

Jacks Gully Power Station

Licence Number: 10021

Licence Holder: EDL LFG (NSW) PTY LTD

Licencee Address: Jacks Gully Waste Management Centre, Richardson Road, Mount Annan NSW 2567

Testing year: 2023

Testing Required Once every 5 years test Engine 1 and 2, Landfill Gas Supply Line and Flare

Location of Monitoring Point	Sampled	Obtained	Published	Frequency	Pollutant	Units of Measure	Licence Limit	No. Samples Required by Licence	No. Samples you collected and Analysed	Value	Exceedance (Yes/No)
Discharge and Monitoring Point 1, Gas engine exhaust stack labelled "gas engine" on drawing number 874-BA-001 Rev 5	12/05/2023	16/06/2023	19/06/2023	Once every 5 years Monitoring Point 1 and 2 must be sampled at the same time	Carbon dioxide	%		1	1	12.7	
					Carbon monoxide	mg/m3		1	1	820	
					Dry gas density	kg/m3		1	1	1.36	
					Moisture Content	%		1	1	12	
					Molecular weight of stack gases in engine exhaust	g/g-mole		1	1	30.5	
					Nitrogen Oxides	mg/m3	≤ 450	1	1	410	No
					Oxygen (O2)	%		1	1	7.4	
					Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	≤ 100	1	1	8.2	No
					Sulphur dioxide	mg/m3		1	1	<6	
					Temperature	°C		1	1	518	
					Velocity	m/s		1	1	51	
					Volumetric flowrate	m3/s		1	1	1.5	
					Discharge and Monitoring Point 2, Landfill gas supply line labelled "gas supply line" on drawing number 874-BA-001 Rev 5	10/03/2023	16/06/2023	19/06/2023	Once every 5 years Monitoring Point 1 and 2 must be sampled at the same time	Carbon dioxide	%
Dry gas density	kg/m3		1	1						1.2	
Moisture Content	%		1	1						0.8	
Molecular weight of stack gases in gas supply line	g/g-mole		1	1						27	
Oxygen (O2)	%		1	1						1.4	
Temperature	°C		1	1						44	
Velocity	m/s		1	1						2.2	
Volatile Organic Compounds	mg/ Nm ³		1	1						220	
Volumetric flowrate	Nm ³ /s		1	1						0.17	
H2S	ppm		0	1						0.34	
Discharge and Monitoring Point 3, Landfill gas flare labelled "flare" on drawing number 874-BA-001 Rev 5	10/03/2023	16/06/2023	19/06/2023	Once every 5 years	Temperature	°C	≥ 760	1	1	791	No
					Residence time	s	≥ 0.6	1	1	0.8	No
Discharge and Monitoring Point 4, Gas engine exhaust stack labelled "generator module 2" on drawing number 874-BA-001 Rev 7	10/03/2023	16/06/2023	19/06/2023	Once every 5 years	Volumetric flowrate	m3/s		1	1	0.3	
					Carbon dioxide	%		1	1	10.6	
					Carbon monoxide	mg/m3		1	1	1.4	
					Dry gas density	kg/m3		1	1	1.34	
					Moisture Content	%		1	1	12	
					Molecular weight of stack gases in engine exhaust	g/g-mole		1	1	30.1	
					Nitrogen Oxides	mg/m3	≤ 450	1	1	410	No
					Oxygen (O2)	%		1	1	8.1	
					Sulfuric acid mist and sulfur trioxide (as SO3)	mg/m3	≤ 100	1	1	1.6	No
					Sulphur dioxide	mg/m3		1	1	<30	
					Temperature	°C		1	1	487	
					Velocity	m/s		1	1	40	
					Volumetric flowrate	m3/s		1	1	1.2	