

# North Head Water Resource Recovery Facility

## April Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-04-2024 to 30-04-2024

Date obtained: 14-05-2024

Date published: 14-05-2024

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	0.005	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	0.127	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.01	0.27	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.15	0.95	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.075	1.09	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.071	4.66	5	yes

\*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.

# North Head Water Resource Recovery Facility

## March Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-03-2024 to 31-03-2024

Date obtained: 14-05-2024

Date published: 14-05-2024

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.006	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.010	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.01	7.1	5	no <sup>2</sup>

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.15	1.45	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.075	1.39	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.071	0.82	5	yes

\*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>2</sup>EPA Point 35 exceeded the maximum limit for hydrogen sulphide gas seven times during the March period on 23/03/2024 between 13:00 and 16:30 due to fans not operating and valve closed.

# North Head Water Resource Recovery Facility

## February Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-02-2024 to 29-02-2024

Date obtained: 27-03-2024

Date published: 28-03-2024

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1392	<0.004	0.009	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1392	<0.004	0.099	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1392	<0.01	0.30	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1392	<0.15	1.95	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1392	<0.075	1.44	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1392	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1392	<0.071	0.40	5	yes

\*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.

# North Head Water Resource Recovery Facility

## January Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-01-2024 to 31-01-2024

Date obtained: 22-02-2024

Date published: 04-03-2024

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.096	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.01	0.16	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.15	1.26	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.075	1.16	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.071	2.41	5	yes

\*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.



# North Head Water Resource Recovery Facility

## December Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-12-2023 to 31-12-2023

Date obtained: 22-01-2024

Date published: 23-01-2024

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.119	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.01	0.26	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.15	0.86	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.075	2.03	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.071	0.26	5	yes

\*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.

# North Head Water Resource Recovery Facility

## November Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-11-2023 to 30-11-2023

Date obtained: 12-12-2023

Date published: 19-12-2023

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	0.012	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.01	1.16	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.15	0.61	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.075	1.93	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.071	0.42	5	yes

\*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.

# North Head Water Resource Recovery Facility

## October Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-10-2023 to 31-10-2023

Date obtained: 07-11-2023

Date published: 17-11-2023

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.004	<0.004	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.01	0.54	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.15	0.64	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.075	1.33	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1486 <sup>1</sup>	<0.071	0.17	5	yes

\*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.

1 Scheduled daylight saving changeover caused the non-existence of two data points on 01/10/2023 at 02:00 & 02:30 am.

# North Head Water Resource Recovery Facility

## September Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-09-2023 to 30-09-2023

Date obtained: 05-10-2023

Date published: 13-10-2023

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.004	<0.004	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.01	0.42	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.15	0.49	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.075	1.6	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1440	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1440	<0.071	0.81	5	yes

\*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.

# North Head Water Resource Recovery Facility

## August Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-08-2023 to 31-08-2023

Date obtained: 13-09-2023

Date published: 15-09-2023

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	<0.004	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.01	0.38	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.15	2.49	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.075	1.76	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.071	3.29	5	yes

\*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.

# North Head Water Resource Recovery Facility

## July Pollution Monitoring Summary

### Air Quality



#### EPL 378

Summary period: 01-07-2023 to 31-07-2023

Date obtained: 10-08-2023

Date published: 15-08-2023

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	<0.004	5	yes

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.004	0.009	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.01	2.93	5	yes

EPA Point 63		Point description: Central scrubber outlet at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.15	1.56	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.075	2.08	5	yes

EPA Point 66		Point description: Bio Trickle Filter / Standby Scrubber at North Head STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m <sup>3</sup>	30 minutes	1488	<0.59	<0.59	200	yes
hydrogen sulphide gas	mg/m <sup>3</sup>	30 minutes	1488	<0.071	2.69	5	yes

\*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.