

# North Head Wastewater Treatment Plant

## 2022-23 Air quality pollution monitoring summaries



### EPL 378

Summary period: 1-07-2022 to 30-06-2023

Date published: 01-09-2023

Licensee: Sydney Water

PO Box 399

PARRAMATTA NSW 2124

| EPA Point 33          |                   | Point description: Ventilation outlet at Scotts Creek |                    |         |         |         |               |                  |
|-----------------------|-------------------|---|--------------------|---------|---------|---------|---------------|------------------|
| pollutant             | unit of measure   | sampling frequency                                    | number of samples  | minimum | average | maximum | maximum limit | % within limits* |
| hydrogen sulphide gas | mg/m <sup>3</sup> | 30 minutes  | 17517 <sup>1</sup> | <0.004  | <0.004  | 0.005   | 5             | 100%             |

| EPA Point 34          |                   | Point description: Ventilation outlet at Lane Cove River West |                    |         |         |         |               |                  |
|-----------------------|-------------------|---|--------------------|---------|---------|---------|---------------|------------------|
| pollutant             | unit of measure   | sampling frequency  | number of samples  | minimum | average | maximum | maximum limit | % within limits* |
| hydrogen sulphide gas | mg/m <sup>3</sup> | 30 minutes  | 16389 <sup>1</sup> | <0.004  | <0.004  | 0.113   | 5             | 100%             |

| EPA Point 35          |                   | Point description: Ventilation outlet at North Head STP for Northside Storage Tunnel |                    |         |         |         |               |                     |
|-----------------------|-------------------|--|--------------------|---------|---------|---------|---------------|---------------------|
| pollutant             | unit of measure   | sampling frequency   | number of samples  | minimum | average | maximum | maximum limit | % within limits*    |
| hydrogen sulphide gas | mg/m <sup>3</sup> | 30 minutes   | 17518 <sup>1</sup> | <0.01   | 0.01    | 7.10    | 5             | >99.9% <sup>2</sup> |

Maximum limits for air quality are based on the Protection of the Environment Operations (Clean Air) Regulation 2010 - Schedule 4 Standards of concentration for scheduled premises: general activities and plant.

<sup>1</sup> Commentary for data loss are included in 2022-23 monthly summary reports

<sup>2</sup> Commentary for exceedances are included in 2022-23 monthly summary reports.

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| EPA Point 63          |                   | Point description: Central scrubber outlet at North Head STP |                    |         |         |         |               |                  |
|-----------------------|-------------------|--|--------------------|---------|---------|---------|---------------|------------------|
| pollutant             | unit of measure   | sampling frequency   | number of samples  | minimum | average | maximum | maximum limit | % within limits* |
| chlorine gas          | mg/m <sup>3</sup> | 30 minutes   | 17518 <sup>1</sup> | <0.15   | 0.15    | 5.97    | 200           | 100%             |
| hydrogen sulphide gas | mg/m <sup>3</sup> | 30 minutes   | 17518 <sup>1</sup> | <0.075  | 0.082   | 2.13    | 5             | 100%             |

| EPA Point 66          |                   | Point description: Bio Trickleing Filter / Standby Scrubber at North Head STP |                    |         |         |         |               |                     |
|-----------------------|-------------------|---|--------------------|---------|---------|---------|---------------|---------------------|
| pollutant             | unit of measure   | sampling frequency  | number of samples  | minimum | average | maximum | maximum limit | % within limits*    |
| chlorine gas          | mg/m <sup>3</sup> | 30 minutes  | 17518 <sup>1</sup> | <0.59   | <0.59   | 1.91    | 200           | 100%                |
| hydrogen sulphide gas | mg/m <sup>3</sup> | 30 minutes  | 17518 <sup>1</sup> | <0.071  | 0.152   | 19.5    | 5             | >99.9% <sup>2</sup> |

Maximum limits for air quality are based on the Protection of the Environment Operations (Clean Air) Regulation 2010 - Schedule 4 Standards of concentration for scheduled premises: general activities and plant.

<sup>1</sup> Commentary for data loss are included in 2022-23 monthly summary reports

<sup>2</sup> Commentary for exceedances are included in 2022-23 monthly summary reports.

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| EPA Point 64    |                   | Point description: Air sampling outlet of cogeneration facility unit 1 at North Head STP |                   |                |             |                |
|-----------------|-------------------|--|-------------------|----------------|-------------|----------------|
| pollutant       | unit of measure   | sampling frequency   | number of samples | minimum result | mean result | maximum result |
| nitrogen oxides | mg/m <sup>3</sup> | yearly   | 3                 | 318            | 335         | 359            |

Yearly measurement was taken on 09-12-2022.

| EPA Point 65    |                   | Point description: Air sampling outlet of cogeneration facility unit 2 at North Head STP |                   |                |             |                |
|-----------------|-------------------|--|-------------------|----------------|-------------|----------------|
| pollutant       | unit of measure   | sampling frequency   | number of samples | minimum result | mean result | maximum result |
| nitrogen oxides | mg/m <sup>3</sup> | yearly   | 3                 | 362            | 431         | 462            |

Yearly measurement was taken on 09-12-2022.