

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**



Selenium, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	153	207	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	.13	.28	mg/L	Grab	1/day
	Permit Measurement	***	***			.5 Avg Mo	1.0 IMAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	<.010	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	17	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***			200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3248	3465	lbs/day	***	3	3	mg/L	24-Hr Composite	1/day
	Permit Measurement	19800 Avg Mo	29700 Wkly Avg		***	25 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	10669	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	35830 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.00	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	98	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 07/01/2017
 DMR Effective To: 07/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	07	01	TO	2017	07	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	***	***	***	***	***	***	S.U.	Grab	Daily when Discharging
	Permit Measurement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX			
Flow	Sample Measurement	***	***	MGD	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Fecal Coliform	Sample Measurement	***	***	***	***	***	***	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	***	***		***	***	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	***	***	minutes	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
SWCSO 201707.xls	CSO Detailed Outfall Report Form	2017-08-24T11:05:52-04:00	
201707SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2017-08-24T11:06:30-04:00	
SW Fecal Coliform Daily (08-21-2017).pdf	Laboratory Accreditation Form	2017-08-24T11:07:23-04:00	
SW NPDES Cyanide Monthly Grab (08-21-2017).pdf	Laboratory Accreditation Form	2017-08-24T11:07:55-04:00	
SW Outfall Monthly Composite 1&2 (08-21-2017).pdf	Laboratory Accreditation Form	2017-08-24T11:08:20-04:00	
BLSSW201707.xls	Nutrient Monitoring Form	2017-08-24T11:04:49-04:00	
E-NPDES SW-201707.xls	Daily Effluent Monitoring Form	2017-08-24T11:03:54-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	2017	8	24
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JULY 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	Biosolids Recycle Center / Synagro From NEWPCP			Biosolids Recycle Center / Synagro From SWWPCP		
	MGD	MGD		MGD	MGD	
07/01/2017	0.890	1.102	114	0.945	1.011	157.9
07/02/2017	0.877	0.585	64	1.622	1.410	126.7
07/03/2017	0.891	0.894	91	0.327	0.085	5.5
07/04/2017	0.000	0.289	27	2.090	1.766	124.5
07/05/2017	0.893	0.824	80	0.415	0.297	24.7
07/06/2017	0.903	1.018	109	0.904	0.767	70.2
07/07/2017	0.000	0.000	0	1.060	0.707	62.2
07/08/2017	0.911	0.856	84	1.557	1.170	100.3
07/09/2017	0.891	0.899	84	0.810	0.751	70.2
07/10/2017	0.000	0.000	0	0.887	0.805	74.9
07/11/2017	0.917	0.482	51	0.981	0.728	73.5
07/12/2017	0.000	0.173	17	0.884	0.708	59.3
07/13/2017	0.914	0.978	92	0.916	0.638	55.3
07/14/2017	0.902	1.081	110	0.902	0.888	76.6
07/15/2017	0.000	0.000	0	0.992	0.905	82.8
07/16/2017	1.184	1.211	128	0.809	0.510	42.2
07/17/2017	0.619	0.609	64	0.787	0.546	64.6
07/18/2017	0.886	0.506	50	1.365	1.125	103.7
07/19/2017	0.909	0.896	93	0.824	0.689	66.2
07/20/2017	0.912	0.672	73	0.903	0.752	65.6
07/21/2017	0.000	0.619	70	1.055	0.840	72.7
07/22/2017	0.883	0.896	93	0.934	0.589	50.8
07/23/2017	0.000	0.000	0	0.994	0.814	76.0
07/24/2017	0.937	0.077	8	0.043	0.000	0.0
07/25/2017	0.885	0.799	81	0.001	0.000	0.0
07/26/2017	0.000	0.833	73	1.825	1.574	192.3
07/27/2017	0.862	0.932	80	0.961	0.754	59.7
07/28/2017	0.908	0.798	76	0.939	0.836	61.1
07/29/2017	0.912	0.672	58	1.261	1.102	115.1
07/30/2017	0.000	0.346	39	1.153	0.911	78.9
07/31/2017	0.923	0.112	11	1.013	0.793	86.0
TOTAL	19.810	19.161	1,923	30.156	24.469	2,299
AVERAGE	0.639	0.618	62	0.973	0.789	74

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Fecal Coliform Daily

Report Date: 08/21/2017

WW170712-024

Grab 07/12/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			7/13/2017	8:09	47.4	MPN/100 mL	<1.0	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.716. The maximum acceptable PCV is 0.556. The measured results were 5.2 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

WW170715-023

Grab 07/15/2017 06:40

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantitray			7/16/2017	7:35	23.8	MPN/100 mL	<1.0	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.612. The maximum acceptable PCV is 0.556. The measured results were 4.1 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2017

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW - NPDES Cyanide Monthly Grab

Report Date: 08/21/2017

WW170712-042

Grab 07/12/2017 06:45

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Cyanide Total ^{B,D}	EPA 335.4	7/19/2017	8:40	7/20/2017	12:29	<0.010 ^E	mg/L	0.010	mg/L

Data Qualifiers:

Cyanide Total	Laboratory Fortified Matrix (LFM) recovery is 0%. Acceptance limits are 90 to 110%.
---------------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: John Consolvo
Title: Laboratory Manager
Date: 8/21/2017

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Oufall Monthly Composite 1 & 2

Report Date: 08/21/2017

WW170712-031

Composite 24h 07/12/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrite	EPA 300.0 rev 2.1			7/13/2017	2:47	1.41	mg/L as N	0.05	mg/L as N

Data Qualifiers:

Nitrite	Laboratory Fortified Matrix (LFM) recovery is 88%. Acceptance limits are 90 to 110%.
---------	--

WW170713-026

Composite 24h 07/13/2017 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Phenols ^{B,D}	EPA 420.4			7/23/2017	16:45	<0.030 ^E	mg/L	0.030	mg/L

Data Qualifiers:

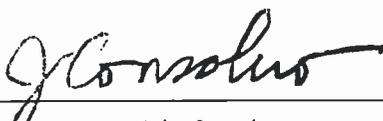
Phenols	Laboratory Fortified Matrix (LFM) recovery is 111%. Acceptance limits are 90 to 110%.
---------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2017



Debra A. McCarty, Water Commissioner

September 28, 2017

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for August 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 08/01/2017-08/31/2017

Report Due Date: 09/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 68836

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for August 2017

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - AUGUST 2017 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
S 07/30/2017	139	169	3	98	3,478		76	2	97.36		2,319			
M 07/31/2017	138	173	4	98	4,604		74	2	97.29		2,302			
T 08/01/2017	134	202	4	98	4,470		105	4	96.19		4,470		11	
W 08/02/2017	189	261	5	98	7,881		88	5	94.32		7,881			
Th 08/03/2017	142	143	3	98	3,553		82	4	95.15		4,737		11	
F 08/04/2017	158	99	7	93	9,224		66	3	95.48		3,953			
S 08/05/2017	188	135	4	97	6,272		60	3	95.02		4,704			
Su 08/06/2017	146	94	3	97	3,653		84	4	95.22		4,871			
M 08/07/2017	237	122	7	94	13,836		81	4	95.05		7,906		13	
T 08/08/2017	147	99	4	96	4,904		76	5	93.40		6,130			
W 08/09/2017	140	102	5	95	5,838		71	4	94.33		4,670			
Th 08/10/2017	138	147	4	97	4,604		83	2	97.60		2,302			
F 08/11/2017	144	206	5	98	6,005		112	<	2	98.21	2,402			
S 08/12/2017	144	157	4	97	4,804		91	4	95.60		4,804			
Su 08/13/2017	135	179	3	98	3,378		84	3	96.42		3,378			
M 08/14/2017	132	140	4	97	4,404		87	3	96.55		3,303		9	
T 08/15/2017	163	117	4	97	5,438		77	2	97.42		2,719			
W 08/16/2017	134	194	3	98	3,353		89	2	97.75		2,235		9	
Th 08/17/2017	130	129	4	97	4,337		93	2	97.85		2,168			
F 08/18/2017	168	142	4	97	5,604		96	4	95.83		5,604			
S 08/19/2017	137	212	3	99	3,428		101	3	97.03		3,428			
Su 08/20/2017	130	133	3	98	3,253		101	2	98.02		2,168			
M 08/21/2017	134	186	5	97	5,588		74	<	2	97.31	2,235		8	
T 08/22/2017	178	234	3	99	4,454		87	2	97.70		2,969			
W 08/23/2017	148	110	4	96	4,937		79	<	2	97.48	2,469		8	
Th 08/24/2017	131	161	2	99	2,185		103	<	2	98.07	2,185			
F 08/25/2017	127	233	4	98	4,237		107	4	96.26		4,237			
S 08/26/2017	122	164	3	98	3,052		98	4	95.92		4,070			
Su 08/27/2017	128	137	5	96	5,338		93	<	2	97.84	2,135			
M 08/28/2017	125	158	3	98	3,128		83	3	96.41		3,128		10	
T 08/29/2017	217	163	4	98	7,239		82	4	95.13		7,239			
W 08/30/2017	130	179	5	97	5,421		104	<	2	98.07	2,168		8	
Th 08/31/2017	132	236	3	99	3,303		102	4	96.08		4,404			

TOTAL	4,608	4,973	124				2,740	96					
AVERAGE	149	160	4	97	5,068		88	3	96.41		3,906		10

Wk1	155	169	4		5,640		79	3			4,338		
Wk2	157	132	5		6,235		85	4			4,726		
Wk3	143	159	4		4,277		90	3			3,262		
Wk4	139	175	3		3,958		93	3			2,905		

MAX 237

CBOD 20 LBS---- 12,099

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - AUGUST 2017
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
T 08/01/2017	134	7.1	3.9	0.15	3
W 08/02/2017	189	7.0	4.0	0.23	8
Th 08/03/2017	142	6.9	4.1	0.19	12
F 08/04/2017	158	7.0	3.8	0.22	12
S 08/05/2017	188	7.0	4.9	0.27	120
Su 08/06/2017	146	7.0	4.0	0.23	6
M 08/07/2017	237	6.9	4.3	0.14	11
T 08/08/2017	147	6.8	3.9	0.16	21
W 08/09/2017	140	7.0	2.9	0.11	157
Th 08/10/2017	138	7.0	2.3	0.09	190
F 08/11/2017	144	7.0	5.0	0.08	9
S 08/12/2017	144	6.9	5.3	0.10	14
Su 08/13/2017	135	6.7	5.2	0.11	6
M 08/14/2017	132	7.0	3.2	0.07	10
T 08/15/2017	163	7.1	3.8	0.05	9
W 08/16/2017	134	6.9	4.1	0.13	7
Th 08/17/2017	130	6.9	4.0	0.12	7
F 08/18/2017	168	7.0	4.7	0.20	11
S 08/19/2017	137	7.0	4.3	0.25	29
Su 08/20/2017	130	6.9	4.7	0.21	19
M 08/21/2017	134	7.1	4.1	0.09	6
T 08/22/2017	178	7.0	4.3	0.11	6
W 08/23/2017	148	6.9	3.5	0.15	34
Th 08/24/2017	131	6.9	5.4	0.12	10
F 08/25/2017	127	6.9	5.7	0.09	15
S 08/26/2017	122	7.0	5.6	0.15	3
Su 08/27/2017	128	6.9	5.7	0.10	5
M 08/28/2017	125	6.9	3.4	0.06	13
T 08/29/2017	217	6.9	4.3	0.06	3
W 08/30/2017	130	7.0	4.3	0.18	5
Th 08/31/2017	132	6.9	4.9	0.18	3
Total	4,608	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	149	6.7 7.1	2.3 4.3	0.14 0.27	11

Wk1 155
Wk2 157
Wk3 143
Wk4 139

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - AUGUST 2017

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
08/01/2017	17	105	188	204	202	140	100	105
08/02/2017	18	151	232	264	261	146	82	88
08/03/2017	18	111	160	140	143	127	76	82
08/04/2017	20	124	92	100	99	110	60	66
08/05/2017	21	151	192	128	135	102	55	60
08/06/2017	18	116	196	80	94	145	75	84
08/07/2017	24	196	208	112	122	124	76	81
08/08/2017	19	119	116	96	99	121	69	76
08/09/2017	18	112	140	96	102	101	66	71
08/10/2017	18	111	192	140	147	139	75	83
08/11/2017	18	115	188	208	206	117	111	112
08/12/2017	18	117	188	152	157	126	86	91
08/13/2017	18	108	200	176	179	148	74	84
08/14/2017	18	106	168	136	140	137	79	87
08/15/2017	18	135	160	112	117	121	72	77
08/16/2017	18	107	180	196	194	126	83	89
08/17/2017	17	105	188	120	129	133	87	93
08/18/2017	19	137	224	132	142	134	91	96
08/19/2017	18	110	160	220	212	134	96	101
08/20/2017	17	103	168	128	133	168	91	101
08/21/2017	17	108	224	180	186	125	67	74
08/22/2017	26	133	244	232	234	116	82	87
08/23/2017	20	117	148	104	110	100	76	79
08/24/2017	18	105	196	156	161	125	100	103
08/25/2017	18	101	216	236	233	155	99	107
08/26/2017	17	96	192	160	164	166	87	98
08/27/2017	18	101	216	124	137	151	83	93
08/28/2017	18	100	192	152	158	122	77	83
08/29/2017	22	180	152	164	163	154	74	82
08/30/2017	18	103	176	180	179	151	96	104
08/31/2017	18	104	184	244	236	159	93	102
AVG	19	119	183	157	160	133	82	88

PERMIT

SWWPCP - AUGUST 2017

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
08/01/2017	126	156	130	14	89%
08/02/2017		180			
08/03/2017	78	169	90	8	91%
08/04/2017		121			
08/05/2017		115			
08/06/2017		180			
08/07/2017	118	149	121	17	86%
08/08/2017		136			
08/09/2017	74	116	79	16	80%
08/10/2017		168			
08/11/2017		154			
08/12/2017		156			
08/13/2017		173			
08/14/2017	117	178	125	17	86%
08/15/2017		135			
08/16/2017	95	156	103	11	89%
08/17/2017		182			
08/18/2017		181			
08/19/2017		178			
08/20/2017		177			
08/21/2017	80	142	88	12	86%
08/22/2017		122			
08/23/2017	87	154	96	16	83%
08/24/2017		188			
08/25/2017		175			
08/26/2017		180			
08/27/2017		162			
08/28/2017	95	138	101	14	86%
08/29/2017		149			
08/30/2017	132	182	139	17	88%
08/31/2017		195			
AVG	100	160	107	14	87%

DESIGN - 200 MGD

DATE	SWWPCP - AUGUST 2017					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
08/01/2017	17	105	12	134	164	
08/02/2017	18	151	20	189	318	1.37
08/03/2017	18	111	13	142	175	T
08/04/2017	20	124	14	158	391	
08/05/2017	21	151	16	188	339	0.84
08/06/2017	18	116	12	146	179	
08/07/2017	24	196	17	237	394	0.54
08/08/2017	19	119	9	147	163	
08/09/2017	18	112	10	140	158	
08/10/2017	18	111	9	138	166	T
08/11/2017	18	115	11	144	224	0.04
08/12/2017	18	117	9	144	188	0.06
08/13/2017	18	108	9	135	158	
08/14/2017	18	106	8	132	158	T
08/15/2017	18	135	10	163	278	0.14
08/16/2017	18	107	9	134	161	
08/17/2017	17	105	8	130	155	
08/18/2017	19	137	12	168	328	0.16
08/19/2017	18	110	9	137	165	
08/20/2017	17	103	10	130	160	
08/21/2017	17	108	9	134	169	
08/22/2017	26	133	19	178	428	2.06
08/23/2017	20	117	11	148	169	0.10
08/24/2017	18	105	8	131	169	
08/25/2017	18	101	8	127	152	T
08/26/2017	17	96	9	122	150	
08/27/2017	18	101	9	128	146	
08/28/2017	18	100	7	125	150	
08/29/2017	22	180	15	217	382	0.74
08/30/2017	18	103	9	130	157	
08/31/2017	18	104	10	132	155	
TOTAL	580	3,687	341	4,608		6.05
AVG	19	119	11	149		
			MIN	122	146	
			MAX	237	428	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reorting Frequency: Monthly
 DMR Effective From: 08/01/2017
 DMR Effective To: 08/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2017	08	01	FROM	2017	08	31
			TO			

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	2.3	4.3	***	mg/L	Grab	1/day
	Permit Measurement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.7	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***		6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	5068	6235	lbs/day	***	4	5	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	16.00	18.90	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite an N	Sample Measurement	***	***	***	***	1.571	1.930	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	.792	1.130	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	17.90	20.60	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.480	.924	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0032	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.020	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0120	***	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0720	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	<.0250	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**



Selenium, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	149	237	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	.14	.27	mg/L	Grab	1/day
	Permit Measurement	***	***			.5 Avg Mo	1.0 IMAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	<.010	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	11	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***			200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3906	4726	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	19800 Avg Mo	29700 Wkly Avg		***	25 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	12099	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	35830 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	96.41	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	97	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

101
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 08/01/2017
 DMR Effective To: 08/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	08	01	TO	2017	08	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	***	***	***	***	***	***	S.U.	Grab	Daily when Discharging
	Permit Measurement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX			
Flow	Sample Measurement	***	***	MGD	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Fecal Coliform	Sample Measurement	***	***	***	***	***	***	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	***	***		***	***	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	***	***	minutes	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201708.xls	Daily Effluent Monitoring Form	2017-09-27T15:57:59-04:00	
201708SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2017-09-27T15:59:26-04:00	
SE WET Testing Composite (09-22-2017).pdf	Laboratory Accreditation Form	2017-09-27T15:59:58-04:00	
SWCSO 201708.xls	CSO Detailed Outfall Report Form	2017-09-27T15:58:58-04:00	
BLSSW201708.xls	Nutrient Monitoring Form	2017-09-27T15:58:31-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	2017	9	27
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF AUGUST 2017

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
08/02/2017	1.930	0.899	18.90	20.60	0.196
08/09/2017	1.750	1.130	14.80	16.50	0.368
08/16/2017	0.954	0.696	16.70	18.50	0.924
08/23/2017	1.710	0.623	16.60	19.10	0.537
08/30/2017	1.510	0.611	13.00	14.80	0.374
AVG	1.571	0.792	16.00	17.90	0.480
MAX	1.930	1.130	18.90	20.60	0.924

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
08/03/2017	< 0.010	< 0.020

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	08/02/2017
Copper	0.0120
Iron	0.3790
Iron Dissolved	0.0720
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	08/07/2017
1,2-Dichloroethane	< 0.0025
Chloroform	0.0032
Tetrachloroethylene	< 0.0025
Trichloroethylene	< 0.0025

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
AUGUST 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro From SWWPCP		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro From SWWPCP	
	MGD	MGD		MGD	MGD	
08/01/2017	0.942	1.394	176	0.517	0.398	46.9
08/02/2017	0.892	0.801	81	1.842	1.665	198.3
08/03/2017	0.000	0.388	39	1.108	1.033	126.1
08/04/2017	0.891	0.667	68	0.523	0.195	18.4
08/05/2017	0.911	0.857	91	0.000	0.000	0.0
08/06/2017	0.890	1.082	148	0.583	0.319	35.2
08/07/2017	0.000	0.191	17	1.118	0.999	100.9
08/08/2017	0.900	0.901	85	1.246	0.945	90.4
08/09/2017	0.931	0.930	112	1.419	1.250	139.4
08/10/2017	0.888	0.839	72	1.460	1.177	134.8
08/11/2017	0.923	0.959	82	0.892	0.785	86.8
08/12/2017	0.000	0.000	0	1.125	0.783	86.7
08/13/2017	0.905	0.942	106	1.045	0.647	63.9
08/14/2017	0.000	0.028	3	1.059	0.740	87.3
08/15/2017	0.300	0.309	33	1.185	0.864	81.4
08/16/2017	0.911	0.856	87	0.654	0.366	39.6
08/17/2017	0.596	0.573	56	1.097	0.878	95.3
08/18/2017	0.901	0.786	66	1.019	0.916	106.8
08/19/2017	0.898	0.920	92	1.137	1.032	159.2
08/20/2017	0.917	0.867	84	0.881	0.856	132.8
08/21/2017	0.901	0.708	69	0.640	0.487	72.8
08/22/2017	0.917	0.513	53	0.592	0.450	51.5
08/23/2017	0.000	0.679	61	0.361	0.243	25.3
08/24/2017	0.914	0.460	54	0.613	0.387	44.2
08/25/2017	0.891	0.763	95	1.082	0.772	88.2
08/26/2017	0.911	1.203	148	0.827	0.595	59.7
08/27/2017	0.897	1.049	120	0.880	0.621	71.0
08/28/2017	0.910	0.333	30	1.101	0.842	114.3
08/29/2017	0.000	0.220	23	0.492	0.308	26.2
08/30/2017	0.890	0.542	43	1.114	0.900	101.6
08/31/2017	0.000	0.865	80	0.937	0.954	107.1
TOTAL	20.826	21.628	2,272	28.547	22.405	2,592
AVERAGE	0.672	0.698	73	0.921	0.723	84

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite

Report Date: 09/21/2017

WW170807-018

Composite 24h 08/07/2017 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD20	SM 5210 B	8/8/2017	9:30	8/28/2017	10:00	13	mg/L	2	mg/L

Data Qualifiers:

CBOD20	The 20-day reading was made on the 21st day following the initial reading. The 20-day reading should have been made on 8/28/17 but was not made until 8/29/17.
--------	--

WW170823-018

Composite 24h 08/23/2017 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD20	SM 5210 B	8/24/2017	9:30	9/13/2017	9:00	8	mg/L	2	mg/L

Data Qualifiers:

CBOD20	The oxygen demand of the laboratory reagent blank (LRB) exceeded method specifications for the 5-day reading. The concentration in the blank was 0.21 mg/L. The maximum acceptable concentration in the blank is 0.20 mg/L.
--------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name: Gary Burlingame
 Title: Laboratory Director
 Date: 9/21/2017



Debra A. McCarty, Water Commissioner

October 27, 2017

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for September 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 09/01/2017-09/30/2017

Report Due Date: 10/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 72423

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for September 2017

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - SEPTEMBER 2017 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
F	09/01/2017	132	201	3	99	3,303		118	2	98.30		2,202		
S	09/02/2017	177	167	5	97	7,381		74	2	97.31		2,952		
Su	09/03/2017	130	148	4	97	4,337		85	< 2	97.65		2,168		
M	09/04/2017	129	59	2	97	2,152		90	2	97.79		2,152		10
T	09/05/2017	137	187	5	97	5,713		100	3	96.99		3,428		
W	09/06/2017	207	211	3	99	5,179		88	3	96.60		5,179		9
Th	09/07/2017	136	167	3	98	3,403		101	3	97.02		3,403		
F	09/08/2017	130	132	2	98	2,168		90	< 2	97.77		2,168		
S	09/09/2017	128	218	3	99	3,203		99	< 2	97.99		2,135		
Su	09/10/2017	133	147	3	98	3,328		117	< 2	98.29		2,219		
M	09/11/2017	131	165	4	98	4,370		112	1	99.11		1,093		10
T	09/12/2017	124	146	3	98	3,102		137	2	98.54		2,068		
W	09/13/2017	139	190	5	97	5,796		170	< 2	98.82		2,319		10
Th	09/14/2017	130	235	4	98	4,337		114	3	97.38		3,253		
F	09/15/2017	126	147	3	98	3,153		93	< 2	97.86		2,102		9
S	09/16/2017	141	141	4	97	4,704		114	3	97.38		3,528		
Su	09/17/2017	130	138	4	97	4,337		136	3	97.79		3,253		
M	09/18/2017	126	212	5	98	5,254		123	2	98.37		2,102		10
T	09/19/2017	136	189	3	98	3,403		99	4	95.97		4,537		
W	09/20/2017	130	130	3	98	3,253		130	3	97.70		3,253		9
Th	09/21/2017	127	267	4	99	4,237		120	< 2	98.34		2,118		
F	09/22/2017	128	113	4	96	4,270		127	2	98.43		2,135		
S	09/23/2017	123	165	3	98	3,077		127	3	97.63		3,077		
Su	09/24/2017	128	123	3	98	3,203		136	2	98.52		2,135		
M	09/25/2017	127	225	6	97	6,355		213	2	99.06		2,118		9
T	09/26/2017	128	247	6	98	6,405		103	3	97.07		3,203		
W	09/27/2017	131	213	6	97	6,555		103	< 2	98.06		2,185		6
Th	09/28/2017	128	NS	5	NS	5,354		NS	< 2	NS		2,142		
F	09/29/2017	126	223	3	99	3,165		99	2	97.99		2,110		
S	09/30/2017	125	191	3	98	3,116		133	< 2	98.50		2,077		

TOTAL	4,023	5,096	114					3,351	70					
AVERAGE	134	176	4	98		4,254		116	2	97.87		2,627		9

Wk1	142	160	3			3,736		93	2			2,948		
Wk2	132	167	4			4,113		123	2			2,369		
Wk3	129	173	4			3,976		123	3			2,925		
Wk4	128	204	5			4,879		131	2			2,281		

MAX 207

CBOD 20 LBS---- 10,455

NPDES/ LIMIT	MO WK	<30 <45	>85	<50,400 <75,060	<25 <40	>89.25	<19,800 <29,700
					CBOD 20 MO LIMIT----		<35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - SEPTEMBER 2017
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 09/01/2017	132	6.9	4.6	0.20	9
S 09/02/2017	177	7.1	4.9	0.14	66
Su 09/03/2017	130	7.0	4.5	0.20	20
M 09/04/2017	129	7.0	4.6	0.11	13
T 09/05/2017	137	6.9	4.8	0.16	13
W 09/06/2017	207	6.8	4.6	0.16	10
Th 09/07/2017	136	7.0	4.5	0.21	17
F 09/08/2017	130	7.1	4.0	0.07	17
S 09/09/2017	128	7.0	2.7	0.05	35
Su 09/10/2017	133	6.9	4.9	0.05	5
M 09/11/2017	131	6.8	5.5	0.06	2
T 09/12/2017	124	6.9	4.9	0.10	5
W 09/13/2017	139	6.8	4.1	0.12	4
Th 09/14/2017	130	6.9	4.3	0.11	6
F 09/15/2017	126	7.1	4.3	0.11	4
S 09/16/2017	141	7.0	4.2	0.10	5
Su 09/17/2017	130	7.0	3.8	0.11	124
M 09/18/2017	126	7.0	3.8	0.11	58
T 09/19/2017	136	6.9	3.2	0.09	19
W 09/20/2017	130	6.8	2.8	0.10	37
Th 09/21/2017	127	6.8	3.1	0.06	10
F 09/22/2017	128	6.9	5.4	0.06	9
S 09/23/2017	123	7.0	5.3	0.06	3
Su 09/24/2017	128	7.0	5.3	0.06	13
M 09/25/2017	127	6.8	5.2	0.06	15
T 09/26/2017	128	6.9	2.9	0.05	192
W 09/27/2017	131	7.0	4.0	0.07	34
Th 09/28/2017	128	6.9	4.5	0.09	2
F 09/29/2017	126	7.0	4.1	0.09	5
S 09/30/2017	125	7.1	5.0	0.13	6
Total	4,023	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	134	6.8 7.1	2.7 4.3	0.10 0.21	12

Wk1 142
Wk2 132
Wk3 129
Wk4 128

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - SEPTEMBER 2017

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
09/01/2017	18	102	236	196	201	173	109	118
09/02/2017	19	144	228	160	167	128	68	74
09/03/2017	18	102	220	136	148	122	79	85
09/04/2017	18	100	104	52	59	148	81	90
09/05/2017	18	109	204	184	187	150	92	100
09/06/2017	22	166	236	208	211	158	80	88
09/07/2017	19	103	232	156	167	147	93	101
09/08/2017	18	99	180	124	132	132	83	90
09/09/2017	18	97	232	216	218	145	92	99
09/10/2017	18	99	216	136	147	155	111	117
09/11/2017	18	100	168	164	165	158	105	112
09/12/2017	17	98	160	144	146	178	130	137
09/13/2017	18	110	228	184	190	191	167	170
09/14/2017	18	101	232	236	235	173	105	114
09/15/2017	17	100	192	140	147	141	86	93
09/16/2017	19	107	224	128	141	168	106	114
09/17/2017	18	100	172	132	138	183	128	136
09/18/2017	17	100	240	208	212	178	114	123
09/19/2017	18	107	172	192	189	154	91	99
09/20/2017	17	101	200	120	130	172	124	130
09/21/2017	17	100	236	272	267	167	113	120
09/22/2017	17	100	168	104	113	186	118	127
09/23/2017	17	95	220	156	165	192	116	127
09/24/2017	17	101	168	116	123	178	129	136
09/25/2017	17	99	232	224	225	182	122	213
09/26/2017	17	100	244	248	247	158	94	103
09/27/2017	17	103	244	208	213	164	94	103
09/28/2017	17	98	236	N/S	NS	157	NS	NS
09/29/2017	17	98	216	224	223	172	88	99
09/30/2017	16	96	208	188	191	210	122	133
AVG	18	105	208	171	176	164	105	116

PERMIT

SWWPCP - SEPTEMBER 2017

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
09/01/2017		197			
09/02/2017		136			
09/03/2017		159			
09/04/2017	119	173	127	20	84%
09/05/2017		183			
09/06/2017	117	184	124	16	87%
09/07/2017		162			
09/08/2017		155			
09/09/2017		150			
09/10/2017		171			
09/11/2017	142	194	149	32	79%
09/12/2017		186			
09/13/2017	127	206	137	24	83%
09/14/2017		197			
09/15/2017		165			
09/16/2017		177			
09/17/2017		206			
09/18/2017	137	201	146	15	90%
09/19/2017		172			
09/20/2017	137	189	144	17	88%
09/21/2017		178			
09/22/2017		195			
09/23/2017		223			
09/24/2017		187			
09/25/2017	140	215	150	21	86%
09/26/2017		191			
09/27/2017	139	186	145	17	88%
09/28/2017		184			
09/29/2017		182			
09/30/2017		221			
AVG	132	184	140	20	86%

DESIGN - 200 MGD

DATE	SWWPCP - SEPTEMBER 2017					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
09/01/2017	18	102	12	132	157	
09/02/2017	19	144	14	177	299	0.48
09/03/2017	18	102	10	130	160	0.01
09/04/2017	18	100	11	129	159	
09/05/2017	18	109	10	137	205	0.11
09/06/2017	22	166	19	207	334	0.54
09/07/2017	19	103	14	136	191	0.03
09/08/2017	18	99	13	130	155	
09/09/2017	18	97	13	128	182	
09/10/2017	18	99	16	133	185	
09/11/2017	18	100	13	131	154	
09/12/2017	17	98	9	124	150	
09/13/2017	18	110	11	139	231	0.04
09/14/2017	18	101	11	130	158	
09/15/2017	17	100	9	126	158	
09/16/2017	19	107	15	141	242	2.58
09/17/2017	18	100	12	130	158	
09/18/2017	17	100	9	126	149	
09/19/2017	18	107	11	136	194	0.07
09/20/2017	17	101	12	130	152	
09/21/2017	17	100	10	127	147	
09/22/2017	17	100	11	128	146	
09/23/2017	17	95	11	123	154	
09/24/2017	17	101	10	128	160	
09/25/2017	17	99	11	127	155	
09/26/2017	17	100	11	128	153	
09/27/2017	17	103	11	131	156	
09/28/2017	17	98	13	128	161	
09/29/2017	17	98	11	126	152	
09/30/2017	16	96	13	125	150	T
TOTAL	532	3,135	356	4,023		3.86
AVG	18	105	12	134		
			MIN	123	146	
			MAX	207	334	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **09/01/2017**
 DMR Effective To: **09/30/2017**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge? **No**

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2017	09	01	FROM	2017	09	30
			TO			

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	2.7	4.3	***	mg/L	Grab	1/day
	Permit Measurement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***		6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	4254	4879	lbs/day	***	4	5	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	23.43	27.20	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite an N	Sample Measurement	***	***	***	***	1.585	2.270	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	.779	1.310	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	23.80	28.00	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.329	.400	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0029	***	mg/L	Grab	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.010	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0070	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.1027	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	<.0250	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**



Selenium, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	134	207	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	.10	.21	mg/L	Grab	1/day
	Permit Measurement	***	***			.5 Avg Mo	1.0 IMAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	<.020	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	3/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	3/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	12	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***			200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	2627	2948	lbs/day	***	2	3	mg/L	24-Hr Composite	1/day
	Permit Measurement	19800 Avg Mo	29700 Wkly Avg		***	25 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	10455	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	35830 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.85	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	98	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

101
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2017
 DMR Effective To: 09/30/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	09	01	TO	2017	09	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	***	***	***	***	***	***	S.U.	Grab	Daily when Discharging
	Permit Measurement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX			
Flow	Sample Measurement	***	***	MGD	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Fecal Coliform	Sample Measurement	***	***	***	***	***	***	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	***	***		***	***	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	***	***	minutes	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201709.xls	Daily Effluent Monitoring Form	2017-10-25T13:34:36-04:00	
SW WET Testing Composite (10-25-2017).pdf	Laboratory Accreditation Form	2017-10-27T09:53:34-04:00	
SW Fecal Coliform Daily (10-25-2017).pdf	Laboratory Accreditation Form	2017-10-27T09:52:22-04:00	
SW WW NPDES Weekly (10-25-2017).pdf	Laboratory Accreditation Form	2017-10-27T09:52:54-04:00	
BLSSW201709.xls	Nutrient Monitoring Form	2017-10-25T13:35:05-04:00	
201709SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2017-10-25T13:36:41-04:00	
SWCSO 201709.xls	CSO Detailed Outfall Report Form	2017-10-25T13:36:02-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please note, there is no influent sample data for CBOD 5 and TSS on the 28th of the month due to the failure of the automatic sampler which was corrected. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	2017	10	27
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES
Southwest Water Pollution Control Plant
 NPDES SUMMARY FOR THE MONTH OF SEPTEMBER

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
09/06/2017	2.270	1.310	20.50	20.70	0.307
09/11/2017	1.850	0.832	23.40	24.10	0.228
09/13/2017	1.390	0.687	22.00	25.30	0.316
09/15/2017	1.210	0.605	27.20	28.00	0.400
09/20/2017	1.530	0.670	20.70	20.30	0.356
09/27/2017	1.260	0.567	26.80	24.40	0.366
AVG	1.585 <	0.779	23.43	23.80	0.329
MAX	2.270 <	1.310	27.20	28.00	0.400

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
06/12/2017	< 0.020 <	0.010
06/14/2017	< 0.020 <	0.010
06/16/2017	< 0.020 <	0.010
AVG	< 0.020 <	0.010

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	09/11/2017	09/13/17	09/15/17	AVG
Copper	0.0070	0.0070	0.0070	0.0070
Iron Total	0.2180	0.2630	0.3260	0.2690
Iron Dissolved	0.1020	0.1070	0.0990	0.1027
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0040	0.0040	0.0040	0.0040
Selenium	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Zinc	< 0.0250 <	0.0250 <	0.0250	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	9/10/2017	9/11/2017	9/12/2017	9/13/2017	9/14/2017	9/15/2017	AVG
1,2-Dichloroethane	< 0.0025	<	0.0025	<	0.0025	<	0.0025
alpha-Endosulfan		0.0000200		0.0000100	<	0.0000095	< 0.0000132
Benzidine	<	0.0570	<	0.0570	<	0.0570	< 0.0570
beta-BHC	<	0.0000094	<	0.0000095	<	0.0000095	< 0.0000095
Chlordane	<	0.0004700	<	0.0004800	<	0.0004700	< 0.0004733
Chloroform	0.0032		0.0028		0.0027		0.0029
Dieldrin	<	0.0000190		0.0000190	<	0.0000190	< 0.0000190
Heptachlor	<	0.0000094		0.0000095	<	0.0000095	< 0.0000095
Lindane (Gamma-BHC)	<	0.0000094	<	0.0000095	<	0.0000095	< 0.0000095
p,p'-DDD	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
p,p'-DDE	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
p,p'-DDT	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
Tetrachloroethylene	< 0.0025	<	0.0025	<	0.0025	<	0.0025
Trichloroethylene	< 0.0025	<	0.0025	<	0.0025	<	0.0025

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

9/15/2017

Toxicity, Ceriodaphnia acute	<	1
Toxicity, Ceriodaphnia chronic		2
Toxicity, Pimphales acute	<	1
Toxicity, Pimphales chronic		2

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
SEPT 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD		MGD	MGD	
09/01/2017	0.903	0.931	83	1.480	1.422	143.9
09/02/2017	0.909	0.456	42	1.272	0.998	98.7
09/03/2017	2.115	2.166	280	0.341	0.184	20.4
09/04/2017	0.000	0.406	37	2.097	1.750	141.5
09/05/2017	0.907	0.477	43	0.000	0.000	0.0
09/06/2017	0.928	0.606	76	1.925	1.710	157.3
09/07/2017	0.895	1.138	109	1.208	0.918	95.6
09/08/2017	0.000	0.585	56	1.633	1.394	136.3
09/09/2017	0.923	0.855	86	1.396	1.079	137.8
09/10/2017	0.908	0.825	90	1.107	0.806	80.4
09/11/2017	0.902	0.888	94	1.225	0.927	124.0
09/12/2017	0.906	0.403	39	0.719	0.498	59.1
09/13/2017	0.901	1.380	133	0.000	0.000	0.0
09/14/2017	0.892	1.071	126	1.121	1.054	108.9
09/15/2017	0.000	0.000	0	1.448	1.191	129.9
09/16/2017	0.922	0.916	80	1.711	1.395	142.7
09/17/2017	0.876	0.871	74	1.799	1.654	172.6
09/18/2017	0.000	0.000	0	1.077	1.145	131.3
09/19/2017	0.901	0.297	29	1.086	1.207	116.3
09/20/2017	0.917	0.601	64	1.055	1.268	121.7
09/21/2017	0.891	1.426	148	0.966	0.550	51.2
09/22/2017	0.928	0.736	78	0.985	1.046	110.2
09/23/2017	0.908	0.985	98	1.057	1.193	121.1
09/24/2017	0.911	1.067	106	0.970	0.975	96.7
09/25/2017	0.814	0.736	75	1.108	1.099	108.2
09/26/2017	0.000	0.367	34	1.169	1.151	119.4
09/27/2017	0.907	0.448	42	0.972	0.857	86.7
09/28/2017	0.899	0.895	90	1.010	0.983	88.3
09/29/2017	0.902	0.531	50	1.040	0.868	71.9
09/30/2017	0.000	0.284	27	1.038	1.208	114.6
TOTAL	22.865	22.347	2,294	34.016	30.530	3,087
AVERAGE	0.762	0.745	76	1.134	1.018	103



Debra A. McCarty, Water Commissioner

October 27, 2017

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for September 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 07/01/2017-09/30/2017

Report Due Date: 10/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 72426

Submission Status: Received

Submission Type: Original



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 07/01/2017
 DMR Effective To: 09/30/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	07	01	TO	2017	09	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	<1	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Chronic - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	2	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Acute - Pimephales Survival	Sample Measurement	***	***	***	***	***	<1	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Chlordane	Sample Measurement	***	***	***	***	<.0004733	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
alpha-Endosulfan	Sample Measurement	***	***	***	***	<.0000132	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Benzidine	Sample Measurement	***	***	***	***	<.0570	***	mg/L	Grab	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/quarter
4,4-DDT	Sample Measurement	***	***	***	***	<.0000190	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
4,4-DDD	Sample Measurement	***	***	***	***	<.0000190	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
4,4-DDE	Sample Measurement	***	***	***	***	<.0000190	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
beta-BHC	Sample Measurement	***	***	***	***	<.0000095	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
gamma-BHC (Lindane)	Sample Measurement	***	***	***	***	<.0000095	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Dieldrin	Sample Measurement	***	***	***	***	<.0000190	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Heptachlor	Sample Measurement	***	***	***	***	<.0000095	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Toxicity, Chronic - Pimephales Survival	Sample Measurement	***	***	***	***	***	2	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
SW WET Testing Composite (10-25-2017).pdf	Laboratory Accreditation Form	2017-10-27T09:59:10-04:00	
BLSSW201709.xls	WET Test Summary Report	2017-10-26T10:44:29-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	2017	10	27
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
09/06/2017	2.270	1.310	20.50	20.70	0.307
09/11/2017	1.850	0.832	23.40	24.10	0.228
09/13/2017	1.390	0.687	22.00	25.30	0.316
09/15/2017	1.210	0.605	27.20	28.00	0.400
09/20/2017	1.530	0.670	20.70	20.30	0.356
09/27/2017	1.260	0.567	26.80	24.40	0.366
AVG	1.585 <	0.779	23.43	23.80	0.329
MAX	2.270 <	1.310	27.20	28.00	0.400

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
06/12/2017	< 0.020 <	0.010
06/14/2017	< 0.020 <	0.010
06/16/2017	< 0.020 <	0.010
AVG	< 0.020 <	0.010

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	09/11/2017	09/13/17	09/15/17	AVG
Copper	0.0070	0.0070	0.0070	0.0070
Iron Total	0.2180	0.2630	0.3260	0.2690
Iron Dissolved	0.1020	0.1070	0.0990	0.1027
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0040	0.0040	0.0040	0.0040
Selenium	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Zinc	< 0.0250 <	0.0250 <	0.0250	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	9/10/2017	9/11/2017	9/12/2017	9/13/2017	9/14/2017	9/15/2017	AVG
1,2-Dichloroethane	< 0.0025	<	0.0025	<	0.0025	<	0.0025
alpha-Endosulfan		0.0000200		0.0000100	<	0.0000095	< 0.0000132
Benzidine	<	0.0570	<	0.0570	<	0.0570	< 0.0570
beta-BHC	<	0.0000094	<	0.0000095	<	0.0000095	< 0.0000095
Chlordane	<	0.0004700	<	0.0004800	<	0.0004700	< 0.0004733
Chloroform	0.0032		0.0028		0.0027		0.0029
Dieldrin	<	0.0000190		0.0000190	<	0.0000190	< 0.0000190
Heptachlor	<	0.0000094		0.0000095	<	0.0000095	< 0.0000095
Lindane (Gamma-BHC)	<	0.0000094	<	0.0000095	<	0.0000095	< 0.0000095
p,p'-DDD	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
p,p'-DDE	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
p,p'-DDT	<	0.0000190	<	0.0000190	<	0.0000190	< 0.0000190
Tetrachloroethylene	< 0.0025	<	0.0025	<	0.0025	<	0.0025
Trichloroethylene	< 0.0025	<	0.0025	<	0.0025	<	0.0025

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

9/15/2017

Toxicity, Ceriodaphnia acute	<	1
Toxicity, Ceriodaphnia chronic		2
Toxicity, Pimphales acute	<	1
Toxicity, Pimphales chronic		2

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Fecal Coliform Daily

Report Date: 10/25/2017

WW170911-024

Grab 09/11/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			9/12/2017	7:59	2	MPN/100	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.971. The maximum acceptable PCV is 0.556. The measured results were 2.0 MPN/100mL and 18.7 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

WW170920-024

Grab 09/20/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			9/21/2017	8:15	37.3	MPN/100	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.716. The maximum acceptable PCV is 0.556. The measured results were 5.2 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 10/25/2017

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Composite

Report Date: 10/25/2017

WW170911-025

Composite 24h 09/11/2017 00:59

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2,4-Trichlorobenzene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
1,2-Diphenylhydrazine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2,4,6-Trichlorophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2,4-Dichlorophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2,4-Dimethylphenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2,4-Dinitrophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<38 ^E	µg/L	38	µg/L
2,4-Dinitrotoluene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2,6-Dinitrotoluene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2-Chloronaphthalene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2-Chlorophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
2-Nitrophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
3,3'-Dichlorobenzidine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
4,6-Dinitro-o-cresol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<14 ^E	µg/L	14	µg/L
4-Bromophenyl phenyl ether ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
4-Chlorophenyl phenyl ether ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
4-Nitrophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<14 ^E	µg/L	14	µg/L
Acenaphthene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Acenaphthylene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Anthracene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Benzidine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<57 ^E	µg/L	57	µg/L
Benzo(a)anthracene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Benzo(a)pyrene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L

Benzo(b)fluoranthene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Benzo(ghi)perylene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Benzo(k)fluoranthene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
bis(2-Chloroethoxy)methane ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
bis(2-Chloroethyl) ether ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
bis(2-Chloroisopropyl) ether ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
bis(2-Ethylhexyl) phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	6.00 ^E	µg/L	5	µg/L
Butyl benzyl phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
CBOD5	SM 5210 B	9/11/2017	13:12	9/16/2017	8:00	<2.00	mg/L	2	mg/L
Chrysene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Cyanide Free ^{B,D}	SM 4500-CN E-1999			9/12/2017	23:52	<0.010 ^E	mg/L	0.010	mg/L
Di-n-butyl phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Di-n-octyl phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Dibenzo(a,h)anthracene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Diethyl phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Dimethyl phthalate ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Endrin ^{B,D}	EPA 608	9/14/2017	23:35	9/20/2017	1:44	<0.019 ^E	µg/L	0.019	µg/L
Fluoranthene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Fluorene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Hexachlorobenzene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Hexachlorobutadiene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Hexachlorocyclopentadiene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<14 ^E	µg/L	14	µg/L
Hexachloroethane ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Indeno(1,2,3-cd)pyrene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Isophorone ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
N-Nitrosodi-n-propylamine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
N-Nitrosodimethylamine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
N-Nitrosodiphenylamine ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Naphthalene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Nitrobenzene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
p-Chloro-m-cresol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L

Pentachlorophenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<14 ^E	µg/L	14	µg/L
Phenanthrene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Phenol ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
Phenols ^{B,D}	EPA 420.4			9/19/2017	5:12	<0.020 ^E	mg/L	0.020	mg/L
Pyrene ^{B,D}	EPA 625	9/15/2017	10:00	9/18/2017	12:37	<5 ^E	µg/L	5	µg/L
TKN ^{B,D}	EPA 351.2	10/9/2017	9:00	10/9/2017	23:19	24.1 ^E	mg/L	1	mg/L

Data Qualifiers:

1,2,4-Trichlorobenzene	The Relative Percent Difference (RPD) between the sample and sample duplicate is 42%. The maximum acceptable RPD is 30%. The measured results were 40.11 and 26.22 ug/L. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
1,2-Diphenylhydrazine	The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,4,6-Trichlorophenol	Laboratory Fortified Matrix (LFM) recovery is 65% and the duplicate is 55%. Acceptance limits are 80-120%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,4-Dichlorophenol	Laboratory Fortified Matrix (LFM) recovery is 68% and the duplicate is 56%. Acceptance limits are 79-114%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,4-Dimethylphenol	Laboratory Fortified Matrix (LFM) duplicate recovery is 49%. Acceptance limits are 55-106%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,4-Dinitrophenol	Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 34-129%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,4-Dinitrotoluene	Laboratory Fortified Matrix (LFM) duplicate recovery is 68%. Acceptance limits are 80-120%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2,6-Dinitrotoluene	Laboratory Fortified Matrix (LFM) recovery is 77% and the duplicate is 53%. Acceptance limits are 80-115%. The Relative Percent Difference (RPD) between the sample and sample duplicate is 33%. The maximum acceptable RPD is 30%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.

