



Yara Pilbara Nitrates Pty Ltd
Air Quality Monitoring Report
February 2019

22-03-2019 650-200-REP-YPN-0016 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 | 31/12/2018 | 14/01/2019 | 0.27 | 2.58 | 1.85 |
| Site 6 - Water Tanks | 31/12/2018 | 14/01/2019 | 0.32 | 1.67 | 0.51 |
| Site 7 - Deep Gorge | 31/12/2018 | 14/01/2019 | 0.52 | 3.06 | 0.40 |
| Site 5 - Burrup Road | 14/01/2019 | 31/01/2019 | 0.42 | 1.70 | 0.24 |
| Site 6 - Water Tanks | 14/01/2019 | 31/01/2019 | 0.48 | 1.75 | 0.54 |
| Site 7 - Deep Gorge | 14/01/2019 | 31/01/2019 | 0.65 | 1.05 | 0.15 |
| Site 5 - Burrup Road | 31/01/2019 | 14/02/2019 | 0.44 | 1.22 | 0.10 |
| Site 6 - Water Tanks | 31/01/2019 | 14/02/2019 | 0.57 | 1.41 | 0.10 |
| Site 7 - Deep Gorge | 31/01/2019 | 14/02/2019 | 1.03 | 1.46 | 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 |
|--------------------------------------|--------------------------------|--------------------------------|-------------------------------|
| | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| 03-Jan-19 | 39 | 39 | 39 |
| 09-Jan-19 | 43 | 49 | 47 |
| 15-Jan-19 | 44 | 43 | 46 |
| 21-Jan-19 | 33 | 38 | 42 |
| 27-Jan-19 | 23 | 27 | 33 |
| 02-Feb-19 | 57 | 56 | 57 |
| 08-Feb-19 | 46 | 51 | 47 |
| 14-Feb-19 | 34 | 39 | 43 |
| 20-Feb-19 | 49 | - | 48 |
| 22-Feb-19 | - | 34 ⁽³⁾ | - |

Notes:

- (1) The date is the date that sampling commenced.
- (2) The Low Volume Air Sampler unit runs for a nominal 24 hours.
- (3) 20th of Feb 2019 Water Tanks results invalid run interrupted due to calibration of instrument and ran over 24 hour (± 1 hr) run time, re-run on the 22nd of February 2019.



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

| | | | |
|-----------------------------|-------------------------|---------------------------|-------------------|
| Site 5 - Burrup Road | | Date Deployed | 29/11/2018 |
| | | Date Collected | 31/12/2018 |
| Parameter | Unit | Limit of Reporting | |
| Soluble solids | g/m ² /month | 0.7 | 1.9 |
| Insoluble solids | g/m ² /month | 0.8 | 1.9 |

| | | | |
|-----------------------------|-------------------------|---------------------------|-------------------|
| Site 6 - Water Tanks | | Date Deployed | 29/11/2018 |
| | | Date Collected | 31/12/2018 |
| Parameter | Unit | Limit of Reporting | |
| Soluble solids | g/m ² /month | 0.7 | <0.7 |
| Insoluble solids | g/m ² /month | 0.8 | 1.7 |

| | | | |
|----------------------------|-------------------------|---------------------------|-------------------|
| Site 7 - Deep Gorge | | Date Deployed | 29/11/2018 |
| | | Date Collected | 31/12/2018 |
| Parameter | Unit | Limit of Reporting | |
| Soluble solids | g/m ² /month | 0.7 | 1.2 |
| Insoluble solids | g/m ² /month | 0.8 | 1.6 |