



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
March 2022

14/04/2022 650-200-REP-YPN-0054 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	15/12/2021	31/12/2021	0.66	4.27	0.16
Site 6 - Water Tanks	15/12/2021	31/12/2021	1.36	4.95	0.17
Site 7 - Hearsons Cove	15/12/2021	31/12/2021	2.00	2.61	0.11
Site 5 - Burrup Road	31/12/2021	17/01/2022	1.66	3.23	0.12
Site 6 - Water Tanks	31/12/2021	17/01/2022	0.68	No sample	No sample
Site 7 - Hearsons Cove	31/12/2021	17/01/2022	10.37	2.73	0.24
Site 5 - Burrup Road	17/01/2022	31/01/2022	0.24	2.56	0.32
Site 6 - Water Tanks	17/01/2022	31/01/2022	0.54	1.98	0.10
Site 7 - Hearsons Cove	17/01/2022	31/01/2022	9.14	2.56	0.04
Site 5 - Burrup Road	31/01/2022	15/02/2022	0.86	2.16	0.20
Site 6 - Water Tanks	31/01/2022	15/02/2022	1.03	2.69	0.22
Site 7 - Hearsons Cove	31/01/2022	15/02/2022	2.35	2.47	0.27

Notes:

(1) Site 7 renamed from Deep Gorge to Hearsons Cove due to site relocation in April 2020.



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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 (Hearsons Cove) TSP
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
29/01/2022	36	40	40
04/02/2022	36	36	38
10/02/2022	12	16	15
16/02/2022	27	29	22
22/02/2022	24	27	29
28/02/2022	51	45	43

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
- (3) Site 7 renamed from Deep Gorge to Hearsons Cove due to site relocation in April 2020.



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

Site 5 - Burrup Road		Date Deployed	31/12/2021
		Date Collected	31/01/2022
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.9
Insoluble solids	g/m ² /month	0.8	1.5

Site 6 - Water Tanks		Date Deployed	31/12/2021
		Date Collected	31/01/2022
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	<0.7
Insoluble solids	g/m ² /month	0.8	1.8

Site 7 – Hearsons Cove		Date Deployed	31/12/2021
		Date Collected	31/01/2022
Parameter	Unit	Limit of Reporting	
Soluble solids	g/m ² /month	0.7	0.9
Insoluble solids	g/m ² /month	0.8	1.7

Notes:

(1) Site 7 renamed from Deep Gorge to Hearsons Cove due to site relocation in April 2020.