2-Chloronaphthalene	The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2-Chlorophenol	Laboratory Fortified Matrix (LFM) recovery is 69% and the duplicate is 57%. Acceptance limits are 74-114%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
2-Nitrophenol	Laboratory Fortified Matrix (LFM) recovery is 66% and the duplicate is 54%. Acceptance limits are 83-109%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
3,3'-Dichlorobenzidine	Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 14-124%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
4,6-Dinitro-o-cresol	Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 69-117%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
4-Bromophenyl phenyl ether	Laboratory Fortified Matrix (LFM) recovery is 73% and the duplicate is 56%. Acceptance limits are 75-118%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
4-Chlorophenyl phenyl ether	Laboratory Fortified Matrix (LFM) recovery is 69% and the duplicate is 54%. Acceptance limits are 70-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
4-Nitrophenol	Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 19-80%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Acenaphthene	Laboratory Fortified Matrix (LFM) recovery is 65% and the duplicate is 49%. Acceptance limits are 71-118%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Acenaphthylene	Laboratory Fortified Matrix (LFM) recovery is 64% and the duplicate is 48%. Acceptance limits are 65-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Anthracene	Laboratory Fortified Matrix (LFM) recovery is 72% and the duplicate is 59%. Acceptance limits are 80-114%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.

Benzidine	Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 12-97%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Benzo(a)anthracene	Laboratory Fortified Matrix (LFM) duplicate recovery is 60%. Acceptance limits are 76-117%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Benzo(a)pyrene	Laboratory Fortified Matrix (LFM) recovery is 70% and the duplicate is 55%. Acceptance limits are 76-112%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Benzo(b)fluoranthene	Laboratory Fortified Matrix (LFM) recovery is 69% and the duplicate is 54%. Acceptance limits are 73-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Benzo(ghi)perylene	Laboratory Fortified Matrix (LFM) duplicate recovery is 56%. Acceptance limits are 76-120%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Benzo(k)fluoranthene	Laboratory Fortified Matrix (LFM) recovery is 73% and the duplicate is 57%. Acceptance limits are 75-121%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
bis(2-Chloroethoxy)methane	Laboratory Fortified Matrix (LFM) recovery is 74% and the duplicate is 57%. Acceptance limits are 76-120%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
bis(2-Chloroethyl) ether	Laboratory Fortified Matrix (LFM) recovery is 71% and the duplicate is 52%. Acceptance limits are 74-111%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
bis(2-Chloroisopropyl) ether	Laboratory Fortified Matrix (LFM) duplicate recovery is 72%. Acceptance limits are 73-110%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
bis(2-Ethylhexyl) phthalate	The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Butyl benzyl phthalate	Laboratory Fortified Matrix (LFM) duplicate recovery is 68%. Acceptance limits are 78-120%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
CBOD5	GGA recovery is 152.5 mg/L. Acceptance limits are 167.5 to 228.5 mg/L.

Chrysene	Laboratory Fortified Matrix (LFM) recovery is 74% and the duplicate is 56%. Acceptance limits are 81-118%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Cyanide Free	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90 to 110%.
Di-n-butyl phthalate	Laboratory Fortified Matrix (LFM) duplicate recovery is 61%. Acceptance limits are 77-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Di-n-octyl phthalate	Laboratory Fortified Matrix (LFM) recovery is 78% and the duplicate is 61%. Acceptance limits are 79-125%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Dibenzo(a,h)anthracene	Laboratory Fortified Matrix (LFM) recovery is 72% and the duplicate is 56%. Acceptance limits are 77-119%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Diethyl phthalate	Laboratory Fortified Matrix (LFM) duplicate is 51%. Acceptance limits are 63-119%. The Relative Percent Difference (RPD) between the sample and sample duplicate is 33%. The maximum acceptable RPD is 30%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Dimethyl phthalate	The Relative Percent Difference (RPD) between the sample and sample duplicate is 35%. The maximum acceptable RPD is 30%. The measured results were 40.39 and 28.29 ug/L. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Endrin	The Relative Percent Difference (RPD) between the sample and sample duplicate is 65%. The maximum acceptable RPD is 30%. The measured results were 44 and 86%.
Fluoranthene	Laboratory Fortified Matrix (LFM) recovery is 69% and the duplicate is 56%. Acceptance limits are 77-111%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Fluorene	Laboratory Fortified Matrix (LFM) duplicate recovery is 56%. Acceptance limits are 73-115%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Hexachlorobenzene	Laboratory Fortified Matrix (LFM) recovery is 71% and the duplicate is 55%. Acceptance limits are 75-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Hexachlorobutadiene	The Relative Percent Difference (RPD) between the sample and sample duplicate is 48%. The maximum acceptable RPD is 30%. The measured results were 39.49 and 24.1 ug/L. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.

Hexachlorocyclopentadiene	The recovery of the LCS is 0%, which is outside the acceptance limits of 24-110%. Corrective action: The sample was re-extracted outside the method hold time and the QC is compliant. The result is reported from the initial trial. Similar results were obtained in both trials. Laboratory Fortified Matrix (LFM) recovery is 0% and the duplicate is 0%. Acceptance limits are 24-128%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Hexachloroethane	The Relative Percent Difference (RPD) between the sample and sample duplicate is 43%. The maximum acceptable RPD is 30%. The measured results were 33.23 and 21.57 ug/L. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Indeno(1,2,3-cd)pyrene	Laboratory Fortified Matrix (LFM) duplicate recovery is 56%. Acceptance limits are 71-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Isophorone	Laboratory Fortified Matrix (LFM) recovery is 63% and the duplicate is 50%. Acceptance limits are 77-110%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
N-Nitrosodi-n-propylamine	Laboratory Fortified Matrix (LFM) duplicate recovery is 59%. Acceptance limits are 78-110%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
N-Nitrosodimethylamine	Laboratory Fortified Matrix (LFM) duplicate is 0%. Acceptance limits are 28-81%. The Relative Percent Difference (RPD) between the sample and sample duplicate is 200%. The maximum acceptable RPD is 30%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
N-Nitrosodiphenylamine	Laboratory Fortified Matrix (LFM) recovery is 74% and the duplicate is 56%. Acceptance limits are 77-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Naphthalene	The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Nitrobenzene	The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
p-Chloro-m-cresol	Laboratory Fortified Matrix (LFM) recovery is 8% and the duplicate is 7%. Acceptance limits are 72-116%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.

Pentachlorophenol	Laboratory Fortified Matrix (LFM) duplicate is 0%. Acceptance limits are 45-134%. The Relative Percent Difference (RPD) between the sample and sample duplicate is 200%. The maximum acceptable RPD is 30%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Phenanthrene	Laboratory Fortified Matrix (LFM) recovery is 75% and the duplicate is 58%. Acceptance limits are 78-112%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Phenol	Laboratory Fortified Matrix (LFM) recovery is 17% and the duplicate is 14%. Acceptance limits are 21-71%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
Phenols	Laboratory Fortified Matrix (LFM) recovery is 115%. Acceptance limits are 90 to 110%.
Pyrene	Laboratory Fortified Matrix (LFM) recovery is 74% and the duplicate is 54%. Acceptance limits are 75-121%. The recoveries of the surrogates were outside the acceptance limits. Nitrobenzene-d5 is 53% in the msd which is outside the acceptance limits of 60-119%. 2-Fluorobiphenyl is 53% in the msd which is outside the acceptance limits of 62-116%. Terphenyl-d14 is 46% in the msd which is outside the acceptance limits of 55-124%.
TKN	The holding time was exceeded. The sample holding time is 28 days. Sample preparation began at 32 days from sample collection.

WW170913-031

Composite 24h 09/13/2017 06:45

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Endrin ^{B,D}	EPA 608	9/14/2017	23:35	9/20/2017	2:10	<0.019 ^E	µg/L	0.019	µg/L
TKN ^{B,D}	EPA 351.2	10/9/2017	9:00	10/9/2017	21:50	25.3 ^E	mg/L	1.00	mg/L

Data Qualifiers:

Endrin	The Relative Percent Difference (RPD) between the sample and sample duplicate is 65%. The maximum acceptable RPD is 30%. The measured results were 44 and 86 ug/L.
TKN	The Relative Percent Difference (RPD) between the sample and sample duplicate is 21%. The maximum acceptable RPD is 20%. The measured results were 25.3 and 31.2 mg/L.

WW170915-024

Composite 24h 09/15/2017 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
4,4'-DDT ^{B,D}	EPA 608	9/19/2017	22:40	10/4/2017	4:49	<0.019 ^E	µg/L	0.019	µg/L
Phenols ^{B,D}	EPA 420.4			9/26/2017	7:12	<0.020 ^E	mg/L	0.020	mg/L
TKN ^{B,D}	EPA 351.2	10/9/2017	9:00	10/9/2017	21:49	28.0 ^E	mg/L	1.00	mg/L

Data Qualifiers:

4,4'-DDT	The response for p,p-DDT in the continuing calibration verification standard is outside the QC acceptance limits. Since the response is high indicating increased sensitivity, and the target analyte is not detected in the sample, the data is reported.
Phenols	Laboratory Fortified Matrix (LFM) recovery is 117%. Acceptance limits are 90 to 110%.
TKN	The Relative Percent Difference (RPD) between the sample and sample duplicate is 21%. The maximum acceptable RPD is 20%. The measured results were 25.3 and 31.2 mg/L.

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
Title: Laboratory Manager
Date: 10/25/2017

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WW NPDES Weekly

Report Date: 10/25/2017

WW170920-031

Composite 24h 09/20/2017 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN ^{B,D}	EPA 351.2	9/29/2017	9:25	10/5/2017	11:13	20.3 ^E	mg/L as N	1.00	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 89%. Acceptance limits are 90 to 110%.
-----	--

WW170927-029

Composite 24h 09/27/2017 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN ^{B,D}	EPA 351.2	10/5/2017	17:30	10/14/2017	14:18	24.4 ^E	mg/L as N	1.00	mg/L as N

Data Qualifiers:

TKN	The Relative Percent Difference (RPD) between the sample and sample duplicate is 21%. The maximum acceptable RPD is 20%. The measured results were <1.1 and 1.1 mg/L.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:
 Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 10/25/2017



Debra A. McCarty, Water Commissioner

November 28, 2017

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for October 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 10/01/2017-10/31/2017

Report Due Date: 11/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 75925

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for October 2017

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - OCTOBER 2017 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM					CBOD5* %REM				

Su	10/01/2017	129	163	2	99	2,148		105	3	97.15		3,222		
M	10/02/2017	126	180	4	98	4,198		107	3	97.21		3,149		9
T	10/03/2017	125	234	4	98	4,170		122	<	2	98.37	2,085		
W	10/04/2017	127	300	4	99	4,237		146	2	98.63		2,118		10
Th	10/05/2017	125	306	3	99	3,128		125	2	98.41		2,085		
F	10/06/2017	127	268	4	99	4,237		132	2	98.49		2,118		
S	10/07/2017	125	197	3	98	3,128		148	3	97.97		3,128		
Su	10/08/2017	137	239	4	98	4,570		115	4	96.54		4,570		
M	10/09/2017	193	193	5	97	8,048		94	10	89.33		16,096		26
T	10/10/2017	126	197	5	97	5,254		96	3	96.87		3,153		
W	10/11/2017	128	162	4	98	4,270		106	2	98.11		2,135		8
Th	10/12/2017	170	72	3	96	4,253		94	2	97.88		2,836		
F	10/13/2017	131	162	3	98	3,278		109	3	97.26		3,278		
S	10/14/2017	129	131	2	98	2,152		105	3	97.15		3,228		
Su	10/15/2017	133	191	2	99	2,218		144	2	98.61		2,218		
M	10/16/2017	128	118	5	96	5,338		150	2	98.67		2,135		7
T	10/17/2017	126	172	3	98	3,153		99	2	97.98		2,102		
W	10/18/2017	125	151	2	99	2,085		121	2	98.34		2,085		7
Th	10/19/2017	123	153	3	98	3,077		106	3	97.17		3,077		
F	10/20/2017	122	208	4	98	4,070		116	4	96.56		4,070		
S	10/21/2017	118	213	4	98	3,936		104	3	97.10		2,952		
Su	10/22/2017	129	183	3	98	3,228		94	3	96.82		3,228		
M	10/23/2017	120	221	3	99	3,002		126	3	97.62		3,002		7
T	10/24/2017	162	283	4	99	5,404		139	3	97.84		4,053		
W	10/25/2017	124	191	4	98	4,137		112	3	97.33		3,102		8
Th	10/26/2017	121	111	2	98	2,018		99	3	96.96		3,027		
F	10/27/2017	123	179	3	98	3,077		100	3	96.99		3,077		
S	10/28/2017	120	297	4	99	4,003		84	3	96.41		3,002		
Su	10/29/2017	299	219	6	97	14,962		90	5	94.45		12,468		
M	10/30/2017	211	134	2	99	3,519		74	5	93.24		8,799		
T	10/31/2017	137	140	3	98	3,428		99	3	96.97		3,428		

TOTAL	4,319	5,966	107					3,462	96					
AVERAGE	139	192	3	98		4,120		112	3	97.05		3,840		10

Wk1	126	235	3			3,606		127	2			2,558		
Wk2	145	165	4			4,546		103	4			5,042		
Wk3	125	172	3			3,411		120	3			2,663		
Wk4	128	209	3			3,553		108	3			3,213		

MAX 299

CBOD 20 LBS---- 12,459

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - OCTOBER 2017
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Su 10/01/2017	129	7.0	4.7	0.17	4
M 10/02/2017	126	7.0	5.3	0.19	6
T 10/03/2017	125	6.9	4.7	0.18	5
W 10/04/2017	127	6.9	5.1	0.10	15
Th 10/05/2017	125	7.0	4.8	0.10	8
F 10/06/2017	127	6.9	5.0	0.10	10
S 10/07/2017	125	6.9	4.6	0.11	20
Su 10/08/2017	137	6.9	5.6	0.14	7
M 10/09/2017	193	6.9	5.9	0.05	54
T 10/10/2017	126	7.0	4.8	0.17	12
W 10/11/2017	128	7.0	4.1	0.23	7
Th 10/12/2017	170	6.9	6.2	0.05	54
F 10/13/2017	131	7.0	4.4	0.13	9
S 10/14/2017	129	7.0	5.6	0.07	2
Su 10/15/2017	133	7.0	4.8	0.25	2
M 10/16/2017	128	6.9	4.2	0.11	36
T 10/17/2017	126	7.0	4.6	0.19	6
W 10/18/2017	125	6.9	5.1	0.22	6
Th 10/19/2017	123	7.0	4.8	0.16	53
F 10/20/2017	122	7.0	5.3	0.13	18
S 10/21/2017	118	7.0	6.7	0.11	10
Su 10/22/2017	129	6.9	4.3	0.11	10
M 10/23/2017	120	7.0	5.2	0.10	6
T 10/24/2017	162	6.9	6.2	0.06	7
W 10/25/2017	124	7.0	4.8	0.12	3
Th 10/26/2017	121	7.1	5.3	0.08	4
F 10/27/2017	123	7.1	5.5	0.11	8
S 10/28/2017	120	7.1	4.8	0.09	5
Su 10/29/2017	299	7.0	5.1	0.12	13
M 10/30/2017	211	7.0	6.7	0.27	47
T 10/31/2017	137	7.1	6.4	0.24	55
Total	4,319	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	139	6.9 7.1	4.1 5.2	0.14 0.27	10

Wk1 126
Wk2 145
Wk3 125
Wk4 128

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - OCTOBER 2017

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
10/01/2017	17	99	156	164	163	160	97	105
10/02/2017	17	98	204	176	180	168	98	107
10/03/2017	17	100	244	232	234	189	112	122
10/04/2017	17	100	224	312	300	180	141	146
10/05/2017	17	97	188	324	306	147	122	125
10/06/2017	16	99	240	272	268	175	126	132
10/07/2017	17	97	204	196	197	177	143	148
10/08/2017	17	108	228	240	239	154	110	115
10/09/2017	22	154	236	188	193	169	84	94
10/10/2017	17	99	144	205	197	127	91	96
10/11/2017	17	100	172	160	162	164	97	106
10/12/2017	18	138	240	52	72	147	88	94
10/13/2017	16	103	236	152	162	192	98	109
10/14/2017	17	100	200	120	131	160	97	105
10/15/2017	17	104	240	184	191	209	134	144
10/16/2017	17	100	212	104	118	204	142	150
10/17/2017	17	99	172	172	172	124	95	99
10/18/2017	16	98	144	152	151	158	115	121
10/19/2017	16	97	184	148	153	173	96	106
10/20/2017	16	96	236	204	208	185	106	116
10/21/2017	16	92	196	216	213	171	93	104
10/22/2017	18	101	200	180	183	201	77	94
10/23/2017	16	96	224	220	221	184	117	126
10/24/2017	18	132	212	292	283	154	137	139
10/25/2017	17	99	236	184	191	171	103	112
10/26/2017	16	96	160	104	111	142	92	99
10/27/2017	16	98	196	176	179	158	91	100
10/28/2017	16	95	224	308	297	165	71	84
10/29/2017	35	227	244	216	219	128	85	90
10/30/2017	26	166	180	128	134	88	72	74
10/31/2017	18	108	216	128	140	166	89	99
AVG	18	110	206	191	192	164	104	112

PERMIT

SWWPCP - OCTOBER 2017

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
10/01/2017		198			
10/02/2017	128	202	138	16	88%
10/03/2017		206			
10/04/2017	166	221	173	19	89%
10/05/2017		160			
10/06/2017		207			
10/07/2017		191			
10/08/2017		191			
10/09/2017	113	182	121	25	79%
10/10/2017		134			
10/11/2017	114	175	122	18	85%
10/12/2017		182			
10/13/2017		208			
10/14/2017		188			
10/15/2017		224			
10/16/2017	158	218	166	22	87%
10/17/2017		157			
10/18/2017	120	204	131	10	92%
10/19/2017		195			
10/20/2017		230			
10/21/2017		191			
10/22/2017		218			
10/23/2017	155	200	161	22	86%
10/24/2017		175			
10/25/2017	121	190	130	27	79%
10/26/2017		184			
10/27/2017		172			
10/28/2017		174			
10/29/2017		140			
10/30/2017		98			
10/31/2017		193			
AVG	134	187	143	20	86%

DESIGN - 200 MGD

DATE	SWWPCP - OCTOBER 2017					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
10/01/2017	17	99	13	129	158	
10/02/2017	17	98	11	126	148	
10/03/2017	17	100	8	125	150	
10/04/2017	17	100	10	127	153	
10/05/2017	17	97	11	125	148	T
10/06/2017	16	99	12	127	156	
10/07/2017	17	97	11	125	152	
10/08/2017	17	108	12	137	198	0.02
10/09/2017	22	154	17	193	385	0.66
10/10/2017	17	99	10	126	152	
10/11/2017	17	100	11	128	148	T
10/12/2017	18	138	14	170	300	0.20
10/13/2017	16	103	12	131	156	0.01
10/14/2017	17	100	12	129	159	T
10/15/2017	17	104	12	133	165	0.01
10/16/2017	17	100	11	128	236	0.06
10/17/2017	17	99	10	126	151	
10/18/2017	16	98	11	125	148	
10/19/2017	16	97	10	123	146	
10/20/2017	16	96	10	122	150	
10/21/2017	16	92	10	118	148	
10/22/2017	18	101	10	129	149	
10/23/2017	16	96	8	120	144	T
10/24/2017	18	132	12	162	328	0.33
10/25/2017	17	99	8	124	149	
10/26/2017	16	96	9	121	147	T
10/27/2017	16	98	9	123	157	
10/28/2017	16	95	9	120	150	
10/29/2017	35	227	37	299	496	1.96
10/30/2017	26	166	19	211	382	0.41
10/31/2017	18	108	11	137	157	
TOTAL	553	3,396	370	4,319		3.66
AVG	18	110	12	139		
			MIN	118	144	
			MAX	299	496	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2017
 DMR Effective To: 10/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	10	01	TO	2017	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	4.1	5.2	***	mg/L	Grab	1/day
	Permit Measurement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***		6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	4120	4546	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	22.38	27.70	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite an N	Sample Measurement	***	***	***	***	1.390	1.840	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	.634	.830	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	21.65	25.10	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.274	.320	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.028	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0080	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0920	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	<.0250	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)



Selenium, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	139	299	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	.14	.27	mg/L	Grab	1/day
	Permit Measurement	***	***			.5 Avg Mo	1.0 IMAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	<.010	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***			Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	10	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***			200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3840	5042	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	19800 Avg Mo	29700 Wkly Avg			25 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	12459	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	35830 Avg Mo	***			***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.05	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	98	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2017
 DMR Effective To: 10/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	10	01	TO	2017	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	***	***	***	***	***	***	S.U.	Grab	Daily when Discharging
	Permit Measurement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX			
Flow	Sample Measurement	***	***	MGD	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Fecal Coliform	Sample Measurement	***	***	***	***	***	***	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	***	***		***	***	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	***	***	minutes	***	***	***	***	Estimate	1/discharge
	Permit Measurement	Monitor & Report Avg Mo	***		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201710.xls	Daily Effluent Monitoring Form	2017-11-27T09:39:47-05:00	
SW WW NPDES Weekly (11-21-2017).pdf	Laboratory Accreditation Form	2017-11-27T09:45:15-05:00	
SW Daily Grab (11-21-2017).pdf	Laboratory Accreditation Form	2017-11-27T09:44:42-05:00	
BLSSW201710.xls	Nutrient Monitoring Form	2017-11-27T09:40:46-05:00	
201710SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2017-11-27T09:43:56-05:00	
SWCSO 201710.xls	CSO Detailed Outfall Report Form	2017-11-27T09:43:12-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2017	11	27
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF OCTOBER 2017

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
10/04/2017	1.840	0.830	23.60	22.00	0.214
10/11/2017	0.789	0.369	22.10	23.30	0.320
10/18/2017	1.570	0.649	27.70	25.10	0.308
10/25/2017	1.360	0.689	16.10	16.20	0.252
AVG	1.390	0.634	22.38	21.65	0.274
MAX	1.840	0.830	27.70	25.10	0.320

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
10/19/2017	< 0.010	< 0.028

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	10/18/2017
Copper	0.0080
Iron	0.2860
Iron Dissolved	0.0920
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	10/16/2017
1,2-Dichloroethane	< 0.0025
Chloroform	< 0.0025
Tetrachloroethylene	< 0.0025
Trichloroethylene	< 0.0025

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
OCTOBER 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD		MGD	MGD	
10/01/2017	0.88	1.28	117.20	1.13	1.00	103.07
10/02/2017	0.91	0.60	56.78	0.34	0.35	33.64
10/03/2017	0.91	0.78	74.49	0.09	0.32	37.08
10/04/2017	0.93	0.65	61.04	1.16	0.79	98.21
10/05/2017	0.90	1.04	102.62	0.85	1.16	135.35
10/06/2017	-	0.79	68.09	2.35	2.28	187.38
10/07/2017	0.91	0.36	33.46	1.27	1.33	138.71
10/08/2017	0.90	0.83	89.53	1.24	1.38	137.23
10/09/2017	0.91	1.31	115.04	1.32	1.05	96.75
10/10/2017	0.91	0.35	29.27	1.28	1.38	130.98
10/11/2017	0.88	0.79	72.12	1.53	1.50	150.09
10/12/2017	0.81	0.84	82.61	0.82	1.01	114.60
10/13/2017	-	0.74	72.04	1.95	1.92	206.74
10/14/2017	0.95	0.48	43.17	1.98	1.91	192.36
10/15/2017	0.90	0.74	67.90	1.32	1.23	145.84
10/16/2017	0.91	1.05	95.44	1.37	1.31	146.31
10/17/2017	-	0.52	49.74	1.43	1.43	177.38
10/18/2017	0.92	0.68	67.02	1.50	1.63	181.53
10/19/2017	0.91	0.90	111.61	1.37	1.52	162.82
10/20/2017	0.91	0.95	90.37	1.30	1.05	113.32
10/21/2017	0.88	0.45	33.89	1.16	1.21	120.93
10/22/2017	0.93	1.18	119.45	0.93	0.73	82.71
10/23/2017	-	0.37	39.48	0.27	0.40	42.31
10/24/2017	0.92	0.75	61.66	0.91	0.72	83.66
10/25/2017	0.91	0.62	56.91	0.77	1.09	119.33
10/26/2017	0.92	0.99	94.54	0.77	0.82	81.84
10/27/2017	0.90	0.53	51.31	0.98	0.84	78.54
10/28/2017	0.93	1.32	143.07	0.81	0.85	88.85
10/29/2017	0.92	0.85	99.42	0.88	0.92	98.61
10/30/2017	0.94	1.43	152.73	1.04	0.94	102.92
10/31/2017	-	-	-	2.07	2.16	254.76
TOTAL	23.610	24.205	2,352	36.166	36.255	3,844
AVERAGE	0.762	0.781	76	1.167	1.170	124

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report Date: 11/21/2017

WW171003-005

Grab 10/03/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			10/4/2017	8:26	5.2	MPN/100	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.57. The maximum acceptable PCV is 0.556. The measured results were 2.0 MPN/100mL and 7.4 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

WW171004-005

Grab 10/04/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			10/5/2017	8:18	14.6	MPN/100	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.8. The maximum acceptable PCV is 0.556. The measured results were 1.0 MPN/100mL and 6.1 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

WW171017-005

Grab 10/17/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			10/18/2017	8:09	6.3	MPN/100	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.613. The maximum acceptable PCV is 0.556. The measured results were 4.1 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: John Consolvo
Title: Laboratory Manager
Date: 11/21/2017

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW WW NPDES Weekly

Report Date: 11/21/2017

WW171004-026

Composite 24h 10/04/2017 06:45

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	EPA 351.2	10/24/2017	17:45	10/28/2017	13:40	22	mg/L as N	1.0	mg/L as N

Data Qualifiers:

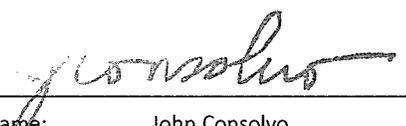
TKN	Laboratory Fortified Matrix (LFM) recovery is 117%. Acceptance limits are 90 to 110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: John Consolvo
Title: Laboratory Manager
Date: 11/21/2017



Debra A. McCarty, Water Commissioner

December 28, 2017

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for November 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 11/01/2017-11/30/2017

Report Due Date: 12/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 79658

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for Novmber 2017

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 11/01/2017
 DMR Effective To: 11/30/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	11	01	TO	2017	11	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	3.1	4.9	***	mg/L	Grab	1/day
	Permit Measurement	***	***	***	Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***	***	6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	5391	8048	lbs/day	***	5	5	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75080 Wkly Avg	***	***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	19.96	22.90	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	1.200	1.500	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	803	867	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	26.18	28.80	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.400	.500	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0028	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.020	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0100	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0870	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0270	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	135	182	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	14	.28	mg/L	Grab	1/day
	Permit Measurement	***	***		***	***	.5 Avg Mo		1.0 MAX	Grab
Cyanide, Free	Sample Measurement	***	***	***	***	< 010	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0025	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	20	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***		***	***	200 Geo Mean		***	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3339	3693	lbs/day	***	3	3	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	24-Hr Composite
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	11963	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	3600 Avg Mo	***		***	***	***		***	24-Hr Composite
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.46	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		89.25	***	***		***	24-Hr Composite
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	97	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		85	***	***		***	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 11/01/2017
 DMR Effective To: 11/30/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2017	11	01	TO	2017	11	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Me	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Me	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201711.xls	Daily Effluent Monitoring Form	2017-12-27T13:21:14-05:00	
SW Daily Composite 1 & 2 (12-22-2017).pdf	Laboratory Accreditation Form	2017-12-27T13:28:04-05:00	
BLSSW201711.xls	Nutrient Monitoring Form	2017-12-27T13:22:35-05:00	
201711SL.xls-November.xls	Sewage Sludge / Biosolids Production and Disposal Form	2017-12-27T13:25:00-05:00	
SWCSO 201711.xls	CSO Detailed Outfall Report Form	2017-12-27T13:24:11-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	YEAR	MO	DAY
					2017	12	27
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT

SWWPCP - NOVEMBER 2017

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

W	11/01/2017	134	162	4	98	4,470		89	3	96.61		3,353		
Th	11/02/2017	135	160	5	97	5,630		106	2	98.12		2,252		12
F	11/03/2017	130	172	5	97	5,421		112	2	98.22		2,168		
S	11/04/2017	149	137	3	98	3,728		128	3	97.65		3,728		
Su	11/05/2017	135	177	6	97	6,755		116	2	98.27		2,252		
M	11/06/2017	128	180	3	98	3,203		132	3	97.73		3,203		12
T	11/07/2017	182	304	8	97	12,143		101	5	95.06		7,589		
W	11/08/2017	132	148	4	97	4,404		94	2	97.88		2,202		8
Th	11/09/2017	128	224	4	98	4,270		85	3	96.48		3,203		
F	11/10/2017	126	135	4	97	4,203		116	2	98.27		2,102		
S	11/11/2017	126	177	7	96	7,356		117	2	98.30		2,102		
Su	11/12/2017	132	220	6	97	6,605		159	3	98.12		3,303		
M	11/13/2017	161	267	7	97	9,399		93	3	96.78		4,028		12
T	11/14/2017	129	190	6	97	6,455		95	4	95.80		4,303		
W	11/15/2017	133	174	3	98	3,328		82	4	95.14		4,437		10
Th	11/16/2017	131	141	4	97	4,370		118	2	98.31		2,185		
F	11/17/2017	130	120	3	98	3,253		110	2	98.19		2,168		
S	11/18/2017	152	201	4	98	5,071		138	3	97.82		3,803		
Su	11/19/2017	155	164	5	97	6,464		134	3	97.75		3,878		
M	11/20/2017	131	163	5	97	5,463		115	2	98.26		2,185		8
T	11/21/2017	131	181	4	98	4,370		125	3	97.59		3,278		
W	11/22/2017	142	229	4	98	4,737		128	4	96.87		4,737		11
Th	11/23/2017	132	155	6	96	6,605		141	2	98.58		2,202		
F	11/24/2017	122	204	6	97	6,105		134	2	98.51		2,035		
S	11/25/2017	129	176	4	98	4,303		124	4	96.78		4,303		
Su	11/26/2017	128	156	5	97	5,338		145	3	97.94		3,203		
M	11/27/2017	128	147	4	97	4,270		95	4	95.78		4,270		12
T	11/28/2017	128	151	3	98	3,203		154	3	98.06		3,203		
W	11/29/2017	129	248	3	99	3,228		158	4	97.46		4,303		10
Th	11/30/2017	131	186	6	97	6,555		156	3	98.07		3,278		
F	12/01/2017	128	241	6	98	6,405		134	4	97.01		4,270		
S	12/02/2017	133	164	3	98	3,328		142	3	97.89		3,328		

TOTAL	4,187	5,688	147					3,734	91					
AVERAGE	135	183	5	97		5,391		120	3	97.46		3,339		11

Wk1	137	192	5			6,048		109	3			3,236		
Wk2	138	188	5			5,497		114	3			3,461		
Wk3	135	182	5			5,435		129	3			3,231		
Wk4	129	184	4			4,618		140	3			3,693		

MAX 182

CBOD 20 LBS---- 11,963

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - NOVEMBER 2017
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
W 11/01/2017	134	7.1	6.1	0.27	74
Th 11/02/2017	135	7.0	5.8	0.22	52
F 11/03/2017	130	7.1	5.6	0.13	17
S 11/04/2017	149	7.1	4.5	0.11	84
Su 11/05/2017	135	7.0	4.4	0.10	68
M 11/06/2017	128	6.9	3.1	0.12	42
T 11/07/2017	182	7.0	3.9	0.10	64
W 11/08/2017	132	7.0	7.0	0.17	4
Th 11/09/2017	128	7.1	6.2	0.08	4
F 11/10/2017	126	7.0	4.8	0.08	16
S 11/11/2017	126	7.0	5.3	0.08	14
Su 11/12/2017	132	7.1	4.8	0.09	6
M 11/13/2017	161	7.1	4.3	0.14	11
T 11/14/2017	129	7.0	4.7	0.20	15
W 11/15/2017	133	7.0	4.2	0.17	6
Th 11/16/2017	131	7.1	4.4	0.17	33
F 11/17/2017	130	7.0	4.7	0.16	53
S 11/18/2017	152	7.0	4.9	0.26	51
Su 11/19/2017	155	7.0	3.5	0.28	162
M 11/20/2017	131	7.0	4.6	0.20	26
T 11/21/2017	131	7.0	4.6	0.12	28
W 11/22/2017	142	7.0	4.4	0.05	15
Th 11/23/2017	132	7.0	4.8	0.11	7
F 11/24/2017	122	7.1	4.1	0.08	19
S 11/25/2017	129	7.0	4.5	0.08	20
Su 11/26/2017	128	7.0	5.4	0.14	11
M 11/27/2017	128	7.0	5.6	0.13	12
T 11/28/2017	128	7.1	5.3	0.15	11
W 11/29/2017	129	7.0	5.6	0.20	5
Th 11/30/2017	131	7.1	5.6	0.10	8
Total	4,059	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	135	6.9 7.1	3.1 4.9	0.14 0.28	20

Wk1 137
Wk2 138
Wk3 135
Wk4 129

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - NOVEMBER 2017

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
11/01/2017	17	106	204	156	162	141	81	89
11/02/2017	17	107	188	156	160	115	105	106
11/03/2017	17	102	228	164	172	146	107	112
11/04/2017	19	118	144	136	137	180	120	128
11/05/2017	19	105	208	172	177	163	108	116
11/06/2017	17	100	204	176	180	190	123	132
11/07/2017	20	148	236	312	304	144	96	101
11/08/2017	18	104	196	140	148	141	87	94
11/09/2017	17	101	196	228	224	125	79	85
11/10/2017	17	99	152	132	135	134	113	116
11/11/2017	17	98	236	168	177	145	113	117
11/12/2017	18	102	220	220	220	168	158	159
11/13/2017	19	130	232	272	267	132	88	93
11/14/2017	17	100	228	184	190	150	87	95
11/15/2017	17	102	240	164	174	132	75	82
11/16/2017	17	100	200	132	141	168	111	118
11/17/2017	17	99	200	108	120	165	102	110
11/18/2017	18	119	208	200	201	186	131	138
11/19/2017	20	118	220	156	164	191	125	134
11/20/2017	17	101	212	156	163	157	109	115
11/21/2017	17	102	240	172	181	195	114	125
11/22/2017	18	111	236	228	229	174	121	128
11/23/2017	18	100	228	144	155	226	127	141
11/24/2017	16	92	228	200	204	196	125	134
11/25/2017	17	98	232	168	176	192	114	124
11/26/2017	18	97	204	148	156	190	138	145
11/27/2017	17	97	216	136	147	192	80	95
11/28/2017	17	100	168	148	151	182	150	154
11/29/2017	17	99	192	256	248	174	155	158
11/30/2017	17	100	224	180	186	166	154	156
AVG	18	105	211	177	182	165	113	120

