

North Head Wastewater Treatment Plant

2017-18 Air quality pollution monitoring summaries



EPL 378

Summary period: 1-07-2017 to 30-06-2018

Date published: 03-10-2018

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 ¹	minimum	mean	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17421	<0.004	<0.004	0.006	5	100%

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West						
pollutant	unit of measure	sampling frequency	number of samples ²	minimum	mean	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17508	<0.004	<0.004	0.128	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 ³	minimum	average	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17518	<0.01	0.04	4.89	5	100%

*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*

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EPA Point 43		Point description: NSOOS Scrubber outlet at the North Head STP						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
chlorine gas	mg/m ³	30 minutes	17520	<0.03	0.23	13.13	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17520	<0.01	0.01	4.27	5	100%

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 ³	30 minutes	17520	<0.15	0.28	3.25	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17520	<0.075	0.03	1.885	5	100%

*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*.

¹The expected number of samples for the year was 17518. Data not available 06/03/2018 from 16:30 to 17:00 PM, 07/05/2018 at 08:00 AM, 08/06/2018 from 14:00 to 14:30 PM and from 13/06/2018 at 11:30 to 15/06/2018 at 09:00 AM.

²The expected number of samples for the year was 17518. Data not available 06/07/2017 at 17:30 PM, 02/08/2017 at 18:00 PM, 12/09/2017 at 08:30 AM, 12/09/2017 at 09:30 AM, 10/11/2017 at 08:00 to 09:00 AM, 08/12/2017 at 13:00 PM, 10/04/2018 at 13:30 PM and 07/05/2018 at 11:00 AM

³The expected number of samples for the year was 17520. Data not available 15/08/2017 from 04:30 to 05:00 AM due to power failure.

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Date obtained: 07-06-2018

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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 ³	yearly	3	398	411	424

** Report has been updated to include nitrogen oxides that was inadvertently omitted from the original report.

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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 ³	yearly	3	418	426	433

** Report has been updated to include nitrogen oxides that was inadvertently omitted from the original report.