

SUMMARY OF ENVIRONMENTAL MONITORING DATA July 2017 to June 2018

Licence Number 1830									
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
36	Phosphine	mg/m3	27	Annually	242	242	0.0	1.2	25.4
	Carbon Dioxide	%		Annually			0.0	5.3	31.5
	Dry gas density	kg/m3		Annually			1.1	1.2	1.3
	Moisture	%		Annually			0.8	6.5	32.8
	Molecular weight of stack gases	g/gram mole		Annually			28.0	28.8	28.9
	Temperature	Degrees C		Annually			0.0	20.7	46.4
	Velocity	m/s		Annually			2.4	35.8	45.5
	Volumetric flow rate	m3/s		Annually			0.1	1.1	1.4
37	Phosphine	mg/m3	29	Annually	21	21	0.0	3.7	25.3
	Carbon Dioxide	%		Annually			3.3	5.5	16.9
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.0	2.9	4.3
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			14.2	17.1	20.6
	Velocity	m/s		Annually			4.6	5.3	8.3
	Volumetric flow rate	m3/s		Annually			0.5	0.6	0.9
38	Phosphine	mg/m3	29	Annually	21	21	0.0	3.7	25.3
	Carbon Dioxide	%		Annually			3.3	5.5	16.9
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			2.0	2.9	4.3
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			14.2	17.1	20.6
	Velocity	m/s		Annually			4.6	5.3	8.3
	Volumetric flow rate	m3/s		Annually			0.5	0.6	0.9
39	Phosphine	mg/m3	12	Annually	26	26	0.0	0.4	8.1
	Carbon Dioxide	%		Annually			2.9	3.7	11.8
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.7	2.3	4.5
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			10.0	13.3	18.9
	Velocity	m/s		Annually			4.3	7.3	7.8
	Volumetric flow rate	m3/s		Annually			0.5	0.9	1.0
40	Phosphine	mg/m3	10	Annually	24	24	0.0	0.4	2.9
	Carbon Dioxide	%		Annually			2.1	4.6	9.8
	Dry gas density	kg/m3		Annually			1.2	1.2	1.3
	Moisture	%		Annually			0.9	3.7	6.9
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			3.1	13.8	19.9
	Velocity	m/s		Annually			3.8	4.8	5.6
	Volumetric flow rate	m3/s		Annually			0.6	0.8	0.9
41#	Phosphine	mg/m3	9	Annually	24	24	0.0	1.0	7.1
	Carbon Dioxide	%		Annually			4.0	4.9	10.2
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			1.4	3.5	5.9
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			7.2	14.0	18.1
	Velocity	m/s		Annually			5.4	6.0	6.9
	Volumetric flow rate	m3/s		Annually			0.4	0.4	0.5
42	Phosphine	mg/m3	8	Annually	23	23	0.0	0.3	3.0
	Carbon Dioxide	%		Annually			2.3	4.6	12.3
	Dry gas density	kg/m3		Annually			1.2	1.2	1.2
	Moisture	%		Annually			3.1	6.7	12.3
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			13.1	19.2	24.3

Velocity	m/s	Annually	6.1	6.8	7.3
Volumetric flow rate	m3/s	Annually	0.8	0.8	0.9

Licence Number* 1832									
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
1	Phosphine	mg/m3	29	Annually	0	0	NA	NA	NA
	Carbon Dioxide	%		Annually	0	0	NA	NA	NA
	Dry gas density	kg/m3		Annually	0	0	NA	NA	NA
	Moisture	%		Annually	0	0	NA	NA	NA
	Molecular weight of stack gases	g/gram mole		Annually	0	0	NA	NA	NA
	Temperature	Degrees C		Annually	0	0	NA	NA	NA
	Velocity	m/s		Annually	0	0	NA	NA	NA
	Volumetric flow rate	m3/s		Annually	0	0	NA	NA	NA

Licence Number 1833									
Monitoring Point	Pollutant	Units	100 percentile Concentration Limit	Frequency	No of Samples Required	No of Samples Collected	Min Result	Average Result	Max Result
1	Methyl Bromide	mg/m3	0.35	Annually	1	1	0.10	0.10	0.10
2	Phosphine	mg/m3	29	Annually	12	12	0.0	0.6	2.0
	Carbon Dioxide	%		Annually			3.0	3.9	9.1
	Dry gas density	kg/m3		Annually			1.1	1.2	1.2
	Moisture	%		Annually			4.8	15.6	30.8
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			19.6	29.6	37.4
	Velocity	m/s		Annually			19.5	19.9	20.2
	Volumetric flow rate	m3/s		Annually			1.0	1.0	1.0
3	Phosphine	mg/m3	29	Annually	11	11	0.0	0.4	1.1
	Carbon Dioxide	%		Annually			3.3	4.6	8.5
	Dry gas density	kg/m3		Annually			1.2	1.2	1.3
	Moisture	%		Annually			1.1	2.2	5.1
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			5.2	10.4	18.4
	Velocity	m/s		Annually			8.5	11.1	11.4
	Volumetric flow rate	m3/s		Annually			0.4	0.5	0.6
4	Phosphine	mg/m3	29	Annually	15	15	0.0	0.4	1.3
	Carbon Dioxide	%		Annually			0.9	1.1	1.3
	Dry gas density	kg/m3		Annually			1.1	1.2	1.2
	Moisture	%		Annually			3.4	6.3	11.7
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.8
	Temperature	Degrees C		Annually			20.8	24.9	31.4
	Velocity	m/s		Annually			11.9	18.3	18.8
	Volumetric flow rate	m3/s		Annually			0.6	0.9	0.9
5	Phosphine	mg/m3	29	Annually	13	13	0.2	0.9	1.9
	Carbon Dioxide	%		Annually			3.6	6.5	19.6
	Dry gas density	kg/m3		Annually			1.1	1.2	1.2
	Moisture	%		Annually			2.3	5.8	11.0
	Molecular weight of stack gases	g/gram mole		Annually			28.8	28.8	28.9
	Temperature	Degrees C		Annually			14.4	21.4	29.9
	Velocity	m/s		Annually			5.9	7.1	7.8
	Volumetric flow rate	m3/s		Annually			1.0	1.2	1.3

* Plant Not Operational During Reporting Period
July 2017