



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
January 2021

12/02/2021 650-200-REP-YPN-0039 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	15/10/2020	30/10/2020	0.16	2.37	0.04
Site 6 - Water Tanks	15/10/2020	30/10/2020	0.24	2.76	0.17
Site 7 - Deep Gorge	15/10/2020	30/10/2020	0.32	2.10	0.04
Site 5 - Burrup Road	30/10/2020	16/11/2020	0.14	2.71	0.06
Site 6 - Water Tanks	30/10/2020	16/11/2020	0.47	3.33	0.09
Site 7 - Deep Gorge	30/10/2020	16/11/2020	0.22	4.77	0.03
Site 5 - Burrup Road	16/11/2020	30/11/2020	0.35	0.89	1.92
Site 6 - Water Tanks	16/11/2020	30/11/2020	0.49	1.58	0.78
Site 7 - Deep Gorge	16/11/2020	30/11/2020	5.61	2.39	0.13
Site 5 - Burrup Road	30/11/2020	14/12/2020	0.24	1.48	0.04
Site 6 - Water Tanks	30/11/2020	14/12/2020	0.84	0.74	0.08
Site 7 - Deep Gorge	30/11/2020	14/12/2020	1.88	0.92	0.07



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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
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
05-Dec-20	36	32	23
11-Dec-20	16	NA ³	20
17-Dec-20	53	79	62
23-Dec-20	35	32	31

Notes:

- (1) The date is the date that sampling commenced.
(2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
(3) Result not valid. Analyst noted brown mark around the edge of the filter. Filter weight does not trend with other filters deployed at the same time.
Note: Heavy rainfall recorded 11/12/2020 (63.8 mm), possible ingress of water may of spoiled sample.



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

Site 5 - Burrup Road		Date Deployed	30/10/2020
		Date Collected	30/11/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	0.8

Site 6 - Water Tanks		Date Deployed	30/10/2020
		Date Collected	30/11/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	0.9

Site 7 - Deep Gorge		Date Deployed	30/10/2020
		Date Collected	30/11/2020
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	1.0