PERMIT

SWWPCP - NOVEMBER 2017

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
11/01/2017	NM	182	NM	NM	ND
11/02/2017		203			
11/03/2017	NM	158	NM	NM	ND
11/04/2017		199			
11/05/2017		204			
11/06/2017	148	225	158	17	89%
11/07/2017		154			
11/08/2017	95	150	103	18	82%
11/09/2017		131			
11/10/2017		161			
11/11/2017		171			
11/12/2017		220			
11/13/2017	102	153	108	12	89%
11/14/2017		159			
11/15/2017	106	140	110	34	69%
11/16/2017		190			
11/17/2017		193			
11/18/2017		202			
11/19/2017		262			
11/20/2017	122	170	128	29	77%
11/21/2017		218			
11/22/2017	144	200	151	17	89%
11/23/2017		251			
11/24/2017		251			
11/25/2017		214			
11/26/2017		246			
11/27/2017	115	208	127	16	87%
11/28/2017		221			
11/29/2017	158	190	162	33	80%
11/30/2017		176			
AVG	124	193	131	22	83%

DESIGN - 200 MGD

DATE	SWWPCP - NOVEMBER 2017					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
11/01/2017	17	106	11	134	164	
11/02/2017	17	107	11	135	159	
11/03/2017	17	102	11	130	162	
11/04/2017	19	118	12	149	193	0.03
11/05/2017	19	105	11	135	169	0.13
11/06/2017	17	100	11	128	150	T
11/07/2017	20	148	14	182	341	0.40
11/08/2017	18	104	10	132	150	0.01
11/09/2017	17	101	10	128	146	0.01
11/10/2017	17	99	10	126	151	
11/11/2017	17	98	11	126	152	
11/12/2017	18	102	12	132	154	
11/13/2017	19	130	12	161	276	0.24
11/14/2017	17	100	12	129	154	
11/15/2017	17	102	14	133	158	
11/16/2017	17	100	14	131	158	0.01
11/17/2017	17	99	14	130	157	
11/18/2017	18	119	15	152	280	0.03
11/19/2017	20	118	17	155	237	0.33
11/20/2017	17	101	13	131	154	
11/21/2017	17	102	12	131	188	
11/22/2017	18	111	13	142	231	0.09
11/23/2017	18	100	14	132	164	
11/24/2017	16	92	14	122	147	
11/25/2017	17	98	14	129	154	
11/26/2017	18	97	13	128	154	
11/27/2017	17	97	14	128	155	
11/28/2017	17	100	11	128	156	
11/29/2017	17	99	13	129	151	
11/30/2017	17	100	14	131	156	0.02
TOTAL	527	3,155	377	4,059		1.30
AVG	18	105	13	135		
			MIN	122	146	
			MAX	182	341	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF NOVEMBER 2017

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
11/01/2017	1.500	0.848	13.10	25.70	0.275
11/08/2017	1.230	0.692	21.20	28.80	0.464
11/15/2017	1.240	0.753	21.00	23.10	0.397
11/22/2017	1.070	0.856	22.90	28.30	0.365
11/29/2017	0.958	0.867	21.60	25.00	0.500
AVG	1.200	0.803	19.96	26.18	0.400
MAX	1.500	0.867	22.90	28.80	0.500

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
11/02/2017	< 0.010	< 0.020

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	11/08/2017
Copper	0.0100
Iron	0.2760
Iron Dissolved	0.0870
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0270

Organics Data (mg/L)

Southwest WPCP - Outfall

	11/06/2017
1,2-Dichloroethane	< 0.0025
Chloroform	0.0028
Tetrachloroethylene	< 0.0025
Trichloroethylene	< 0.0025

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
NOVEMBER 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD		MGD	MGD	
11/01/2017	0.92	0.35	38.57	1.84	2.22	239.99
11/02/2017	0.89	1.25	145.63	1.01	1.08	123.74
11/03/2017	0.76	1.03	103.76	1.35	1.30	144.83
11/04/2017	-	-	-	1.09	1.16	130.36
11/05/2017	0.93	0.77	82.17	1.27	1.05	109.65
11/06/2017	0.92	1.07	154.99	0.84	1.11	111.13
11/07/2017	-	-	-	1.23	1.11	136.59
11/08/2017	0.72	0.62	49.89	1.37	1.25	138.49
11/09/2017	1.10	0.72	80.61	0.54	0.25	26.96
11/10/2017	0.93	0.99	102.02	0.14	0.37	41.31
11/11/2017	0.91	1.23	130.22	0.98	1.00	101.70
11/12/2017	-	0.12	9.55	2.79	2.54	236.81
11/13/2017	0.92	0.13	13.92	1.29	1.34	120.77
11/14/2017	0.92	1.38	145.98	-	0.06	4.27
11/15/2017	0.92	1.17	131.47	0.80	0.87	99.34
11/16/2017	-	-	-	2.01	2.21	197.26
11/17/2017	0.91	0.58	63.79	1.64	1.62	167.33
11/18/2017	0.91	0.75	76.12	1.08	0.96	98.06
11/19/2017	0.91	1.22	127.10	1.25	1.03	99.39
11/20/2017	0.56	0.79	78.91	1.10	1.24	125.69
11/21/2017	-	-	-	1.48	1.39	136.60
11/22/2017	0.91	0.33	34.46	1.12	1.12	127.11
11/23/2017	-	0.46	44.78	1.03	1.27	128.84
11/24/2017	0.90	1.02	110.63	1.24	1.14	109.47
11/25/2017	0.92	0.90	97.49	1.08	1.10	123.13
11/26/2017	0.90	0.64	76.51	1.11	0.92	102.81
11/27/2017	0.91	0.63	70.96	1.14	1.42	155.69
11/28/2017	0.91	0.95	106.11	0.54	0.16	16.80
11/29/2017	0.90	1.02	110.67	0.33	0.63	68.66
11/30/2017	0.91	0.83	94.70	1.24	1.15	124.49
TOTAL	21.363	20.970	2,281	33.883	34.082	3,547
AVERAGE	0.712	0.699	76	1.129	1.136	118

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite 1 & 2

Report: NPW20171222-007
 Report Date: 12/22/2017

WW171102-009

Composite 24h 11/02/2017 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Phenols ^{B,D}	EPA 420.4			11/10/2017	1:50	<0.020 ^E	mg/L		mg/L

Data Qualifiers:

Phenols	Laboratory Fortified Matrix (LFM) recovery is 117%. Acceptance limits are 90 to 110%.
---------	---

WW171108-009

Composite 24h 11/08/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	11/29/2017	12:15	12/1/2017	11:53	28.8	mg/L as N		mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 122%. Acceptance limits are 90 to 110%.
-----	---

WW171115-009

Composite 24h 11/15/2017 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	11/22/2017	9:27	11/27/2017	12:22	23.1	mg/L as N		mg/L as N

Data Qualifiers:

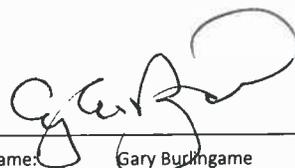
TKN	Laboratory Fortified Matrix (LFM) recovery is 89.5%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: Gary Burlingame
 Title: Laboratory Director
 Date: 12/22/2017



Debra A. McCarty, Water Commissioner

January 26, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for December 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 12/01/2017-12/31/2017

Report Due Date: 01/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 84280

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for December 2017

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - DECEMBER 2017

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM					CBOD5* %REM				

F	12/01/2017	128	241	6	98	6,405		133	4	96.99		4,270		
S	12/02/2017	133	162	3	98	3,328		141	3	97.88		3,328		
Su	12/03/2017	133	154	6	96	6,655		125	5	96.00		5,546		
M	12/04/2017	132	206	3	99	3,303		118	4	96.61		4,404		12
T	12/05/2017	164	231	5	98	6,839		137	5	96.35		6,839		
W	12/06/2017	131	192	7	96	7,648		133	3	97.75		3,278		15
Th	12/07/2017	130	210	4	98	4,337		123	4	96.74		4,337		
F	12/08/2017	127	190	3	98	3,178		125	4	96.79		4,237		
S	12/09/2017	140	225	4	98	4,670		104	3	97.10		3,503		
Su	12/10/2017	147	100	6	94	7,356		112	3	97.31		3,678		
M	12/11/2017	135	178	6	97	6,755		127	3	97.64		3,378		12
T	12/12/2017	134	187	6	97	6,705		116	2	98.28		2,235		
W	12/13/2017	126	127	5	96	5,254		116	3	97.42		3,153		12
Th	12/14/2017	140	155	4	97	4,670		147	2	98.64		2,335		
F	12/15/2017	126	253	4	98	4,203		141	2	98.59		2,102		13
S	12/16/2017	140	253	7	97	8,173		114	3	97.37		3,503		
Su	12/17/2017	139	126	4	97	4,637		146	4	97.25		4,637		
M	12/18/2017	133	148	7	95	7,765		117	3	97.44		3,328		11
T	12/19/2017	130	149	5	97	5,421		114	4	96.48		4,337		
W	12/20/2017	134	227	5	98	5,588		132	3	97.72		3,353		10
Th	12/21/2017	131	156	3	98	3,278		127	3	97.64		3,278		
F	12/22/2017	131	207	6	97	6,555		145	4	97.25		4,370		
S	12/23/2017	204	352	9	97	15,312		166	5	97.00		8,507		
Su	12/24/2017	161	126	6	95	8,056		104	3	97.12		4,028		
M	12/25/2017	130	118	6	95	6,505		104	2	98.07		2,168		9
T	12/26/2017	133	156	7	96	7,765		125	2	98.40		2,218		
W	12/27/2017	131	174	8	95	8,740		106	3	97.18		3,278		11
Th	12/28/2017	132	162	5	97	5,504		128	4	96.88		4,404		
F	12/29/2017	133	163	4	98	4,437		122	4	96.72		4,437		
S	12/30/2017	135	166	5	97	5,630		119	2	98.32		2,252		
Su	12/31/2017	137	183	4	98	4,570		114	3	97.37		3,428		

TOTAL	4,260	5,676	163					3,882	102					
AVERAGE	137	183	5	97		6,105		125	3	97.36		3,811		12

Wk1	137	201	5			5,233		123	4			4,592		
Wk2	135	179	5			6,160		125	3			2,912		
Wk3	143	195	6			6,936		135	4			4,544		
Wk4	136	152	6			6,662		116	3			3,255		

MAX 204

CBOD 20 LBS---- 12,640

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - DECEMBER 2017
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 12/01/2017	128	7.1	5.2	0.18	6
S 12/02/2017	133	7.0	5.3	0.21	24
Su 12/03/2017	133	7.1	5.3	0.21	18
M 12/04/2017	132	7.1	5.1	0.16	135
T 12/05/2017	164	7.1	4.8	0.13	33
W 12/06/2017	131	7.0	4.2	0.14	50
Th 12/07/2017	130	7.1	4.9	0.10	12
F 12/08/2017	127	7.0	4.7	0.09	15
S 12/09/2017	140	6.9	5.1	0.13	10
Su 12/10/2017	147	7.0	4.9	0.15	20
M 12/11/2017	135	7.1	5.4	0.15	7
T 12/12/2017	134	7.1	5.5	0.14	10
W 12/13/2017	126	7.1	6.4	0.27	81
Th 12/14/2017	140	7.2	6.2	0.25	13
F 12/15/2017	126	7.3	6.7	0.31	46
S 12/16/2017	140	6.9	6.7	0.21	66
Su 12/17/2017	139	7.1	6.4	0.22	99
M 12/18/2017	133	7.1	6.2	0.18	115
T 12/19/2017	130	7.1	6.5	0.07	32
W 12/20/2017	134	7.0	6.8	0.18	47
Th 12/21/2017	131	7.1	7.2	0.11	16
F 12/22/2017	131	7.0	6.9	0.16	44
S 12/23/2017	204	7.0	7.1	0.15	30
Su 12/24/2017	161	7.0	7.1	0.24	6
M 12/25/2017	130	7.1	8.2	0.10	13
T 12/26/2017	133	7.1	7.7	0.20	8
W 12/27/2017	131	7.0	8.0	0.20	5
Th 12/28/2017	132	7.1	7.8	0.12	22
F 12/29/2017	133	7.0	7.8	0.24	5
S 12/30/2017	135	7.1	7.7	0.22	5
Su 12/31/2017	137	7.0	8.2	0.08	131
Total	4,260	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	137	6.9 7.3	4.2 6.3	0.17 0.31	22

Wk1 137
Wk2 135
Wk3 143
Wk4 136

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - DECEMBER 2017

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
12/01/2017	16	98	244	240	241	208	122	133
12/02/2017	17	99	232	152	162	184	135	141
12/03/2017	18	101	196	148	154	157	120	125
12/04/2017	17	101	220	204	206	165	111	118
12/05/2017	18	129	224	232	231	187	131	137
12/06/2017	17	100	220	188	192	187	125	133
12/07/2017	17	98	220	208	210	167	116	123
12/08/2017	16	98	232	184	190	185	116	125
12/09/2017	18	107	176	232	225	155	96	104
12/10/2017	19	112	124	96	100	170	103	112
12/11/2017	17	104	244	168	178	192	118	127
12/12/2017	17	103	232	180	187	172	108	116
12/13/2017	16	97	172	120	127	151	111	116
12/14/2017	18	107	172	152	155	180	142	147
12/15/2017	16	97	236	256	253	186	135	141
12/16/2017	17	108	232	256	253	138	111	114
12/17/2017	18	106	244	108	126	278	126	146
12/18/2017	17	102	232	136	148	168	110	117
12/19/2017	16	101	240	136	149	196	102	114
12/20/2017	17	103	248	224	227	179	125	132
12/21/2017	16	101	216	148	156	179	120	127
12/22/2017	17	101	308	192	207	208	136	145
12/23/2017	22	162	256	364	352	245	157	166
12/24/2017	20	126	228	112	126	182	93	104
12/25/2017	18	98	204	104	118	189	90	104
12/26/2017	18	101	232	144	156	206	112	125
12/27/2017	17	101	244	164	174	189	94	106
12/28/2017	17	101	232	152	162	184	120	128
12/29/2017	17	103	180	160	163	184	113	122
12/30/2017	18	103	228	156	166	174	111	119
12/31/2017	18	105	200	180	183	179	104	114
AVG	17	106	222	177	183	185	117	125

PERMIT

SWWPCP - DECEMBER 2017

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
12/01/2017		231			
12/02/2017		215			
12/03/2017		193			
12/04/2017	131	200	140	18	87%
12/05/2017		199			
12/06/2017	134	201	143	34	76%
12/07/2017		197			
12/08/2017		204			
12/09/2017		185			
12/10/2017		180			
12/11/2017	127	201	136	28	79%
12/12/2017		211			
12/13/2017	159	185	162	NR	ND
12/14/2017		204			
12/15/2017		208			
12/16/2017		178			
12/17/2017		296			
12/18/2017		201			
12/19/2017		208			
12/20/2017	174	207	178	24	87%
12/21/2017		209			
12/22/2017		224			
12/23/2017		293			
12/24/2017		212			
12/25/2017		205			
12/26/2017		230			
12/27/2017	129	210	140	21	85%
12/28/2017		200			
12/29/2017		208			
12/30/2017		183			
12/31/2017		190			
AVG	142	209	150	25	83%

DESIGN - 200 MGD

DATE	SWWPCP - DECEMBER 2017					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
12/01/2017	16	98	14	128	169	
12/02/2017	17	99	17	133	163	
12/03/2017	18	101	14	133	162	
12/04/2017	17	101	14	132	155	
12/05/2017	18	129	17	164	315	0.16
12/06/2017	17	100	14	131	151	T
12/07/2017	17	98	15	130	150	
12/08/2017	16	98	13	127	152	
12/09/2017	18	107	15	140	174	0.37
12/10/2017	19	112	16	147	187	T
12/11/2017	17	104	14	135	169	T
12/12/2017	17	103	14	134	165	
12/13/2017	16	97	13	126	155	0.06
12/14/2017	18	107	15	140	163	T
12/15/2017	16	97	13	126	155	0.16
12/16/2017	17	108	15	140	220	
12/17/2017	18	106	15	139	180	
12/18/2017	17	102	14	133	157	T
12/19/2017	16	101	13	130	153	
12/20/2017	17	103	14	134	160	
12/21/2017	16	101	14	131	152	
12/22/2017	17	101	13	131	186	
12/23/2017	22	162	20	204	347	0.37
12/24/2017	20	126	15	161	250	0.13
12/25/2017	18	98	14	130	152	0.02
12/26/2017	18	101	14	133	148	
12/27/2017	17	101	13	131	160	
12/28/2017	17	101	14	132	153	
12/29/2017	17	103	13	133	155	
12/30/2017	18	103	14	135	172	0.04
12/31/2017	18	105	14	137	165	
TOTAL	540	3,273	447	4,260		1.31
AVG	17	106	14	137		
		MIN		126	148	
		MAX		204	347	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2017

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)							
Southwest WPCP - Southwest Outfall							
	NO2 - N	NO3 - N	NH3 - N	NH3 - N	TKN	TKN	P
12/04/2017	0.766	0.551	32.20		32.10		0.505
12/06/2017	0.734	0.555	32.30		33.90		0.408
12/08/2017	0.758	0.645	31.30		30.60		0.342
12/11/2017	0.594	0.461	28.50		27.70		0.433
12/13/2017	0.619	0.443	26.30	25.00	28.90	28.10	0.361
12/15/2017	0.555	0.461	26.80		28.40		0.515
12/20/2017	0.470	0.521	27.60		30.00		0.474
12/27/2017	0.770	0.640	25.80		25.10		0.368
AVG	0.658	0.535	28.42		29.42		0.426
MAX	0.770	0.645	32.30		33.90		0.515

Cyanide and Phenol Data (mg/L)			
Southwest WPCP - Southwest Outfall			
	Free Cyanide	Phenolics	
12/04/2017	< 0.010	< 0.020	
12/06/2017	< 0.010	< 0.020	
12/08/2017	< 0.010	< 0.020	
12/11/2017	< 0.010	< 0.020	
12/13/2017	< 0.010	< 0.020	
12/15/2017	< 0.010	< 0.020	
AVG	< 0.010	< 0.020	

Metals Data							
Southwest WPCP - Outfall							
Date	12/04/2017	12/06/2017	12/08/2017	12/11/2017	12/13/2017	12/15/2017	AVG
Copper	0.0110	0.0090	0.0120	0.0140	0.0130	0.0130	0.0120
Iron	0.2800	0.3120	0.2550	0.2970	0.2490	0.1920	0.2642
Iron Dissolved	0.1000	0.0810	0.0890	0.0890	0.0850	0.0910	0.0892
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0040	0.0040	0.0050	0.0040	0.0040	0.0040	0.0042
Selenium	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0330	0.0340	0.0390	0.0360	0.0370	0.0390	0.0363

Organics Data (mg/L)								
Southwest WPCP - Outfall								
	12/03/2017	12/04/2017	12/05/2017	12/06/2017	12/07/2017	12/08/2017	AVG	
1,2-Dichloroethane	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
alpha-Endosulfan	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Benzidine	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600
beta-BHC	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Chlordane	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400
Chloroform	0.0030	< 0.0010	0.0030	< 0.0010	0.0020	0.0020	< 0.0020	< 0.0020
Dieldrin	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Heptachlor	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Lindane (Gamma-BHC)	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
p,p'-DDD	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDE	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDT	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Tetrachloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trichloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Organics Data (mg/L) (Cont)					
Southwest WPCP - Outfall					
	12/10/2017	12/11/2017	12/12/2017	12/13/2017	12/15/2017
1,2-Dichloroethane	< 0.0010	< 0.0010	< 0.0010		
alpha-Endosulfan	< 0.000080	< 0.000080	< 0.000080	< 0.0000100	< 0.000008
Benzidine	< 0.0600	< 0.0600	< 0.0600	< 0.0610	< 0.0600
beta-BHC	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.0000200
Chlordane	< 0.000400	< 0.000400	< 0.000400	< 0.0004100	< 0.0004500
Chloroform	0.0020	0.0020	0.0020	0.0020	0.0020
Dieldrin	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Heptachlor	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Lindane (Gamma-BHC)	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
p,p'-DDD	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDE	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDT	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Tetrachloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trichloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2017

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

12/15/2017

Toxicity, Ceriodaphnia acute	<	1
Toxicity, Ceriodaphnia chronic		2
Toxicity, Pimphales acute		1.04
Toxicity, Pimphales chronic		2

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
DECEMBER 2017	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP MGD	Biosolids Recycle Center / Synagro MGD		From SWWPCP MGD	Biosolids Recycle Center / Synagro MGD	
12/01/2018	1.79	1.25	130.81	2.52	2.61	263.17
12/02/2018	-	0.65	73.82	1.87	2.01	205.62
12/03/2018	0.91	0.37	37.32	1.91	1.83	183.92
12/04/2018	0.93	1.08	114.74	1.27	1.35	115.87
12/05/2018	-	0.38	39.39	1.49	1.58	145.80
12/06/2018	0.94	0.55	59.63	1.31	1.32	121.57
12/07/2018	0.94	1.05	106.11	1.29	1.13	101.54
12/08/2018	0.91	0.28	29.52	1.26	1.16	120.30
12/09/2018	-	0.81	79.81	1.22	1.18	141.93
12/10/2018	0.90	1.01	101.96	1.25	1.23	123.16
12/11/2018	0.90	0.88	94.02	1.16	1.37	130.44
12/12/2018	0.88	0.91	96.49	1.15	0.94	83.75
12/13/2018	0.91	0.35	32.23	1.00	0.99	98.33
12/14/2018	0.89	0.78	77.88	1.23	1.13	111.28
12/15/2018	0.90	0.86	90.67	0.88	0.71	97.78
12/16/2018	-	0.64	65.34	0.53	0.93	94.80
12/17/2018	0.93	0.95	97.61	1.39	1.30	123.70
12/18/2018	0.45	0.45	46.92	1.53	1.57	151.94
12/19/2018	1.38	0.69	68.14	1.11	0.88	83.51
12/20/2018	0.92	0.94	101.08	0.29	0.44	40.24
12/21/2018	0.90	1.58	171.44	0.95	0.93	81.27
12/22/2018	-	-	-	2.06	2.10	201.80
12/23/2018	0.92	0.14	13.82	1.62	1.57	170.03
12/24/2018	0.94	1.30	138.54	1.08	0.90	86.39
12/25/2018	-	0.36	38.37	1.26	1.39	136.93
12/26/2018	0.93	0.74	71.67	1.35	1.25	140.73
12/27/2018	0.94	0.29	28.11	0.96	0.96	95.14
12/28/2018	-	0.90	92.15	0.64	0.76	79.90
12/29/2018	0.89	0.68	70.05	1.05	1.01	102.34
12/30/2018	-	0.16	12.24	2.00	2.11	198.87
12/31/2018	0.89	1.02	105.74	1.43	1.33	134.44
TOTAL	21.901	22.047	2,286	40.068	39.981	3,967
AVERAGE	0.706	0.711	74	1.293	1.290	128



Debra A. McCarty, Water Commissioner

January 26, 2018

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period from October 2017 to December 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 10/01/2017-12/31/2017

Report Due Date: 01/28/2018

Submitted By: Mary Ellen Sens

Submission Id: 84296

Submission Status: Received

Submission Type: Original



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
 PERMIT NUMBER

001
 OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **12/01/2017**
 DMR Effective To: **12/31/2017**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge? **No**

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	12	01	TO	2017	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	4.2	6.3	***	mg/L	Grab	1/day
	Permit Measurement	***	***	***	Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.9	***	7.3	S.U.	Grab	1/day
	Permit Measurement	***	***	***	6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	6105	8936	lbs/day	***	5	6	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75080 Wkly Avg	***	***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	28.42	32.30	mg/L	24-Hr Composite	2/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	658	770	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	535	645	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	29.42	33.90	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.426	515	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0010	***	mg/L	Grab	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	<.0020	***	mg/L	Grab	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.020	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0120	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0892	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0042	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0363	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	137	204	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	17	.31	mg/L	Grab	1/day
	Permit Measurement	***	***	***	***	5	10 MAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	< 010	***	mg/L	24-Hr Composite	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0010	***	mg/L	Grab	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0010	***	mg/L	Grab	5/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	22	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***	***	***	200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3811	4592	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	20 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	12640	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	36800 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.36	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	97	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 12/01/2017
 DMR Effective To: 12/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2017	12	01	TO	2017	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201712.xls	Daily Effluent Monitoring Form	2018-01-25T11:30:10-05:00	
SW WET Testing Composite (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:30:30-05:00	
NPDES Cyanide Monthly Grab - SW (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:28:43-05:00	
SW Daily Grab (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:29:26-05:00	
SW WET Testing Grab (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:31:09-05:00	
BLSSW201712.xls	Nutrient Monitoring Form	2018-01-26T10:25:01-05:00	
201712SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-01-25T11:32:53-05:00	
SWCSO 201712.xls	CSO Detailed Outfall Report Form	2018-01-25T11:32:26-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	YEAR	MO	DAY
					2018	1	26
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2017

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)							
Southwest WPCP - Southwest Outfall							
	NO2 - N	NO3 - N	NH3 - N	NH3 - N	TKN	TKN	P
12/04/2017	0.766	0.551	32.20		32.10		0.505
12/06/2017	0.734	0.555	32.30		33.90		0.408
12/08/2017	0.758	0.645	31.30		30.60		0.342
12/11/2017	0.594	0.461	28.50		27.70		0.433
12/13/2017	0.619	0.443	26.30	25.00	28.90	28.10	0.361
12/15/2017	0.555	0.461	26.80		28.40		0.515
12/20/2017	0.470	0.521	27.60		30.00		0.474
12/27/2017	0.770	0.640	25.80		25.10		0.368
AVG	0.658	0.535	28.42		29.42		0.426
MAX	0.770	0.645	32.30		33.90		0.515

Cyanide and Phenol Data (mg/L)			
Southwest WPCP - Southwest Outfall			
	Free Cyanide	Phenolics	
12/04/2017	< 0.010	< 0.020	
12/06/2017	< 0.010	< 0.020	
12/08/2017	< 0.010	< 0.020	
12/11/2017	< 0.010	< 0.020	
12/13/2017	< 0.010	< 0.020	
12/15/2017	< 0.010	< 0.020	
AVG	< 0.010	< 0.020	

Metals Data							
Southwest WPCP - Outfall							
Date	12/04/2017	12/06/2017	12/08/2017	12/11/2017	12/13/2017	12/15/2017	AVG
Copper	0.0110	0.0090	0.0120	0.0140	0.0130	0.0130	0.0120
Iron	0.2800	0.3120	0.2550	0.2970	0.2490	0.1920	0.2642
Iron Dissolved	0.1000	0.0810	0.0890	0.0890	0.0850	0.0910	0.0892
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0040	0.0040	0.0050	0.0040	0.0040	0.0040	0.0042
Selenium	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0330	0.0340	0.0390	0.0360	0.0370	0.0390	0.0363

Organics Data (mg/L)								
Southwest WPCP - Outfall								
	12/03/2017	12/04/2017	12/05/2017	12/06/2017	12/07/2017	12/08/2017	AVG	
1,2-Dichloroethane	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
alpha-Endosulfan	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Benzidine	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600	< 0.0600
beta-BHC	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Chlordane	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400	< 0.000400
Chloroform	0.0030	< 0.0010	0.0030	< 0.0010	0.0020	0.0020	< 0.0020	< 0.0020
Dieldrin	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Heptachlor	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Lindane (Gamma-BHC)	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
p,p'-DDD	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDE	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDT	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Tetrachloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trichloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010

Organics Data (mg/L) (Cont)					
Southwest WPCP - Outfall					
	12/10/2017	12/11/2017	12/12/2017	12/13/2017	12/15/2017
1,2-Dichloroethane	< 0.0010	< 0.0010	< 0.0010		
alpha-Endosulfan	< 0.000080	< 0.000080	< 0.000080	< 0.0000100	< 0.000080
Benzidine	< 0.0600	< 0.0600	< 0.0600	< 0.0610	< 0.0600
beta-BHC	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.0000200
Chlordane	< 0.000400	< 0.000400	< 0.000400	< 0.0004100	< 0.0004500
Chloroform	0.0020	0.0020	0.0020	0.0020	0.0020
Dieldrin	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Heptachlor	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
Lindane (Gamma-BHC)	< 0.000080	< 0.000080	< 0.000080	< 0.000080	< 0.000080
p,p'-DDD	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDE	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
p,p'-DDT	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160	< 0.0000160
Tetrachloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
Trichloroethylene	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reorting Frequency: Quarterly
 DMR Effective From: 10/01/2017
 DMR Effective To: 12/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2017	10	01	TO	2017	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	<1	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Chronic - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	2	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Acute - Pimephales Survival	Sample Measurement	***	***	***	***	***	1.04	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Chlordane	Sample Measurement	***	***	***	***	<0004120	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
alpha-Endosulfan	Sample Measurement	***	***	***	***	<0000084	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
Benzidine	Sample Measurement	***	***	***	***	<0602	***	mg/L	Grab	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		Grab	1/quarter
4,4-DDT	Sample Measurement	***	***	***	***	<0000160	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
4,4-DDD	Sample Measurement	***	***	***	***	<0000160	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
4,4-DDE	Sample Measurement	***	***	***	***	<0000160	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
beta-BHC	Sample Measurement	***	***	***	***	<0000104	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
gamma-BHC (Lindane)	Sample Measurement	***	***	***	***	<0000081	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
Dieldrin	Sample Measurement	***	***	***	***	<0000160	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
Heptachlor	Sample Measurement	***	***	***	***	<0000081	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		24-Hr Composite	1/quarter
Toxicity, Chronic - Pimephales Survival	Sample Measurement	***	***	***	***	***	2	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
SW WET Testing Composite (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:39:48-05:00	
SW WET Testing Grab (01-24-2018).pdf	Laboratory Accreditation Form	2018-01-26T10:40:17-05:00	
BLSSW201712.xls	WET Test Summary Report	2018-01-26T10:40:56-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	1	26
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



Debra A. McCarty, Water Commissioner

January 26, 2018

The City of Philadelphia hereby submits the Annually Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for 2017. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Annually

Report Type: DMR

Reporting Period: 01/01/2017-12/31/2017

Report Due Date: 01/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 84308

Submission Status: Received

Submission Type: Original

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2017

Central Laboratory

Stormwater Sampling (mg/L)

Southwest WPCP - Outfall

10/24/2017

COD	<	50
HEM (Oil & Grease)	<	5.0
Phosphorous Total		0.27
TKN	<	5
CBOD5		4
TSS		17.2

Stormwater Sampling (pH)

10/24/2017

pH 7.4

Stormwater Sampling (#/100mls)

10/24/2017

Fecal Coliform > 2,419.6

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES
Southwest Water Pollution Control Plant
NPDES SUMMARY FOR THE MONTH OF DECEMBER 2017

Central Laboratory

PCB (pg/L)

Southwest WPCP - Ou

PCB	04/11/2017	05/06/2017	09/29/2017	10/09/2017	AVG
Dry Test	3,761		2,784		3,273
Wet Test		3,948		3,972	3,960



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reorting Frequency: Annually
 DMR Effective From: 01/01/2017
 DMR Effective To: 12/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2017	01	01	TO	2017	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
PCBs Wet Weather Analysis	Sample Measurement	***	***	***	3948	***	3972	pg/L	24-Hr Composite	2/year
	Permit Measurement	***	***		Monitor & Report Min	***	Monitor & Report Max		24-Hr Composite	2/year
PCBs Dry Weather Analysis	Sample Measurement	***	***	***	2784	***	3761	pg/L	24-Hr Composite	2/year
	Permit Measurement	***	***		Monitor & Report Min	***	Monitor & Report Max		24-Hr Composite	2/year
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

085
OUTFALL NUMBER

Reporting Frequency: Annually
 DMR Effective From: 01/01/2017
 DMR Effective To: 12/31/2017
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2017	01	01	TO	2017	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chemical Oxygen Demand (COD)	Sample Measurement	**	**	**	**	**	<50	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
pH	Sample Measurement	**	**	**	**	**	7.4	S U	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Total Suspended Solids	Sample Measurement	**	**	**	**	**	17.2	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Oil and Grease	Sample Measurement	**	**	**	**	**	<5.0	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Total Kjeldahl Nitrogen	Sample Measurement	**	**	**	**	**	<5	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Total Phosphorus	Sample Measurement	**	**	**	**	**	270	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Fecal Coliform	Sample Measurement	**	**	**	**	**	>2419.6	CFU/100 ml	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	**	**	**	**	**	4	mg/L	Grab	1/year
	Permit Measurement	**	**	**	**	**	Monitor & Report Daily Max		Grab	1/year
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
BLSSW201712.xls	Annual Nutrient Summary Form	2018-01-26T10:53:34-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
Annual PCB and Stormwater DMR	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	1	26
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

NPDES Cyanide Monthly Grab - SW

Report Date: 01/24/2018

WW171206-028

Grab 12/06/2017 06:45

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Cyanide Total ^{B,D}	EPA 335.4	12/15/2017	16:45	12/18/2017	15:08	<0.010 ^E	mg/L	0.010	mg/L

Data Qualifiers:

Cyanide Total	Laboratory Fortified Matrix (LFM) recovery is 74%. Acceptance limits are 90 to 110%.
---------------	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 1/24/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report Date: 01/24/2018

WW171205-005

Grab 12/05/2017 06:35

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			12/6/2017	8:24	33.2	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.633. The maximum acceptable PCV is 0.556. The measured results were 2.0 MPN/100mL and 8.6 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

WW171211-005

Grab 12/11/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			12/12/2017	8:16	7.3	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.560. The maximum acceptable PCV is 0.556. The measured results were 3.0 MPN/100mL and 10.9 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 1/24/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Composite

Report Date: 01/24/2018

WW171211-020

Composite 24h 12/11/2017 00:59

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD5	SM 5210 B	12/11/2017	14:20	12/16/2017	10:30	2.26	mg/L	2	mg/L
Chlordane ^{B,D}	EPA 608	12/12/2017	16:16	12/22/2017	0:28	<0.40 ^E	µg/L	0.4	µg/L
Cyanide Free ^{B,D}	SM 4500-CN E-1999			12/12/2017	13:12	<0.010 ^E	mg/L	0.01	mg/L
Mercury ^{B,D}	EPA 245.1 rev 3	12/18/2017	8:00	12/19/2017	7:31	<0.00020 ^E	mg/L	0.0002	mg/L
Phenols ^{B,D}	EPA 420.4			12/15/2017	1:57	<0.020 ^E	mg/L	0.02	mg/L

Data Qualifiers:

CBOD5	GGA recovery is 156 mg/L. Acceptance limits are 167.5 to 228.5 mg/L.
Chlordane	The response for Chlordane in the initial calibration verification standard is outside the QC acceptance limits. Since the response is high indicating increased sensitivity, and the target analyte is not detected in the sample, the data is reported.
Cyanide Free	The Relative Percent Difference (RPD) between the sample and sample duplicate is 66%. The maximum acceptable RPD is 20%. The measured results were 0.00810 and 0.0160 mg/l.
Mercury	Laboratory Fortified Matrix (LFM) recovery is 79%. Acceptance limits are 80 to 120%.
Phenols	Laboratory Fortified Matrix (LFM) recovery is 111%. Acceptance limits are 90 to 110%.

WW171215-010

Composite 24h 12/15/2017 00:59

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD5	SM 5210 B	12/15/2017	12:40	12/20/2017	8:40	2.61	mg/L	2	mg/L
N-Nitrosodimethylamine ^{B,D}	EPA 625	12/19/2017	17:00	12/21/2017	3:08	<5.0 ^E	µg/L	5	µg/L
Phenols ^{B,D}	EPA 420.4			12/24/2017	17:50	<0.020 ^E	mg/L	0.02	mg/L

Data Qualifiers:

CBOD5	GGA recovery is 164.50 mg/L. The acceptance limits are 167.5 to 228.5 mg/L.
N-Nitrosodimethylamine	The recovery of the LCS is 52% and the LCSD is 52%, which is outside the acceptance limits of 54-120%. Sufficient sample was not available to repeat the analysis.
Phenols	Laboratory Fortified Matrix (LFM) recovery is 118%. Acceptance limits are 90 to 110%.

