



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
January 2019

14-03-2019 650-200-REP-YPN-0015 Rev 0

Ambient Air Concentration of Gases
NH₃, NO₂ and SO₂

Site	Date On	Date Off	NH ₃	NO ₂	SO ₂
			µg/m ³	µg/m ³	µg/m ³
Site 5 - Burrup Road	15/11/2018	29/11/2018	0.27	3.12	0.27
Site 6 - Water Tanks	15/11/2018	29/11/2018	0.97	3.23	0.18
Site 7 - Deep Gorge	15/11/2018	29/11/2018	0.56	1.61	0.21
Site 5 - Burrup Road	29/11/2018	13/12/2018	0.22	3.38	0.34
Site 6 - Water Tanks	29/11/2018	13/12/2018	0.22	3.06	0.46
Site 7 - Deep Gorge	29/11/2018	13/12/2018	0.22	2.31	0.18
Site 5 - Burrup Road	13/12/2018	31/12/2018	0.29	1.76	0.16
Site 6 - Water Tanks	13/12/2018	31/12/2018	0.25	2.33	0.25
Site 7 - Deep Gorge	13/12/2018	31/12/2018	0.37	1.55	0.70



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Airborne Particulate Concentration
Total Suspended Particulates (TSP)

Period Start Date ^{(1),(2)}	Site 5 (Burrup Road) TSP	Site 6 (Water Tanks) TSP	Site 7 (Deep Gorge) TSP
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
28/11/2018	31	37	48
04/12/2018	26	31	38
10/12/2018	66	63	63
16/12/2018	34	46	67
22/12/2018	51	37	51
28/12/2018	55	59	55

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.



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**Deposited Dust - Total Dust Deposition per Month
Insoluble and Soluble Fraction**

Site 5 - Burrup Road		Date Deployed	31/10/2018
		Date Collected	29/11/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.9
Insoluble solids	g/m ² /month	0.8	1.9

Site 6 - Water Tanks		Date Deployed	31/10/2018
		Date Collected	29/11/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.9
Insoluble solids	g/m ² /month	0.8	2.3

Site 7 - Deep Gorge		Date Deployed	31/10/2018
		Date Collected	29/11/2018
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	2.4