

**Southern Oil Refining Pty Ltd**  
42 Lewington Street, Bomen, NSW 2650  
EPA License number 11408

<b>Air Emissions – Utilities Block Stack (Point Source 1)</b>												
Pollutant	Unit of Measure	100 percentile conc. limit	Monitoring frequency	Yearly Summary 2013								Exceedance (Y,N)
				Mar	Jun	Sept	Dec	Min. Value	Mean Value	Median Value	Max. Value	
Cadmium	g/m <sup>3</sup>	0.0002	Quarterly	0.0000004	0.0000095	<0.000001	< 0.000001	0.0000004	0.000003	0.000001	0.0000095	N
Chlorine	g/m <sup>3</sup>	0.2	Quarterly	0.0002	0.000095	0.00073	0.0018	0.000095	0.00071	0.00047	0.0018	N
Mercury	g/m <sup>3</sup>	0.0002	Quarterly	0.0000011	0.0000016	<0.000002	< 0.000002	0.0000011	0.0000017	0.0000018	0.000002	N
Nitrogen Oxides	g/m <sup>3</sup>	0.3	Quarterly	0.11	0.15	0.19	0.23	0.11	0.17	0.17	0.23	N
Hydrogen Sulfide	g/m <sup>3</sup>	0.005	Quarterly	0.0000089	<0.000002	<0.00005	< 0.00004	0.000002	0.000025	0.000024	0.00005	N
Dioxins & Furans	ng/m <sup>3</sup>	0.1	Yearly	-	0.086	-	0.00032	0.00032	0.043	0.043	0.086	N
Hydrogen Chloride	g/m <sup>3</sup>	0.1	Quarterly	0.0022	0.0042	0.0078	0.0038	0.0022	0.0045	0.004	0.0078	N
Solid Particles (PM10)	g/m <sup>3</sup>	0.05	Quarterly	0.043	0.046	0.035	0.027	0.027	0.038	0.039	0.046	N
Sulfuric Acid Mist and/or Sulfur Trioxide	g/m <sup>3</sup>	0.1	Quarterly	0.081	0.019	0.0077	0.0096	0.0077	0.029	0.014	0.081	N
Total Fluoride	g/m <sup>3</sup>	0.05	Quarterly	0.0019	0.00086	0.0014	0.0023	0.00086	0.0016	0.0017	0.0023	N
Hazardous Substances	g/m <sup>3</sup>	0.001	Quarterly	0.00078	0.000044	0.000016	0.000015	0.000015	0.00021	0.00003	0.00078	N
VOCs	g/m <sup>3</sup>	0.04	Quarterly	0.000095	<0.000086	0.00035	0.000033	0.000033	0.00014	0.00009	0.00035	N
Temperature	K	N/A	Quarterly	680	732	726	716	680	714	721	732	N/A
Chromium	g/m <sup>3</sup>	N/A	Quarterly	0.00036	0.0000014	<0.000001	0.0000047	0.000001	0.00009	0.000003	0.00036	N/A
Oxygen	%	N/A	Quarterly	3	5.8	7	6.5	3	5.6	6.15	7	N/A
Sulphur Dioxide	g/m <sup>3</sup>	N/A	Quarterly	1.3	0.99	0.92	0.99	0.92	1.05	0.99	1.3	N/A
Moisture Content	%	N/A	Quarterly	23	23	20	20	20	22	22	23	N/A
Carbon Monoxide	g/m <sup>3</sup>	N/A	Quarterly	0.0035	<0.003	<0.003	0.029	0.003	0.010	0.0033	0.029	N/A
P.A.H.	ng/m <sup>3</sup>	N/A	Quarterly	5200	3600	840	580	580	2555	2220	5200	N/A
P.A.H. (BaP-TEQ)	ng/m <sup>3</sup>	N/A	Quarterly	30	7.9	57	5.7	5.7	25	19	57	N/A
Velocity	m/s	N/A	Quarterly	17	20	19	17	17	18	18	20	N/A
Volumetric Flowrate	m <sup>3</sup> /s	N/A	Quarterly	4.5	5.5	5.2	4.6	4.5	5.0	4.9	5.5	N/A
Dry Gas Density	kg/m <sup>3</sup>	N/A	Quarterly	1.33	1.33	1.3	1.3	1.3	1.3	1.3	1.33	N/A
Speciated Organic Compounds	g/m <sup>3</sup>	N/A	Quarterly	<0.00008	<0.00009	<0.000016	< 0.0001	0.000016	0.00007	0.00008	0.0001	N/A