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo

Title: Laboratory Manager

Date: 1/24/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Grab

Report Date: 01/24/2018

WW171214-010

Grab 12/14/2017 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane	NA			1/1/2000	0:00	NM			
Chloroform	NA			1/1/2000	0:00	NM	µg/L		µg/L
Tetrachloroethene	NA			1/1/2000	0:00	NM			
Trichloroethene	NA			1/1/2000	0:00	NM			

Data Qualifiers:

1,2-Dichloroethane	Sample lost to laboratory accident.
Chloroform	Sample lost to laboratory accident.
Tetrachloroethene	Sample lost to laboratory accident.
Trichloroethene	Sample lost to laboratory accident.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 1/24/2018



Debra A. McCarty, Water Commissioner

February 28, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for January 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 01/01/2018-01/31/2018

Report Due Date: 02/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 89070

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for January 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - JANUARY 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

S	12/31/2017	137	183	4	98	4,570		114	3	97.37		3,428		
M	01/01/2018	137	115	4	97	4,570		123	3	97.56		3,428		14
T	01/02/2018	136	145	4	97	4,537		119	4	96.63		4,537		
W	01/03/2018	137	166	3	98	3,428		108	3	97.22		3,428		10
Th	01/04/2018	138	160	7	96	8,056		113	3	97.35		3,453		
F	01/05/2018	139	134	3	98	3,478		119	2	98.32		2,319		
S	01/06/2018	143	152	5	97	5,963		108	2	98.14		2,385		
Su	01/07/2018	148	288	6	98	7,406		131	3	97.72		3,703		
M	01/08/2018	165	246	4	98	5,504		117	4	96.57		5,504		12
T	01/09/2018	157	257	3	99	3,928		92	4	95.63		5,238		
W	01/10/2018	161	71	4	94	5,371		110	2	98.19		2,685		9
Th	01/11/2018	167	239	6	97	8,357		127	6	95.26		8,357		
F	01/12/2018	311	287	10	97	25,937		78	7	91.07		18,156		
S	01/13/2018	196	170	5	97	8,173		96	4	95.85		6,539		
Su	01/14/2018	172	197	10	95	14,345		88	3	96.57		4,303		
M	01/15/2018	172	130	6	95	8,607		86	3	96.53		4,303		12
T	01/16/2018	200	162	4	98	6,672		101	3	97.04		5,004		
W	01/17/2018	175	173	4	98	5,838		103	3	97.07		4,379		13
Th	01/18/2018	161	198	5	97	6,714		129	7	94.56		9,399		
F	01/19/2018	161	109	5	95	6,714		103	3	97.09		4,028		
S	01/20/2018	162	200	4	98	5,404		118	3	97.46		4,053		
Su	01/21/2018	159	144	5	97	6,630		100	4	96.00		5,304		
M	01/22/2018	157	259	8	97	10,475		102	4	96.10		5,238		15
T	01/23/2018	215	236	5	98	8,966		121	7	94.20		12,552		
W	01/24/2018	159	153	5	97	6,630		115	5	95.64		6,630		17
Th	01/25/2018	152	165	4	98	5,071		118	3	97.47		3,803		
F	01/26/2018	151	148	6	96	7,556		96	3	96.87		3,778		
S	01/27/2018	150	130	4	97	5,004		103	3	97.09		3,753		
Su	01/28/2018	197	143	4	97	6,572		99	4	95.97		6,572		
M	01/29/2018	153	183	4	98	5,104		118	2	98.31		2,552		12
T	01/30/2018	166	147	5	97	6,922		105	3	97.14		4,153		
W	01/31/2018	152	233	6	97	7,606		138	2	98.55		2,535		10

TOTAL	5,149	5,538	158					3,384	112					
AVERAGE	166	179	5	97		7,275		109	4	96.62		5,228		12

Wk1	138	151	4			4,943		115	3			3,282		
Wk2	186	222	5			9,240		107	4			7,169		
Wk3	172	167	5			7,756		104	4			5,067		
Wk4	163	176	5			7,190		108	4			5,865		

MAX 311

CBOD 20 LBS---- 16,238

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - JANUARY 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
M 01/01/2018	137	7.1	7.7	0.18	130
T 01/02/2018	136	7.1	8.0	0.20	461
W 01/03/2018	137	7.0	8.1	0.19	166
Th 01/04/2018	138	7.1	7.6	0.18	20
F 01/05/2018	139	7.1	7.7	0.17	19
S 01/06/2018	143	7.1	8.0	0.21	22
Su 01/07/2018	148	7.1	8.6	0.21	3
M 01/08/2018	165	7.1	7.8	0.16	3
T 01/09/2018	157	7.1	7.9	0.31	3
W 01/10/2018	161	7.0	7.7	0.20	5
Th 01/11/2018	167	7.0	8.2	0.21	3
F 01/12/2018	311	7.1	8.4	0.25	10
S 01/13/2018	196	7.0	7.0	0.42	18
Su 01/14/2018	172	7.0	8.7	0.39	16
M 01/15/2018	172	7.1	8.9	0.33	9
T 01/16/2018	200	7.1	8.2	0.36	12
W 01/17/2018	175	7.2	8.1	0.16	14
Th 01/18/2018	161	7.1	8.6	0.14	13
F 01/19/2018	161	7.1	8.4	0.24	9
S 01/20/2018	162	7.0	8.4	0.25	8
Su 01/21/2018	159	7.0	7.6	0.24	4
M 01/22/2018	157	7.1	7.2	0.16	4
T 01/23/2018	215	7.0	8.7	0.17	461
W 01/24/2018	159	7.0	7.9	0.08	9
Th 01/25/2018	152	7.0	7.4	0.24	6
F 01/26/2018	151	7.1	7.8	0.10	1
S 01/27/2018	150	7.1	7.9	0.18	1
Su 01/28/2018	197	7.2	7.2	0.21	4
M 01/29/2018	153	7.1	6.7	0.20	27
T 01/30/2018	166	7.1	7.1	0.14	28
W 01/31/2018	152	7.1	8.4	0.24	8
Total	5,149	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	166	7.0 7.2	6.7 7.9	0.22 0.42	12

Wk1 138
Wk2 186
Wk3 172
Wk4 163

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - JANUARY 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
01/01/2018	18	105	212	100	115	177	115	123
01/02/2018	17	106	236	132	145	207	106	119
01/03/2018	17	108	212	160	166	163	100	108
01/04/2018	17	107	300	140	160	179	104	113
01/05/2018	17	109	232	120	134	172	112	119
01/06/2018	18	112	320	128	152	195	95	108
01/07/2018	17	115	408	272	288	203	122	131
01/08/2018	19	128	228	248	246	159	111	117
01/09/2018	17	124	232	260	257	154	84	92
01/10/2018	18	127	220	52	71	136	107	110
01/11/2018	19	132	232	240	239	155	123	127
01/12/2018	50	223	284	288	287	117	71	78
01/13/2018	26	151	180	168	170	203	80	96
01/14/2018	21	133	232	192	197	149	79	88
01/15/2018	20	135	236	116	130	151	78	86
01/16/2018	49	136	228	140	162	133	91	101
01/17/2018	20	140	212	168	173	153	96	103
01/18/2018	19	126	216	196	198	179	122	129
01/19/2018	18	126	180	100	109	142	98	103
01/20/2018	19	122	232	196	200	180	110	118
01/21/2018	19	124	200	136	144	159	92	100
01/22/2018	18	123	224	264	259	168	94	102
01/23/2018	23	173	200	240	236	160	116	121
01/24/2018	19	123	188	148	153	194	104	115
01/25/2018	18	118	232	156	165	241	102	118
01/26/2018	18	117	176	144	148	132	91	96
01/27/2018	18	117	236	116	130	170	94	103
01/28/2018	22	158	228	132	143	165	91	99
01/29/2018	19	119	208	180	183	154	113	118
01/30/2018	19	132	232	136	147	165	97	105
01/31/2018	19	117	236	232	233	112	142	138
AVG	21	129	232	171	179	165	101	109

PERMIT

SWWPCP - JANUARY 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
01/01/2018		180			
01/02/2018		221			
01/03/2018	138	180	143	20	86%
01/04/2018		254			
01/05/2018	170	215	176		
01/06/2018		208			
01/07/2018		278			
01/08/2018		215			
01/09/2018		143			
01/10/2018	118	164	123	17	86%
01/11/2018		209			
01/12/2018		119			
01/13/2018		213			
01/14/2018		215			
01/15/2018	99	188	109	16	85%
01/16/2018		163			
01/17/2018	111	176	118	18	85%
01/18/2018		206			
01/19/2018		164			
01/20/2018		193			
01/21/2018		184			
01/22/2018	122	200	131	20	85%
01/23/2018		176			
01/24/2018	123	212	134	25	81%
01/25/2018		251			
01/26/2018		157			
01/27/2018		195			
01/28/2018		185			
01/29/2018	128	187	135	16	88%
01/30/2018		207			
01/31/2018	128	157	132	26	80%
AVG	126	194	133	20	85%

DESIGN - 200 MGD

DATE	SWWPCP - JANUARY 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
01/01/2018	18	105	14	137	172	
01/02/2018	17	106	13	136	163	
01/03/2018	17	108	12	137		
01/04/2018	17	107	14	138	175	0.25
01/05/2018	17	109	13	139		
01/06/2018	18	112	13	143	168	
01/07/2018	17	115	16	148	177	
01/08/2018	19	128	18	165	184	0.06
01/09/2018	17	124	16	157	221	
01/10/2018	18	127	16	161	187	
01/11/2018	19	132	16	167	220	
01/12/2018	50	223	38	311	499	1.42
01/13/2018	26	151	19	196	236	0.05
01/14/2018	21	133	18	172	207	
01/15/2018	20	135	17	172	207	
01/16/2018	49	136	15	200	196	T
01/17/2018	20	140	15	175	212	0.07
01/18/2018	19	126	16	161	180	
01/19/2018	18	126	17	161	195	
01/20/2018	19	122	21	162	188	
01/21/2018	19	124	16	159	189	
01/22/2018	18	123	16	157	249	T
01/23/2018	23	173	19	215	318	0.46
01/24/2018	19	123	17	159	180	T
01/25/2018	18	118	16	152	178	
01/26/2018	18	117	16	151	185	
01/27/2018	18	117	15	150	211	
01/28/2018	22	158	17	197	296	0.40
01/29/2018	19	119	15	153	174	T
01/30/2018	19	132	15	166	238	0.14
01/31/2018	19	117	16	152	172	
TOTAL	648	3,986	515	5,149		2.85
AVG	21	129	17	166		
			MIN	136	163	
			MAX	311	499	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF JANUARY 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
01/03/2018	0.872	0.512	26.60	25.10	0.801
01/10/2018	0.991	1.250	26.40	26.40	0.404
01/17/2018	0.956	1.380	16.80	18.60	0.254
01/24/2018	0.864	0.537	18.20	19.40	0.354
01/31/2018	1.020	0.536	18.60	17.20	0.303
AVG	0.941	0.843	21.32	21.34	0.423
MAX	1.020	1.380	26.60	26.40	0.801

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
01/18/2018	< 0.050	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	01/24/2018
Copper	0.0090
Iron Dissolved	0.5270
Lead	< 0.0030
Nickel	0.0050
Selenium	< 0.0030
Zinc	0.0450

Organics Data (mg/L)

Southwest WPCP - Outfall

	01/15/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0032
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JANUARY 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro From SWWPCP		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro From SWWPCP	
	MGD	MGD		MGD	MGD	
01/01/2018	0.884	0.911	99	1.230	1.546	159.6
01/02/2018	0.909	0.717	68	1.176	0.970	95.1
01/03/2018	0.900	0.218	24	0.579	0.489	49.7
01/04/2018	0.908	0.886	108	0.860	0.914	92.0
01/05/2018	0.000	0.831	88	0.929	0.930	95.5
01/06/2018	0.896	0.028	2	0.574	0.702	77.5
01/07/2018	0.000	0.904	124	1.144	1.318	123.7
01/08/2018	0.892	0.448	63	1.516	1.262	140.3
01/09/2018	0.932	1.339	182	1.067	1.210	107.7
01/10/2018	1.817	1.122	120	0.866	0.679	74.8
01/11/2018	0.907	1.246	102	0.265	0.415	38.4
01/12/2018	0.920	1.038	106	1.067	1.282	114.9
01/13/2018	0.901	0.603	60	1.899	1.727	162.8
01/14/2018	0.789	0.658	66	1.761	1.839	217.8
01/15/2018	0.000	0.607	62	1.874	1.652	195.1
01/16/2018	0.944	0.501	48	0.772	0.792	96.0
01/17/2018	0.000	0.357	38	0.000	0.000	0.0
01/18/2018	0.926	0.861	98	0.853	0.930	100.6
01/19/2018	0.955	0.232	26	2.580	2.670	290.3
01/20/2018	0.000	0.921	100	1.303	1.285	141.0
01/21/2018	0.949	0.427	47	2.087	2.023	229.6
01/22/2018	0.942	1.003	107	0.584	0.794	87.8
01/23/2018	0.902	1.070	118	0.000	0.000	0.0
01/24/2018	0.931	0.774	73	2.008	1.855	196.4
01/25/2018	0.924	0.736	76	1.722	1.556	178.2
01/26/2018	0.929	0.998	107	1.227	1.414	141.8
01/27/2018	0.894	0.967	97	1.277	1.437	182.3
01/28/2018	0.937	1.228	143	0.779	0.490	47.0
01/29/2018	0.949	0.621	64	1.298	1.462	180.0
01/30/2018	0.930	1.044	120	0.698	0.490	49.3
01/31/2018	0.913	1.333	158	1.365	1.403	152.1
TOTAL	24.677	24.631	2,695	35.358	35.538	3,817
AVERAGE	0.796	0.795	87	1.141	1.146	123



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 01/01/2018
 DMR Effective To: 01/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	01	01	TO	2018	01	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	6.7	7.9	***	mg/L	Grab	1/day
	Permit Measurement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	7.0	***	7.2	S.U.	Grab	1/day
	Permit Measurement	***	***		6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	7275	9240	lbs/day	***	5	5	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	21.32	26.60	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	941	1.020	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	843	1.380	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	21.34	26.40	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.423	.801	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0032	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0090	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	5270	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0450	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	166	311	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	22	.42	mg/L	Grab	1/day
	Permit Measurement	***	***	***	***	5	1MAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	< .050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	12	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***	***	***	200	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	5228	7169	lbs/day	***	4	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	20	40		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	16238	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	36000 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	96.62	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	97	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 01/01/2018
 DMR Effective To: 01/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	01	01	TO	2018	01	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW 201801.xls	Daily Effluent Monitoring Form	2018-02-27T16:04:11-05:00	
SW Outfall Monthly Grab (02-21-2018).pdf	Laboratory Accreditation Form	2018-02-27T16:07:06-05:00	
SW Daily Composite (02-21-2018).pdf	Laboratory Accreditation Form	2018-02-27T16:06:11-05:00	
SW Daily Grab (02-21-2018).pdf	Laboratory Accreditation Form	2018-02-27T16:06:37-05:00	
BLSSW201801.xls	Nutrient Monitoring Form	2018-02-27T16:04:46-05:00	
201801SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-02-27T16:05:15-05:00	
SWCSO 201801.xls	CSO Detailed Outfall Report Form	2018-02-27T16:05:40-05:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the 12th of the month but was not used in compliance reporting. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	2	27
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180221-008
 Report Date: 02/21/2018

SW Daily Composite

Composite 24h 01/17/2018 06:50

WW180117-009

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	1/25/2018	11:04	1/30/2018	11:39	18.6	mg/L as N	1	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW180124-009

Composite 24h 01/24/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	1/25/2018	11:04	1/30/2018	11:48	19.4	mg/L as N	1	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 2/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report: NPW20180221-009
 Report Date: 02/21/2018

WW180131-005

Grab 01/31/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			2/1/2018	8:33	8.4	MPN/100	<1	MPN/100

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.708. The maximum acceptable PCV is 0.556. The measured results were 4.1 MPN/100mL and <1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 2/21/2018

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Outfall Monthly Grab

Report: NPW20180221-010
Report Date: 02/21/2018

WW180115-011

Grab 01/15/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Trichloroethene ^{B,D}	EPA 624			1/20/2018	11:45	<0.5 ^E	µg/L	0.5	µg/L

Data Qualifiers:

Trichloroethene	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
-----------------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: John Consolvo
Title: Laboratory Manager
Date: 2/21/2018



Debra A. McCarty, Water Commissioner

March 28, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for February 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 02/01/2018-02/28/2018

Report Due Date: 03/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 92337

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for February 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - FEBRUARY 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Th	02/01/2018	168	170	6	96	8,422		101	3	97.04		4,211		
F	02/02/2018	155	141	7	95	9,049		102	3	97.05		3,878		
S	02/03/2018	148	149	5	97	6,172		107	3	97.19		3,703		
Su	02/04/2018	245	254	9	96	18,390		133	6	95.50		12,260		
M	02/05/2018	165	149	7	95	9,633		123	4	96.74		5,504		13
T	02/06/2018	156	104	4	96	5,204		111	2	98.20		2,602		
W	02/07/2018	271	136	8	94	18,103		79	8	89.91		18,103		22
Th	02/08/2018	169	154	5	97	7,047		104	3	97.11		4,228		
F	02/09/2018	162	166	3	98	4,053		103	2	98.05		2,702		
S	02/10/2018	235	235	4	98	7,840		105	5	95.24		9,800		
Su	02/11/2018	356	186	24	87	50,040	71,281	70	6	91.44		17,820		
M	02/12/2018	197	98	4	96	6,572		70	2	97.13		3,286		8
T	02/13/2018	180	127	5	96	7,506		82	2	97.56		3,002		
W	02/14/2018	190	137	5	96	7,923		104	5	95.18		7,923		16
Th	02/15/2018	212	186	6	97	10,608		90	2	97.79		3,536		
F	02/16/2018	220	165	4	98	7,339		88	2	97.74		3,670		
S	02/17/2018	210	136	5	96	8,757		86	4	95.36		7,006		
Su	02/18/2018	195	145	4	97	6,505		85	6	92.98		9,758		
M	02/19/2018	169	117	4	97	5,638		93	3	96.76		4,228		11
T	02/20/2018	174	226	5	98	7,256		120	5	95.83		7,256		
W	02/21/2018	165	157	4	97	5,504		104	4	96.16		5,504		14
Th	02/22/2018	173	204	5	98	7,214		142	2	98.60		2,886		
F	02/23/2018	191	118	4	97	6,372		95	4	95.79		6,372		
S	02/24/2018	186	145	4	97	6,205		100	3	97.01		4,654		
Su	02/25/2018	253	114	5	96	10,550		77	5	93.50		10,550		
M	02/26/2018	178	113	4	96	5,938		83	2	97.58		2,969		11
T	02/27/2018	171	196	7	96	9,983		96	3	96.88		4,278		
W	02/28/2018	165	207	5	98	6,881		101	2	98.03		2,752		11
Th	03/01/2018	240	111	6	95	12,001		102	2	98.04		4,000		
F	03/02/2018	354	117	6	95	17,691		116	5	95.69		14,742		
S	03/03/2018	246	137	16	88	32,769		62	2	96.77		4,096		

TOTAL	5,460	4,434	162					2,755	101					
AVERAGE	195	158	6	96		9,668		98	4	96.19		6,230		13

Wk1	200	171	6			10,038		108	4			7,886		
Wk2	224	148	8			14,107		84	3			6,606		
Wk3	179	159	4			6,385		106	4			5,808		
Wk4	229	142	7			13,687		91	3			6,198		

MAX 356

CBOD 20 LBS---- 21,551

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT

SWWPCP - FEBRUARY 2018

GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Th 02/01/2018	168	7.0	8.2	0.17	8
F 02/02/2018	155	7.1	7.4	0.23	43
S 02/03/2018	148	7.0	9.3	0.27	6
Su 02/04/2018	245	7.1	9.2	0.17	5
M 02/05/2018	165	7.1	8.1	0.39	10
T 02/06/2018	156	6.9	9.1	0.12	9
W 02/07/2018	271	7.1	7.9	0.14	81
Th 02/08/2018	169	7.2	9.2	0.37	146
F 02/09/2018	162	7.1	8.9	0.31	8
S 02/10/2018	235	7.1	8.4	0.24	9
Su 02/11/2018	356	7.1	7.9	0.47	136
M 02/12/2018	197	7.0	6.8	0.22	21
T 02/13/2018	180	7.1	8.1	0.32	12
W 02/14/2018	190	7.1	9.2	0.32	27
Th 02/15/2018	212	7.0	8.6	0.35	225
F 02/16/2018	220	7.0	6.9	0.32	118
S 02/17/2018	210	7.0	7.7	0.26	6
Su 02/18/2018	195	7.1	7.7	0.25	36
M 02/19/2018	169	6.9	6.0	0.10	3
T 02/20/2018	174	7.0	7.6	0.20	6
W 02/21/2018	165	7.1	6.6	0.16	17
Th 02/22/2018	173	7.0	6.3	0.15	10
F 02/23/2018	191	6.9	8.4	0.17	6
S 02/24/2018	186	6.9	6.9	0.12	3
Su 02/25/2018	253	6.9	7.4	0.33	9
M 02/26/2018	178	7.0	6.2	0.24	4
T 02/27/2018	171	7.1	7.2	0.24	20
W 02/28/2018	165	7.0	7.0	0.19	59
Total Avg	6,299 203	MIN MAX 6.9 7.2	MIN AVG 6.0 7.8	AVG MAX 0.24 0.47	MEAN 16

Wk1 200
Wk2 224
Wk3 179
Wk4 229

NPDES/
LIMIT EFFLUENT
 MIN MAX
 6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - FEBRUARY 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DELCO MGD	TRIPLE GRAVITY MGD	DELCO MG/L	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO MG/L	EAST HIGH LEVEL	PERMIT INFLUENT
02/01/2018	19	134	248	160	170	167	93	101
02/02/2018	19	122	236	128	141	163	93	102
02/03/2018	19	115	212	140	149	172	97	107
02/04/2018	30	188	328	244	254	185	126	133
02/05/2018	22	128	288	128	149	212	109	123
02/06/2018	20	122	212	88	104	172	102	111
02/07/2018	34	204	160	132	136	130	72	79
02/08/2018	24	129	192	148	154	126	100	104
02/09/2018	21	127	236	156	166	148	96	103
02/10/2018	26	187	224	236	235	170	97	105
02/11/2018	63	250	212	180	186	103	63	70
02/12/2018	29	150	84	100	98	103	64	70
02/13/2018	24	141	148	124	127	127	75	82
02/14/2018	24	150	168	132	137	158	96	104
02/15/2018	26	167	228	180	186	172	79	90
02/16/2018	29	171	228	156	165	124	83	88
02/17/2018	26	165	140	136	136	130	80	86
02/18/2018	28	151	124	148	145	118	80	85
02/19/2018	24	130	100	120	117	138	85	93
02/20/2018	23	135	236	224	226	146	116	120
02/21/2018	22	128	192	152	157	164	95	104
02/22/2018	22	136	204	204	204	180	137	142
02/23/2018	24	149	132	116	118	130	90	95
02/24/2018	24	145	176	140	145	129	96	100
02/25/2018	34	194	152	108	114	115	71	77
02/26/2018	25	137	92	116	113	92	81	83
02/27/2018	23	132	144	204	196	96	96	96
02/28/2018	23	127	152	216	207	159	92	101
AVG	26	151	187	154	158	144	92	98

PERMIT

SWWPCP - FEBRUARY 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
02/01/2018		208			
02/02/2018		197			
02/03/2018		194			
02/04/2018		198			
02/05/2018	123	221	136	18	87%
02/06/2018		230			
02/07/2018	116	178	124	22	82%
02/08/2018		167			
02/09/2018		212			
02/10/2018		192			
02/11/2018		115			
02/12/2018	77	134	85	19	78%
02/13/2018		180			
02/14/2018	118	194	128	21	84%
02/15/2018		180			
02/16/2018		139			
02/17/2018		167			
02/18/2018		129			
02/19/2018	118	176	126	18	86%
02/20/2018		169			
02/21/2018	127	181	134	20	85%
02/22/2018		188			
02/23/2018		152			
02/24/2018		167			
02/25/2018		118			
02/26/2018	111	130	114	14	88%
02/27/2018		123			
02/28/2018	123	191	132	18	86%
AVG	114	173	122	19	84%

DESIGN - 200 MGD

DATE	SWWPCP - FEBRUARY 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
02/01/2018	19	134	15	168	274	0.03
02/02/2018	19	122	14	155	177	0.17
02/03/2018	19	115	14	148	175	
02/04/2018	30	188	27	245	423	0.86
02/05/2018	22	128	15	165	199	
02/06/2018	20	122	14	156	178	T
02/07/2018	34	204	33	271	442	0.82
02/08/2018	24	129	16	169	198	
02/09/2018	21	127	14	162	203	
02/10/2018	26	187	22	235	352	0.41
02/11/2018	63	250	43	356	473	1.68
02/12/2018	29	150	18	197	227	T
02/13/2018	24	141	15	180	203	
02/14/2018	24	150	16	190	277	0.05
02/15/2018	26	167	19	212	310	0.25
02/16/2018	29	171	20	220	310	0.33
02/17/2018	26	165	19	210	296	0.40
02/18/2018	28	151	16	195	258	
02/19/2018	24	130	15	169	203	T
02/20/2018	23	135	16	174	199	T
02/21/2018	22	128	15	165	184	0.01
02/22/2018	22	136	15	173	250	0.06
02/23/2018	24	149	18	191	325	0.23
02/24/2018	24	145	17	186	337	0.06
02/25/2018	34	194	25	253	407	0.66
02/26/2018	25	137	16	178	215	
02/27/2018	23	132	16	171	201	
02/28/2018	23	127	15	165	187	
TOTAL	727	4,215	518	5,460		6.02
AVG	26	151	19	195		
			MIN	148	175	
			MAX	356	473	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 02/01/2018
 DMR Effective To: 02/28/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
FROM 2018	02	01	TO	2018	02	28

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	6.0	7.8	***	mg/L	Grab	1/day
	Permit Measurement	***	***	***	Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.9	***	7.2	S.U.	Grab	1/day
	Permit Measurement	***	***	***	6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	9668	14107	lbs/day	***	6	8	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75060 Wkly Avg	***	***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	21.23	25.20	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	.741	.943	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	1.005	1.600	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	22.43	25.40	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	.368	.477	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0016	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0060	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0680	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0400	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		***	24-Hr Composite
Flow	Sample Measurement	195	356	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	24	.47	mg/L	Grab	1/day
	Permit Measurement	***	***		***	***	5 Avg Mo		10 MAX	Grab
Cyanide, Free	Sample Measurement	***	***	***	***	< .005	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		***	24-Hr Composite
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/day
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		***	Grab
Trichloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***		***	***	Monitor & Report Avg Mo		***	Grab
Fecal Coliform	Sample Measurement	***	***	***	***	16	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***		***	***	200 Geo Mean		***	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	6230	7896	lbs/day	***	4	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	24-Hr Composite
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	21551	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	36000 Avg Mo	***		***	***	***		***	24-Hr Composite
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	96.19	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		***	89.25	***		***	24-Hr Composite
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	96	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***		***	85	***		***	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 02/01/2018
 DMR Effective To: 02/28/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	02	01	TO	2018	02	28

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW-201802.xls	Daily Effluent Monitoring Form	2018-03-26T15:39:26-04:00	
SW Daily Grab (03-26-2018).pdf	Laboratory Accreditation Form	2018-03-26T15:42:11-04:00	
BLSSW201802.xls	Nutrient Monitoring Form	2018-03-26T15:40:06-04:00	
201802SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-03-26T15:41:16-04:00	
SWCSO 20180.xls	CSO Detailed Outfall Report Form	2018-03-26T15:40:42-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the 11th of the month and was used in compliance reporting. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	3	26
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF FEBRUARY 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
02/07/2018	0.943	1.030	17.60	21.10	0.287
02/14/2018	0.814	1.600	21.30	18.00	0.282
02/21/2018	0.551	0.559	20.80	25.20	0.477
02/28/2018	0.654	0.829	25.20	25.40	0.427
AVG	0.741	1.005	21.23	22.43	0.368
MAX	0.943	1.600	25.20	25.40	0.477

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
02/08/2018	< 0.005	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	02/07/2018
Copper	0.0060
Iron Dissolved	0.0680
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0400

Organics Data (mg/L)

Southwest WPCP - Outfall

	02/05/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0016
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
FEBRUARY 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP MGD	Biosolids Recycle Center / Synagro MGD		From SWWPCP MGD	Biosolids Recycle Center / Synagro MGD	
02/01/2018	0.928	0.403	47	1.434	1.787	231.9
02/02/2018	0.895	0.515	52	1.389	1.053	116.7
02/03/2018	0.900	0.816	87	1.478	1.320	152.6
02/04/2018	0.000	0.037	3	1.592	1.936	239.6
02/05/2018	0.937	0.932	105	1.654	1.587	233.1
02/06/2018	0.000	0.367	40	1.347	1.420	180.6
02/07/2018	0.894	1.221	147	1.927	1.835	197.0
02/08/2018	0.936	0.531	67	1.651	1.687	244.3
02/09/2018	0.908	1.241	152	0.704	0.513	58.0
02/10/2018	0.909	1.169	122	1.172	1.391	135.4
02/11/2018	0.909	0.468	41	1.975	2.038	226.7
02/12/2018	0.831	0.642	64	0.751	0.661	60.6
02/13/2018	0.000	0.559	50	0.292	0.586	63.7
02/14/2018	0.917	0.084	6	1.635	1.449	177.3
02/15/2018	0.000	0.835	77	1.540	1.364	159.9
02/16/2018	0.920	0.092	9	1.261	1.282	131.1
02/17/2018	0.000	0.829	81	0.997	1.036	114.9
02/18/2018	0.849	0.433	43	1.201	1.135	151.5
02/19/2018	0.923	0.976	126	0.721	0.953	108.7
02/20/2018	0.882	0.960	118	1.344	1.234	162.0
02/21/2018	0.905	1.096	107	1.612	1.389	155.5
02/22/2018	0.880	0.160	18	1.446	1.513	169.9
02/23/2018	0.882	1.421	174	1.196	1.202	128.2
02/24/2018	0.870	0.678	88	1.253	1.339	136.3
02/25/2018	0.000	0.434	49	2.430	2.508	249.0
02/26/2018	0.886	0.090	8	1.081	0.984	114.9
02/27/2018	0.906	1.283	152	1.450	1.360	124.9
02/28/2018	0.000	0.196	19	0.213	0.167	15.8
TOTAL	18.868	18.470	2,053	36.745	36.729	4,240
AVERAGE	0.674	0.660	73	1.312	1.312	151

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180322-008
 Report Date: 03/22/2018

SW Daily Grab

WW180219-005

Grab 02/19/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			2/20/2018	8:28	3	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.613. The maximum acceptable PCV is 0.556. The measured results were 3.1 MPN/100mL and <1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
 Signature: _____
 Name: John Consolvo
 Title: Laboratory Manager
 Date: 3/22/2018



Debra A. McCarty, Water Commissioner

April 27, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for March 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 03/01/2018-03/31/2018

Report Due Date: 04/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 96364

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for March 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - MARCH 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Th	03/01/2018	240	208	5	98	10,008		101	2	98.01		4,003		
F	03/02/2018	354	112	6	95	17,714		123	6	95.11		17,714		
S	03/03/2018	246	137	16	88	32,826		116	5	95.68		10,258		
Su	03/04/2018	208	117	6	95	10,408		61	2	96.72		3,469		
M	03/05/2018	184	133	3	98	4,143		84	3	96.42		4,604		11
T	03/06/2018	197	102	5	95	8,215		102	2	98.03		3,286		
W	03/07/2018	325	158	6	96	16,263		103	4	96.13		10,842		13
Th	03/08/2018	279	138	10	93	23,269		59	10	82.97		23,269		
F	03/09/2018	221	144	4	97	7,373		79	4	94.91		7,373		16
S	03/10/2018	193	140	5	96	8,048		70	3	95.71		4,829		
Su	03/11/2018	190	133	3	98	4,754		84	2	97.62		3,169		
M	03/12/2018	198	160	6	96	9,908		107	2	98.13		3,303		10
T	03/13/2018	198	238	4	98	6,605		120	7	94.15		11,559		
W	03/14/2018	186	135	4	97	6,205		95	3	96.84		4,654		12
Th	03/15/2018	181	111	3	97	4,529		87	2	97.70		3,019		
F	03/16/2018	177	147	4	97	5,905		88	4	95.43		5,905		
S	03/17/2018	178	128	3	98	4,454		89	3	96.62		4,454		
Su	03/18/2018	178	229	3	99	4,454		143	3	97.91		4,454		
M	03/19/2018	181	168	4	98	6,027		102	3	97.06		4,520		12
T	03/20/2018	195	186	5	97	8,132		109	3	97.25		4,879		
W	03/21/2018	217	132	3	98	5,429		122	2	98.36		3,620		
Th	03/22/2018	259	120	3	98	6,480		81	4	95.03		8,640		
F	03/23/2018	215	312	4	99	7,172		109	5	95.40		8,966		15
S	03/24/2018	183	113	5	96	7,631		75	4	94.68		6,105		
Su	03/25/2018	183	136	3	98	4,579		88	2	97.72		3,052		
M	03/26/2018	178	148	4	97	5,938		101	3	97.04		4,454		13
T	03/27/2018	177	167	3	98	4,429		105	2	98.09		2,952		
W	03/28/2018	179	161	6	96	8,957		92	3	96.76		4,479		15
Th	03/29/2018	187	152	3	98	4,679		111	5	95.50		7,798		
F	03/30/2018	191	174	3	98	4,779		101	4	96.06		6,372		
S	03/31/2018	166	258	5	98	6,922		104	3	97.12		4,153		

TOTAL	6,444	4,898	147					3,009	110					
AVERAGE	208	158	5	97		8,588		97	4	96.13		6,456		13

Wk1	230	133	6			11,103		80	4			8,239		
Wk2	187	150	4			6,051		96	3			5,152		
Wk3	204	180	4			6,475		106	3			5,883		
Wk4	180	171	4			5,755		100	3			4,751		

MAX 354

CBOD 20 LBS---- 22,532

NPDES/
LIMIT MO <30 >85 <50,400 <25 >89.25 <19,800
WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - MARCH 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Th 03/01/2018	240	7.1	6.9	0.20	20
F 03/02/2018	354	7.0	8.3	0.31	613
S 03/03/2018	246	6.9	9.7	0.27	34
Su 03/04/2018	208	6.9	8.5	0.16	548
M 03/05/2018	184	7.1	8.1	0.34	4
T 03/06/2018	197	7.1	8.7	0.17	19
W 03/07/2018	325	7.1	8.8	0.33	6
Th 03/08/2018	279	6.9	9.6	0.09	13
F 03/09/2018	221	7.0	9.0	0.35	2
S 03/10/2018	193	7.0	7.0	0.26	13
Su 03/11/2018	190	7.0	7.0	0.27	5
M 03/12/2018	198	7.1	6.2	0.26	6
T 03/13/2018	198	7.0	5.8	0.19	84
W 03/14/2018	186	6.9	7.1	0.20	26
Th 03/15/2018	181	6.9	7.0	0.05	84
F 03/16/2018	177	7.0	7.2	0.08	20
S 03/17/2018	178	7.1	6.3	0.16	16
Su 03/18/2018	178	7.0	6.7	0.15	11
M 03/19/2018	181	7.1	5.9	0.14	4
T 03/20/2018	195	7.1	7.0	0.10	2
W 03/21/2018	217	7.0	7.6	0.05	1
Th 03/22/2018	259	7.0	8.4	0.14	7
F 03/23/2018	215	6.9	8.4	0.06	3
S 03/24/2018	183	6.9	7.3	0.26	2
Su 03/25/2018	183	7.1	7.8	0.19	1
M 03/26/2018	178	7.1	7.0	0.15	2
T 03/27/2018	177	6.9	7.1	0.08	1
W 03/28/2018	179	7.0	6.9	0.12	3
Th 03/29/2018	187	7.0	7.1	0.19	5
F 03/30/2018	191	7.0	6.3	0.17	11
S 03/31/2018	166	7.0	6.4	0.16	194
Total	6,444	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	208	6.9 7.1	5.8 7.5	0.18 0.35	10

Wk1 230
Wk2 187
Wk3 204
Wk4 180

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - MARCH 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
03/01/2018	31	182	152	216	208	159	92	101
03/02/2018	56	261	176	100	112	175	113	123
03/03/2018	39	185	140	136	137	120	115	116
03/04/2018	31	159	120	116	117	84	57	61
03/05/2018	27	141	164	128	133	106	80	84
03/06/2018	26	153	140	96	102	106	101	102
03/07/2018	42	252	172	156	158	146	97	103
03/08/2018	40	213	172	132	138	75	56	59
03/09/2018	33	169	164	140	144	99	75	79
03/10/2018	30	147	140	140	140	75	69	70
03/11/2018	29	144	164	128	133	117	78	84
03/12/2018	28	152	112	168	160	113	106	107
03/13/2018	28	155	176	248	238	124	119	120
03/14/2018	27	142	132	136	135	118	91	95
03/15/2018	26	139	108	112	111	111	83	87
03/16/2018	25	137	164	144	147	115	83	88
03/17/2018	25	137	128	128	128	137	81	89
03/18/2018	25	137	164	240	229	127	146	143
03/19/2018	24	140	168	168	168	149	95	102
03/20/2018	24	153	144	192	186	160	102	109
03/21/2018	28	171	160	128	132	122	122	122
03/22/2018	33	203	204	108	120	139	72	81
03/23/2018	30	170	188	332	312	131	105	109
03/24/2018	27	140	168	104	113	134	65	75
03/25/2018	26	139	160	132	136	110	84	88
03/26/2018	25	137	176	144	148	127	97	101
03/27/2018	24	137	184	164	167	117	103	105
03/28/2018	24	139	192	156	161	115	89	92
03/29/2018	25	146	204	144	152	176	101	111
03/30/2018	25	149	212	168	174	131	97	101
03/31/2018	24	127	200	268	258	116	102	104
AVG	29	160	163	157	158	124	93	97

PERMIT

SWWPCP - MARCH 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
03/01/2018	123	191	132	ND	ND
03/02/2018		185			
03/03/2018		132			
03/04/2018		84			
03/05/2018	80	114	85	9	89%
03/06/2018		146			
03/07/2018	NM	167	NM	NM	ND
03/08/2018		92			
03/09/2018		126			
03/10/2018		90			
03/11/2018		124			
03/12/2018	120	155	125	13	90%
03/13/2018	126	133	127	ND	ND
03/14/2018	NM	160	NM	NM	ND
03/15/2018		121			
03/16/2018		129			
03/17/2018		138			
03/18/2018		138			
03/19/2018	125	190	134	17	87%
03/20/2018	129	181	135	NM	ND
03/21/2018		134			
03/22/2018		181			
03/23/2018	NM	147	NM	NM	ND
03/24/2018		141			
03/25/2018		126			
03/26/2018	122	164	128	16	87%
03/27/2018		126			
03/28/2018	110	126	112	17	85%
03/29/2018		184			
03/30/2018		166			
03/31/2018		176			
AVG	117	144	122	14	88%

DESIGN - 200 MGD

DATE	SWWPCP - MARCH 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
03/01/2018	31	182	27	240	293	0.56
03/02/2018	56	261	37	354	386	0.86
03/03/2018	39	185	22	246	336	T
03/04/2018	31	159	18	208	216	
03/05/2018	27	141	16	184	197	
03/06/2018	26	153	18	197	314	0.23
03/07/2018	42	252	31	325	389	1.28
03/08/2018	40	213	26	279	377	
03/09/2018	33	169	19	221	285	
03/10/2018	30	147	16	193	240	
03/11/2018	29	144	17	190	224	
03/12/2018	28	152	18	198	232	0.06
03/13/2018	28	155	15	198	246	0.03
03/14/2018	27	142	17	186	213	
03/15/2018	26	139	16	181	207	T
03/16/2018	25	137	15	177	204	T
03/17/2018	25	137	16	178	210	
03/18/2018	25	137	16	178	209	
03/19/2018	24	140	17	181	201	
03/20/2018	24	153	18	195	262	0.40
03/21/2018	28	171	18	217	266	1.06
03/22/2018	33	203	23	259	346	T
03/23/2018	30	170	15	215	286	
03/24/2018	27	140	16	183	220	
03/25/2018	26	139	18	183	216	
03/26/2018	25	137	16	178	205	
03/27/2018	24	137	16	177	208	T
03/28/2018	24	139	16	179	245	0.02
03/29/2018	25	146	16	187	234	0.08
03/30/2018	25	149	17	191	315	0.16
03/31/2018	24	127	15	166	202	
TOTAL	907	4,956	581	6,444		4.74
AVG	29	160	19	208		
			MIN	166	197	
			MAX	354	389	

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
03/05/2018	0.543	1.320	18.50	17.80	0.164
03/07/2018	0.611	0.722	20.00	19.50	0.342
03/09/2018	0.374	0.990	7.58	8.70	0.340
03/14/2018	0.591	0.552	14.60	16.90	0.333
03/23/2018	0.703	0.889	17.70	16.90	0.464
03/28/2018	0.796	0.858	23.70	24.70	0.533
AVG	0.603	0.889	17.01	17.42	0.363
MAX	0.796	1.320	23.70	24.70	0.533

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
03/05/2018	< 0.005	< 0.050
03/07/2018	< 0.005	< 0.050
03/09/2018	< 0.005	< 0.050
AVG	< 0.005	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	03/05/2018	03/07/18	03/09/18	AVG
Copper	0.0060	0.0080	0.0090	0.0077
Iron Dissolved	0.3900	0.0510	0.0300	0.1570
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0030	0.0040	0.0030	0.0033
Selenium	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0410	0.0480	0.0440	0.0443

Organics Data (mg/L)

Southwest WPCP - Outfall

	3/4/2018	3/5/2018	3/6/2018	3/7/2018	3/8/2018	3/9/2018	AVG
1,2-Dichloroethane	< 0.0025	< 0.0025	0.0025	< 0.0025	< 0.0050	< 0.0025	< 0.0033
alpha-Endosulfan	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Benzidine	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	< 0.0005	0.0005
beta-BHC	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Chlordane	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000
Chloroform	0.0046	< 0.0005000	0.0053	< 0.0005000	0.0042	< 0.0005000	0.0047
Dieldrin	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Heptachlor	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Lindane (Gamma-BHC)	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDD	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDE	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDT	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Tetrachloroethylene	0.0006	< 0.0000200	0.0007	< 0.0000200	0.0007	< 0.0000200	< 0.0007
Trichloroethylene	< 0.0025	< 0.0025	0.0025	< 0.0025	< 0.0050	< 0.0025	< 0.0033

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

3/9/2018

Toxicity, Ceriodaphnia acute	2
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1.6
Toxicity, Pimphales chronic	1

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
MARCH 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro From SWWPCP		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro From SWWPCP	
	MGD	MGD		MGD	MGD	
03/01/2018	0.791	1.367	157	1.795	1.086	102.8
03/02/2018	1.375	0.916	102	0.908	1.102	97.6
03/03/2018	1.959	0.385	35	0.000	2.165	163.8
03/04/2018	1.130	1.204	129	0.870	1.084	102.1
03/05/2018	1.134	0.297	31	0.890	1.349	138.5
03/06/2018	1.356	0.861	97	0.885	1.115	113.6
03/07/2018	1.001	0.575	63	0.000	0.715	73.0
03/08/2018	0.657	0.081	8	0.912	0.821	62.8
03/09/2018	1.154	1.081	112	0.917	1.354	140.7
03/10/2018	1.134	1.173	122	0.888	1.080	80.9
03/11/2018	1.207	1.106	116	0.901	1.200	106.8
03/12/2018	1.963	0.214	21	0.000	1.881	150.2
03/13/2018	0.716	0.594	61	0.923	0.598	72.6
03/14/2018	0.637	0.779	82	0.911	0.901	93.6
03/15/2018	2.224	0.662	72	0.924	2.248	208.4
03/16/2018	0.747	0.754	81	0.000	0.650	50.8
03/17/2018	1.242	0.672	76	0.124	1.364	143.5
03/18/2018	1.099	0.696	77	1.673	1.091	96.1
03/19/2018	2.197	0.394	38	0.000	2.129	184.0
03/20/2018	1.866	0.489	55	0.933	1.700	132.6
03/21/2018	0.425	0.991	112	0.885	0.457	36.5
03/22/2018	1.316	0.783	81	0.917	1.466	105.9
03/23/2018	0.430	0.952	101	0.998	0.164	10.1
03/24/2018	0.538	0.882	86	0.886	0.894	57.2
03/25/2018	1.096	1.395	134	0.893	0.861	78.3
03/26/2018	1.680	0.140	14	0.751	1.779	130.2
03/27/2018	2.173	0.690	74	0.000	2.190	239.2
03/28/2018	2.114	0.481	54	0.906	2.091	191.8
03/29/2018	1.339	0.914	97	0.892	1.395	121.8
03/30/2018	1.435	0.421	45	0.915	1.431	100.5
03/31/2018	1.440	1.045	113	0.807	1.489	104.7
TOTAL	39.576	22.995	2,446	23.306	39.846	3,491
AVERAGE	1.277	0.742	79	0.752	1.285	113

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180423-011
 Report Date: 04/23/2018

SW Daily Composite 2

Composite 24h 03/23/2018 06:00

WW180323-009

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
COD	EPA 410.4	4/16/2018	12:05	4/16/2018	14:45	<50	mg/L	50	mg/L

Data Qualifiers:

COD	Laboratory Fortified Matrix is 121%. Acceptance limits are 90-110%.
-----	---

WW180328-009

Composite 24h 03/28/2018 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD20	SM 5210 B	3/28/2018	14:30	4/17/2018	9:10	14.9	mg/L	2	mg/L

Data Qualifiers:

CBOD20	GGA recovery is 149.00 mg/L. The acceptance limits are 167.5 to 228.5 mg/L
--------	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name: John Consolvo
 Title: Laboratory Manager
 Date: 4/23/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report: NPW20180423-012
 Report Date: 04/23/2018

WW180304-005

Grab 03/04/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			3/5/2018	8:26	547.5	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.967. The maximum acceptable PCV is 0.556. The measured results were 59.1 MPN/100mL and 547.5 MPN/100mL.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 4/23/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Composite

Report: NPW20180423-013
 Report Date: 04/23/2018

WW180305-001

Composite 24h 03/05/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
4,4'-DDD ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
4,4'-DDE ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
4,4'-DDT ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
Aroclor 1016 ^{B,D}	EPA 625	3/8/2018	0:00	3/10/2018	4:23	<0.50 ^E	µg/L	0.50	µg/L
Aroclor 1260 ^{B,D}	EPA 625	3/8/2018	0:00	3/10/2018	4:23	<0.50 ^E	µg/L	0.50	µg/L
Di-n-octyl phthalate ^{B,D}	EPA 625	3/6/2018	0:00	3/9/2018	10:04	<1.00 ^E	µg/L	1.00	µg/L
Dieldrin ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan II ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan sulfate ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
Endrin ^{B,D}	EPA 625	3/8/2018	0:00	3/9/2018	22:05	<0.02 ^E	µg/L	0.02	µg/L
Fluoranthene ^{B,D}	EPA 625	3/6/2018	0:00	3/9/2018	10:04	<1.00 ^E	µg/L	1.00	µg/L
TKN	SM 4500 Norg D	3/16/2018	11:05	3/23/2018	14:03	17.8	mg/L	1	mg/L

Data Qualifiers:

4,4'-DDD	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDE	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDT	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1016	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Di-n-octyl phthalate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Dieldrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan II	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Endosulfan sulfate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Fluoranthene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.

