



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
January 2023

24/02/2023 650-200-REP-YPN-0064 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 | 17/10/2022 | 1/11/2022 | 0.16 | 3.24 | 0.10 |
| Site 6 - Water Tanks | 17/10/2022 | 1/11/2022 | 0.38 | 3.93 | 0.03 |
| Site 7 – Hearsons Cove | 17/10/2022 | 1/11/2022 | 0.28 | 2.38 | 0.05 |
| Site 5 - Burrup Road | 1/11/2022 | 15/11/2022 | 0.12 | 4.24 | 0.99 |
| Site 6 - Water Tanks | 1/11/2022 | 15/11/2022 | 0.33 | 4.16 | 0.08 |
| Site 7 - Hearsons Cove | 1/11/2022 | 15/11/2022 | 0.22 | 2.71 | 0.08 |
| Site 5 - Burrup Road | 15/11/2022 | 30/11/2022 | 0.74 | 3.99 | 0.43 |
| Site 6 - Water Tanks | 15/11/2022 | 30/11/2022 | 0.66 | 3.17 | 0.25 |
| Site 7 - Hearsons Cove | 15/11/2022 | 30/11/2022 | 1.24 | 2.94 | 0.05 |
| Site 5 - Burrup Road | 30/11/2022 | 15/12/2022 | 0.28 | 5.11 | 0.31 |
| Site 6 - Water Tanks | 30/11/2022 | 15/12/2022 | 0.33 | 4.44 | 0.37 |
| Site 7 - Hearsons Cove | 30/11/2022 | 15/12/2022 | 0.33 | 3.02 | 0.10 |

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 |
|--------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| 25-Nov-22 | 29 | 26 | 30 |
| 01-Dec-22 | 37 | 42 | 40 |
| 07-Dec-22 | 30 | 33 | 30 |
| 13-Dec-22 | 50 | 50 | 33 |
| 19-Dec-22 | 31 | 41 | 32 |
| 25-Dec-22 | 26 | 26 | 23 |

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 | 30/09/2022 |
|----------------------|-------------------------|--------------------|------------|
| | | Date Collected | 1/11/2022 |
| Parameter | Unit | Limit of reporting | |
| Soluble solids | g/m ² /month | 0.7 | 0.9 |
| Insoluble solids | g/m ² /month | 0.8 | 2.0 |

| Site 6 - Water Tanks | | Date Deployed | 30/09/2022 |
|----------------------|-------------------------|--------------------|------------|
| | | Date Collected | 1/11/2022 |
| Parameter | Unit | Limit of reporting | |
| Soluble solids | g/m ² /month | 0.7 | <0.7 |
| Insoluble solids | g/m ² /month | 0.8 | 1.0 |

| Site 7 – Hearsons Cove | | Date Deployed | 30/09/2022 |
|------------------------|-------------------------|--------------------|------------|
| | | Date Collected | 1/11/2022 |
| Parameter | Unit | Limit of reporting | |
| Soluble solids | g/m ² /month | 0.7 | 0.8 |
| Insoluble solids | g/m ² /month | 0.8 | 0.9 |

Notes:

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