on drawing number 840- BA-048, Rev A	30/04/15	5/05/15	11/05/15	Carbon dioxide	Percent		1	1	11.4
	1/04/15	24/04/15	11/05/15	Carbon monoxide	Milligrams per cubic metre		1	1	1200.0
	30/04/15	5/05/15	11/05/15	Dry gas density	Kilograms per cubic metre		1	1	1.4
	30/04/15	5/05/15	11/05/15	Moisture Content	Percent		1	1	8.8
	30/04/15	5/05/15	11/05/15	Molecular weight of stack gases	Grams per gram mole		1	1	30.3
	30/04/15	5/05/15	11/05/15	Nitrogen oxides	Milligrams per cubic metre	<450	1	1	430.0
	30/04/15	5/05/15	11/05/15	Oxygen (O2)	Percent		1	1	8.0
	1/04/15	24/04/15	11/05/15	Sulfuric acid mist and sulfur trioxide (as SO3)	Milligrams per cubic metre	<100	1	1	28.00
	1/04/15	24/04/15	11/05/15	Sulphur dioxide	Milligrams per cubic metre		1	1	42.00
	30/04/15	5/05/15	11/05/15	Temperature	Degrees Celsius		1	1	500.0
	30/04/15	5/05/15	11/05/15	Velocity	Metres per second		1	1	45.0
	30/04/15	5/05/15	11/05/15	Volumetric flowrate	Cubic metres per second		1	1	4.5
Discharge and Monitoring Point 9, Discharge to air, Gas engine exhaust stack labelled 'G109' on drawing number 840-	30/04/15	5/05/15	11/05/15	Carbon dioxide	Percent		1	1	11.6
	1/04/15	24/04/15	11/05/15	Carbon monoxide	Milligrams per cubic metre		1	1	1300.0
	30/04/15	5/05/15	11/05/15	Dry gas density	Kilograms per cubic metre		1	1	1.35
	30/04/15	5/05/15	11/05/15	Moisture Content	Percent		1	1	5.3
	30/04/15	5/05/15	11/05/15	Molecular weight of stack gases	Grams per gram mole		1	1	30.3
	30/04/15	5/05/15	11/05/15	Nitrogen oxides	Milligrams per cubic metre	<450	1	1	390.0
	30/04/15	5/05/15	11/05/15	Oxygen (O2)	Percent		1	1	8.1

BA-048, Rev A	1/04/15	24/04/15	11/05/15	Sulfuric acid mist and sulfur trioxide (as SO ₃)	Milligrams per cubic metre	<100	1	1	13.0
	1/04/15	24/04/15	11/05/15	Sulphur dioxide	Milligrams per cubic metre		1	1	46.0
	30/04/15	5/05/15	11/05/15	Temperature	Degrees Celsius		1	1	499.0
	30/04/15	5/05/15	11/05/15	Velocity	Metres per second		1	1	41.0
	30/04/15	5/05/15	11/05/15	Volumetric flowrate	Cubic metres per second		1	1	4.1
Discharge and Monitoring Point 10, Discharge to air, Gas engine exhaust stack labelled 'G110' on drawing number 840-BA-048, Rev A	30/04/15	5/05/15	11/05/15	Carbon dioxide	Percent		1	1	11.8
	1/04/15	24/04/15	11/05/15	Carbon monoxide	Milligrams per cubic metre		1	1	1300.0
	30/04/15	5/05/15	11/05/15	Dry gas density	Kilograms per cubic metre		1	1	1.35
	30/04/15	5/05/15	11/05/15	Moisture Content	Percent		1	1	6.9
	30/04/15	5/05/15	11/05/15	Molecular weight of stack gases	Grams per gram mole		1	1	30.3
	30/04/15	5/05/15	11/05/15	Nitrogen oxides	Milligrams per cubic metre	<450	1	1	390.0
	30/04/15	5/05/15	11/05/15	Oxygen (O ₂)	Percent		1	1	7.9
	1/04/15	24/04/15	11/05/15	Sulfuric acid mist and sulfur trioxide (as SO ₃)	Milligrams per cubic metre	<100	1	1	4.0
	1/04/15	24/04/15	11/05/15	Sulphur dioxide	Milligrams per cubic metre		1	1	46.0
	30/04/15	5/05/15	11/05/15	Temperature	Degrees Celsius		1	1	491.0
	30/04/15	5/05/15	11/05/15	Velocity	Metres per second		1	1	43.0
	30/04/15	5/05/15	11/05/15	Volumetric flowrate	Cubic metres per second		1	1	4.2
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	31/03/15	24/04/15	11/05/15	Carbon dioxide	Percent		1	1	39
	31/03/15	24/04/15	11/05/15	Dry gas density	Kilograms per cubic metre		1	1	1.27
	31/03/15	24/04/15	11/05/15	Moisture Content	Percent		1	1	1
	31/03/15	24/04/15	11/05/15	Molecular weight of stack gases	Grams per gram mole		1	1	28.4
	31/03/15	24/04/15	11/05/15	Oxygen (O ₂)	Percent		1	1	2
	31/03/15	24/04/15	11/05/15	Temperature	Degrees Celsius		1	1	51
	31/03/15	24/04/15	11/05/15	Velocity	Metres per second		1	1	See volumetric flow rate
	31/03/15	24/04/15	11/05/15	Volatile organic compounds (as n-propane)	Milligrams per cubic metre		1	1	84
	31/03/15	24/04/15	11/05/15	Volumetric flowrate	Cubic metres per second		1	1	2.037

Change Log

Date Change

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

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