WW180307-001

Composite 24h 03/07/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2,4,6-Trichlorophenol ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<1.0 ^E	µg/L	1.0	µg/L
2,4-Dichlorophenol ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<1.0 ^E	µg/L	1.0	µg/L
2-Chloronaphthalene ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<1.0 ^E	µg/L	1.0	µg/L
4,4'-DDD ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
4,4'-DDE ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
4,4'-DDT ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Aroclor 1016 ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	6:40	<0.50 ^E	µg/L	0.50	µg/L
Aroclor 1260 ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	6:40	<0.50 ^E	µg/L	0.50	µg/L
Benzidine ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<5.00 ^E	µg/L	5.00	µg/L
bis(2-Ethylhexyl) phthalate ^{B,D}	EPA 608	3/12/2018	0:00	3/16/2018	17:01	<3.00 ^E	µg/L	3.00	µg/L
CBOD20	SM 5210 B	3/8/2018	15:35	3/28/2018	10:10	12.9	mg/L	2	mg/L
CBOD5	SM 5210 B	3/8/2018	15:35	3/13/2018	9:45	2.37	mg/L	2	mg/L
Di-n-octyl phthalate ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<1.00 ^E	µg/L	1.00	µg/L
Dieldrin ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan II ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan sulfate ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Endrin ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Endrin aldehyde ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Heptachlor ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Heptachlor epoxide ^{B,D}	EPA 608	3/8/2018	0:00	3/10/2018	0:21	<0.02 ^E	µg/L	0.02	µg/L
Pentachlorophenol ^{B,D}	EPA 625	3/12/2018	0:00	3/16/2018	17:01	<1.00 ^E	µg/L	1.00	µg/L
TKN	SM 4500 Norg D	3/16/2018	11:05	3/23/2018	14:04	19.5	mg/L	1	mg/L

Data Qualifiers:

2,4,6-Trichlorophenol	The recovery of LCS is 23%, which is outside the acceptance limits of 37-144%. Results may have greater uncertainty.
2,4-Dichlorophenol	The recovery of LCS is 35%, which is outside the acceptance limits of 39-135%. Results may have greater uncertainty.
2-Chloronaphthalene	The Matrix Spike associated with this sample is below the established acceptance criteria, indicating a potential matrix interference. Results of the sample may be biased low.
4,4'-DDD	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDE	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDT	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1016	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the confirmation of the low level standard.
bis(2-Ethylhexyl) phthalate	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the confirmation of the low level standard.
CBOD20	Laboratory Fortified Blank (LFB) recovery is 160 mg/L. Acceptance limits are 167.5 to 228.5 mg/L.
CBOD5	Laboratory Fortified Blank (LFB) recovery is 160 mg/L. Acceptance limits are 167.5 to 228.5 mg/L.
Di-n-octyl phthalate	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the confirmation of the low level standard.
Dieldrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan II	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan sulfate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin aldehyde	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor epoxide	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Pentachlorophenol	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the confirmation of the low level standard.
TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2,4-Dinitrotoluene ^{B,D}	EPA 625	3/15/2018	0:00	3/20/2018	10:31	<1.00 ^E	µg/L	1.00	µg/L
2-Chloronaphthalene ^{B,D}	EPA 625	3/15/2018	0:00	3/20/2018	10:31	<1.00 ^E	µg/L	1.00	µg/L
4,4'-DDD ^{B,D}	EPA 608	3/16/2018	0:00	3/19/2018	14:41	<0.02 ^E	µg/L	0.02	µg/L
4,4'-DDE ^{B,D}	EPA 608	3/16/2018	0:00	3/19/2018	14:41	<0.02 ^E	µg/L	0.02	µg/L
4-Nitrophenol ^{B,D}	EPA 625	3/15/2018	0:00	3/20/2018	10:31	<1.00 ^E	µg/L	1.00	µg/L
Aroclor 1016 ^{B,D}	EPA 608	3/16/2018	0:00	3/19/2018	18:28	<0.50 ^E	µg/L	0.50	µg/L
Aroclor 1260 ^{B,D}	EPA 608	3/16/2018	0:00	3/19/2018	18:28	<0.50 ^E	µg/L	0.50	µg/L
Fluoranthene ^{B,D}	EPA 625	3/15/2018	0:00	3/20/2018	10:31	<1.00 ^E	µg/L	1.00	µg/L
Heptachlor ^{B,D}	EPA 608	3/16/2018	0:00	3/19/2018	14:41	<0.02 ^E	µg/L	0.02	µg/L
TKN	SM 4500 Norg D	3/16/2018	11:05	3/23/2018	14:08	8.7	mg/L	1	mg/L

Data Qualifiers:

2,4-Dinitrotoluene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
2-Chloronaphthalene	The recovery of LCS is 44%, which is outside the acceptance limits of 60-118%. Results may have greater uncertainty.
4,4'-DDD	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDE	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4-Nitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1016	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Fluoranthene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo

Title: Laboratory Manager

Date: 4/23/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180423-014
 Report Date: 04/23/2018

SW WET Testing Grab

WW180306-010

Grab 03/06/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Chloroform ^{B,D}	EPA 624			3/9/2018	20:31	5.3 ^E	µg/L	<0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			3/9/2018	20:31	0.7 ^E		<0.5	

Data Qualifiers:

Chloroform	The CCV for this analyte was above acceptance criteria. Results may have greater uncertainty. The Laboratory Control Sample for the analysis batch associated with this sample was above acceptance criteria. Results may have greater uncertainty.
Tetrachloroethene	The CCV for this analyte was above acceptance criteria. Results may have greater uncertainty.

WW180308-010

Grab 03/08/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Chloroform ^{B,D}	EPA 624			3/10/2018	2:25	4.2 ^E	µg/L	<0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			3/10/2018	2:25	0.7 ^E		<0.5	

Data Qualifiers:

Chloroform	The Laboratory Control Sample for the analysis batch associated with this sample was above acceptance criteria. Results may have greater uncertainty.
Tetrachloroethene	Calibration verification below minimum acceptance limits. A low-level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low-level standard.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 4/23/2018



Debra A. McCarty, Water Commissioner

April 27, 2018

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period of January 2018 to March 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 07/01/2017-09/30/2017

Report Due Date: 10/28/2017

Submitted By: Mary Ellen Senss

Submission Id: 72426

Submission Status: Received

Submission Type: Original

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
03/05/2018	0.543	1.320	18.50	17.80	0.164
03/07/2018	0.611	0.722	20.00	19.50	0.342
03/09/2018	0.374	0.990	7.58	8.70	0.340
03/14/2018	0.591	0.552	14.60	16.90	0.333
03/23/2018	0.703	0.889	17.70	16.90	0.464
03/28/2018	0.796	0.858	23.70	24.70	0.533
AVG	0.603	0.889	17.01	17.42	0.363
MAX	0.796	1.320	23.70	24.70	0.533

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
03/05/2018	< 0.005	< 0.050
03/07/2018	< 0.005	< 0.050
03/09/2018	< 0.005	< 0.050
AVG	< 0.005	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	03/05/2018	03/07/18	03/09/18	AVG
Copper	0.0060	0.0080	0.0090	0.0077
Iron Dissolved	0.3900	0.0510	0.0300	0.1570
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0030	0.0040	0.0030	0.0033
Selenium	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0410	0.0480	0.0440	0.0443

Organics Data (mg/L)

Southwest WPCP - Outfall

	3/4/2018	3/5/2018	3/6/2018	3/7/2018	3/8/2018	3/9/2018	AVG
1,2-Dichloroethane	< 0.0025	< 0.0025	0.0025	< 0.0025	< 0.0050	< 0.0025	< 0.0033
alpha-Endosulfan	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Benzidine	< 0.0005	0.0005	< 0.0005	0.0005	< 0.0005	0.0005	0.0005
beta-BHC	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Chlordane	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000	< 0.0005000
Chloroform	0.0046	< 0.0005000	0.0053	< 0.0005000	0.0042	< 0.0005000	0.0047
Dieldrin	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Heptachlor	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Lindane (Gamma-BHC)	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDD	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDE	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
p,p'-DDT	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200	< 0.0000200
Tetrachloroethylene	0.0006	< 0.0000200	0.0007	< 0.0000200	0.0007	< 0.0000200	< 0.0007
Trichloroethylene	< 0.0025	< 0.0025	0.0025	< 0.0025	< 0.0050	< 0.0025	< 0.0033

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

3/9/2018

Toxicity, Ceriodaphnia acute	2
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1.6
Toxicity, Pimphales chronic	1



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 01/01/2018
 DMR Effective To: 03/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? No

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	01	01	TO	2018	03	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	2	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Chronic - Ceriodaphnia Survival	Sample Measurement	***	***	***	***	***	1	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Toxicity, Acute - Pimephales Survival	Sample Measurement	***	***	***	***	***	1.6	TUa	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Chlordane	Sample Measurement	***	***	***	***	<.0005000	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
alpha-Endosulfan	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Benzidine	Sample Measurement	***	***	***	***	.0005	***	mg/L	Grab	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		Grab	1/quarter
4,4-DDT	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
4,4-DDD	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
4,4-DDE	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/month
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
beta-BHC	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
gamma-BHC (Lindane)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Dieldrin	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Heptachlor	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	24-Hr Composite	3/quarter
	Permit Measurement	***	***		***	Monitor & Report Avg Mo	***		24-Hr Composite	1/quarter
Toxicity, Chronic - Pimephales Survival	Sample Measurement	***	***	***	***	***	1	TUc	24-Hr Composite	1/quarter
	Permit Measurement	***	***		***	***	Monitor & Report Daily Max		24-Hr Composite	1/quarter
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comment
SW WET Testing Grab (04-25-2018).pdf	Laboratory Accreditation Form	2018-04-27T08:35:52-04:00	
BLSSW201803.xls	WET Test Summary Report	2018-04-27T08:37:14-04:00	
SW WET Testing Composite (04-25-2018).pdf	Laboratory Accreditation Form	2018-04-27T08:35:28-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	4	27
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

3/9/2018

Toxicity, Ceriodaphnia acute	2
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1.6
Toxicity, Pimphales chronic	1



Debra A. McCarty, Water Commissioner

May 24, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for April 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 04/01/2018-04/30/2018

Report Due Date: 05/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 99678

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for April 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
 PERMIT NUMBER

001
 OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **04/01/2018**
 DMR Effective To: **04/30/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge? **No**

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	04	01	TO	2018	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	5.3	6.6	***	mg/L	Grab	1/day
	Permit Measurement	***	***	***	Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***	***	6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	6301	9913	lbs/day	***	4	5	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75080 Wkly Avg	***	***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	18.05	23.80	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	711	824	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	593	1.260	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	22.80	25.70	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	290	.428	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0031	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0070	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0620	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0040	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0340	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	180	340	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	13	.26	mg/L	Grab	1/day
	Permit Measurement	***	***	***	***	5	1.0 MAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	.007	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	5	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***	***	***	200 Geo Mean	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	4826	6163	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	20 Avg Mo	40 Wkly Avg		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	27062	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	26800 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	96.80	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	98	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2018
 DMR Effective To: 04/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge? Yes

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	04	01	TO	2018	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
SW Daily Composite (05-21-2018).pdf	Laboratory Accreditation Form	2018-05-24T14:59:35-04:00	
E-NPDES SW-201804.xls	Daily Effluent Monitoring Form	2018-05-24T14:57:01-04:00	
BLSSW201804.xls	Nutrient Monitoring Form	2018-05-24T14:57:52-04:00	
SW Daily Composite 2 (05-21-2018).pdf	Laboratory Accreditation Form	2018-05-24T15:00:05-04:00	
SW Daily Grab (05-21-2018).pdf	Laboratory Accreditation Form	2018-05-24T15:01:03-04:00	
SW Outfall Monthly Grab (05-21-2018).pdf	Laboratory Accreditation Form	2018-05-24T15:01:39-04:00	
201804SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-05-24T14:58:20-04:00	
SWCSO 201804.xls	CSO Detailed Outfall Report Form	2018-05-24T14:58:58-04:00	
SW Daily Composite-CBOD (05-21-2018).pdf	Laboratory Accreditation Form	2018-05-24T15:00:34-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the 16th of the month. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			AREA CODE	NUMBER	2018	5	24
SENSSM		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for April 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - APRIL 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM					CBOD5* %REM				

Su	04/01/2018	163	158	2	99	2,719		102	3	97.05		4,078		
M	04/02/2018	208	145	5	97	8,674		113	4	96.46		6,939		14
T	04/03/2018	185	156	4	97	6,172		79	4	94.91		6,172		
W	04/04/2018	175	108	2	98	2,912		87	4	95.42		5,823		15
Th	04/05/2018	167	136	3	98	4,178		93	4	95.71		5,571		
F	04/06/2018	163	162	4	98	5,438		102	5	95.10		6,797		
S	04/07/2018	160	150	4	97	5,338		120	4	96.68		5,338		
Su	04/08/2018	162	161	3	98	4,053		105	4	96.20		5,404		
M	04/09/2018	160	198	3	98	4,003		126	3	97.62		4,003		13
T	04/10/2018	166	176	3	98	4,153		94	2	97.87		2,769		
W	04/11/2018	161	156	3	98	4,028		111	2	98.21		2,685		15
Th	04/12/2018	159	145	4	97	5,304		110	2	98.18		2,652		
F	04/13/2018	159	289	4	99	5,304		98	3	96.95		3,978		
S	04/14/2018	151	185	4	98	5,037		115	4	96.53		5,037		
Su	04/15/2018	224	277	4	99	7,473		92	6	93.50		11,209		
M	04/16/2018	340	324	11	97	31,212		118	4	96.62		11,350		16
T	04/17/2018	192	143	4	97	6,405		80	3	96.24		4,804		
W	04/18/2018	182	252	3	99	4,554		99	3	96.98		4,554		9
Th	04/19/2018	176	179	4	98	5,871		94	2	97.87		2,936		
F	04/20/2018	165	163	3	98	4,128		91	4	95.61		5,504		
S	04/21/2018	167	121	7	94	9,749		110	2	98.18		2,786		
Su	04/22/2018	165	121	3	98	4,139		84	2	97.62		2,760		
M	04/23/2018	166	167	4	98	5,538		99	3	96.96		4,153		18
T	04/24/2018	189	233	3	99	4,729		111	3	97.30		4,729		
W	04/25/2018	197	241	3	99	4,929		114	3	97.38		4,929		30
Th	04/26/2018	166	217	4	98	5,538		102	3	97.07		4,153		
F	04/27/2018	191	136	8	94	12,744		88	3	96.60		4,779		
S	04/28/2018	200	187	3	98	5,004		95	2	97.89		3,336		
Su	04/29/2018	170	100	3	97	4,253		90	2	97.77		2,836		
M	04/30/2018	163	175	4	98	5,438		83	2	97.59		2,719		

TOTAL	5,392	5,360	119					3,009	95					
AVERAGE	180	179	4	98		6,301		100	3	96.80		4,826		16

Wk1	174	145	3			5,061		99	4			5,817		
Wk2	160	187	3			4,555		109	3			3,790		
Wk3	207	208	5			9,913		98	3			6,163		
Wk4	182	186	4			6,089		99	3			4,120		

MAX 340

CBOD 20 LBS---- 27,062

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - APRIL 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)	
Su 04/01/2018	163	7.1	6.9	0.17	3	
M 04/02/2018	208	7.0	6.7	0.07	4	
T 04/03/2018	185	6.9	7.0	< 0.05	2	
W 04/04/2018	175	6.9	5.9	0.15	3	
Th 04/05/2018	167	7.0	5.9	0.15	3	
F 04/06/2018	163	7.1	5.7	0.15	5	
S 04/07/2018	160	7.0	6.6	0.14	1	
Su 04/08/2018	162	7.0	7.3	0.12	3	
M 04/09/2018	160	6.9	6.5	0.08	3	
T 04/10/2018	166	7.1	6.3	0.14	2	
W 04/11/2018	161	6.9	6.7	0.16	4	
Th 04/12/2018	159	7.0	6.5	0.12	4	
F 04/13/2018	159	7.1	6.1	0.17	20	
S 04/14/2018	151	7.0	5.8	0.13	131	
Su 04/15/2018	224	7.1	6.1	0.12	23	
M 04/16/2018	340	6.9	8.1	0.17	11	
T 04/17/2018	192	7.0	7.8	0.26	6	
W 04/18/2018	182	7.1	6.9	0.17	3	
Th 04/19/2018	176	7.0	8.2	0.12	3	
F 04/20/2018	165	7.1	8.1	0.13	2	
S 04/21/2018	167	7.0	8.4	0.08	1	
Su 04/22/2018	165	7.0	6.7	0.10	1	
M 04/23/2018	166	7.1	6.4	0.13	3	
T 04/24/2018	189	7.1	6.3	0.17	2	
W 04/25/2018	197	7.0	5.3	0.14	21	
Th 04/26/2018	166	7.1	5.9	0.13	7	
F 04/27/2018	191	6.9	6.4	0.14	6	
S 04/28/2018	200	7.0	6.5	0.09	6	
Su 04/29/2018	170	7.0	5.4	0.08	32	
M 04/30/2018	163		5.6	0.13	3	
Total	5,392	MIN	MAX	MIN AVG	AVG MAX	MEAN
Avg	180	6.9	7.1	5.3 6.6	0.13 0.26	5

Wk1 174
Wk2 160
Wk3 207
Wk4 182

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - APRIL 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
04/01/2018	24	125	192	152	158	158	92	102
04/02/2018	26	165	232	132	145	162	106	113
04/03/2018	24	143	132	160	156	143	69	79
04/04/2018	24	134	136	104	108	115	83	87
04/05/2018	24	126	184	128	136	130	87	93
04/06/2018	23	125	176	160	162	151	94	102
04/07/2018	23	124	184	144	150	147	116	120
04/08/2018	24	124	192	156	161	159	96	105
04/09/2018	22	122	212	196	198	152	122	126
04/10/2018	23	127	200	172	176	157	84	94
04/11/2018	22	123	208	148	156	146	106	111
04/12/2018	22	122	200	136	145	132	106	110
04/13/2018	22	122	220	300	289	170	87	98
04/14/2018	21	116	144	192	185	130	113	115
04/15/2018	26	170	220	284	277	125	88	92
04/16/2018	63	234	744	228	324	138	114	118
04/17/2018	30	145	116	148	143	160	65	80
04/18/2018	28	139	96	280	252	151	90	99
04/19/2018	27	133	172	180	179	144	85	94
04/20/2018	25	126	180	160	163	126	85	91
04/21/2018	25	126	196	108	121	155	102	110
04/22/2018	25	125	196	108	121	135	75	84
04/23/2018	24	127	184	164	167	120	95	99
04/24/2018	24	149	236	232	233	132	108	111
04/25/2018	26	154	196	248	241	144	110	114
04/26/2018	24	125	220	216	217	140	96	102
04/27/2018	25	149	160	132	136	110	85	88
04/28/2018	25	157	208	184	187	109	93	95
04/29/2018	25	128	264	72	100	129	83	90
04/30/2018	23	125	192	172	175	137	74	83
AVG	26	137	206	173	179	140	94	100

PERMIT

SWWPCP - APRIL 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
04/01/2018		194			
04/02/2018	115	181	123	14	89%
04/03/2018		161			
04/04/2018	129	136	130	21	84%
04/05/2018		138			
04/06/2018		181			
04/07/2018		169			
04/08/2018		197			
04/09/2018	131	164	136	16	88%
04/10/2018		164			
04/11/2018	149	174	152	17	89%
04/12/2018		141			
04/13/2018		181			
04/14/2018		137			
04/15/2018		170			
04/16/2018	126	149	130	19	85%
04/17/2018		232			
04/18/2018	114	183	125	15	88%
04/19/2018		165			
04/20/2018		152			
04/21/2018		165			
04/22/2018		166			
04/23/2018	118	155	123	9	93%
04/24/2018		172			
04/25/2018	124	166	130	17	87%
04/26/2018		187			
04/27/2018		170			
04/28/2018		114			
04/29/2018		143			
04/30/2018		179			
AVG	126	166	131	16	88%

DESIGN - 200 MGD

DATE	SWWPCP - APRIL 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
04/01/2018	24	125	14	163	193	
04/02/2018	26	165	17	208	317	0.12
04/03/2018	24	143	18	185	279	0.08
04/04/2018	24	134	17	175	229	0.06
04/05/2018	24	126	17	167	196	
04/06/2018	23	125	15	163	208	0.03
04/07/2018	23	124	13	160	188	T
04/08/2018	24	124	14	162	188	
04/09/2018	22	122	16	160	185	T
04/10/2018	23	127	16	166	188	T
04/11/2018	22	123	16	161	187	
04/12/2018	22	122	15	159	188	
04/13/2018	22	122	15	159	182	
04/14/2018	21	116	14	151	189	
04/15/2018	26	170	28	224	404	0.56
04/16/2018	63	234	43	340	498	2.28
04/17/2018	30	145	17	192	249	T
04/18/2018	28	139	15	182	249	
04/19/2018	27	133	16	176	247	T
04/20/2018	25	126	14	165	247	
04/21/2018	25	126	16	167	192	
04/22/2018	25	125	15	165	194	
04/23/2018	24	127	15	166	189	
04/24/2018	24	149	16	189	293	0.11
04/25/2018	26	154	17	197	285	0.16
04/26/2018	24	125	17	166	196	
04/27/2018	25	149	17	191	284	0.25
04/28/2018	25	157	18	200	303	0.14
04/29/2018	25	128	17	170	228	0.15
04/30/2018	23	125	15	163	183	
TOTAL	769	4,110	513	5,392		3.94
AVG	26	137	17	180		
		MIN		151	182	
		MAX		340	498	

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
04/04/2018	0.651	0.362	20.60	22.70	0.302
04/11/2018	0.824	0.341	13.50	25.70	0.428
04/18/2018	0.595	1.260	14.30	18.50	0.161
04/25/2018	0.775	0.408	23.80	24.30	0.270
AVG	0.711	0.593	18.05	22.80	0.290
MAX	0.824	1.260	23.80	25.70	0.428

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
04/05/2018	0.007	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	04/11/2018
Copper	0.0070
Iron Dissolved	0.0620
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0340

Organics Data (mg/L)

Southwest WPCP - Outfall

	04/10/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0031
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
APRIL 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD	DT	MGD	MGD	DT
04/01/2018		0.607		1.428	1.056	74.6
04/02/2018	0.910	0.536	53.05	0.937	0.837	58.3
04/03/2018	0.935	0.839	82.98	0.792	1.162	73.6
04/04/2018	0.916	1.092	119.40	2.240	1.951	152.5
04/05/2018	0.900	0.921	96.78	0.830	1.147	83.3
04/06/2018	0.880	1.163	112.65	1.331	1.003	72.4
04/07/2018				1.124	1.400	110.1
04/08/2018	0.905	0.505	51.99	1.248	1.118	87.7
04/09/2018	0.923	1.109	124.04	1.143	1.185	110.4
04/10/2018	0.900	1.122	125.09	1.268	1.129	77.0
04/11/2018	0.912	0.934	98.21	1.392	1.407	102.2
04/12/2018	0.918	0.926	96.15	1.183	1.278	91.7
04/13/2018	0.899	0.894	81.93	1.087	1.023	68.6
04/14/2018		0.009	0.41	1.162	1.322	91.0
04/15/2018	0.939	0.930	84.15	1.478	1.274	85.6
04/16/2018	0.895	0.855	76.67	1.529	1.424	110.1
04/17/2018		0.004		1.439	1.703	134.1
04/18/2018				1.166	0.974	95.8
04/19/2018	0.727	0.395	35.15	0.893	0.704	84.9
04/20/2018	1.834	1.490	133.75	1.182	1.209	153.2
04/21/2018		0.667		1.435	1.379	138.9
04/22/2018	0.912	0.517	53.36	0.819	0.780	59.8
04/23/2018	0.919	1.013	101.69	0.140	0.407	35.6
04/24/2018	0.909	0.969	104.24	1.662	1.442	131.4
04/25/2018	0.887	1.152	122.77	1.382	1.354	113.7
04/26/2018	0.900	0.036	2.52	1.300	1.460	131.9
04/27/2018		0.874		1.116	1.073	93.9
04/28/2018	0.910	0.443	48.19	1.816	1.839	170.6
04/29/2018	0.896	1.377	152.26	1.288	1.259	119.6
04/30/2018	0.909	0.539	57.97	1.499	1.547	151.3
TOTAL	21.636	21.915	2,015	37.308	36.842	3,064
AVERAGE	0.941	0.783	84	1.244	1.228	102

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180521-010
 Report Date: 05/21/2018

SW Daily Composite

WW180411-009

Composite 24h 04/11/2018 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/26/2018	12:05	4/27/2018	13:21	124	mg/L as N	2.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 78%. Acceptance limits are 90-110%.
-----	---

WW180425-009

Composite 24h 04/25/2018 06:20

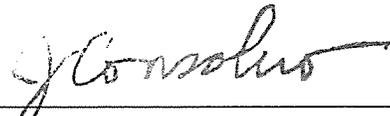
Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/26/2018	12:05	4/27/2018	13:25	119	mg/L as N	2.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 78%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
 Signature: _____
 Name: John Consolvo
 Title: Laboratory Manager
 Date: 5/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite 2

Report: NPW20180521-012
 Report Date: 05/21/2018

WW180404-010

Composite 24h 04/04/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD20	SM 5210 B	4/4/2018	14:22	4/24/2018	8:35	15.2	mg/L	2.0	mg/L

Data Qualifiers:

CBOD20	GGA recovery is 154.00 mg/L. The acceptance limits are 167.5 to 228.5 mg/L.
--------	---

WW180411-010

Composite 24h 04/11/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/21/2018	9:55	4/23/2018	15:46	25.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 73%. Acceptance limits are 90-110%.
-----	---

WW180418-010

Composite 24h 04/18/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/21/2018	9:55	4/23/2018	16:05	18.5	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 73%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
Title: Laboratory Manager
Date: 5/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180521-011
 Report Date: 05/21/2018

SW Daily Composite/CBOD

WW180425-007

Composite 24h 04/25/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/26/2018	12:05	4/27/2018	13:29	28.8	mg/L as N	2.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 78%. Acceptance limits are 90-110%.
-----	---

WW180425-008

Composite 24h 04/25/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/26/2018	12:05	4/27/2018	13:27	20.5	mg/L as N	2.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 78%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 5/21/2018

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Grab

Report: NPW20180521-013
Report Date: 05/21/2018

WW180409-005

Grab 04/09/2018 06:50

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			4/10/2018	8:30	3	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.861. The maximum acceptable PCV is 0.556. The measured results were 3.0 MPN/mL and 21.8 MPN/mL. PCV 0.556 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: John Consolvo
Title: Laboratory Manager
Date: 5/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Outfall Monthly Grab

Report: NPW20180521-014
 Report Date: 05/21/2018

WW180410-011

Grab 04/10/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane ^{B,D}	EPA 624			4/12/2018	22:01	<0.5 ^E	µg/L	<0.5	µg/L
Chloroform ^{B,D}	EPA 624			4/12/2018	22:01	3.10 ^E	µg/L	<0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			4/12/2018	22:01	<0.5 ^E	µg/L	<0.5	µg/L
Trichloroethene ^{B,D}	EPA 624			4/12/2018	22:01	<0.5 ^E	µg/L	<0.5	µg/L

Data Qualifiers:

1,2-Dichloroethane	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Chloroform	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Tetrachloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Trichloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 5/21/2018



Debra A. McCarty, Water Commissioner

June 27, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for May 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 05/01/2018-05/31/2018

Report Due Date: 06/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 103521

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for May 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - MAY 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
Su 04/29/2018	170	100	3	97	4,253		90	2	97.77		2,836			
M 04/30/2018	163	175	4	98	5,438		83	2	97.59		2,719			
T 05/01/2018	161	219	4	98	5,371		101	3	97.03		4,028			
W 05/02/2018	159	164	4	98	5,304		87	2	97.70		2,652		14	
Th 05/03/2018	160	112	4	96	5,338		101	4	96.03		5,338			
F 05/04/2018	159	141	3	98	3,978		104	4	96.16		5,304			
S 05/05/2018	153	273	6	98	7,656		134	3	97.75		3,828			
Su 05/06/2018	160	153	4	97	5,338		115	3	97.39		4,003			
M 05/07/2018	153	245	5	98	6,380		141	3	97.87		3,828		12	
T 05/08/2018	155	351	4	99	5,171		98	3	96.94		3,878			
W 05/09/2018	154	173	3	98	3,853		126	4	96.82		5,137		14	
Th 05/10/2018	154	285	3	99	3,853		132	3	97.73		3,853			
F 05/11/2018	149	328	3	99	3,728		129	3	97.68		3,728			
S 05/12/2018	236	357	3	99	5,905		79	3	96.20		5,905			
Su 05/13/2018	200	138	3	98	5,004		79	3	96.22		5,004			
M 05/14/2018	173	202	3	99	4,328		80	3	96.24		4,328		9	
T 05/15/2018	190	202	3	99	4,754		99	3	96.97		4,754			
W 05/16/2018	220	195	3	98	5,504		83	2	97.60		3,670		11	
Th 05/17/2018	240	178	1	99	2,002		73	3	95.89		6,005			
F 05/18/2018	185	204	5	98	7,715		82	2	97.56		3,086			
S 05/19/2018	273	101	3	97	6,830		93	2	97.84		4,554			
Su 05/20/2018	187	118	4	97	6,238		100	3	97.00		4,679			
M 05/21/2018	168	134	2	99	2,802		96	3	96.87		4,203		11	
T 05/22/2018	200	241	2	99	3,336		102	2	98.04		3,336			
W 05/23/2018	167	184	5	97	6,964		101	2	98.02		2,786		11	
Th 05/24/2018	163	191	3	98	4,078		102	2	98.04		2,719			
F 05/25/2018	159	120	3	98	3,978		112	2	98.21		2,652			
S 05/26/2018	160	282	3	99	4,003		101	2	98.02		2,669			
Su 05/27/2018	193	138	3	98	4,829		77	2	97.42		3,219			
M 05/28/2018	158	291	3	99	3,953		117	2	98.30		2,635		9	
T 05/29/2018	160	209	2	99	2,669		107	2	98.12		2,669			
W 05/30/2018	156	127	2	98	2,602		85	2	97.65		2,602		13	
Th 05/31/2018	175	249	4	98	5,838		99	3	96.97		4,379			

TOTAL AVERAGE	5,480	6,304	103				3,134	83					
	177	203	3	98	4,816		101	3	97.30		3,917		12

Wk1	161	169	4		5,334		100	3			3,815		
Wk2	166	270	4		4,890		117	3			4,333		
Wk3	212	174	3		5,162		84	3			4,486		
Wk4	172	181	3		4,486		102	2			3,292		

MAX 273

CBOD 20 LBS---- 15,995

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - MAY 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
T 05/01/2018	161	7.1	5.9	0.12	11
W 05/02/2018	159	7.0	6.3	< 0.05	6
Th 05/03/2018	160	7.1	7.6	< 0.05	17
F 05/04/2018	159	7.0	6.7	0.08	37
S 05/05/2018	153	7.0	7.0	0.08	19
Su 05/06/2018	160	7.0	7.0	0.09	13
M 05/07/2018	153	6.8	5.3	0.10	3
T 05/08/2018	155	6.9	5.5	0.08	2
W 05/09/2018	154	7.1	5.9	0.16	2
Th 05/10/2018	154	6.9	5.5	0.12	5
F 05/11/2018	149	7.0	5.5	0.18	6
S 05/12/2018	236	7.0	5.7	0.24	10
Su 05/13/2018	200	7.0	5.3	0.22	17
M 05/14/2018	173	7.1	5.2	0.21	8
T 05/15/2018	190	7.0	4.7	< 0.05	8
W 05/16/2018	220	7.0	4.3	0.16	3
Th 05/17/2018	240	7.0	6.7	0.31	62
F 05/18/2018	185	6.9	7.1	0.12	5
S 05/19/2018	273	7.1	7.5	0.38	6
Su 05/20/2018	187	7.0	7.3	0.20	6
M 05/21/2018	168	7.0	6.8	0.15	4
T 05/22/2018	200	7.0	5.5	0.16	5
W 05/23/2018	167	7.1	5.7	0.27	7
Th 05/24/2018	163	7.0	6.2	0.28	3
F 05/25/2018	159	7.0	6.0	0.13	8
S 05/26/2018	160	7.1	5.4	0.20	11
Su 05/27/2018	193	7.0	5.4	0.21	25
M 05/28/2018	158	7.0	5.5	0.19	5
T 05/29/2018	160	6.9	5.5	0.12	10
W 05/30/2018	156	7.0	4.9	0.13	8
Th 05/31/2018	175	7.0	5.1	0.12	10
Total	5,480	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	177	6.8 7.1	4.3 5.9	0.16 0.38	8

Wk1 161
Wk2 166
Wk3 212
Wk4 172

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - MAY 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
05/01/2018	23	123	192	224	219	125	97	101
05/02/2018	23	123	232	152	164	111	83	87
05/03/2018	23	122	204	96	112	135	95	101
05/04/2018	22	121	200	132	141	155	96	104
05/05/2018	22	116	208	284	273	137	133	134
05/06/2018	23	123	160	152	153	125	113	115
05/07/2018	22	118	204	252	245	138	141	141
05/08/2018	22	118	124	388	351	134	92	98
05/09/2018	21	118	152	176	173	111	128	126
05/10/2018	22	118	192	300	285	129	133	132
05/11/2018	21	114	232	344	328	112	132	129
05/12/2018	28	183	220	376	357	93	77	79
05/13/2018	26	151	72	148	138	122	73	79
05/14/2018	24	134	188	204	202	122	73	80
05/15/2018	25	148	400	172	202	93	100	99
05/16/2018	29	170	160	200	195	118	78	83
05/17/2018	35	184	144	184	178	90	70	73
05/18/2018	26	141	134	216	204	99	79	82
05/19/2018	40	204	152	92	101	103	91	93
05/20/2018	30	140	128	116	118	136	93	100
05/21/2018	26	127	188	124	134	122	91	96
05/22/2018	27	155	144	256	241	110	101	102
05/23/2018	25	128	208	180	184	130	96	101
05/24/2018	24	125	208	188	191	120	99	102
05/25/2018	24	120	188	108	120	137	107	112
05/26/2018	23	122	172	300	282	153	92	101
05/27/2018	24	152	180	132	138	130	70	77
05/28/2018	24	119	216	304	291	131	115	117
05/29/2018	23	122	192	212	209	134	102	107
05/30/2018	23	119	236	108	127	131	77	85
05/31/2018	23	134	228	252	249	139	93	99
AVG	25	135	189	206	203	123	97	101

PERMIT

SWWPCP - MAY 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
05/01/2018	111	133	114	17	85%
05/02/2018		126			
05/03/2018	121	156	126	22	83%
05/04/2018		169			
05/05/2018		146			
05/06/2018	152	167	154	11	93%
05/07/2018		150			
05/08/2018	121	167	128	20	84%
05/09/2018		121			
05/10/2018		148			
05/11/2018		122			
05/12/2018		125			
05/13/2018	99	133	103	18	83%
05/14/2018		145			
05/15/2018	102	132	106	5	95%
05/16/2018		121			
05/17/2018		117			
05/18/2018		144			
05/19/2018		160			
05/20/2018	111	157	118	14	88%
05/21/2018	113	168	122	ND	ND
05/22/2018	115	149	120	17	86%
05/23/2018		136			
05/24/2018	116	150	121	ND	ND
05/25/2018		155			
05/26/2018		188			
05/27/2018	80	140	87	18	79%
05/28/2018		140			
05/29/2018	144	182	149	16	89%
05/30/2018		132			
05/31/2018		184			
AVG	115	147	121	16	87%

DESIGN - 200 MGD

DATE	SWWPCP - MAY 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
05/01/2018	23	123	15	161	187	
05/02/2018	23	123	13	159	183	
05/03/2018	23	122	15	160	183	
05/04/2018	22	121	16	159	178	
05/05/2018	22	116	15	153	181	T
05/06/2018	23	123	14	160	199	T
05/07/2018	22	118	13	153	176	
05/08/2018	22	118	15	155	177	
05/09/2018	21	118	15	154	182	
05/10/2018	22	118	14	154	185	T
05/11/2018	21	114	14	149	325	T
05/12/2018	28	183	25	236	364	1.49
05/13/2018	26	151	23	200	369	0.49
05/14/2018	24	134	15	173	221	
05/15/2018	25	148	17	190	329	0.55
05/16/2018	29	170	21	220	438	0.25
05/17/2018	35	184	21	240	371	0.36
05/18/2018	26	141	18	185	346	0.02
05/19/2018	40	204	29	273	442	0.74
05/20/2018	30	140	17	187	266	0.01
05/21/2018	26	127	15	168	193	
05/22/2018	27	155	18	200	343	0.35
05/23/2018	25	128	14	167	200	
05/24/2018	24	125	14	163	192	
05/25/2018	24	120	15	159	190	
05/26/2018	23	122	15	160	209	0.85
05/27/2018	24	152	17	193	285	0.08
05/28/2018	24	119	15	158	187	
05/29/2018	23	122	15	160	179	
05/30/2018	23	119	14	156	188	
05/31/2018	23	134	18	175	320	0.02
TOTAL	773	4,192	515	5,480		5.21
AVG	25	135	17	177		
			MIN	149	176	
			MAX	273	442	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
 PERMIT NUMBER

001
 OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **05/01/2018**
 DMR Effective To: **05/31/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge? **No**

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	05	01	TO	2018	05	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen	Sample Measurement	***	***	***	4.3	5.9	***	mg/L	Grab	1/day
	Permit Measurement	***	***	***	Monitor & Report Inst Min	Monitor & Report Avg Mo	***		Grab	1/day
pH	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	Grab	1/day
	Permit Measurement	***	***	***	6.0 Inst Min	***	9.0 IMAX		Grab	1/day
Total Suspended Solids	Sample Measurement	4816	5334	lbs/day	***	3	4	mg/L	24-Hr Composite	1/day
	Permit Measurement	50400 Avg Mo	75080 Wkly Avg	***	***	30 Avg Mo	45 Wkly Avg		24-Hr Composite	1/day
Ammonia-Nitrogen	Sample Measurement	***	***	***	***	19.73	28.40	mg/L	24-Hr Composite	2/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrite as N	Sample Measurement	***	***	***	***	673	757	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Nitrate as N	Sample Measurement	***	***	***	***	293	318	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Kjeldahl Nitrogen	Sample Measurement	***	***	***	***	21.36	25.20	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
Total Phosphorus	Sample Measurement	***	***	***	***	274	380	mg/L	24-Hr Composite	1/week
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max		24-Hr Composite	1/week
1,2-Dichloroethane	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Chloroform	Sample Measurement	***	***	***	***	.0041	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Phenolics, Total	Sample Measurement	***	***	***	***	<.050	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Copper, Total	Sample Measurement	***	***	***	***	.0080	***	mg/L	24-Hr Composite	2/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Iron, Dissolved	Sample Measurement	***	***	***	***	.0060	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Lead, Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	2/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Nickel, Total	Sample Measurement	***	***	***	***	.0030	***	mg/L	24-Hr Composite	2/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Zinc, Total	Sample Measurement	***	***	***	***	.0340	***	mg/L	24-Hr Composite	2/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total	Sample Measurement	***	***	***	***	<.0030	***	mg/L	24-Hr Composite	2/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Flow	Sample Measurement	177	273	MGD	***	***	***	***	Metered	Continuous
	Permit Measurement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Metered	Continuous
Total Residual Chlorine (TRC)	Sample Measurement	***	***	***	***	16	.38	mg/L	Grab	1/day
	Permit Measurement	***	***	***	***	5	IMAX		Grab	1/day
Cyanide, Free	Sample Measurement	***	***	***	***	.006	***	mg/L	24-Hr Composite	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		24-Hr Composite	1/month
Tetrachloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Trichloroethylene	Sample Measurement	***	***	***	***	<.0005	***	mg/L	Grab	1/month
	Permit Measurement	***	***	***	***	Monitor & Report Avg Mo	***		Grab	1/month
Fecal Coliform	Sample Measurement	***	***	***	***	8	***	CFU/100 ml	Grab	1/day
	Permit Measurement	***	***	***	***	200	***		Grab	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5)	Sample Measurement	3917	4486	lbs/day	***	3	3	mg/L	24-Hr Composite	1/day
	Permit Measurement	1800 Avg Mo	29700 Wkly Avg		***	20	40		24-Hr Composite	1/day
BOD, carbonaceous, 20 day, 20 C	Sample Measurement	15995	***	lbs/day	***	***	***	***	24-Hr Composite	2/week
	Permit Measurement	36800 Avg Mo	***		***	***	***		24-Hr Composite	2/week
CBOD5 Minimum % Removal	Sample Measurement	***	***	***	97.30	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	89.25	***	***		24-Hr Composite	1/day
Total Suspended Solids Minimum % Removal	Sample Measurement	***	***	***	98	***	***	%	24-Hr Composite	1/day
	Permit Measurement	***	***	***	85	***	***		24-Hr Composite	1/day
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **05/01/2018**
 DMR Effective To: **05/31/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge? **Yes**

