

North Head Wastewater Treatment Plant

2019-20 Air quality pollution monitoring summaries



EPL 378

Summary period: 1-07-2019 to 30-06-2020

Date published: 10-08-2020

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 ³	30 minutes	17564 ¹	<0.004	<0.004	0.058	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 ³	30 minutes	17566	<0.004	<0.004	0.101	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 ³	30 minutes	17566 ²	<0.01	0.04	4.82	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*

¹ The expected number of samples for the year was 17566. Data not available 03/01/2020 at 09:30am and 14/10/2019 at 09:30am

² The expected number of samples for the year was 17568. NST scrubber was offline for maintenance on 04/01/2020 at 8:00pm and 8:30pm

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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 ³	30 minutes	17568	<0.15	0.99	8.55	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17568	<0.075	<0.075	1.83	5	100%

EPA Point 66		Point description: Bio Trickling 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 ³	30 minutes	17568	<0.59	<0.59	2.40	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17568	<0.071	<0.071	22.066	5	99.9% ³

*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.*

³Commentary for Point 66 exceedances are included in 2019-20 monthly summary report.

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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	373	388	402

Yearly measurement was taken on 21-05-2020.

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	433	446	464

Yearly measurement was taken on 01-05-2020.