

St Marys Advanced Water Treatment Plant



June Pollution Monitoring Summary

EPL 13210

Summary period: 01-06-2020 to 30-06-2020

Date obtained: 07-07-2020

Date published: 14-07-2020

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	0.08	0.16

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	17.6	19	20.9
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.08	0.09	0.11
nitrogen (total)	mg/L	every 6 days during discharge	3	0.2	0.22	0.24
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



May Pollution Monitoring Summary

EPL 13210

Summary period: 01-05-2020 to 31-05-2020

Date obtained: 29-05-2020

Date published: 11-06-2020

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	0.04

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	20.6	21	20.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.04	0.06	0.07
nitrogen (total)	mg/L	every 6 days during discharge	2	0.23	0.25	0.26
phosphorus (total)	mg/L	every 6 days during discharge	2	<0.002	0.003	0.005

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: 01-04-2020 to 30-04-2020

Date obtained: 30-04-2020

Date published: 14-05-2020

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	1	-	-	25.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.03
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.24
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

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March Pollution Monitoring Summary

EPL 13210

Summary period: 01-03-2020 to 31-03-2020

Date obtained: 14-04-2020

Date published: 17-04-2020

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	<0.04

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	23.8	25	25.3
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.03	0.05	0.06
nitrogen (total)	mg/L	every 6 days during discharge	3	0.23	0.24	0.26
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

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February Pollution Monitoring Summary



EPL 13210

Summary period: 01-02-2020 to 29-02-2020

Date obtained: 09-03-2020

Date published: 27-03-2020

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
Ammonia NH3-N	mg/L	every 6 days during discharge	2	0.06	0.07	0.07
conductivity	uS/cm	every 6 days during discharge	2	23.5	25	26.1
nitrogen (total)	mg/L	every 6 days during discharge	2	0.24	0.28	0.31
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

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January Pollution Monitoring Summary

EPL 13210

Summary period: 01-01-2020 to 31-01-2020

Date obtained: 06-02-2020

Date published: 20-02-2020

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	2	23.6	26	27.5
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.02	0.06	0.09
nitrogen (total)	mg/L	every 6 days during discharge	2	0.19	0.24	0.29
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

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December Pollution Monitoring Summary



EPL 13210

Summary period: 01-12-2019 to 31-12-2019

Date obtained: 07-01-2020

Date published: 10-01-2020

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	18.3	20	20.6
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.01	0.02	0.03
nitrogen (total)	mg/L	every 6 days during discharge	4	0.14	0.17	0.19
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: 01-11-2019 to 30-11-2019

Date obtained: 28-11-2019

Date published: 12-12-2019

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	<0.04

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	17.5	18	19.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.07	0.08	0.09
nitrogen (total)	mg/L	every 6 days during discharge	2	0.2	0.21	0.21
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

St Marys Advanced Water Treatment Plant



October Pollution Monitoring Summary

EPL 13210

Summary period: 01-10-2019 to 31-10-2019

Date obtained: 15-11-2019

Date published: 27-11-2019

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	0.08

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	6	18.1	19	21.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	6	0.01	0.11	0.17
nitrogen (total)	mg/L	every 6 days during discharge	6	0.18	0.22	0.28
phosphorus (total)	mg/L	every 6 days during discharge	6	<0.002	<0.002	0.004

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: 01-09-2019 to 30-09-2019

Date obtained: 27-09-2019

Date published: 08-10-2019

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	<0.04

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

St Marys Advanced Water Treatment Plant



August Pollution Monitoring Summary

EPL 13210

Summary period: 01-08-2019 to 31-08-2019

Date obtained: 04-09-2019

Date published: 16-09-2019

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	0.35	0.7

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	13.4	15	16.6
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.06	0.09	0.11
nitrogen (total)	mg/L	every 6 days during discharge	2	0.15	0.18	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

St Marys Advanced Water Treatment Plant



July Pollution Monitoring Summary

EPL 13210

Summary period: 01-07-2019 to 31-07-2019

Date obtained: 23-07-2019

Date published: 08-08-2019

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	0.1	0.38

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	11.7	13	15
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.09	0.13	0.16
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	0.002

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