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	05	01	TO	2018	05	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLE TYPE	SAMPLE FREQUENCY
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH	Sample Measurement	---	---	---	---	---	---	S U	Grab	Daily when Discharging
	Permit Measurement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow	Sample Measurement	---	---	MGD	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Me	---		---	---	---			
Fecal Coliform	Sample Measurement	---	---		---	---	---	CFU/100 ml	Grab	Daily when Discharging
	Permit Measurement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge	Sample Measurement	---	---	minutes	---	---	---	---	Estimate	1 discharge
	Permit Measurement	Monitor & Report Avg Me	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
E-NPDES SW 201805.xls	Daily Effluent Monitoring Form	2018-06-28T08:40:47-04:00	
201805SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-06-28T08:42:47-04:00	
SWCSO 201805.xls	CSO Detailed Outfall Report Form	2018-06-28T08:42:16-04:00	
SW Daily Composite 2 (06-25-2018).pdf	Laboratory Accreditation Form	2018-06-28T08:43:23-04:00	
BLSSW201805.xls	Nutrient Monitoring Form	2018-06-28T08:41:16-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point ID	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	-------------------	-------------	-------------------	----------

UNAUTHORISED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
SENSSM			AREA CODE	NUMBER	2018	6	28
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MAY 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
05/02/2018	0.757	0.266	28.40	25.20	0.247
05/09/2018	0.721	0.291	23.40	23.30	0.248
05/16/2018	0.584	0.277	20.40	20.80	0.211
05/21/2018			16.60		
05/22/2018			18.90		
05/23/2018	0.633	0.311	16.20	17.60	0.380
05/24/2018			16.90		
05/25/2018			15.30		
05/26/2018			23.70		
05/27/2018			19.50		
05/30/2018	0.669	0.318	17.70	19.90	0.220
05/31/2018					0.338
AVG	0.673	0.293	19.73	21.36	0.274
MAX	0.757	0.318	28.40	25.20	0.380

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
05/03/2018	0.006	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	05/09/2018	05/31/2018	
Copper	0.0070	0.0090	0.0080
Iron Dissolved	0.0060		0.0060
Lead	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0030	0.0030	0.0030
Selenium	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0280	0.0400	0.0340

Organics Data (mg/L)

Southwest WPCP - Outfall

	05/08/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0041
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
MAY 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD	DT	MGD	MGD	DT
05/01/2018	0.910	0.958	118.06	1.005	1.372	136.6
05/02/2018	0.910	0.494	57.67	1.119	1.091	110.0
05/03/2018		0.271	28.04	1.221	1.163	105.7
05/04/2018	0.900	1.311	146.26	1.256	1.131	102.9
05/05/2018	0.890	0.963	108.00	1.301	1.375	128.2
05/06/2018		0.018	1.23	1.049	1.191	111.7
05/07/2018	0.880	0.391	41.25	1.122	0.814	80.0
05/08/2018	0.900	0.872	93.08	0.665	0.945	79.8
05/09/2018	0.900	1.121	115.36	1.903	1.680	154.8
05/10/2018		0.242	24.88	1.315	1.404	125.8
05/11/2018	0.900	0.771	63.03	1.127	1.271	109.0
05/12/2018	0.890	1.048	114.12	1.139	1.012	87.7
05/13/2018	0.910	0.851	86.81	1.181	1.277	117.3
05/14/2018	0.730	0.737	80.63	1.553	1.327	137.3
05/15/2018		-	-	1.470	1.370	140.8
05/16/2018	0.900	0.453	46.27	0.685	1.028	102.8
05/17/2018	0.910	0.978	108.91	1.513	1.441	126.0
05/18/2018		0.384	39.43	2.408	2.247	188.0
05/19/2018	0.910	0.055	6.68	1.261	1.487	149.9
05/20/2018	0.920	1.766	220.52	0.910	0.709	78.0
05/21/2018		-	-	1.251	1.411	163.8
05/22/2018		0.679	98.73	1.194	1.094	112.0
05/23/2018	0.850	0.233	28.99	0.293	0.222	21.4
05/24/2018	0.920	0.448	59.06	0.160	0.438	46.4
05/25/2018	0.930	1.234	125.83	0.960	0.811	77.7
05/26/2018	0.680	0.934	91.35	1.119	1.146	90.4
05/27/2018	-	0.763	84.17	1.154	1.273	122.4
05/28/2018	0.910	-	-	2.185	2.041	200.0
05/29/2018	0.914	0.572	64.25	1.464	1.553	159.4
05/30/2018		0.347	39.29	1.094	1.248	115.8
05/31/2018	-	-	-	1.328	1.354	127.6
TOTAL	18.564	18.893	2,092	37.404	37.925	3,609
AVERAGE	0.807	0.609	75	1.207	1.223	116

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180625-010
 Report Date: 06/22/2018

SW Daily Composite 2

WW180502-010

Composite 24h 05/02/2018 06:40

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	5/7/2018	11:43	5/11/2018	11:39	25.2	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 133%. Acceptance limits are 90-110%.
-----	--

WW180523-010

Composite 24h 05/23/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/12/2018	12:05	6/15/2018	10:21	17.6	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 178%. Acceptance limits are 90-110%.
-----	--

WW180530-010

Composite 24h 05/30/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/16/2018	9:20	6/19/2018	10:03	19.9	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 123%. Acceptance limits are 90-110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:
 Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 6/22/2018



Debra A. McCarty, Water Commissioner

July 26, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for June 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 06/01/2018-06/30/2018

Report Due Date: 07/28/2018

Submitted By: Mary Ellen Sens

Submission Id: 107502

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for June 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - JUNE 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
F 06/01/2018	164	249	4	98	5,471		99	3	96.98		4,103			
S 06/02/2018	196	182	4	98	6,541		96	2	97.91		3,270			
Su 06/03/2018	252	223	4	98	8,407		116	3	97.42		6,305			
M 06/04/2018	194	138	5	96	8,090		70	2	97.16		3,236		9	
T 06/05/2018	181	199	4	98	6,038		81	<	2	97.53	3,019			
W 06/06/2018	163	235	5	98	6,797		112	3	97.32		4,078		12	
Th 06/07/2018	156	184	3	98	3,903		95	3	96.85		3,903			
F 06/08/2018	154	195	3	98	3,853		87	3	96.56		3,853		9	
S 06/09/2018	153	146	3	98	3,828		104	2	98.07		2,552			
Su 06/10/2018	237	121	2	98	3,953		106	2	98.12		3,953			
M 06/11/2018	266	304	6	98	13,311		102	3	97.04		6,655		11	
T 06/12/2018	179	77	4	95	5,971		71	2	97.17		2,986			
W 06/13/2018	173	108	2	98	2,886		83	2	97.59		2,886		8	
Th 06/14/2018	165	125	2	98	2,752		80	2	97.51		2,752			
F 06/15/2018	162	169	2	99	2,702		84	2	97.61		2,702			
S 06/16/2018	159	194	2	99	2,652		121	2	98.34		2,652			
Su 06/17/2018	158	168	2	99	2,635		94	2	97.88		2,635			
M 06/18/2018	159	91	2	98	2,652		69	3	95.63		3,978		11	
T 06/19/2018	158	146	4	97	5,271		93	2	97.85		2,635			
W 06/20/2018	170	155	3	98	4,253		97	2	97.94		2,836		8	
Th 06/21/2018	161	259	4	98	5,371		100	3	96.99		4,028			
F 06/22/2018	161	189	3	98	4,028		126	2	98.41		2,685			
S 06/23/2018	161	162	2	99	2,685		100	<	2	98.00	2,685			
Su 06/24/2018	155	224	5	98	6,464		107	2	98.13		2,585			
M 06/25/2018	151	126	3	98	3,778		102	2	98.03		2,519		10	
T 06/26/2018	150	220	2	99	2,502		122	2	98.36		2,502			
W 06/27/2018	153	237	4	98	5,104		92	3	96.74		3,828		13	
Th 06/28/2018	175	117	2	98	2,919		102	<	2	98.03	2,919			
F 06/29/2018	147	171	3	98	3,678		94	3	96.82		3,678			
S 06/30/2018	150	123	4	97	5,004		100	2	98.00		2,502			

TOTAL	5,163	5,237	98				2,904	70					
AVERAGE	172	175	3	98	4,783		97	2	97.53		3,364		10

Wk1	179	189	4		5,845		95	3			3,850		
Wk2	192	157	3		4,890		92	2			3,512		
Wk3	161	167	3		3,842		97	2			3,069		
Wk4	154	174	3		4,207		103	2			2,933		

MAX 266

CBOD 20 LBS---- 14,865

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - JUNE 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 06/01/2018	164	6.9	6.3	0.13	22
S 06/02/2018	196	7.0	5.8	0.05	3
Su 06/03/2018	252	7.0	6.2	0.15	85
M 06/04/2018	194	6.8	6.8	0.12	21
T 06/05/2018	181	7.0	5.9	0.13	7
W 06/06/2018	163	7.1	4.5	0.13	11
Th 06/07/2018	156	7.0	5.3	0.14	2
F 06/08/2018	154	7.1	5.7	0.17	7
S 06/09/2018	153	7.1	5.4	0.25	7
Su 06/10/2018	237	7.0	5.5	0.12	23
M 06/11/2018	266	6.8	7.1	0.27	146
T 06/12/2018	179	7.0	5.5	0.21	17
W 06/13/2018	173	7.1	5.2	0.17	17
Th 06/14/2018	165	7.1	5.6	0.12	13
F 06/15/2018	162	7.1	5.0	0.06	7
S 06/16/2018	159	7.1	6.4	0.15	12
Su 06/17/2018	158	7.0	6.4	0.14	3
M 06/18/2018	159	7.0	5.8	0.10	7
T 06/19/2018	158	7.0	6.0	0.10	14
W 06/20/2018	170	7.1	4.7	0.12	12
Th 06/21/2018	161	6.9	4.3	0.11	13
F 06/22/2018	161	7.1	4.6	0.12	31
S 06/23/2018	161	7.0	5.1	0.15	6
Su 06/24/2018	155	7.1	5.3	0.18	13
M 06/25/2018	151	7.0	5.1	0.18	46
T 06/26/2018	150	7.1	5.6	0.20	5
W 06/27/2018	153	6.9	5.3	0.12	10
Th 06/28/2018	175	6.9	4.5	0.09	13
F 06/29/2018	147	7.0	4.6	0.12	10
S 06/30/2018	150	7.0	4.7	0.09	11
Total	5,163	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	172	6.8 7.1	4.3 5.5	0.14 0.27	12

Wk1 179
Wk2 192
Wk3 161
Wk4 154

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - JUNE 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DEL CORA	GRAVITY	DEL CORA	EAST HIGH LEVEL	PERMIT INFLUENT	DEL CORA	EAST HIGH LEVEL	PERMIT INFLUENT
	MGD	MGD						
06/01/2018	23	127	228	252	249	139	93	99
06/02/2018	24	154	228	176	182	145	89	96
06/03/2018	32	193	160	232	223	147	112	116
06/04/2018	27	151	176	132	138	116	63	70
06/05/2018	25	140	220	196	199	106	77	81
06/06/2018	24	124	184	244	235	113	112	112
06/07/2018	23	119	164	188	184	119	91	95
06/08/2018	23	117	168	200	195	128	80	87
06/09/2018	22	117	156	144	146	119	101	104
06/10/2018	32	175	160	115	121	141	101	106
06/11/2018	40	201	236	316	304	127	97	102
06/12/2018	26	137	108	72	77	86	68	71
06/13/2018	25	133	156	100	108	95	81	83
06/14/2018	24	127	180	116	125	99	77	80
06/15/2018	23	125	200	164	169	89	83	84
06/16/2018	22	124	160	200	194	131	119	121
06/17/2018	23	121	192	164	168	132	88	94
06/18/2018	22	124	132	84	91	122	60	69
06/19/2018	22	122	180	140	146	123	88	93
06/20/2018	22	130	176	152	155	123	93	97
06/21/2018	22	124	200	268	259	136	94	100
06/22/2018	21	125	144	196	189	138	124	126
06/23/2018	21	125	172	160	162	114	98	100
06/24/2018	21	120	200	228	224	125	104	107
06/25/2018	21	116	164	120	126	136	96	102
06/26/2018	20	116	192	224	220	113	123	122
06/27/2018	21	118	216	240	237	136	85	92
06/28/2018	22	137	180	108	117	119	99	102
06/29/2018	20	113	188	168	171	128	89	94
06/30/2018	20	115	140	120	123	139	94	100
AVG	24	132	179	174	175	123	93	97

PERMIT

SWWPCP - JUNE 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
06/01/2018		184			
06/02/2018		154			
06/03/2018		175			
06/04/2018	72	128	80	13	84%
06/05/2018		119			
06/06/2018	136	148	138	17	88%
06/07/2018		133			
06/08/2018		176			
06/09/2018		179			
06/10/2018		160			
06/11/2018	130	152	133	15	89%
06/12/2018		102			
06/13/2018	113	154	119	9	92%
06/14/2018		105			
06/15/2018		105			
06/16/2018		151			
06/17/2018		149			
06/18/2018	102	141	107	18	83%
06/19/2018		126			
06/20/2018	135	166	139	16	88%
06/21/2018		160			
06/22/2018		148			
06/23/2018		153			
06/24/2018		136			
06/25/2018	105	143	110	15	86%
06/26/2018		184			
06/27/2018	110	149	115	17	85%
06/28/2018		133			
06/29/2018		166			
06/30/2018		151			
AVG	113	148	118	15	87%

DESIGN - 200 MGD

DATE	SWWPCP - JUNE 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
06/01/2018	23	127	14	164	186	0.06
06/02/2018	24	154	18	196	378	0.25
06/03/2018	32	193	27	252	382	0.61
06/04/2018	27	151	16	194	270	0.24
06/05/2018	25	140	16	181	205	
06/06/2018	24	124	15	163	182	
06/07/2018	23	119	14	156	215	
06/08/2018	23	117	14	154	170	
06/09/2018	22	117	14	153	309	0.01
06/10/2018	32	175	30	237	459	0.77
06/11/2018	40	201	25	266	435	0.69
06/12/2018	26	137	16	179	189	
06/13/2018	25	133	15	173	193	T
06/14/2018	24	127	14	165	190	
06/15/2018	23	125	14	162	174	
06/16/2018	22	124	13	159	180	
06/17/2018	23	121	14	158	168	
06/18/2018	22	124	13	159	176	
06/19/2018	22	122	14	158	179	T
06/20/2018	22	130	18	170	274	0.29
06/21/2018	22	124	15	161	183	T
06/22/2018	21	125	15	161	211	0.16
06/23/2018	21	125	15	161	176	0.01
06/24/2018	21	120	14	155	177	T
06/25/2018	21	116	14	151	173	
06/26/2018	20	116	14	150	168	
06/27/2018	21	118	14	153	275	T
06/28/2018	22	137	16	175	170	0.25
06/29/2018	20	113	14	147	194	
06/30/2018	20	115	15	150	204	
TOTAL	713	3,970	480	5,163		3.34
AVG	24	132	16	172		
		MIN		147	168	
		MAX		266	459	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	06	01	TO	2018	06	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.3	5.5	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	4783	5845	lbs/day	***	3	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	19.20	22.50	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite an N (00615)	Sample Measurement	***	***	***	***	543	834	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	321	542	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	18.35	23.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	267	494	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0040	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0067	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0663	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0270	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	172	266	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	14	27	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	< .007	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	12	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	3364	3850	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	14865	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	06	01	TO	2018	06	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.53	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	98	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
BLSSW201806.xls	Nutrient Monitoring Form	2018-07-26T09:13:21-04:00	
SWCSO 201806.xls	CSO Detailed Outfall Report Form	2018-07-26T09:14:33-04:00	
SW Daily Composite 2 (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:15:44-04:00	
SW WET Testing Grab (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:17:07-04:00	
SludgeDMR201806.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-07-26T09:15:04-04:00	
E-NPDES SW-201806.xls	Daily Effluent Monitoring Form	2018-07-26T09:10:49-04:00	
SW Daily Composite BOD5 (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:16:09-04:00	
SW WET Testing Composite (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:16:39-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point	Cause Of NC	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	-----------------	------------	----------------	-------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments
-------------------	------------------	----------------	-----------------	----------------------	----------------	--------	----------	------------------	-----------------	--------------------	--------------	----------

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments
-------------------	-----------------------------	--------------------	---------------------	----------

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	SUBMITTED BY FULL NAME	TELEPHONE		DATE		
			AREA CODE	NUMBER	YEAR	MO	DAY
senssm		Mary Ellen Senss	215	-685-6258	2018	7	26

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES
Southwest Water Pollution Control Plant
 NPDES SUMMARY FOR THE MONTH OF June 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
06/04/2018	0.477	0.368	12.90	13.70	0.242
06/06/2018	0.446 <	0.250	20.60	15.40	0.494
06/08/2018	0.533 <	0.250	21.00	19.80	0.231
06/13/2018	0.634	0.542	17.80	16.30	0.166
06/20/2018	0.606	0.258	20.40	21.90	0.252
06/27/2018	0.562	0.258	22.50	23.00	0.219
AVG	0.543 <	0.321	19.20	18.35	0.267
MAX	0.634 <	0.542	22.50	23.00	0.494

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
06/04/2018	0.008 <	0.050
06/06/2018	0.009 <	0.050
06/08/2018	< 0.005 <	0.050
AVG	< 0.007 <	0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	06/04/2018	06/06/18	06/08/18	AVG
Copper	0.0060	0.0070	0.0070	0.0067
Iron Dissolved	0.0710	0.07400	0.0540	0.0663
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0030	0.0040	0.0050	0.0040
Selenium	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Zinc	< 0.0250	0.0290	0.0270	< 0.0270

Organics Data (mg/L)

Southwest WPCP - Outfall

	6/3/2018	6/4/2018	6/5/2018	6/6/2018	6/7/2018	6/8/2018	AVG
1,2-Dichloroethane	< 0.0005	<	0.0005 <	0.0005 <	0.0005 <	0.0005 <	0.0005
alpha-Endosulfan	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Benzidine	<	0.0050	<	0.0050	<	0.0050	< 0.0050
beta-BHC	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Chlordane	<	0.0005000	<	0.0005000	<	0.0005000	< 0.0005000
Chloroform	0.0029		0.0062	0.0055	0.0025	0.0028	0.0040
Dieldrin	<	0.0000170	<	0.0000160	<	0.0000170	< 0.0000167
Heptachlor	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Lindane (Gamma-BHC)	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDD	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDE	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDT	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Tetrachloroethylene	0.0005		0.0006	0.0006 <	0.0005 <	0.0005	0.0005
Trichloroethylene	< 0.0005	<	0.0005 <	0.0005 <	0.0005 <	0.0005	0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF June 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

6/8/2018

Toxicity, Ceriodaphnia acute	1.61
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	1

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JUNE 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	Biosolids Recycle Center / Synagro From NEWPCP			Biosolids Recycle Center / Synagro From SWWPCP		
	MGD	MGD		MGD	MGD	
06/01/2018	0.936	0.358	37.73	1.340	1.084	109.8
06/02/2018	-	0.568	61.59	0.647	0.407	43.7
06/03/2018	0.919	0.704	78.73	0.602	0.821	66.1
06/04/2018	-	0.114	11.24	1.240	1.406	116.9
06/05/2018	-	-	-	1.838	1.831	165.5
06/06/2018	0.528	0.629	79.88	1.212	1.236	110.9
06/07/2018	0.623	0.651	63.95	0.929	0.861	84.5
06/08/2018	-	-	-	1.111	1.138	138.3
06/09/2018	0.837	0.568	69.11	0.925	0.959	89.5
06/10/2018	-	0.293	38.11	0.919	0.882	84.0
06/11/2018	0.814	0.750	158.92	1.100	0.763	70.4
06/12/2018	-	0.005	0.68	0.620	0.513	45.9
06/13/2018	0.937	0.937	98.12	1.275	1.555	138.8
06/14/2018	-	-	-	1.356	1.145	103.1
06/15/2018	0.902	0.952	104.22	1.085	1.021	91.0
06/16/2018	-	-	-	0.901	0.976	109.6
06/17/2018	0.890	0.990	129.08	0.929	1.184	111.8
06/18/2018	-	-	-	0.559	0.317	26.5
06/19/2018	0.941	0.668	83.91	0.955	0.793	65.5
06/20/2018	0.949	1.232	147.73	1.574	1.788	134.3
06/21/2018	0.880	0.875	114.91	0.950	1.011	97.8
06/22/2018	-	-	-	1.438	1.407	133.4
06/23/2018	0.889	0.949	87.85	0.985	0.968	74.8
06/24/2018	-	-	-	1.049	0.941	86.8
06/25/2018	0.878	0.789	83.12	0.606	0.535	54.9
06/26/2018	0.924	1.036	119.75	0.600	0.771	80.5
06/27/2018	-	-	-	0.769	0.503	49.6
06/28/2018	0.893	0.750	93.06	1.294	1.093	103.3
06/29/2018	0.916	0.609	73.41	0.618	1.147	98.9
06/30/2018	0.736	1.389	167.62	0.817	0.436	37.5
TOTAL	15.391	15.816	1,903	30.241	29.492	2,724
AVERAGE	0.513	0.527	63	1.008	0.983	91

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite 2

Report: NPW20180723-008
 Report Date: 07/23/2018

WW180613-007

Composite 24h 06/13/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/16/2018	9:20	6/19/2018	10:12	19.9	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 123%. Acceptance limits are 90-110%.
-----	--

WW180613-008

Composite 24h 06/13/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/16/2018	9:20	6/19/2018	10:13	15.5	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 123%. Acceptance limits are 90-110%.
-----	--

WW180613-009

Composite 24h 06/13/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/16/2018	9:20	6/19/2018	10:14	16.3	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 123%. Acceptance limits are 90-110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

A handwritten signature in black ink, appearing to read "J. Consolvo", written over a horizontal line.

Name: John Consolvo
Title: Laboratory Manager
Date: 7/23/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite / BOD5

Report: NPW20180723-007
 Report Date: 07/23/2018

WW180604-003

Composite 24h 06/04/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/12/2018	12:05	6/15/2018	10:34	24	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 178%. Acceptance limits are 90-110%.
-----	--

WW180604-004

Composite 24h 06/04/2018 06:27

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	6/12/2018	12:05	6/15/2018	10:35	12.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

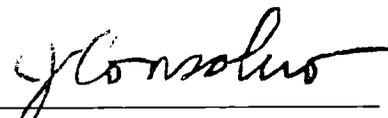
TKN	Laboratory Fortified Matrix (LFM) recovery is 178%. Acceptance limits are 90-110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 7/23/2018



Debra A. McCarty, Water Commissioner

July 26, 2018

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period of April 2018 to June 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 04/01/2018-06/30/2018

Report Due Date: 07/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 107513

Submission Status: Received

Submission Type: Original

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF June 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
06/04/2018	0.477	0.368	12.90	13.70	0.242
06/06/2018	0.446 <	0.250	20.60	15.40	0.494
06/08/2018	0.533 <	0.250	21.00	19.80	0.231
06/13/2018	0.634	0.542	17.80	16.30	0.166
06/20/2018	0.606	0.258	20.40	21.90	0.252
06/27/2018	0.562	0.258	22.50	23.00	0.219
AVG	0.543 <	0.321	19.20	18.35	0.267
MAX	0.634 <	0.542	22.50	23.00	0.494

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
06/04/2018	0.008 <	0.050
06/06/2018	0.009 <	0.050
06/08/2018	< 0.005 <	0.050
AVG	< 0.007 <	0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	06/04/2018	06/06/18	06/08/18	AVG
Copper	0.0060	0.0070	0.0070	0.0067
Iron Dissolved	0.0710	0.07400	0.0540	0.0663
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0030	0.0040	0.0050	0.0040
Selenium	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Zinc	< 0.0250	0.0290	0.0270	< 0.0270

Organics Data (mg/L)

Southwest WPCP - Outfall

	6/3/2018	6/4/2018	6/5/2018	6/6/2018	6/7/2018	6/8/2018	AVG
1,2-Dichloroethane	< 0.0005	<	0.0005 <	0.0005 <	0.0005 <	0.0005 <	0.0005
alpha-Endosulfan	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Benzidine	<	0.0050	<	0.0050	<	0.0050	< 0.0050
beta-BHC	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Chlordane	<	0.0005000	<	0.0005000	<	0.0005000	< 0.0005000
Chloroform	0.0029		0.0062	0.0055	0.0025	0.0028	0.0040
Dieldrin	<	0.0000170	<	0.0000160	<	0.0000170	< 0.0000167
Heptachlor	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Lindane (Gamma-BHC)	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDD	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDE	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDT	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Tetrachloroethylene	0.0005		0.0006	0.0006 <	0.0005 <	0.0005	0.0005
Trichloroethylene	< 0.0005	<	0.0005 <	0.0005 <	0.0005 <	0.0005	0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF June 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

6/8/2018

Toxicity, Ceriodaphnia acute	1.61
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	1



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 04/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2018	04	01		2018	06	30

FROM

TO

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival (61425)	Sample Measurement	***	***	***	***	***	1.61	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Chronic - Ceriodaphnia Survival (61426)	Sample Measurement	***	***	***	***	***	1	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Acute - Pimephales Survival (61427)	Sample Measurement	***	***	***	***	***	1	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Chlordane (51032)	Sample Measurement	***	***	***	***	<.0005000	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
alpha-Endosulfan (34361)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Benzidine (39120)	Sample Measurement	***	***	***	***	<.0050	***	mg/L	3/quarter	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	Grab
4,4-DDT (39300)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
4,4-DDD (39310)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
4,4-DDE (39320)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
beta-BHC (39338)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
gamma-BHC (Lindane) (39344)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Dieldrin (39380)	Sample Measurement	***	***	***	***	<.0000167	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Heptachlor (39410)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Toxicity, Chronic - Pimephales Survival (61428)	Sample Measurement	***	***	***	***	***	1	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comment
SW WET Testing Grab (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:28:49-04:00	
BLSSW201806.xls	WET Test Summary Report	2018-07-26T09:29:26-04:00	
SW WET Testing Composite (07-23-2018).pdf	Laboratory Accreditation Form	2018-07-26T09:28:07-04:00	

PERMIT VIOLATIONS

Non Compliance ID	Event Begin Date	Event End Date	Parameter	Limit Type	Reported Value	Permitted Value	Load Units	Sampling Point	Cause Of NC	Corrective Action	Comments

UNAUTHORIZED DISCHARGES

Non Compliance ID	Event Begin Date	Event End Date	Time Discovered	Substance Discharged	Event Location	Volume	Duration	Receiving Waters	Impact On Water	Cause Of Discharge	DEP Notified	Comments

OTHER PERMIT VIOLATIONS

Non Compliance ID	Stage Code (Sampling Point)	Reported Parameter	Non Compliance Type	Comments

COMMENTS DETAILS

Comment	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES data as required. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	215-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary Ellen Senss	TELEPHONE		DATE		
			215	-685-6258	2018	7	26
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180723-009
 Report Date: 07/23/2018

SW WET Testing Composite

Composite 24h 06/04/2018 04:00

WW180604-001

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2,4-Dinitrophenol ^{B,D}	EPA 625	6/5/2018	0:00	6/7/2018	22:26	<3.00 ^E	µg/L	3.00	µg/L
4,4'-DDD ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
4,6-Dinitro-o-cresol ^{B,D}	EPA 625	6/5/2018	0:00	6/7/2018	22:26	<1.00 ^E	µg/L	1.00	µg/L
Aroclor 1260 ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	1:37	<0.50 ^E	µg/L	0.50	µg/L
Benzidine ^{B,D}	EPA 625	6/5/2018	0:00	6/7/2018	22:26	<5.00 ^E	µg/L	1.00	µg/L
Dieldrin ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan I ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan II ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan sulfate ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Endrin aldehyde ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Heptachlor epoxide ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:01	<0.02 ^E	µg/L	0.02	µg/L
Pyrene ^{B,D}	EPA 625	6/5/2018	0:00	6/7/2018	22:26	<1.00 ^E	µg/L	1.00	µg/L

Data Qualifiers:

2,4-Dinitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDD	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,6-Dinitro-o-cresol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	The recovery of LCS is 0%, which is outside the acceptance limits of 10-93%. Results may have greater uncertainty.
Dieldrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan I	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan II	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Endosulfan sulfate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin aldehyde	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor epoxide	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Pyrene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

WW180606-001

Composite 24h 06/06/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,1,2-Trichloroethane ^{B,D}	EPA 624			6/8/2018	0:17	<0.5 ^E	µg/L	0.5	µg/L
1,2-Dichloroethane ^{B,D}	EPA 624			6/8/2018	0:17	<0.5 ^E	µg/L	0.5	µg/L
4,4'-DDD ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
4-Nitrophenol ^{B,D}	EPA 625	6/8/2018	0:00	6/14/2018	6:54	<1.00 ^E	µg/L	1.00	µg/L
Acrolein ^{B,D}	EPA 624			6/8/2018	0:17	<1.0 ^E	µg/L	1.0	µg/L
Aroclor 1260 ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	0:36	<0.50 ^E	µg/L	0.50	µg/L
Benzidine ^{B,D}	EPA 625	6/8/2018	0:00	6/14/2018	6:54	<5.00 ^F	µg/L	5.00	µg/L
Carbon tetrachloride ^{B,D}	EPA 624			6/8/2018	0:17	<0.5 ^E	µg/L	0.5	µg/L
CBOD5	SM 5210 B	6/6/2018	15:10	6/11/2018	9:25	2.38	mg/L	2	mg/L
Dieldrin ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan I ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan II ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Endosulfan sulfate ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Endrin aldehyde ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Heptachlor epoxide ^{B,D}	EPA 608	6/7/2018	0:00	6/12/2018	16:16	<0.02 ^E	µg/L	0.02	µg/L
Pyrene ^{B,D}	EPA 625	6/8/2018	0:00	6/14/2018	6:54	<1.00 ^E	µg/L	1.00	µg/L
Trichloroethene ^{B,D}	EPA 624			6/8/2018	0:17	<0.5 ^E	µg/L	0.5	µg/L

Data Qualifiers:

1,1,2-Trichloroethane	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
1,2-Dichloroethane	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
4,4'-DDD	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

4-Nitrophenol	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
Acrolein	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
Carbon tetrachloride	The CCV for this analyte was below acceptance criteria. Results may have greater uncertainty. Low recovering analytes recovered just outside of acceptance limits; effect on results is marginal.
CBOD5	GGA recovery is 159.5 mg/L. The acceptance limits are 167.5 mg/L to 228.5 mg/L.
Dieldrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan I	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan II	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan sulfate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin aldehyde	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor epoxide	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Pyrene	The recovery of LCS is 125%, which is above the acceptance limits of 52-115%, however the analyte was not detected in the sample. Data may be fully useable under the 2009 TNI Standard.
Trichloroethene	The CCV for this analyte was below acceptance criteria. Results may have greater uncertainty. Low recovering analytes recovered just outside of acceptance limits; effect on results is marginal.

WW180608-001

Composite 24h 06/08/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2-Chloronaphthalene ^{B,D}	EPA 625	6/13/2018	0:00	6/14/2018	3:20	<1.00 ^F	µg/L	1.00	µg/L
4,4'-DDT ^{B,D}	EPA 608	6/14/2018	0:00	6/18/2018	20:21	<0.02 ^F	µg/L	0.02	µg/L
4-Nitrophenol ^{B,D}	EPA 625	6/13/2018	0:00	6/14/2018	3:20	<1.00 ^F	µg/L	1.00	µg/L
Benzidine ^{B,D}	EPA 625	6/13/2018	0:00	6/14/2018	3:20	<5.00 ^F	µg/L	5.00	µg/L
TKN	SM 4500 Norg D	6/16/2018	9:20	6/19/2018	10:10	19.8	mg/L	1.0	mg/L

Data Qualifiers:

2-Chloronaphthalene	The recovery of LCS is 59%, which is outside the acceptance limits of 60-118%. Results may have greater uncertainty.
---------------------	--

4,4'-DDT	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
4-Nitrophenol	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
Benzidine	The recovery of LCS is 0%, which is outside the acceptance limits of 10-93%. Results may have greater uncertainty. Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
TKN	Laboratory Fortified Matrix (LFM) recovery is 123%. Acceptance limits are 90-110%.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 7/23/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180723-010
 Report Date: 07/23/2018

SW WET Testing Grab

WW180604-034

Grab 06/03/2018 09:41

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Trichloroethene ^{B,D}	EPA 624			6/6/2018	2:40	<0.5 ^E		0.5	

Data Qualifiers:

Trichloroethene	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
-----------------	---

WW180605-021

Grab 06/05/2018 09:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane ^{B,D}	EPA 624			6/7/2018	0:45	<0.5 ^E		0.5	
Chloroform ^{B,D}	EPA 624			6/7/2018	0:45	6.2 ^E	µg/L	0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			6/7/2018	0:45	0.6 ^E		0.5	
Trichloroethene ^{B,D}	EPA 624			6/7/2018	0:45	<0.5 ^E		0.5	

Data Qualifiers:

1,2-Dichloroethane	The CCV for this analyte was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard. The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Chloroform	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Tetrachloroethene	The CCV for this analyte was below acceptance criteria. Results may have greater uncertainty. Low recovering analytes recovered just outside of acceptance limits; effect on results is marginal. The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Trichloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

A handwritten signature in black ink, appearing to read "J. Consolvo", written over a horizontal line.

Name: John Consolvo
Title: Laboratory Manager
Date: 7/23/2018



Debra A. McCarty, Water Commissioner

August 28, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for July 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 07/01/2018-07/31/2018

Report Due Date: 08/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 111671

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for June 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - JULY 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Su	07/01/2018	153	259	4	98	5,104		107	2	98.14		2,552		
M	07/02/2018	151	187	4	98	5,037		102	2	98.03		2,519		7
T	07/03/2018	197	178	5	97	8,215		105	2	98.09		3,286		
W	07/04/2018	162	186	8	96	10,809		96	4	95.84		5,404		10
Th	07/05/2018	159	211	4	98	5,304		81	<	2	97.53	2,652		
F	07/06/2018	184	139	2	99	3,069		72	1	98.61		1,535		
S	07/07/2018	143	125	3	98	3,578		76	<	2	97.36	2,385		
Su	07/08/2018	142	203	3	99	3,553		93	3	96.76		3,553		
M	07/09/2018	152	59	3	95	3,803		90	<	2	97.77	2,535		7
T	07/10/2018	143	157	1	99	1,193		92	3	96.75		3,578		
W	07/11/2018	144	228	7	97	8,407		96	2	97.92		2,402		11
Th	07/12/2018	150	173	6	97	7,506		85	2	97.64		2,502		
F	07/13/2018	142	139	6	96	7,106		106	4	96.21		4,737		
S	07/14/2018	141	115	1	99	1,176		101	<	2	98.03	2,352		
Su	07/15/2018	174	150	3	98	4,353		101	1	99.01		1,451		
M	07/16/2018	145	77	3	96	3,628		90	1	98.89		1,209		6
T	07/17/2018	169	208	4	98	5,638		79	2	97.47		2,819		
W	07/18/2018	130	84	4	95	4,337		100	<	2	97.99	2,168		10
Th	07/19/2018	140	166	3	98	3,503		106	<	2	98.11	2,335		
F	07/20/2018	139	179	4	98	4,637		93	1	98.93		1,159		
S	07/21/2018	218	114	2	98	3,636		81	<	2	97.53	3,636		
Su	07/22/2018	176	137	4	97	5,871		94	2	97.87		2,936		
M	07/23/2018	149	88	4	95	4,971		86	1	98.84		1,243		7
T	07/24/2018	174	167	4	98	5,805		86	<	2	97.67	2,902		
W	07/25/2018	197	89	3	97	4,922		81	<	2	97.54	3,282		
Th	07/26/2018	152	122	4	97	5,071		56	<	2	96.45	2,535		
F	07/27/2018	172	77	3	96	4,303		80	2	97.51		2,869		
S	07/28/2018	138	147	4	97	4,604		80	2	97.49		2,302		
Su	07/29/2018	143	140	3	98	3,578		82	<	2	97.57	2,385		
M	07/30/2018	144	150	3	98	3,603		81	<	2	97.54	2,402		
T	07/31/2018	143	178	3	98	3,578		77	3	96.12		3,578		

TOTAL	4,866	4,630	115					2,755	64					
AVERAGE	157	149	4	97		4,835		89	2	97.65		2,684		8

Wk1	164	183	4		5,874		91	2				2,905		
Wk2	145	153	4		4,678		95	3				3,094		
Wk3	159	140	3		4,247		93	2				2,111		
Wk4	165	118	4		5,078		80	2				2,581		

MAX 218

CBOD 20 LBS---- 10,096

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - JULY 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Su 07/01/2018	153	7.0	5.9	0.11	5
M 07/02/2018	151	6.8	5.6	0.08	14
T 07/03/2018	197	6.9	5.5	0.10	12
W 07/04/2018	162	6.9	6.3	0.12	25
Th 07/05/2018	159	7.0	4.8	0.08	4
F 07/06/2018	184	7.0	4.7	0.05	9
S 07/07/2018	143	7.0	5.1	0.21	12
Su 07/08/2018	142	6.9	5.3	0.13	4
M 07/09/2018	152	7.0	5.4	0.23	16
T 07/10/2018	143	7.1	5.0	0.14	38
W 07/11/2018	144	7.0	8.1	0.12	28
Th 07/12/2018	150	7.1	4.7	0.07	461
F 07/13/2018	142	7.1	5.4	0.11	69
S 07/14/2018	141	7.1	4.9	0.17	17
Su 07/15/2018	174	7.0	5.8	0.21	8
M 07/16/2018	145	7.0	5.5	0.10	7
T 07/17/2018	169	6.9	5.7	0.08	5
W 07/18/2018	130	7.0	6.4	0.06	11
Th 07/19/2018	140	6.9	5.2	0.08	3
F 07/20/2018	139	7.0	5.6	0.12	2
S 07/21/2018	218	7.1	5.7	0.20	5
Su 07/22/2018	176	7.1	6.3	0.32	6
M 07/23/2018	149	6.9	5.4	0.17	9
T 07/24/2018	174	7.1	5.2	0.16	3
W 07/25/2018	197	7.0	4.9	0.23	15
Th 07/26/2018	152	6.9	4.8	0.13	5
F 07/27/2018	172	7.0	5.1	0.22	11
S 07/28/2018	138	6.9	6.9	0.12	9
Su 07/29/2018	143	7.1	5.6	0.08	7
M 07/30/2018	144	7.1	6.0	0.05	8
T 07/31/2018	143	6.9	5.7	0.06	10
Total	4,866	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	157	6.8 7.1	4.7 5.6	0.13 0.32	10

Wk1 164
Wk2 145
Wk3 159
Wk4 165

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - JULY 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
07/01/2018	21	116	224	264	259	142	102	107
07/02/2018	20	119	180	188	187	146	95	102
07/03/2018	22	159	164	180	178	143	100	105
07/04/2018	20	128	200	184	186	126	92	96
07/05/2018	20	125	232	208	211	179	67	81
07/06/2018	21	147	192	132	139	109	67	72
07/07/2018	19	110	156	120	125	139	66	76
07/08/2018	19	110	196	204	203	135	86	93
07/09/2018	20	117	132	48	59	155	80	90
07/10/2018	19	109	160	156	157	134	86	92
07/11/2018	19	111	120	244	228	122	92	96
07/12/2018	19	115	180	172	173	132	78	85
07/13/2018	19	109	156	136	139	148	99	106
07/14/2018	19	107	212	100	115	142	95	101
07/15/2018	21	135	168	148	150	149	94	101
07/16/2018	19	112	188	60	77	152	81	90
07/17/2018	20	132	236	204	208	123	73	79
07/18/2018	18	102	136	76	84	141	93	100
07/19/2018	19	108	204	160	166	144	100	106
07/20/2018	18	106	200	176	179	143	86	93
07/21/2018	23	170	168	108	114	148	73	81
07/22/2018	22	137	200	128	137	149	86	94
07/23/2018	20	114	164	76	88	132	79	86
07/24/2018	23	134	188	164	167	131	79	86
07/25/2018	23	164	124	84	89	121	76	81
07/26/2018	21	119	184	112	122	115	47	56
07/27/2018	20	137	180	64	77	127	74	80
07/28/2018	18	108	192	140	147	131	72	80
07/29/2018	19	113	164	136	140	131	75	82
07/30/2018	19	113	188	144	150	129	74	81
07/31/2018	18	113	216	172	178	142	68	77
AVG	20	123	181	145	149	137	82	89

