

St Marys Advanced Water Treatment Plant



June Pollution Monitoring Summary

EPL 13210

Summary period: 01-06-2019 to 30-06-2019

Date obtained: 06-07-2019

Date published: 12-07-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	0.08	0.32

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	5	13.2	15	16.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	0.04	0.08	0.12
nitrogen (total)	mg/L	every 6 days during discharge	5	0.18	0.2	0.23
phosphorus (total)	mg/L	every 6 days during discharge	5	<0.002	<0.002	0.003

Average and percentile limits are only applied annually for routine monitoring data in Table 1

St Marys Advanced Water Treatment Plant



May Pollution Monitoring Summary

EPL 13210

Summary period: 01-05-2019 to 31-05-2019

Date obtained: 29-05-2019

Date published: 12-06-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	0.04	0.08

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	2	14.9	17	19.9
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.07	0.1	0.13
nitrogen (total)	mg/L	every 6 days during discharge	2	0.21	0.24	0.26
phosphorus (total)	mg/L	every 6 days during discharge	2	<0.002	<0.002	0.003

Average and percentile limits are only applied annually for routine monitoring data in Table 1

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April Pollution Monitoring Summary

EPL 13210

Summary period: 01-04-2019 to 30-04-2019

Date obtained: 06-05-2019

Date published: 13-05-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	5	22.5	24	24.1
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	0.08	0.1	0.14
nitrogen (total)	mg/L	every 6 days during discharge	5	0.27	0.32	0.41
phosphorus (total)	mg/L	every 6 days during discharge	5	<0.002	<0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

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March Pollution Monitoring Summary



EPL 13210

Summary period: 01-03-2019 to 31-03-2019

Date obtained: 03-04-2019

Date published: 12-04-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	1	-	-	<0.04

Average and percentile limits are only applied annually for routine monitoring data in Table 1 .

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February Pollution Monitoring Summary



EPL 13210

Summary period: 01-02-2019 to 28-02-2019

Date obtained: 06-03-2019

Date published: 15-03-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	4	19.9	24	32.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.05	0.07	0.09
nitrogen (total)	mg/L	every 6 days during discharge	4	0.23	0.28	0.36
phosphorus (total)	mg/L	every 6 days during discharge	4	0.002	0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

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January Pollution Monitoring Summary

EPL 13210

Summary period: 01-01-2019 to 31-01-2019

Date obtained: 06-02-2019

Date published: 15-02-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	<0.04	0.15

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	5	21.2	22	23.4
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	0.05	0.09	0.13
nitrogen (total)	mg/L	every 6 days during discharge	5	0.23	0.27	0.32
phosphorus (total)	mg/L	every 6 days during discharge	5	<0.002	<0.002	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

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December Pollution Monitoring Summary



EPL 13210

Summary period: 01-12-2018 to 31-12-2018

Date obtained: 07-01-2019

Date published: 11-01-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	4	18.1	21	25
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.08	0.09	0.1
nitrogen (total)	mg/L	every 6 days during discharge	4	0.21	0.24	0.29
phosphorus (total)	mg/L	every 6 days during discharge	4	<0.002	<0.002	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

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November Pollution Monitoring Summary



EPL 13210

Summary period: 01-11-2018 to 30-11-2018

Date obtained: 04-12-2018

Date published: 18-12-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	3	17.3	19	19.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.04	0.08	0.12
nitrogen (total)	mg/L	every 6 days during discharge	3	0.15	0.19	0.22
phosphorus (total)	mg/L	every 6 days during discharge	3	<0.002	<0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

St Marys Advanced Water Treatment Plant



October Pollution Monitoring Summary

EPL 13210

Summary period: 01-10-2018 to 31-10-2018

Date obtained: 06-11-2018

Date published: 16-11-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	6	17.7	19	22.1
nitrogen (ammonia)	mg/L	every 6 days during discharge	6	0.04	0.09	0.12
nitrogen (total)	mg/L	every 6 days during discharge	6	0.19	0.23	0.26
phosphorus (total)	mg/L	every 6 days during discharge	6	<0.002	<0.002	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

St Marys Advanced Water Treatment Plant

September Pollution Monitoring Summary



EPL 13210

Summary period: 01-09-2018 to 30-09-2018

Date obtained: 02-10-2018

Date published: 19-10-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	3	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	2	17	17	17.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.06	0.07	0.08
nitrogen (total)	mg/L	every 6 days during discharge	2	0.17	0.19	0.2
phosphorus (total)	mg/L	every 6 days during discharge	2	<0.002	<0.002	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

Note: Due to a data acquisition issue the September monthly report has been published 3 days following the 14 day reporting period.

St Marys Advanced Water Treatment Plant



August Pollution Monitoring Summary

EPL 13210

Summary period: 01-08-2018 to 31-08-2018

Date obtained: 06-09-2018

Date published: 20-09-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	3	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	4	17.2	18	19.8
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.04	0.08	0.11
nitrogen (total)	mg/L	every 6 days during discharge	4	0.13	0.2	0.23
phosphorus (total)	mg/L	every 6 days during discharge	4	<0.002	<0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

St Marys Advanced Water Treatment Plant



July Pollution Monitoring Summary

EPL 13210

Summary period: 01-07-2018 to 31-07-2018

Date obtained: 27-07-2018

Date published: 02-08-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	0.18	0.35

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	1	-	-	20.1
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.05
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.18
phosphorus (total)	mg/L	every 6 days during discharge	1	-	-	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1