

STACK MONITORING DATA

EPL 546



EPA Point 4 - Plant 1 – Horsley Park

Date			21/01/2021	31/03/2021	27/05/2021	07/07/2021		
Analytes	Units	Limits						
Total Solid Particles (TSP)	mg/m <sup>3</sup>	100	18	13	97	26		
Coarse Particulates	mg/m <sup>3</sup>	N.A	1.6	2.6	80	5.8		
Fine Particulates (PM10)	mg/m <sup>3</sup>	N.A	17	11	18	20		
Sulphur Oxides (SOX) SO2+SO3	mg/m <sup>3</sup>	N.A	181.3	211.4	240.79	212.7		
Nitrogen Oxides (NOX)	mg/m <sup>3</sup>	2000	73	89	75	70		
Hydrogen Fluoride (HF)	mg/m <sup>3</sup>	50	96	95	97	38		
Cadmium	mg/m <sup>3</sup>	N.A	<0.0004	<0.0005	<0.0003	<0.0005		
Dry Gas Density	kg/m <sup>3</sup>	N.A	1.3	1.31	29.4	1.32		
Fluorine	mg/m <sup>3</sup>	N.A	91	90	92	36		
Hydrogen Chloride	mg/m <sup>3</sup>	N.A	42	42	64	64		
Hydrogen Sulfide	µg/m <sup>3</sup>	N.A	<0.01	0.13	<0.03	0.8		
Mercury	mg/m <sup>3</sup>	N.A	0.013	0.0066	0.0054	0.019		
Moisture	%	N.A	6.73	7.53	6.97	6.70		
Molecular weight of stack gases	g/g-mole	N.A	29.20	29.40	29.40	29.53		
Oxygen	%	N.A	16.1	15.7	15.7	15.7		
Sulfuric acid mist (SO3)	mg/m <sup>3</sup>	N.A	1.3	1.4	0.79	2.7		
Sulphur dioxide (SO2)	mg/m <sup>3</sup>	N.A	180	210	240	210		
temperature	degrees Celsius	N.A	205.33	205.33	187.00	190.67		
Type 1 Substances	mg/m <sup>3</sup>	N.A	0.02	0.017	0.011	0.073		
Type 2 Substances	mg/m <sup>3</sup>	N.A	0.032	0.042	0.019	0.042		
Velocity	m/sec	N.A	13.00	13.00	12.67	12.00		
Volatile Organic Compounds as n-propane equivalent	mg/m <sup>3</sup>	N.A	1.5	2.6	3.8	2.9		
Volumetric Flow rates	m <sup>3</sup> /sec	N.A	13.67	14.00	14.00	13.33		

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EPA Point 5 - Plant 2 – Horsley Park



**Site not in operation**

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EPA Point 6 - Plant 3 – Horsley Park (Swindell)



Date			29.3.2021	19/05/2021	13/07/2021		
Analytes	Units	Limits					
Total Solid Particles (TSP)	mg/m <sup>3</sup>	100	12	9	14		
Coarse Particulates	mg/m <sup>3</sup>	N.A	6.1	0.36	0.045		
Fine Particulates (PM10)	mg/m <sup>3</sup>	N.A	6	8.7	13		
Sulphur Oxides (SOX) SO <sub>2</sub> +SO <sub>3</sub>	mg/m <sup>3</sup>	N.A	15.81	25.4	141.6		
Nitrogen Oxides (NOX)	mg/m <sup>3</sup>	2000	59	62	45		
Hydrogen Fluoride (HF)	mg/m <sup>3</sup>	50	1.3	33	25		

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EPA Point 7 - Plant 3 Horsley Park (Ceric)

Date			30/03/2021	18/05/2021	08/07/2021			
Analytes	Units	Limits						
Total Solid Particles (TSP)	mg/m <sup>3</sup>	100	20	22	130			
Coarse Particulates	mg/m <sup>3</sup>	N.A	15	7	110			
Fine Particulates (PM10)	mg/m <sup>3</sup>	N.A	4.9	15	21			
Sulphur Oxides (SOX) SO2+SO3	mg/m <sup>3</sup>	N.A	50.42	8.6	27.9			
Nitrogen Oxides (NOX)	mg/m <sup>3</sup>	2000	84	110	100			
Hydrogen Fluoride (HF)	mg/m <sup>3</sup>	50	1.8	3.6	4.8			
Cadmium	mg/m <sup>3</sup>	N.A	0.0005	<0.0005	<0.0004			
Dry Gas Density	kg/m <sup>3</sup>	N.A	1.31	1.31	1.32			
Fluorine	mg/m <sup>3</sup>	N.A	1.7	3.4	4.6			
Hydrogen Chloride	mg/m <sup>3</sup>	N.A	55	89	30			
Hydrogen Sulfide	µg/m <sup>3</sup>	N.A	0.03	0.04	0.8			
Mercury	mg/m <sup>3</sup>	N.A	0.012	0.0024	0.012			
Moisture	%	N.A	8.00	7.07	6.55			
Molecular weight of stack gases	g/g-mole	N.A	29.30	29.30	29.50			
Oxygen	%	N.A	16	16.2	16.2			
Sulfuric acid mist (SO3)	mg/m <sup>3</sup>	N.A	0.42	0.5	4.9			
Sulphur dioxide (SO2)	mg/m <sup>3</sup>	N.A	50	8.1	23			
temperature	°Celcius	N.A	174.33	154	150.5			
Type 1 Substances	mg/m <sup>3</sup>	N.A	0.023	0.01	0.032			
Type 2 Substances	mg/m <sup>3</sup>	N.A	0.038	0.037	0.041			
Velocity	m/sec	N.A	9.33	12.00	10.50			
Volatile Organic Compounds as n-propane equivalent	mg/m <sup>3</sup>	N.A	0.79	0.69	0.93			
Volumetric Flow rates	m <sup>3</sup> /sec	N.A	13.33	19.00	16.50			