PERMIT

SWWPCP - JULY 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
07/01/2018		168			
07/02/2018	123	182	131	21	84%
07/03/2018		152			
07/04/2018	73	184	87	11	87%
07/05/2018		202			
07/06/2018		122			
07/07/2018		167			
07/08/2018		166			
07/09/2018	126	182	133	17	87%
07/10/2018		155			
07/11/2018	114	149	119	14	88%
07/12/2018		149			
07/13/2018		157			
07/14/2018		201			
07/15/2018		200			
07/16/2018	125	173	131	19	86%
07/17/2018		145			
07/18/2018	102	150	109	15	86%
07/19/2018		154			
07/20/2018		161			
07/21/2018		179			
07/22/2018		179			
07/23/2018	89	142	96	15	84%
07/24/2018		143			
07/25/2018	83	208	98	13	87%
07/26/2018		122			
07/27/2018		176			
07/28/2018		144			
07/29/2018		142			
07/30/2018		137			
07/31/2018		153			
AVG	104	163	113	16	86%

DESIGN - 200 MGD

DATE	SWWPCP - JULY 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
07/01/2018	21	116	16	153	161	
07/02/2018	20	119	12	151	165	
07/03/2018	22	159	16	197	257	0.01
07/04/2018	20	128	14	162	193	
07/05/2018	20	125	14	159	261	T
07/06/2018	21	147	16	184	197	0.10
07/07/2018	19	110	14	143	167	
07/08/2018	19	110	13	142	169	
07/09/2018	20	117	15	152	174	
07/10/2018	19	109	15	143	159	
07/11/2018	19	111	14	144	161	
07/12/2018	19	115	16	150	192	0.15
07/13/2018	19	109	14	142	163	
07/14/2018	19	107	15	141	356	
07/15/2018	21	135	18	174	158	0.38
07/16/2018	19	112	14	145	160	
07/17/2018	20	132	17	169	199	0.07
07/18/2018	18	102	10	130	155	
07/19/2018	19	108	13	140	147	
07/20/2018	18	106	15	139	323	
07/21/2018	23	170	25	218	416	0.74
07/22/2018	22	137	17	176	176	0.24
07/23/2018	20	114	15	149	206	T
07/24/2018	23	134	17	174	337	0.08
07/25/2018	23	164	10	197	312	1.14
07/26/2018	21	119	12	152	162	T
07/27/2018	20	137	15	172	225	0.15
07/28/2018	18	108	12	138	166	
07/29/2018	19	113	11	143	207	
07/30/2018	19	113	12	144	147	
07/31/2018	18	113	12	143	265	T
TOTAL	618	3,799	449	4,866		3.06
AVG	20	123	14	157		
		MIN		130	147	
		MAX		218	416	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 07/01/2018
 DMR Effective To: 07/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	07	01	TO	2018	07	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.7	5.6	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	4835	5874	lbs/day	***	4	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	19.40	25.60	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	826	1210	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	352	500	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	19.93	23.10	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	239	286	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0038	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0070	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0590	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0250	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	157	218	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	13	.32	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	< .005	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	10	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	2684	3094	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	10096	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 07/01/2018
 DMR Effective To: 07/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	07	01	TO	2018	07	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA,
19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 07/01/2018
 DMR Effective To: 07/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	07	01	TO	2018	07	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.65	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW Outfall Monthly Grab (08-21-2018).pdf	Laboratory Accreditation Form	2018-08-24T15:01:17-04:00	
E-NPDES SW-201807.xls	Daily Effluent Monitoring Form	2018-08-24T15:02:14-04:00	
SWCSO 201807.xls	CSO Detailed Outfall Report Form	2018-08-24T15:02:46-04:00	
SW Daily Composite (08-21-2018).pdf	Laboratory Accreditation Form	2018-08-24T14:59:51-04:00	
SW Daily Composite 2 (08-21-2018).pdf	Laboratory Accreditation Form	2018-08-24T15:00:22-04:00	
SW Daily Grab (08-21-2018).pdf	Laboratory Accreditation Form	2018-08-24T15:00:49-04:00	
BLSSW201807.xls	Nutrient Monitoring Form	2018-08-24T15:01:49-04:00	
SW Daily Composite - BOD5 (08-21-2018).pdf	Laboratory Accreditation Form	2018-08-24T14:59:25-04:00	
201807SL R.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-08-27T14:52:47-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Comments
-------------------	---------------------	----------------	-----------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	8	27
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF JULY 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
07/05/2018	0.702	0.500	13.80	14.50	0.209
07/11/2018	0.685	0.341	25.60	23.10	0.286
07/18/2018	0.708	0.254	18.80	19.60	0.241
07/25/2018	1.210	0.314	19.40	22.50	0.219
AVG	0.826	0.352	19.40	19.93	0.239
MAX	1.210	0.500	25.60	23.10	0.286

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
07/12/2018	< 0.005	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	07/11/2018
Copper	0.0070
Iron Dissolved	0.0590
Lead	< 0.0030
Nickel	0.0050
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	07/10/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0038
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JULY 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	Biosolids Recycle Center / Synagro From NEWPCP MGD	MGD	DT	Biosolids Recycle Center / Synagro From SWWPCP MGD	MGD	DT
07/01/2018		0.050	4.99	2.095	2.655	238.0
07/02/2018	0.372	0.355	42.51	1.456	0.978	90.0
07/03/2018	0.481			0.582	0.362	40.6
07/04/2018	0.923	1.711	217.12	1.010	1.328	138.7
07/05/2018				0.262	0.537	67.2
07/06/2018	0.577	0.406	36.18	1.136	0.872	108.9
07/07/2018	0.855	1.040	109.51	2.016	2.368	221.3
07/08/2018				0.971	0.963	82.3
07/09/2018	0.806	0.935	106.49	0.785	0.314	32.0
07/10/2018	0.755	0.819		0.996	1.466	105.9
07/11/2018				0.795	0.718	72.8
07/12/2018	0.907	0.921	135.66	1.282	0.939	91.4
07/13/2018				1.238	1.069	124.8
07/14/2018	1.803	2.080	294.16	1.925	1.908	179.5
07/15/2018				0.474	1.025	96.2
07/16/2018				1.160	1.036	96.3
07/17/2018	0.927	1.477	178.04	1.270	1.253	115.4
07/18/2018				1.417	0.682	68.8
07/19/2018		0.023	2.10	0.225	0.727	72.6
07/20/2018	0.674	0.303	40.66	0.498	0.612	62.2
07/21/2018	0.921	1.343	164.37	1.689	1.430	167.4
07/22/2018	0.928	0.914	108.62	1.201	1.338	152.9
07/23/2018	0.874	0.846	98.41	1.170	1.064	102.3
07/24/2018				1.673	2.207	238.7
07/25/2018	0.888	1.341	215.75	0.812	0.748	71.4
07/26/2018	0.889	0.284	42.12	1.244	0.856	112.7
07/27/2018	0.883	1.443	167.37	0.724	1.122	123.2
07/28/2018	0.568	0.577	71.45	0.809	1.065	133.4
07/29/2018				1.192	0.585	67.5
07/30/2018	0.909	0.891	133.57	1.015	1.079	118.3
07/31/2018	0.856	1.003	122.06	0.873	0.992	112.8
TOTAL	16.796	18.761	2,291	33.995	34.297	3,505
AVERAGE	0.840	0.893	115	1.097	1.106	113

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite / BOD5

Report: NPW20180821-008
 Report Date: 08/21/2018

WW180705-008

Composite 24h 07/05/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	7/12/2018	11:40	7/18/2018	10:47	24.4	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW180705-009

Composite 24h 07/05/2018 06:17

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	7/12/2018	11:40	7/18/2018	10:48	12.5	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW180711-008

Composite 24h 07/11/2018 06:25

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	7/12/2018	11:40	7/18/2018	11:13	28.6	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Composite

Report: NPW20180821-007
 Report Date: 08/21/2018

WW180705-007

Composite 24h 07/05/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	7/12/2018	11:40	7/18/2018	11:04	90.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 72%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2018

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Composite 2

Report: NPW20180821-009
Report Date: 08/21/2018

WW180705-010

Composite 24h 07/05/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	7/12/2018	11:40	7/18/2018	10:42	14.5	mg/L as N	1.0	mg/L as N

Data Qualifiers:

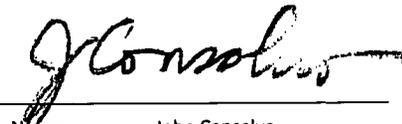
TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
Title: Laboratory Manager
Date: 8/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report: NPW20180821-010
 Report Date: 08/21/2018

WW180727-005

Grab 07/27/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			7/28/2018	8:17	10.8	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.79. The maximum acceptable PCV is 0.556. The measured results were <1 MPN/mL and 5.2 MPN/mL. PCV 0.556 was exceeded due to low values in samples.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20180821-011
 Report Date: 08/21/2018

SW Outfall Monthly Grab

WW180710-011

Grab 07/10/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane ^{B,D}	EPA 624			7/12/2018	16:07	<0.5 ^E	µg/L	<0.5	µg/L
Chloroform ^{B,D}	EPA 624			7/12/2018	16:07	3.80 ^E	µg/L	<2.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			7/12/2018	16:07	<0.5 ^E	µg/L	<0.5	µg/L
Trichloroethene ^{B,D}	EPA 624			7/12/2018	16:07	<0.5 ^E	µg/L	<0.5	µg/L

Data Qualifiers:

1,2-Dichloroethane	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Chloroform	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Tetrachloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Trichloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 8/21/2018



Debra A. McCarty, Water Commissioner

September 28, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for August 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 08/01/2018-08/31/2018

Report Due Date: 09/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 115584

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for August 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **08/01/2018**
 DMR Effective To: **08/31/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	08	01	TO	2018	08	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.7	5.6	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	4803	5421	lbs/day	***	4	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	20.79	27.70	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	1.271	1.690	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	220	372	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	19.11	24.50	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	219	311	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0020	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0060	***	mg/L	4/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	<.0395	***	mg/L	4/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	4/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0053	***	mg/L	4/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0250	***	mg/L	4/day	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	162	291	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	13	.32	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	< .005	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	10	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	3328	4046	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	14911	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 08/01/2018
 DMR Effective To: 08/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	08	01	TO	2018	08	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 08/01/2018
 DMR Effective To: 08/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	08	01	TO	2018	08	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.94	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***	***	89.25	***	***	%	1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***	***	85	***	***	%	1/day	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
BLSSW201808.xls	Nutrient Monitoring Form	2018-09-27T15:54:26-04:00	
SW Daily Composite 12 (09-21-2018).pdf	Laboratory Accreditation Form	2018-09-27T09:42:47-04:00	
SW Daily Composite BOD5 (09-21-2018).pdf	Laboratory Accreditation Form	2018-09-27T09:43:13-04:00	
201808SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-09-27T10:54:41-04:00	
E-NPDES SW-201808.xls	Daily Effluent Monitoring Form	2018-09-27T09:40:35-04:00	
SWCSO 201808.xls	CSO Detailed Outfall Report Form	2018-09-27T09:41:26-04:00	
SW Daily Grab (09-21-2018).pdf	Laboratory Accreditation Form	2018-09-27T09:43:38-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	9	27
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT

SWWPCP - AUGUST 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
W 08/01/2018	164	62	3	96	3,419		83	2	97.58		2,736		11	
Th 08/02/2018	150	173	5	97	6,255		90	5	94.44		6,255			
F 08/03/2018	183	129	4	97	6,105		106	2	98.12		3,052		12	
S 08/04/2018	163	160	4	98	5,438		66	3	95.48		4,078			
Su 08/05/2018	146	160	4	97	4,871		94	3	96.81		3,653			
M 08/06/2018	150	72	2	97	2,502		69 <	2	97.10		2,502		7	
T 08/07/2018	149	115	3	97	3,728		102	3	97.05		3,728			
W 08/08/2018	150	43	4	91	5,004		86	2	97.68		2,502		14	
Th 08/09/2018	144	146	5	97	6,005		90	3	96.65		3,603			
F 08/10/2018	141	130	5	96	5,880		81	3	96.28		3,528			
S 08/11/2018	207	146	2	99	3,453		71 <	2	97.18		3,453			
Su 08/12/2018	173	142	6	96	8,657		80	3	96.26		4,328			
M 08/13/2018	291	149	3	98	7,281		68	3	95.57		7,281		8	
T 08/14/2018	203	101	2	98	3,386		42 <	2	95.22		3,386			
W 08/15/2018	158	136	3	98	3,953		48	2	95.86		2,635		11	
Th 08/16/2018	155	89	4	96	5,171		92	2	97.81		2,585			
F 08/17/2018	161	145	3	98	4,028		94	4	95.73		5,371			
S 08/18/2018	164	131	4	97	5,471		83 <	2	97.58		2,736			
Su 08/19/2018	211	164	4	98	7,039		86	2	97.67		3,519			
M 08/20/2018	151	165	3	98	3,778		63	2	96.81		2,519		9	
T 08/21/2018	157	126	3	98	3,928		81	2	97.53		2,619			
W 08/22/2018	149	129	3	98	3,728		94	2	97.87		2,485		9	
Th 08/23/2018	143	168	4	98	4,770		76 <	2	97.37		2,385			
F 08/24/2018	143	162	4	98	4,770		91	4	95.63		4,770			
S 08/25/2018	139	122	4	97	4,637		72	2	97.22		2,319			
Su 08/26/2018	138	233	4	98	4,618		92	1	98.91		1,155			
M 08/27/2018	143	123	3	98	3,578		91	1	98.91		1,193		12	
T 08/28/2018	141	127	2	98	2,352		115	2	98.26		2,352			
W 08/29/2018	142	127	3	98	3,553		84	2	97.61		2,369		10	
Th 08/30/2018	139	152	5	97	5,796		98	2	97.97		2,319			
F 08/31/2018	172	144	4	97	5,738		80	4	94.99		5,738		16	
S 09/01/2018	138	123	3	98	3,453		90	2	97.78		2,302			
TOTAL														
AVERAGE														
	5,020	4,172	112				2,566	76						
	162	135	4	97	4,803		83	2	96.94		3,328		11	

Wk1		116	4	4,492	85	3	3,281
Wk2	186	128	4	5,421	72	3	4,046
Wk3	156	148	4	4,664	80	2	2,945
Wk4	145	147	3	4,155	93	2	2,489

MAX 291

CBOD 20 LBS---- 14,911

NPDES/ LIMIT	MO WK	<30 <45	>85	<50,400 <75,060	<25 <40	>89.25	<19,800 <29,700
-----------------	----------	------------	-----	--------------------	------------	--------	--------------------

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - AUGUST 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
W 08/01/2018	164	7.0	5.9	0.11	5
Th 08/02/2018	150	6.8	5.6	0.08	14
F 08/03/2018	183	6.9	5.5	0.10	12
S 08/04/2018	163	6.9	6.3	0.12	25
Su 08/05/2018	146	7.0	4.8	0.08	4
M 08/06/2018	150	7.0	4.7	0.05	9
T 08/07/2018	149	7.0	5.1	0.21	12
W 08/08/2018	150	6.9	5.3	0.13	4
Th 08/09/2018	144	7.0	5.4	0.23	16
F 08/10/2018	141	7.1	5.0	0.14	38
S 08/11/2018	207	7.0	8.1	0.12	28
Su 08/12/2018	173	7.1	4.7	0.07	461
M 08/13/2018	291	7.1	5.4	0.11	69
T 08/14/2018	203	7.1	4.9	0.17	17
W 08/15/2018	158	7.0	5.8	0.21	8
Th 08/16/2018	155	7.0	5.5	0.10	7
F 08/17/2018	161	6.9	5.7	0.08	5
S 08/18/2018	164	7.0	6.4	0.06	11
Su 08/19/2018	211	6.9	5.2	0.08	3
M 08/20/2018	151	7.0	5.6	0.12	2
T 08/21/2018	157	7.1	5.7	0.20	5
W 08/22/2018	149	7.1	6.3	0.32	6
Th 08/23/2018	143	6.9	5.4	0.17	9
F 08/24/2018	143	7.1	5.2	0.16	3
S 08/25/2018	139	7.0	4.9	0.23	15
Su 08/26/2018	138	6.9	4.8	0.13	5
M 08/27/2018	143	7.0	5.1	0.22	11
T 08/28/2018	141	6.9	6.9	0.12	9
W 08/29/2018	142	7.1	5.6	0.08	7
Th 08/30/2018	139	7.1	6.0	0.05	8
F 08/31/2018	172	6.9	5.7	0.06	10
Total	5,020	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	162	6.8 7.1	4.7 5.6	0.13 0.32	10

Wk1
Wk2 186
Wk3 156
Wk4 145

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - AUGUST 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
08/01/2018	20	130	192	44	62	144	74	83
08/02/2018	21	117	204	168	173	139	82	90
08/03/2018	21	145	232	116	129	170	98	106
08/04/2018	21	129	216	152	160	123	58	66
08/05/2018	20	113	208	152	160	132	88	94
08/06/2018	19	116	152	60	72	130	60	69
08/07/2018	19	116	192	104	115	142	96	102
08/08/2018	19	118	172	24	43	157	76	86
08/09/2018	19	113	160	144	146	133	83	90
08/10/2018	18	111	172	124	130	126	74	81
08/11/2018	25	160	216	136	146	115	65	71
08/12/2018	23	134	236	128	142	121	74	80
08/13/2018	49	217	196	140	149	106	60	68
08/14/2018	27	162	132	96	101	54	40	42
08/15/2018	22	123	160	132	136	87	42	48
08/16/2018	22	120	192	72	89	149	82	92
08/17/2018	21	126	180	140	145	132	88	94
08/18/2018	22	129	176	124	131	94	81	83
08/19/2018	30	158	140	168	164	150	75	86
08/20/2018	23	116	192	160	165	111	54	63
08/21/2018	22	124	164	120	126	111	76	81
08/22/2018	22	117	184	120	129	127	88	94
08/23/2018	21	111	192	164	168	122	68	76
08/24/2018	20	110	224	152	162	162	80	91
08/25/2018	20	107	84	128	122	95	68	72
08/26/2018	20	106	212	236	233	127	86	92
08/27/2018	20	112	188	112	123	131	85	91
08/28/2018	19	109	144	124	127	146	110	115
08/29/2018	19	110	176	120	127	115	79	84
08/30/2018	19	107	180	148	152	139	92	98
08/31/2018	21	139	176	140	144	115	75	80
AVG	22	126	182	127	135	126	76	83

PERMIT

SWWPCP - AUGUST 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
08/01/2018	111	193	121	17	86%
08/02/2018		161			
08/03/2018	110	180	118	11	91%
08/04/2018		132			
08/05/2018		179			
08/06/2018	86	182	98	10	90%
08/07/2018		187			
08/08/2018	79	168	90	4	96%
08/09/2018		159			
08/10/2018		151			
08/11/2018		130			
08/12/2018		131			
08/13/2018	104	117	106	11	90%
08/14/2018		82			
08/15/2018	63	103	69	13	81%
08/16/2018		165			
08/17/2018		143			
08/18/2018		103			
08/19/2018		162			
08/20/2018	64	120	73	13	82%
08/21/2018		136			
08/22/2018	98	136	104	13	87%
08/23/2018		133			
08/24/2018		195			
08/25/2018		110			
08/26/2018		131			
08/27/2018	98	169	108	19	82%
08/28/2018		157			
08/29/2018	91	120	95	16	83%
08/30/2018		157			
08/31/2018		131			
		158			
AVG	90	146	98	13	87%

DESIGN - 200 MGD

DATE	SWWPCP - AUGUST 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
08/01/2018	20	130	14	164	157	0.41
08/02/2018	21	117	12	150	307	0.08
08/03/2018	21	145	17	183	295	0.51
08/04/2018	21	129	13	163	171	0.10
08/05/2018	20	113	13	146	274	
08/06/2018	19	116	15	150	164	
08/07/2018	19	116	14	149	207	0.05
08/08/2018	19	118	13	150	200	0.02
08/09/2018	19	113	12	144	165	0.04
08/10/2018	18	111	12	141	399	
08/11/2018	25	160	22	207	372	0.79
08/12/2018	23	134	16	173	342	
08/13/2018	49	217	25	291	241	0.52
08/14/2018	27	162	14	203	193	0.73
08/15/2018	22	123	13	158	178	
08/16/2018	22	120	13	155	176	
08/17/2018	21	126	14	161	244	
08/18/2018	22	129	13	164	269	0.34
08/19/2018	30	158	23	211	381	0.34
08/20/2018	23	116	12	151	175	T
08/21/2018	22	124	11	157	243	0.02
08/22/2018	22	117	10	149	178	0.05
08/23/2018	21	111	11	143	163	
08/24/2018	20	110	13	143	162	
08/25/2018	20	107	12	139	168	
08/26/2018	20	106	12	138	173	
08/27/2018	20	112	11	143	165	
08/28/2018	19	109	13	141	166	
08/29/2018	19	110	13	142	163	
08/30/2018	19	107	13	139	168	
08/31/2018	21	139	12	172	266	0.11
TOTAL	684	3,905	431	5,020		4.11
AVG	22	126	14	162		
			MIN	138	157	
			MAX	291	399	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF AUGUST 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
08/01/2018	1.320	0.363	24.80	24.50	0.293
08/08/2018	1.290 <	0.100	23.90	20.10	0.192
08/15/2018	1.210 <	0.100	12.40	6.67	0.213
08/22/2018	1.460 <	0.100	11.90	12.30	0.138
08/27/2018	1.690	0.372	23.20	23.60	0.170
08/29/2018	1.120 <	0.250	27.70	23.50	0.216
08/31/2018	0.808	0.258	21.60	23.10	0.311
AVG	1.271	0.220	20.79	19.11	0.219
MAX	1.690 <	0.372	27.70	24.50	0.311

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
08/27/2018	< 0.005	< 0.050
08/29/2018	< 0.005	< 0.050
08/31/2018	< 0.005	< 0.050
AVG	< 0.005	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	08/08/2018	08/27/18	08/29/18	08/31/18	AVG
Copper	0.0060	0.0060	0.0060	0.0060	0.0060
Iron Dissolved	0.1240 <	0.0100 <	0.0100 <	0.0100 <	0.0385 <
Lead	< 0.0030 <	0.0030 <	0.0030 <	0.0030 <	0.0030
Nickel	0.0050	0.0050	0.0060	0.0050	0.0053
Selenium	< 0.0030 <	0.0030 <	0.0030 <	0.0030 <	0.0030 <
Zinc	< 0.0250 <	0.0250 <	0.0250 <	0.0250 <	0.0250 <

Organics Data (mg/L)

Southwest WPCP - Outfall

	08/26/2018	08/27/2018	08/28/2018	8/29/2018	8/31/2018	AVG
1,2-Dichloroethane	< 0.0005 <	0.0005 <	0.0005 <	0.0005 <		0.0005 <
Chloroform	0.0021	0.0017	0.0022		0.0019	0.0020
Tetrachloroethylene	< 0.0005 <	0.0005 <	0.0005 <		< 0.0005 <	0.0005 <
Trichloroethylene	< 0.0005 <	0.0005 <	0.0005 <		< 0.0005 <	0.0005 <

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
AUGUST 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD	DT	MGD	MGD	DT
08/01/2018		0.213	23.97	1.743	1.300	137.1
08/02/2018	0.887	0.374	37.96	1.375	1.394	171.1
08/03/2018		0.467	47.01	0.000	0.652	69.9
08/04/2018	0.868	0.744	83.40	0.833	0.779	94.5
08/05/2018		0.101	10.66	1.510	1.208	146.4
08/06/2018	0.869	0.561	74.04	1.878	2.097	224.8
08/07/2018	0.012	-	-	0.879	0.752	76.5
08/08/2018	1.332	1.676	188.32	0.213	0.331	39.0
08/09/2018				2.181	2.457	296.6
08/10/2018	0.849	0.789	80.74	1.571	1.123	132.3
08/11/2018		0.033	0.89	1.649	2.482	306.0
08/12/2018	0.912	0.755	99.64	1.116	0.330	42.4
08/13/2018	0.884	0.793	116.17	1.796	1.828	231.0
08/14/2018		0.276	33.45	0.179	0.317	35.7
08/15/2018	0.825	0.876	86.35	2.171	2.298	203.3
08/16/2018	0.869	0.833	116.31	1.292	1.168	142.8
08/17/2018		0.032	3.54	1.140	1.229	163.4
08/18/2018	0.707	0.382	47.97	1.328	1.181	135.6
08/19/2018	0.648	0.329	38.47	1.240	1.065	121.3
08/20/2018					0.313	36.5
08/21/2018	0.189	0.188	31.55	0.374	0.314	41.2
08/22/2018	0.604	0.457	79.96	0.743	0.575	68.7
08/23/2018	0.723	0.595	94.40	1.001	1.054	119.0
08/24/2018	1.529	2.169	327.11	1.109	1.058	114.1
08/25/2018	0.769	0.425	54.01	1.038	0.833	134.9
08/26/2018	0.561	0.887	108.00	1.650	1.751	231.5
08/27/2018	0.726	0.725	99.37	1.313	1.673	183.6
08/28/2018		0.303	37.70	1.297	0.699	76.0
08/29/2018	0.842	0.435	50.30	2.050	2.379	240.4
08/30/2018	0.891	1.032	197.77	1.279	1.348	176.0
08/31/2018						
TOTAL	16.497	16.449	2,169	35.944	35.985	4,192
AVERAGE	0.786	0.587	77	1.239	1.200	140

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report Date: NPW20180921-007
 Report Date: 09/21/2018

SW Daily Composite 1 & 2

WW180808-007

Composite 24h 08/08/2018 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/21/2018	11:00	8/24/2018	11:52	132	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90-110%.
-----	--

WW180808-010

Composite 24h 08/08/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/21/2018	11:00	8/24/2018	11:40	20.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90-110%.
-----	--

WW180815-007

Composite 24h 08/15/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/29/2018	11:30	8/31/2018	11:22	81.8	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW180815-010

Composite 24h 08/15/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/29/2018	11:30	8/31/2018	10:54	6.67	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
Title: Laboratory Manager
Date: 9/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report Date: NPW20180921-008
 Report Date: 09/21/2018

SW Daily Composite/BOD5

WW180808-008

Composite 24h 08/08/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/21/2018	11:00	8/24/2018	11:38	26.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90-110%.
-----	--

WW180808-009

Composite 24h 08/08/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/21/2018	11:00	8/24/2018	11:39	16	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90-110%.
-----	--

WW180815-008

Composite 24h 08/15/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/29/2018	11:30	8/31/2018	10:59	12.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW180815-009

Composite 24h 08/15/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	8/29/2018	11:30	8/31/2018	11:00	7.03	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by: 
Signature: _____

Name: John Consolvo
Title: Laboratory Manager
Date: 9/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report Date: NPW20180921-009
 Report Date: 09/21/2018

WW180812-005

Grab 08/12/2018 06:35

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			8/13/2018	7:41	7.4	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.546. The maximum acceptable PCV is 0.556. The measured results were 11.0 MPN/100mL and 3.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

WW180815-005

Grab 08/15/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			8/16/2018	7:52	<1	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.9191. The maximum acceptable PCV is 0.556. The measured results were 7.3 MPN/100mL and <1 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	---

WW180826-005

Grab 08/26/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			8/27/2018	7:40	4.1	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.6128. The maximum acceptable PCV is 0.556. The measured results were 4.1 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

WW180830-005

Grab 08/30/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			8/31/2018	8:01	28.5	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.6128. The maximum acceptable PCV is 0.556. The measured results were 4.1 MPN/100mL and 1.0 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
Signature: _____
Name: John Consolvo
Title: Laboratory Manager
Date: 9/21/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Composite

Report Date: NPW20180921-010
 Report Date: 09/21/2018

WW180831-019

Composite 24h 08/31/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
4-Nitrophenol ^{B,D}	EPA 625	9/5/2018	0:00	9/7/2018	8:45	<1.00 ^E	µg/L	1	µg/L
Aroclor 1016 ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	21:01	<0.50 ^E	µg/L	0.5	µg/L
Aroclor 1260 ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	21:01	<0.50 ^E	µg/L	0.5	µg/L
Benzidine ^{B,D}	EPA 625	9/5/2018	0:00	9/7/2018	8:45	<5.00 ^E	µg/L	0.5	µg/L
Toxaphene ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	20:00	<0.50 ^E	µg/L	0.5	µg/L

Data Qualifiers:

4-Nitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1016	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Toxaphene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 9/21/2018



Debra A. McCarty, Water Commissioner

October 29, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for September 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 09/01/2018-09/30/2018

Report Due Date: 10/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 119981

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for September 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - SEPTEMBER 2018 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM					CBOD5* %REM				
S 09/01/2018	138	169	4	98		4,604		104	3	97.12		3,453			
Su 09/02/2018	136	123	3	98		3,403		89	2	97.75		2,268			
M 09/03/2018	138	130	2	98		2,302		77	1	98.70		1,151		7	
T 09/04/2018	137	140	3	98		3,428		95	2	97.90		2,285			
W 09/05/2018	136	155	4	97		4,537		85	1	98.83		1,134		11	
Th 09/06/2018	140	175	3	98		3,503		110	2	98.18		2,335			
F 09/07/2018	230	179	3	98		5,755		122	2	98.37		3,836			
S 09/08/2018	277	137	22	84		50,824		80	4	95.02		9,241			
Su 09/09/2018	387	137	23	85	83	50,040	74,234	45	6	89.25	87	19,365			
M 09/10/2018	248	97	11	89		22,752		49	5	89.83		10,342		12	
T 09/11/2018	180	104	8	92		12,010		75	2	97.35		3,002			
W 09/12/2018	232	151	6	96		11,609		63	3	95.27		5,805		15 ***	
Th 09/13/2018	182	138	5	96		7,589		69 <	2	97.09		3,036			
F 09/14/2018	172	116	4	97		5,738		69 <	2	97.12		2,869			
S 09/15/2018	165	109	3	97		4,128		69 <	2	97.10		2,752			
Su 09/16/2018	161	106	4	96		5,371		88	2	97.72		2,685			
M 09/17/2018	169	169	5	97		7,047		89 <	2	97.75		2,819		5	
T 09/18/2018	201	196	3	98		5,029		97	3	96.90		5,029			
W 09/19/2018	169	124	4	97		5,638		53 <	2	96.21		2,819		17	
Th 09/20/2018	160	186	4	98		5,338		97 <	2	97.95		2,669			
F 09/21/2018	159	109	2	98		2,652		74 <	2	97.28		2,652			
S 09/22/2018	155	162	4	98		5,171		82	2	97.56		2,585			
Su 09/23/2018	246	130	2	98		4,100		82	2	97.55		4,100			
M 09/24/2018	170	149	4	97		5,671		62	2	96.76		2,836		18	
T 09/25/2018	240	149	3	98		6,005		62 <	2	96.77		4,003			
W 09/26/2018	222	243	6	98		11,109		46	2	95.63		3,703		25	
Th 09/27/2018	228	190	2	99		3,803		50 <	2	95.97		3,803			
F 09/28/2018	234	141	3	98		5,855		56 <	2	96.43		3,903			
S 09/29/2018	182	154	7	95		10,625		76 <	2	97.37		3,036			
Su 09/30/2018	176	122	4	97		5,871		62 <	2	96.77		2,936			

TOTAL	5,770	4,389	161					2,277	70					
AVERAGE	192	146	5	96		9,384		76	2	96.65		4,082		14

Wk1		141	11			21,346		81	3			7,037		
Wk2	183	141	4			6,645		78	2			3,571		
Wk3	186	144	3			4,939		73	2			3,095		
Wk4	208	170	4			7,453		58	2			3,476		

MAX 387

CBOD 20 LBS---- 22,033

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.
 *** THIS ANALYSIS WAS CONDUCTED WHILE THE LAB WAS UNDER ACCREDITATION SUSPENSION DUE TO FINANCIAL PAYM

PERMIT
SWWPCP - SEPTEMBER 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
S 09/01/2018	138	6.9	5.1	0.08	9
Su 09/02/2018	136	6.9	5.9	0.12	5
M 09/03/2018	138	6.9	4.5	0.13	4
T 09/04/2018	137	7.0	4.7	0.20	6
W 09/05/2018	136	6.9	4.7	0.15	9
Th 09/06/2018	140	7.1	4.9	0.16	1
F 09/07/2018	230	7.0	5.0	0.21	4
S 09/08/2018	277	6.9	5.9	0.10	411
Su 09/09/2018	387	6.9	5.9	0.20	27
M 09/10/2018	248	6.9	6.5	0.23	13
T 09/11/2018	180	7.0	5.9	0.25	5
W 09/12/2018	232	6.9	6.0	0.17	4
Th 09/13/2018	182	7.0	5.6	0.18	6
F 09/14/2018	172	6.9	5.9	0.07	8
S 09/15/2018	165	6.9	5.9	0.07	10
Su 09/16/2018	161	7.0	4.2	0.17	9
M 09/17/2018	169	6.9	4.8	0.15	5
T 09/18/2018	201	7.1	4.8	0.16	4
W 09/19/2018	169	7.1	4.7	0.14	7
Th 09/20/2018	160	7.1	4.9	0.19	3
F 09/21/2018	159	6.9	2.4	0.17	7
S 09/22/2018	155	7.0	5.0	0.17	3
Su 09/23/2018	246	6.9	4.9	0.16	1
M 09/24/2018	170	6.9	4.4	0.16	5
T 09/25/2018	240	6.9	4.7	0.12	4
W 09/26/2018	222	6.9	5.8	0.08	4
Th 09/27/2018	228	7.0	4.8	0.19	6
F 09/28/2018	234	6.9	6.0	0.18	22
S 09/29/2018	182	7.1	5.5	0.14	37
Su 09/30/2018	176	6.9	5.2	0.15	2
Total	5,770	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	192	6.9 7.1	2.4 5.2	0.16 0.25	7

Wk1
Wk2 183
Wk3 186
Wk4 208

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - SEPTEMBER 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
09/01/2018	19	106	172	168	169	149	97	104
09/02/2018	19	104	164	116	123	126	83	89
09/03/2018	20	106	140	128	130	122	69	77
09/04/2018	19	106	168	136	140	153	86	95
09/05/2018	19	106	172	152	155	123	79	85
09/06/2018	20	108	196	172	175	170	100	110
09/07/2018	27	172	172	180	179	156	118	122
09/08/2018	36	211	196	128	137	136	72	80
09/09/2018	57	283	192	128	137	73	40	45
09/10/2018	35	192	152	88	97	50	49	49
09/11/2018	26	140	152	96	104	84	74	75
09/12/2018	29	188	140	152	151	80	61	63
09/13/2018	26	144	176	132	138	97	64	69
09/14/2018	24	134	140	112	116	84	67	69
09/15/2018	24	127	136	104	109	98	64	69
09/16/2018	23	126	168	96	106	115	83	88
09/17/2018	23	132	176	168	169	132	82	89
09/18/2018	25	160	164	200	196	130	92	97
09/19/2018	23	132	172	116	124	89	47	53
09/20/2018	21	126	172	188	186	113	95	97
09/21/2018	20	126	172	100	109	105	69	74
09/22/2018	22	120	176	160	162	124	75	82
09/23/2018	27	197	148	128	130	104	79	82
09/24/2018	24	132	228	136	149	115	53	62
09/25/2018	32	184	152	148	149	101	56	62
09/26/2018	29	175	236	244	243	71	42	46
09/27/2018	34	171	132	200	190	70	46	50
09/28/2018	33	181	148	140	141	68	54	56
09/29/2018	26	142	192	148	154	113	70	76
09/30/2018	25	137	156	116	122	74	60	62
AVG	26	149	169	143	146	108	71	76

PERMIT

SWWPCP - SEPTEMBER 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
09/01/2018		158			
09/02/2018		129			
09/03/2018	78	131	86	14	84%
09/04/2018		190			
09/05/2018	102	148	108	16	85%
09/06/2018		180			
09/07/2018		175			
09/08/2018		144			
09/09/2018		75			
09/10/2018	68	60	67	10	85%
09/11/2018		98			
09/12/2018	65	93	69	19	72%
09/13/2018		107			
09/14/2018		99			
09/15/2018		109			
09/16/2018		126			
09/17/2018	91	143	98	16	84%
09/18/2018		142			
09/19/2018	60	100	65	16	76%
09/20/2018		123			
09/21/2018		122			
09/22/2018		136			
09/23/2018		148			
09/24/2018	80	127	87	15	83%
09/25/2018		112			
09/26/2018	44	74	48	14	71%
09/27/2018		78			
09/28/2018		79			
09/29/2018		123			
09/30/2018		84			
AVG	74	120	78	15	80%

DESIGN - 200 MGD

DATE	SWWPCP - SEPTEMBER 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
09/01/2018	19	106	13	138	161	0.08
09/02/2018	19	104	13	136	157	T
09/03/2018	20	106	12	138	174	
09/04/2018	19	106	12	137	168	
09/05/2018	19	106	11	136	169	
09/06/2018	20	108	12	140	197	0.01
09/07/2018	27	172	31	230	407	4.54
09/08/2018	36	211	30	277	434	0.63
09/09/2018	57	283	47	387	482	1.84
09/10/2018	35	192	21	248	354	0.23
09/11/2018	26	140	14	180	218	T
09/12/2018	29	188	15	232	396	T
09/13/2018	26	144	12	182	213	T
09/14/2018	24	134	14	172	216	
09/15/2018	24	127	14	165	192	
09/16/2018	23	126	12	161	191	
09/17/2018	23	132	14	169	263	0.01
09/18/2018	25	160	16	201	331	0.26
09/19/2018	23	132	14	169	203	
09/20/2018	21	126	13	160	202	
09/21/2018	20	126	13	159	186	
09/22/2018	22	120	13	155	185	0.01
09/23/2018	27	197	22	246	352	0.70
09/24/2018	24	132	14	170	247	0.05
09/25/2018	32	184	24	240	399	0.36
09/26/2018	29	175	18	222	355	0.14
09/27/2018	34	171	23	228	453	0.02
09/28/2018	33	181	20	234	451	0.88
09/29/2018	26	142	14	182	211	
09/30/2018	25	137	14	176	215	
TOTAL	787	4,468	515	5,770		9.76
AVG	26	149	17	192		
			MIN	136	157	
			MAX	387	482	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
09/05/2018	1.250 <	1.000	18.60	17.00	0.168
09/11/2018	1.260	0.384	15.40	14.00	0.291
09/18/2018	0.786	0.333	16.00	14.40	0.309
09/25/2018	1.350	0.541	12.90	14.90	0.238
AVG	1.162	0.565	15.73	15.08	0.252
MAX	1.350	1.000	18.60	17.00	0.309

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
09/06/2018	0.016	
09/19/2018		< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	09/05/2018
Copper	0.0060
Iron Dissolved	0.1080
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	09/05/2018	09/19/2018	AVG
1,2-Dichloroethane	< 0.0005	< 0.0005	< 0.0005
Chloroform	0.0038	0.0040	0.0039
Tetrachloroethylene	< 0.0005	< 0.0005	< 0.0005
Trichloroethylene	< 0.0005	< 0.0005	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
SEPTEMBER 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD		MGD	MGD	
09/01/2018	0.860	1.072	137.98	1.420	1.577	192.3
09/02/2018	-	0.046	4.93	1.720	1.539	182.1
09/03/2018	1.330	1.008	113.54	1.210	1.215	125.3
09/04/2018	0.340	0.264	32.32	0.000	0.000	
09/05/2018	0.860	0.718	104.43	1.970	2.255	214.2
09/06/2018	0.850	0.644	96.34	1.230	1.495	142.2
09/07/2018	-	0.690	106.93	1.090	0.994	91.3
09/08/2018	0.850	0.084	11.31	2.030	1.754	202.1
09/09/2018	-	0.774	119.12	0.890	0.586	73.7
09/10/2018	0.840	0.097	11.49	1.320	1.639	202.6
09/11/2018	0.820	1.046	139.33	0.210	0.102	9.2
09/12/2018	0.820	0.598	59.86	1.180	1.071	119.2
09/13/2018	0.820	0.871	129.67	0.270	0.178	20.7
09/14/2018	0.790	0.907	135.31	1.680	1.774	204.8
09/15/2018	0.830	1.020	152.46	0.890	0.717	74.6
09/16/2018	-			1.070	1.254	131.7
09/17/2018	0.820	1.131	157.86	0.880	1.000	123.4
09/18/2018	0.830	0.721	111.15	1.640	1.276	128.9
09/19/2018	0.820	0.140	15.62	1.550	2.115	246.0
09/20/2018	-	0.101	6.64	1.590	1.090	131.7
09/21/2018	0.810	0.738	89.64	1.280	1.489	175.2
09/22/2018	1.260	1.724	284.34	1.380	1.063	118.5
09/23/2018	1.220	1.370	207.06	1.330	1.497	187.4
09/24/2018	0.510	0.303	45.00	1.580	1.554	182.7
09/25/2018	1.130	1.259	160.37	1.400	1.367	159.6
09/26/2018	0.840	0.474	47.39	1.500	1.779	244.9
09/27/2018	0.830	0.928	125.10	1.270	1.544	171.7
09/28/2018	0.840	1.277	216.18	1.040	0.632	55.4
09/29/2018	0.810	0.831	109.15	1.260	1.495	184.0
09/30/2018	0.820	0.864	123.15	1.290	1.471	189.2
TOTAL	21.550	21.701	3,054	37.170	37.521	4,285
AVERAGE	0.718	0.748	105	1.239	1.251	148



