



Licensee: **Koppers Carbon Materials & Chemicals Pty Ltd**

Address: **Woodstock Street Mayfield NSW 2304**

EPL No.: **2156**

Date Results Obtained: **10/04/2019**

Frequency of Monitoring as Required by Licence: **Three & Six Monthly**

Parameter	Units	Frequency	EPL Point1	EPL Point 3	EPL Point 4	EPL Point 5	EPL Point 8	EPL Point 9A	EPL Point 9B	EPL Point 10	EPL Point 11	EPL Point 12
Stack ID			111H	414H	518H	711H	611H	Boiler 1	Boiler 2	Creosote Reboiler	Tar Reboiler	Naphthalene Reboiler
Benzene	mg/m ³	3 months	10,000	6.8	Not Operational at time of testing	180	28	N/A	N/A	0.12	<0.2	<0.19
Hydrogen Sulphide	mg/m ³	6 months	<2.0 (5)	<1.9 (5)	as above	<1.9 (5)	<1.9 (5)	N/A	N/A	n/a	n/a	n/a
Naphthalene	mg/m ³	3 months	37	610	as above	26	58	N/A	N/A	0.00045	0.0003	0.01
Polycyclic Aromatic Hydrocarbons	mg/m ³	3 months	500	1,100	as above	340	190	N/A	N/A	0.0028	0.0028	0.039
Volatile Organic Compounds	mg/m ³	3 months	12,150	33	as above	638	71	N/A	N/A	0.12	<0.4	<0.38
Volatile Organic Compounds as n-propane equivalent	mg/m ³	3 months	6,605	15	as above	306	35	N/A	N/A	0.07	<0.17	<0.16
Temperature	°C	6 months	32	36	as above	35	25	74.5	84	407	290	332
Velocity	m/s	6 months	Not detected	Not detected	as above	Not detected	Not detected	3.2	2.5	12	4.7	9.9
Volumetric Flowrate	m ³ /sec	6 months	Not detected	Not detected	as above	Not detected	Not detected	0.63	0.49	1.6	0.80	1.5

Note: EPL Limit in Parenthesis

Parameter	Units	Frequency	EPL Point 9A	EPL Point 9B	EPL Point 12	EPL Point 13	EPL Point 14	EPL Point 15
Stack ID			Boiler 1	Boiler 2	Naphthalene Reboiler	HFT 2	HTF 3	Booster Station
Nitrogen Oxides	mg/m ³	6 months	156 (500)	186 (500)	1511 (2000)	189 (2000)	Not Operational at time of testing	216 (2000)
Sulphur Dioxide	mg/m ³	6 months	<14	<18	400	<14	as above	<16
Sulphur Trioxide	mg/m ³	6 months	<3.1 (100)	<4.8 (100)	32 (100)	<6.6 (100)	as above	20 (100)
Total Solid Particles	mg/m ³	6 months	37 (100)	23 (100)	59 (100)	11 (100)	as above	10 (100)

Note: EPL Limit in Parenthesis

Parameter	Units	Frequency	EPL Point 10	EPL Point 11
Stack ID			Creosote Reboiler	Tar Reboiler
Nitrogen Oxides	mg/m ³	6 months	1318 (2000)	1329 (2000)
PM ₁₀	mg/m ³	6 months	9.4	16.9
PM _{2.5}	mg/m ³	6 months	2.4	3.3
Sulphur Dioxide	mg/m ³	3 months	310	370
Sulphur Trioxide	mg/m ³	3 months	20 (100)	23 (100)
Total Solid Particles	mg/m ³	6 months	38 (100)	98 (100)

Note: EPL Limit in Parenthesis

Comments

All results are within Environmental Protection Licence limits.

Link to Environmental Protection Licence

<https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=155931&SYSUID=1&LICID=2156>