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **09/01/2018**
 DMR Effective To: **09/30/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	09	01	TO	2018	09	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	2.4	5.2	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	9384	21346	lbs/day	***	5	11	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	15.73	18.60	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	1.162	1.350	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	565	1.000	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	15.08	17.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	252	309	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0039	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0060	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.1080	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0250	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	192	387	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	16	.25	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	.5 Avg Mo		1.0 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.016	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	7	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4082	7037	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	22033	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2018
 DMR Effective To: 09/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	09	01	TO	2018	09	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform (74055)	Sample Measurement	---	---		---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 09/01/2018
 DMR Effective To: 09/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	09	01	TO	2018	09	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.65	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	96	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
201809SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-10-26T15:11:26-04:00	
SW Daily Composite (10-24-2018).pdf	Laboratory Accreditation Form	2018-10-26T15:12:37-04:00	
BLSSW201809.xls	Nutrient Monitoring Form	2018-10-26T15:10:20-04:00	
SW Outfall Monthly Grab (10-24-2018).pdf	Laboratory Accreditation Form	2018-10-26T15:13:19-04:00	
SWCSO 201809.xls	CSO Detailed Outfall Report Form	2018-10-26T15:10:47-04:00	
E-NPDES SW-201809.xls	Daily Effluent Monitoring Form	2018-10-26T15:09:28-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the ninth of the month and was used in compliance reporting. The CBOD20 sample that was collected on the 12th of the month was analyzed while the lab was under accreditation suspension due to a late financial payment. The lab has met all other accreditation requirements and the payment was submitted. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	10	26
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20181024-003
 Report Date: 10/24/2018

SW Daily Composite

WW180905-007

Composite 24h 09/05/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	9/19/2018	12:30	9/24/2018	11:46	110	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 85%. Acceptance limits are 90-110%.
-----	---

WW180905-008

Composite 24h 09/05/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	9/19/2018	12:30	9/24/2018	11:21	25.8	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 118%. Acceptance limits are 90-110%.
-----	--

WW180905-009

Composite 24h 09/05/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	9/19/2018	12:30	9/24/2018	11:23	18.3	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 118%. Acceptance limits are 90-110%.
-----	--

WW180905-010

Composite 24h 09/05/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	9/19/2018	12:30	9/24/2018	11:24	17	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 118%. Acceptance limits are 90-110%.
-----	--

WW180912-010

Composite 24h 09/12/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
CBOD20	SM 5210 B	9/12/2018	15:55	10/2/2018	11:25	NR	mg/L	2	mg/L

Data Qualifiers:

CBOD20	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.
--------	---

WW180919-010

Composite 24h 09/19/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Phenols ^{B,D}	EPA 420.1	10/16/2018	0:00	10/17/2018	17:11	<0.050 ^F	mg/L	0.050	mg/L

Data Qualifiers:

Phenols	Sample properly preserved but submitted in incorrect bottle type.
---------	---

WW180926-007

Composite 24h 09/26/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/5/2018	11:15	10/10/2018	12:07	89.4	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 35%. Acceptance limits are 90-110%.
-----	---

WW180926-008

Composite 24h 09/26/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/5/2018	11:15	10/10/2018	12:12	20.8	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.
-----	---

WW180926-009

Composite 24h 09/26/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/5/2018	11:15	10/10/2018	12:14	19.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.
-----	---

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/5/2018	11:15	10/10/2018	12:15	14.9	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 

Signature: _____

Name: John Consolvo
 Title: Laboratory Manager
 Date: 10/24/2018

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20181024-004
 Report Date: 10/24/2018

SW Outfall Monthly Grab

Grab 09/04/2018 06:30

WW180904-012

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane ^{B,D}	EPA 624			9/6/2018	17:08	<0.5 ^E	µg/L	0.5	µg/L
Chloroform ^{B,D}	EPA 624			9/6/2018	17:08	3.80 ^E	µg/L	0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			9/6/2018	17:08	<0.5 ^E	µg/L	0.5	µg/L
Trichloroethene ^{B,D}	EPA 624			9/6/2018	17:08	<0.5 ^E	µg/L	0.5	µg/L

Data Qualifiers:

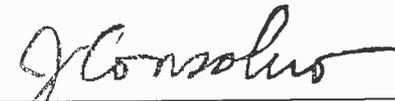
1,2-Dichloroethane	The surrogate associated with this sample was below established acceptance criteria. Data may be biased low.
Chloroform	The surrogate associated with this sample was below established acceptance criteria. Data may be biased low.
Tetrachloroethene	The surrogate associated with this sample was below established acceptance criteria. Data may be biased low.
Trichloroethene	The surrogate associated with this sample was below established acceptance criteria. Data may be biased low.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo
 Title: Laboratory Manager
 Date: 10/24/2018



Debra A. McCarty, Water Commissioner

October 29, 2018

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period of July 2018 to September 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 07/01/2018-09/30/2018

Report Due Date: 10/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 119400

Submission Status: Received

Submission Type: Original

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

8/31/2018

Toxicity, Ceriodaphnia acute	2
Toxicity, Ceriodaphnia chronic	2.6
Toxicity, Pimphales acute	2
Toxicity, Pimphales chronic	1.3



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 07/01/2018
 DMR Effective To: 09/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2018	07	01	TO	2018	09	30

FROM

TO

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival (61425)	Sample Measurement	***	***	***	***	***	2	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Chronic - Ceriodaphnia Survival (61426)	Sample Measurement	***	***	***	***	***	2.6	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Acute - Pimephales Survival (61427)	Sample Measurement	***	***	***	***	***	2	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Chlordane (51032)	Sample Measurement	***	***	***	***	<.0005000	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
alpha-Endosulfan (34361)	Sample Measurement	***	***	***	***	<.0001800	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
Benzidine (39120)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	3/quarter	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	Grab
4,4-DDT (39300)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
4,4-DDD (39310)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
4,4-DDE (39320)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
beta-BHC (39338)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
gamma-BHC (Lindane) (39344)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
Dieldrin (39380)	Sample Measurement	***	***	***	***	.0001800	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
Heptachlor (39410)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		1/quarter	24-Hr Composite
Toxicity, Chronic - Pimephales Survival (61428)	Sample Measurement	***	***	***	***	***	1.3	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
BLSSW201808.xls	WET Test Summary Report	2018-10-25T13:41:32-04:00	
SW WET Testing Composite (09-21-2018).pdf	Laboratory Accreditation Form	2018-10-25T13:42:27-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	10	25
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW WET Testing Composite

Report Date: NPW20180921-010
 Report Date: 09/21/2018

WW180831-019

Composite 24h 08/31/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
4-Nitrophenol ^{B,D}	EPA 625	9/5/2018	0:00	9/7/2018	8:45	<1.00 ^E	µg/L	1	µg/L
Aroclor 1016 ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	21:01	<0.50 ^E	µg/L	0.5	µg/L
Aroclor 1260 ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	21:01	<0.50 ^E	µg/L	0.5	µg/L
Benzidine ^{B,D}	EPA 625	9/5/2018	0:00	9/7/2018	8:45	<5.00 ^E	µg/L	0.5	µg/L
Toxaphene ^{B,D}	EPA 608	9/4/2018	0:00	9/4/2018	20:00	<0.50 ^E	µg/L	0.5	µg/L

Data Qualifiers:

4-Nitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1016	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Aroclor 1260	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Toxaphene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: John Consolvo
 Title: Laboratory Manager
 Date: 9/21/2018



Debra A. McCarty, Water Commissioner

November 29, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for October 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 10/01/2018-10/31/2018

Report Due Date: 11/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 123971

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for October 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - OCTOBER 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Su	09/30/2018	176	122	4	97	5,871		62	<	2	96.77	2,936		
M	10/01/2018	174	129	4	97	5,805		49	<	2	95.89	2,902		8
T	10/02/2018	181	168	4	98	6,038		52	<	2	96.16	3,019		
W	10/03/2018	172	197	4	98	5,738		51		2	96.11	2,869		11
Th	10/04/2018	184	159	4	97	6,138		64	<	2	96.89	3,069		
F	10/05/2018	164	261	5	98	6,839		74	<	2	97.31	2,736		9
S	10/06/2018	164	156	4	97	5,471		66	<	2	96.99	2,736		
Su	10/07/2018	161	132	4	97	5,371		81		2	97.54	2,685		
M	10/08/2018	163	147	4	97	5,438		86		2	97.68	2,719		9
T	10/09/2018	163	129	3	98	4,078		90		2	97.78	2,719		
W	10/10/2018	159	112	7	94	9,282		89		2	97.76	2,652		15
Th	10/11/2018	271	153	4	97	9,041		101		2	98.02	4,520		
F	10/12/2018	193	178	7	96	11,267		70		3	95.72	4,829		
S	10/13/2018	167	149	3	98	4,178		97	<	2	97.94	2,786		
Su	10/14/2018	159	115	2	98	2,652		71	<	2	97.19	2,652		
M	10/15/2018	164	139	3	98	4,103		76		2	97.35	2,736		8
T	10/16/2018	154	157	2	99	2,569		88		2	97.74	2,569		
W	10/17/2018	149	153	4	97	4,971		90	<	2	97.78	2,485		18
Th	10/18/2018	144	168	4	98	4,804		99		2	97.97	2,402		
F	10/19/2018	152	127	3	98	3,803		98		2	97.95	2,535		
S	10/20/2018	154	106	2	98	2,569		89		2	97.74	2,569		
Su	10/21/2018	150	143	2	99	2,502		105		2	98.09	2,502		
M	10/22/2018	148	133	4	97	4,937		103		3	97.08	3,703		13
T	10/23/2018	146	159	3	98	3,653		76		2	97.37	2,435		
W	10/24/2018	144	128	3	98	3,603		111		2	98.20	2,402		17
Th	10/25/2018	144	168	4	98	4,804		94		4	95.75	4,804		
F	10/26/2018	198	137	3	98	4,954		93		2	97.85	3,303		
S	10/27/2018	254	153	3	98	6,355		113		3	97.36	6,355		
Su	10/28/2018	163	121	6	95	8,157		73		3	95.91	4,078		
M	10/29/2018	152	270	3	99	3,803		82	<	2	97.55	2,535		7
T	10/30/2018	149	154	3	98	3,728		103	<	2	98.06	2,485		
W	10/31/2018	148	178	3	98	3,703		110	<	2	98.17	2,469		20

TOTAL	5,188	4,781	114					2,645		68				
AVERAGE	167	154	4	98		5,173		85		2	97.32	3,073		12

Wk1	174	170	4			5,986		60		2		2,895		
Wk2	182	143	5			6,951		88		2		3,273		
Wk3	154	138	3			3,639		87		2		2,564		
Wk4	168	143	4			4,871		96		3		3,698		

MAX 271

CBOD 20 LBS---- 15,955

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
 LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - OCTOBER 2018
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
M 10/01/2018	174	7.0	6.4	0.18	22 ****
T 10/02/2018	181	6.9	5.4	< 0.05	10 ****
W 10/03/2018	172	6.9	6.1	0.11	< 1 ****
Th 10/04/2018	184	6.9	6.7	0.22	18
F 10/05/2018	164	7.0	6.7	0.20	5
S 10/06/2018	164	7.0	6.1	0.12	7
Su 10/07/2018	161	7.0	6.1	< 0.05	4
M 10/08/2018	163	7.0	5.6	0.26	4
T 10/09/2018	163	6.9	5.6	0.12	4
W 10/10/2018	159	6.9	6.0	0.15	5
Th 10/11/2018	271	6.9	5.8	0.15	3
F 10/12/2018	193	7.1	5.5	0.27	5
S 10/13/2018	167	6.9	6.2	0.06	8
Su 10/14/2018	159	6.9	5.8	0.06	2
M 10/15/2018	164	6.9	5.5	0.17	1
T 10/16/2018	154	6.9	4.3	0.16	2
W 10/17/2018	149	7.0	4.8	0.06	2
Th 10/18/2018	144	7.0	4.9	0.25	35
F 10/19/2018	152	6.9	5.2	0.20	13
S 10/20/2018	154	7.0	4.5	0.28	5
Su 10/21/2018	150	7.0	4.7	0.25	12
M 10/22/2018	148	6.9	4.5	0.20	11
T 10/23/2018	146	7.0	4.0	0.17	7
W 10/24/2018	144	6.9	4.7	0.15	225
Th 10/25/2018	144	7.1	5.0	0.14	13
F 10/26/2018	198	7.0	4.7	0.12	12
S 10/27/2018	254	7.0	6.7	0.24	26
Su 10/28/2018	163	7.0	6.1	0.21	2
M 10/29/2018	152	7.1	5.4	0.12	1
T 10/30/2018	149	7.0	4.5	0.16	15
W 10/31/2018	148	6.9	4.3	0.23	3
Total	5,188	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	167	6.9 7.1	4.0 5.4	0.16 0.28	6

Wk1 174
Wk2 182
Wk3 154
Wk4 168

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

**** THIS FECAL COLIFORM ANALYSIS WAS CONDUCTED WHILE THE LAB WAS UNDER ACCREDITATION SUSPENSION DUE TO FINANCIAL PAYMENT

PERMIT

SWWPCP - OCTOBER 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
10/01/2018	24	137	160	124	129	90	42	49
10/02/2018	25	142	196	164	168	84	47	52
10/03/2018	24	135	176	200	197	79	47	51
10/04/2018	24	144	128	164	159	93	60	64
10/05/2018	23	128	144	280	261	114	68	74
10/06/2018	23	128	184	152	156	93	62	66
10/07/2018	23	125	180	124	132	126	74	81
10/08/2018	22	129	192	140	147	152	76	86
10/09/2018	22	128	212	116	129	122	85	90
10/10/2018	22	125	164	104	112	121	84	89
10/11/2018	31	215	160	152	153	156	94	101
10/12/2018	27	150	236	168	178	120	62	70
10/13/2018	24	129	156	148	149	96	97	97
10/14/2018	23	122	136	112	115	107	65	71
10/15/2018	23	130	132	140	139	122	68	76
10/16/2018	23	119	188	152	157	119	83	88
10/17/2018	22	115	156	152	153	103	88	90
10/18/2018	21	114	168	168	168	172	86	99
10/19/2018	22	117	124	128	127	114	95	98
10/20/2018	22	119	140	100	106	128	82	89
10/21/2018	22	114	160	140	143	131	100	105
10/22/2018	21	113	164	128	133	138	97	103
10/23/2018	20	113	180	156	159	102	72	76
10/24/2018	21	110	172	120	128	131	108	111
10/25/2018	20	111	196	164	168	126	89	94
10/26/2018	25	153	172	132	137	135	87	93
10/27/2018	34	197	188	148	153	162	106	113
10/28/2018	25	125	172	112	121	119	65	73
10/29/2018	22	118	140	292	270	133	73	82
10/30/2018	22	116	188	148	154	131	98	103
10/31/2018	21	115	168	180	178	131	106	110
AVG	23	130	169	152	154	121	80	85

PERMIT

SWWPCP - OCTOBER 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
10/01/2018	52	100	59	8	86%
10/02/2018		88			
10/03/2018	60	94	65	14	78%
10/04/2018		103			
10/05/2018		124			
10/06/2018		105			
10/07/2018		136			
10/08/2018	89	168	100	19	81%
10/09/2018		155			
10/10/2018	93	131	98	18	82%
10/11/2018		165			
10/12/2018		121			
10/13/2018		105			
10/14/2018		115			
10/15/2018	76	165	88	15	83%
10/16/2018		139			
10/17/2018	93	122	97	21	78%
10/18/2018		182			
10/19/2018		193			
10/20/2018		137			
10/21/2018		146			
10/22/2018	130	166	135	17	87%
10/23/2018		107			
10/24/2018	118	148	122	23	81%
10/25/2018		135			
10/26/2018		143			
10/27/2018		173			
10/28/2018		126			
10/29/2018	102	147	109	14	87%
10/30/2018		171			
10/31/2018	141	145	142 <	2	99%
AVG	95	137	101	15	84%

DESIGN - 200 MGD

DATE	SWWPCP - OCTOBER 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
10/01/2018	24	137	13	174	208	
10/02/2018	25	142	14	181	343	0.34
10/03/2018	24	135	13	172	298	0.01
10/04/2018	24	144	16	184	314	0.18
10/05/2018	23	128	13	164	205	T
10/06/2018	23	128	13	164	193	T
10/07/2018	23	125	13	161	194	T
10/08/2018	22	129	12	163	192	0.03
10/09/2018	22	128	13	163	189	T
10/10/2018	22	125	12	159	186	
10/11/2018	31	215	25	271	423	0.73
10/12/2018	27	150	16	193	337	0.36
10/13/2018	24	129	14	167	196	0.07
10/14/2018	23	122	14	159	187	T
10/15/2018	23	130	11	164	257	0.10
10/16/2018	23	119	12	154	183	T
10/17/2018	22	115	12	149	172	
10/18/2018	21	114	9	144	167	
10/19/2018	22	117	13	152	169	
10/20/2018	22	119	13	154	225	0.07
10/21/2018	22	114	14	150	176	T
10/22/2018	21	113	14	148	175	
10/23/2018	20	113	13	146	169	
10/24/2018	21	110	13	144	165	
10/25/2018	20	111	13	144	169	
10/26/2018	25	153	20	198	407	0.31
10/27/2018	34	197	23	254	411	0.87
10/28/2018	25	125	13	163	190	T
10/29/2018	22	118	12	152	178	0.01
10/30/2018	22	116	11	149	178	
10/31/2018	21	115	12	148	208	
TOTAL	723	4,036	429	5,188		3.08
AVG	23	130	14	167		
			MIN	144	165	
			MAX	271	423	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF OCTOBER 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N		NO3 - N	NH3 - N	TKN	P
10/03/2018	1.970	<	1.000	12.50	14.50	0.200
10/10/2018	1.610		0.509	18.20	14.30	0.277
10/17/2018	1.630		0.546	20.90	18.70	0.220
10/24/2018	1.530		0.597	21.60	23.80	0.251
10/31/2018	1.080		0.519	19.40	20.00	0.248
AVG	1.564		0.634	18.52	18.26	0.239
MAX	1.970	<	1.000	21.60	23.80	0.277

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
10/17/2018	0.009	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	10/17/2018
Copper	0.0060
Iron Dissolved	0.0710
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	10/16/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0052
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2018
 DMR Effective To: 10/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	10	01	TO	2018	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			SAMPLING FREQUENCY	SAMPLING TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE			UNITS
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.0	5.4	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	5173	8951	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	18.52	21.60	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	1.564	1.970	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	634	<1.000	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	18.26	23.80	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	239	277	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0052	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0060	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0710	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0250	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	167	271	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	16	.28	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		1.0 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.009	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	6	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	3073	3698	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	15955	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2018
 DMR Effective To: 10/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	10	01	TO	2018	10	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2018
 DMR Effective To: 10/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	10	01	TO	2018	10	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.32	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	98	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW Daily Grab (11-21-2018).PDF	Laboratory Accreditation Form	2018-11-28T08:14:03-05:00	
E-NPDES SW-201810.xls	Daily Effluent Monitoring Form	2018-11-28T08:11:19-05:00	
BLSSW201810.xls	Nutrient Monitoring Form	2018-11-28T08:11:48-05:00	
SWCSO 201810.xls	CSO Detailed Outfall Report Form	2018-11-28T08:12:25-05:00	
October 2018_NPDES Fecal Coliforms Results_Non accredited lab.pdf	Other	2018-11-28T08:15:42-05:00	Letter explaining Lab accreditation suspension for 10/1 - 10/3
201810SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-11-28T08:13:00-05:00	
SW Daily Composite (11-21-2018).PDF	Laboratory Accreditation Form	2018-11-28T08:13:35-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. The fecal coliform samples that were collected on the first 3 days of the month were analyzed while the lab was under accreditation suspension due to the renewal fee not being received in time. Please see attached letter. The analysis was accredited. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	11	28
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

File Name: 201810SL
 Print Date: 11/26/2018

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
OCTOBER 2018	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD		MGD	MGD	
10/01/2018	0.832	0.924	133.42	1.231	1.231	198.3
10/02/2018	-			1.351	0.880	144.0
10/03/2018	0.807	0.505	66.20	1.443	1.419	190.1
10/04/2018	-	0.210	28.25	1.425	1.643	152.2
10/05/2018	-			1.297	1.573	170.6
10/06/2018	0.919	0.956	122.52	1.762	1.825	197.9
10/07/2018	0.859	0.762	104.30	1.307	1.501	175.4
10/08/2018	0.842	0.536	73.64	0.618	0.158	19.3
10/09/2018	0.838	0.375	43.87	1.455	1.519	175.6
10/10/2018	-	0.640	70.54	0.978	1.191	138.7
10/11/2018	0.866	0.697	95.43	1.248	0.651	83.6
10/12/2018	0.861	0.941	135.92	1.310	1.097	132.7
10/13/2018	0.857	0.581	61.62	0.710	1.400	150.7
10/14/2018	0.851	0.851	88.41	1.261	1.215	129.8
10/15/2018	0.866	0.682	80.58	0.514	0.146	23.7
10/16/2018	0.829	1.286	164.77	0.000	0.423	55.4
10/17/2018	-			1.029	0.564	61.0
10/18/2018	0.820	0.271	39.66	0.502	0.912	103.1
10/19/2018	-			0.914	0.362	43.7
10/20/2018	0.961	0.954	126.92	1.684	1.812	226.1
10/21/2018	0.714	1.380	183.71	1.117	1.454	186.3
10/22/2018	0.819	0.988	125.30	1.152	1.148	146.0
10/23/2018	0.840	0.794	93.38	1.283	1.005	118.7
10/24/2018	0.886	0.702	88.82	1.251	1.343	152.5
10/25/2018	0.834	0.950	127.30	0.996	0.899	114.4
10/26/2018	0.606	-		1.350	1.190	123.2
10/27/2018	1.166	1.058	96.67	1.158	1.461	137.2
10/28/2018	-			1.409	1.179	143.1
10/29/2018	0.880	0.880	110.93	0.553	0.829	121.3
10/30/2018	0.893	1.301	166.11	1.010	1.025	109.1
10/31/2018	0.902	0.476	59.05	0.659	0.576	72.1
TOTAL	20.548	19.700	2,487	33.977	33.631	3,996
AVERAGE	0.856	0.788	99	1.096	1.085	129

SW Daily Composite

Report: NPW20181121-005
 Report Date: 11/21/2018

WW181003-007

Composite 24h 10/03/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/3/2018	17:19	1.55	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/3/2018	17:19	0.230	mg/L as N	0.050	mg/L as N
TKN	SM 4500 Norg D	10/17/2018	12:08	10/19/2018	15:31	51.8	mg/L as N	1.0	mg/L as N

Data Qualifiers:

Nitrate	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.								
Nitrite	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.								
TKN	Laboratory Fortified Matrix (LFM) recovery is 150%. Acceptance limits are 90-110%.								

WW181003-008

Composite 24h 10/03/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/3/2018	18:16	<0.250	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/3/2018	18:16	<0.050	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.								
Nitrite	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.								

WW181003-009

Composite 24h 10/03/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/3/2018	19:12	<0.250	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/3/2018	19:12	0.081	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.								
---------	---	--	--	--	--	--	--	--	--

Nitrite	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.
---------	---

WW181010-008

Composite 24h 10/10/2018 06:10

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/29/2018	12:57	10/31/2018	12:42	28.5	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 114%. Acceptance limits are 90-110%.
-----	--

WW181010-009

Composite 24h 10/10/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/29/2018	12:57	10/31/2018	12:16	18.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 114%. Acceptance limits are 90-110%.
-----	--

WW181010-010

Composite 24h 10/10/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/29/2018	12:57	10/31/2018	12:18	14.3	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 114%. Acceptance limits are 90-110%.
-----	--

WW181017-007

Composite 24h 10/17/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/7/2018	11:32	203	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 83%. Acceptance limits are 90-110%.
-----	---

WW181017-008

Composite 24h 10/17/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/7/2018	11:37	25.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 77%. Acceptance limits are 90-110%.
-----	---

WW181017-009

Composite 24h 10/17/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
-----------	-------------------	-------------------------	-------------------------	----------------------	----------------------	-----------------	-------	--------------------	-------

TKN	SM 4500 Norg D	10/17/2018	12:08	11/7/2018	11:39	16.9	mg/L as N	1.0	mg/L as N
-----	----------------	------------	-------	-----------	-------	------	-----------	-----	-----------

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 77%. Acceptance limits are 90-110%.
-----	---

WW181017-010

Composite 24h 10/17/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/7/2018	11:15	18.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 77%. Acceptance limits are 90-110%.
-----	---

WW181024-007

Composite 24h 10/24/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/26/2018	18:03	0.447	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/26/2018	18:03	0.161	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 58 hours from sample collection.
Nitrite	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 58 hours from sample collection.

WW181024-008

Composite 24h 10/24/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/26/2018	18:32	<0.250	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/26/2018	18:32	0.062	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 60 hours from sample collection.
Nitrite	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 60 hours from sample collection.

WW181024-009

Composite 24h 10/24/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/26/2018	19:00	<0.250	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/26/2018	19:00	0.221	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 61 hours from sample collection.
Nitrite	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 61 hours from sample collection.

WW181024-010

Composite 24h 10/24/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			10/26/2018	19:28	0.597	mg/L as N	0.250	mg/L as N
Nitrite	EPA 300.0 rev 2.1			10/26/2018	19:28	1.53	mg/L as N	0.050	mg/L as N

Data Qualifiers:

Nitrate	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 61 hours from sample collection.
Nitrite	The holding time was exceeded. The sample holding time is 48 hours. Sample analysis began at 61 hours from sample collection.

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name:

Gary Burlingame

Title:

Laboratory Director

Date:

11/21/2018

SW Daily Grab

Report: NPW20181121-006
 Report Date: 11/21/2018

WW181001-005

Grab 10/01/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	NA			1/1/2000	0:00	NR	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.
---	---

WW181002-005

Grab 10/02/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	NA			1/1/2000	0:00	NR	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.
---	---

WW181003-005

Grab 10/03/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	NA			1/1/2000	0:00	NR	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	BLS was not an accredited laboratory at the time of this analysis. Unless otherwise noted here, all analytical quality control measures were evaluated to be acceptable; the result may be used for informational or research purposes, but may not be reported to the PA DEP or EPA under any regulatory monitoring program, including Safe Drinking Water Act or Clean Water Act.
---	---

WW181026-005

Grab 10/26/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			10/27/2018	7:34	12.0	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.7076. The maximum acceptable PCV is 0.577. The measured results were 4.1 MPN/100mL and <1 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	---

WW181028-005

Grab 10/28/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
-----------	-------------------	-------------------------	-------------------------	----------------------	----------------------	-----------------	-------	--------------------	-------

Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantit			10/29/2018	7:36	2.0	MPN/100 mL	1	MPN/100 mL
---	----------------------	--	--	------------	------	-----	------------	---	------------

Data Qualifiers:

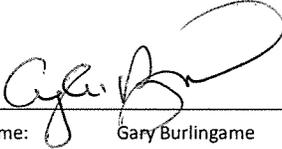
Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.6128. The maximum acceptable PCV is 0.577. The measured results were 4.1 MPN/100mL and 1.0 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


 Name: Gary Burlingame
 Title: Laboratory Director
 Date: 11/21/2018



Debra A. McCarty, Water Commissioner

December 28, 2018

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for November 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 11/01/2018-11/30/2018

Report Due Date: 12/28/2018

Submitted By: Mary Ellen Senss

Submission Id: 128113

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for November 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - NOVEMBER 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Th	11/01/2018	150	130	3	98	3,753		101	3	97.02		3,753		
F	11/02/2018	209	118	2	98	3,486		94	2	97.88		3,486		
S	11/03/2018	202	190	4	98	6,739		107	6	94.41		10,108		
Su	11/04/2018	157	122	4	97	5,238		84	4	95.22		5,238		
M	11/05/2018	239	134	4	97	7,973		91	2	97.81		3,987		12
T	11/06/2018	278	133	4	97	9,274		70	2	97.13		4,637		
W	11/07/2018	178	121	5	96	7,423		61	3	95.12		4,454		14
Th	11/08/2018	152	142	4	97	5,071		66	<	2	96.96	2,535		
F	11/09/2018	251	178	4	98	8,373		71	2	97.17		4,187		
S	11/10/2018	178	142	5	96	7,423		85	2	97.65		2,969		
Su	11/11/2018	169	127	4	97	5,638		67	2	97.00		2,819		
M	11/12/2018	228	80	2	98	3,803		92	3	96.72		5,705		8
T	11/13/2018	267	133	4	97	8,907		84	2	97.62		4,454		
W	11/14/2018	174	102	5	95	7,256		69	2	97.10		2,902		16
Th	11/15/2018	282	140	1	99	2,352		71	<	2	97.19	4,704		
F	11/16/2018	324	110	7	94	18,915		92	2	97.82		5,404		
S	11/17/2018	201	84	8	90	13,411		43	3	92.96		5,029		
Su	11/18/2018	194	113	3	97	4,854		64	<	2	96.86	3,236		
M	11/19/2018	191	88	2	98	3,186		80	2	97.50		3,186		8
T	11/20/2018	184	83	2	98	3,069		68	<	2	97.04	3,069		
W	11/21/2018	145	169	3	98	3,628		81	2	97.54		2,419		15
Th	11/22/2018	169	152	3	98	4,228		96	2	97.91		2,819		
F	11/23/2018	172	99	2	98	2,869		91	2	97.81		2,869		
S	11/24/2018	305	119	4	97	10,175		68	2	97.04		5,087		
Su	11/25/2018	269	153	8	95	17,948		77	8	89.68		17,948		
M	11/26/2018	315	81	4	95	10,508		54	2	96.28		5,254		8
T	11/27/2018	218	71	7	90	12,727		42	3	92.88		5,454		
W	11/28/2018	193	91	3	97	4,821		64	2	96.90		3,214		14
Th	11/29/2018	191	139	3	98	4,779		69	2	97.11		3,186		
F	11/30/2018	189	98	3	97	4,729		60	2	96.65		3,153		
S	12/01/2018	223	113	2	98	3,711		82	2	97.56		3,711		

TOTAL	6,374	3,643	117					2,260	77					
AVERAGE	212	121	4	97		7,085		75	3	96.47		4,575		12

Wk1	205	139	4			7,253		75	2			4,001		
Wk2	235	111	4			8,612		74	2			4,431		
Wk3	194	118	3			4,573		78	2			3,241		
Wk4	228	107	4			8,460		64	3			5,989		

MAX 324

CBOD 20 LBS---- 19,738

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
 LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT

SWWPCP - NOVEMBER 2018

GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)			
Th 11/01/2018	150	7.1	5.3	0.18	1			
F 11/02/2018	209	6.9	4.8	0.15	1			
S 11/03/2018	202	6.8	5.6	0.23	36			
Su 11/04/2018	157	7.1	5.2	0.05	7			
M 11/05/2018	239	7.0	5.2	0.25	10			
T 11/06/2018	278	7.1	5.7	0.30	2			
W 11/07/2018	178	7.0	6.6	0.37	5			
Th 11/08/2018	152	7.1	4.4	0.15	20			
F 11/09/2018	251	7.1	5.7	0.16	4			
S 11/10/2018	178	7.0	6.8	0.28	5			
Su 11/11/2018	169	7.1	5.7	0.21	6			
M 11/12/2018	228	7.0	4.7	0.22	1			
T 11/13/2018	267	6.9	5.7	0.36	18			
W 11/14/2018	174	7.0	6.1	0.33	4			
Th 11/15/2018	282	6.9	6.0	0.19	1			
F 11/16/2018	324	6.9	9.1	0.44	28			
S 11/17/2018	201	7.0	6.4	0.37	2			
Su 11/18/2018	194	7.1	5.4	0.30	6			
M 11/19/2018	191	7.0	5.6	0.29	3			
T 11/20/2018	184	7.1	6.0	0.20	5			
W 11/21/2018	145	7.0	6.0	0.27	3			
Th 11/22/2018	169	7.0	6.0	0.28	7			
F 11/23/2018	172	7.1	5.8	0.23	6			
S 11/24/2018	305	7.1	6.1	0.21	12			
Su 11/25/2018	269	7.1	9.1	0.56	6			
M 11/26/2018	315	7.0	6.6	0.51	2			
T 11/27/2018	218	7.1	6.5	0.26	8			
W 11/28/2018	193	7.0	7.0	0.23	6			
Th 11/29/2018	191	7.0	6.8	0.10	4			
F 11/30/2018	189	7.1	6.1	0.16	1			
	223							
Total Avg	6,596 213	MIN 6.8	MAX 7.1	MIN 4.4	AVG 6.1	AVG 0.26	MAX 0.56	MEAN 5

Wk1 205
Wk2 235
Wk3 194
Wk4 228

NPDES/
LIMIT EFFLUENT
 MIN MAX
 6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - NOVEMBER 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
11/01/2018	21	117	168	124	130	159	91	101
11/02/2018	26	163	220	104	118	146	87	94
11/03/2018	28	157	200	188	190	172	97	107
11/04/2018	24	120	136	120	122	126	76	84
11/05/2018	29	191	116	136	134	130	86	91
11/06/2018	44	200	116	136	133	110	62	70
11/07/2018	27	137	124	120	121	81	58	61
11/08/2018	25	132	132	144	142	106	58	66
11/09/2018	35	191	144	184	178	88	68	71
11/10/2018	28	135	132	144	142	91	84	85
11/11/2018	26	129	144	124	127	98	61	67
11/12/2018	30	176	136	72	80	128	86	92
11/13/2018	45	193	160	128	133	113	78	84
11/14/2018	28	132	112	100	102	84	66	69
11/15/2018	47	205	120	144	140	82	69	71
11/16/2018	56	238	140	104	110	77	95	92
11/17/2018	33	152	84	84	84	51	41	43
11/18/2018	31	148	100	116	113	94	58	64
11/19/2018	29	148	112	84	88	114	74	80
11/20/2018	28	142	120	76	83	93	63	68
11/21/2018	27	104	136	176	169	108	75	81
11/22/2018	27	128	172	148	152	130	89	96
11/23/2018	25	133	140	92	99	145	82	91
11/24/2018	51	212	136	116	119	100	61	68
11/25/2018	44	200	196	144	153	126	68	77
11/26/2018	52	222	88	80	81	73	50	54
11/27/2018	36	165	84	68	71	53	40	42
11/28/2018	32	149	88	92	91	72	63	64
11/29/2018	30	147	112	144	139	81	67	69
11/30/2018	29	146	132	92	98	86	55	60
AVG	33	160	133	119	121	104	70	75

PERMIT

SWWPCP - NOVEMBER 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
11/01/2018		168			
11/02/2018		195			
11/03/2018		181			
11/04/2018		135			
11/05/2018	88	145	95	12	87%
11/06/2018		119			
11/07/2018	70	90	73	15	79%
11/08/2018		115			
11/09/2018		102			
11/10/2018		95			
11/11/2018		108			
11/12/2018	102	138	107	15	86%
11/13/2018		123			
11/14/2018	72	95	76	14	82%
11/15/2018		91			
11/16/2018		90			
11/17/2018		66			
11/18/2018		103			
11/19/2018	81	124	88	18	79%
11/20/2018		105			
11/21/2018	85	125	92	19	79%
11/22/2018		140			
11/23/2018		158			
11/24/2018		134			
11/25/2018		134			
11/26/2018	58	81	62	14	77%
11/27/2018		57			
11/28/2018	66	83	69	16	77%
11/29/2018		95			
11/30/2018		96			
			<		
AVG	78	116	83	15	81%

DESIGN - 200 MGD

DATE	SWWPCP - NOVEMBER 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
11/01/2018	21	117	12	150	189	T
11/02/2018	26	163	20	209	381	0.37
11/03/2018	28	157	17	202	334	0.27
11/04/2018	24	120	13	157	190	
11/05/2018	29	191	19	239	349	0.55
11/06/2018	44	200	34	278	490	1.65
11/07/2018	27	137	14	178	216	
11/08/2018	25	132	-5	152	198	
11/09/2018	35	191	25	251	472	0.75
11/10/2018	28	135	15	178	208	T
11/11/2018	26	129	14	169	198	
11/12/2018	30	176	22	228	468	0.23
11/13/2018	45	193	29	267	466	1.04
11/14/2018	28	132	14	174	203	
11/15/2018	47	205	30	282	476	0.98
11/16/2018	56	238	30	324	473	0.26
11/17/2018	33	152	16	201	232	
11/18/2018	31	148	15	194	222	
11/19/2018	29	148	14	191	222	
11/20/2018	28	142	14	184	224	0.02
11/21/2018	27	104	14	145	212	
11/22/2018	27	128	14	169	216	
11/23/2018	25	133	14	172	203	
11/24/2018	51	212	42	305	509	2.01
11/25/2018	44	200	25	269	412	0.01
11/26/2018	52	222	41	315	500	0.89
11/27/2018	36	165	17	218	252	T
11/28/2018	32	149	12	193	222	
11/29/2018	30	147	14	191	218	
11/30/2018	29	146	14	189	210	
TOTAL	993	4,812	569	6,374		9.03
AVG	33	160	19	212		
			MIN	145	189	
			MAX	324	509	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 11/01/2018
 DMR Effective To: 11/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	11	01	TO	2018	11	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.4	6.1	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.8	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	7085	8612	lbs/day	***	4	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	13.67	19.20	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	814	935	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	991	1.690	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	13.70	17.70	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	211	248	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0056	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0080	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0600	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	<.0250	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	212	324	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	26	.56	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		1.0 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.060	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	5	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4575	5989	lbs/day	***	3	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	18000 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	19738	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36000 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 11/01/2018
 DMR Effective To: 11/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	11	01	TO	2018	11	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---		Monitor & Report Inst Min	---	Monitor & Report IMAX			
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---		---	---	Monitor & Report IMAX			
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---		---	---	---			
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 11/01/2018
 DMR Effective To: 11/30/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	11	01	TO	2018	11	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.47	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
201811SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2018-12-28T09:09:42-05:00	
SWCSO 201811.xls	CSD Detailed Outfall Report Form	2018-12-27T14:18:33-05:00	
SW Outfall Monthly Grab (12-21-2018).pdf	Laboratory Accreditation Form	2018-12-27T14:19:36-05:00	
BLSSW201811.xls	Nutrient Monitoring Form	2018-12-27T14:17:39-05:00	
SW Daily Composite (12-21-2018).pdf	Laboratory Accreditation Form	2018-12-27T14:19:07-05:00	
E-NPDES SW-201811.xls	Daily Effluent Monitoring Form	2018-12-27T14:16:28-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. A flow in excess of 300 MGD qualified for permit relief on the 16th, 24th and 26th of the month but were not used in compliance reporting. There were no CSC's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2018	12	28
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
11/07/2018	0.729	0.777	9.57	11.00	0.248
11/14/2018	0.760	0.922	10.10	11.00	0.218
11/21/2018	0.935	0.576	19.20	17.70	0.198
11/28/2018	0.830	1.690	15.80	15.10	0.178
AVG	0.814	0.991	13.67	13.70	0.211
MAX	0.935	1.690	19.20	17.70	0.248

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
11/07/2018	0.060	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	11/07/2018
Copper	0.0080
Iron Dissolved	0.0600
Lead	< 0.0030
Nickel	0.0030
Selenium	< 0.0030
Zinc	< 0.0250

Organics Data (mg/L)

Southwest WPCP - Outfall

	11/06/2018
1,2-Dichloroethane	< 0.0005
Chloroform	0.0056
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

File Name: 201811SL
 Print Date: 12/26/2018

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
NOVEMBER 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	Biosolids Recycle Center / Synagro From NEWPCP	Biosolids Recycle Center / Synagro		Biosolids Recycle Center / Synagro From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD	DT	MGD	MGD	DT
11/01/2018	-	0.754	112.16	1.040	0.788	83.5
11/02/2018	0.890	0.158	20.47	1.310	1.542	163.4
11/03/2018	-	0.134	14.68	1.280	1.095	115.0
11/04/2018	0.870	1.106	137.22	1.240	1.421	163.5
11/05/2018	0.860	0.616	67.91	1.000	1.224	159.4
11/06/2018	0.880	0.986	107.93	1.050	0.733	95.2
11/07/2018	0.860	0.672	73.09	1.650	2.111	271.0
11/08/2018	0.820	1.493	180.42	0.750	0.322	41.1
11/09/2018	-	0.091	9.45	1.210	1.328	215.0
11/10/2018	1.740	0.932	108.47	1.400	0.982	108.7
11/11/2018	-	0.598	79.57	1.530	1.994	250.5
11/12/2018	0.890	0.425	54.81	1.140	0.958	88.2
11/13/2018	-	0.207	21.80	1.100	0.946	79.8
11/14/2018	0.860	0.508	55.02	1.480	1.372	143.0
11/15/2018	0.880	1.248	129.67	0.800	0.902	91.9
11/16/2018	0.420	0.065	6.35	1.280	1.534	143.7
11/17/2018	1.270	1.810	220.85	1.320	1.101	99.1
11/18/2018	0.840	0.941	108.91	1.200	1.202	115.8
11/19/2018	0.850	0.477	47.95	1.480	1.988	206.7
11/20/2018	-	0.562	60.71	1.410	0.844	104.5
11/21/2018	0.890	0.569	56.02	1.060	1.425	139.1
11/22/2018	-	0.035	2.10	1.730	2.215	258.1
11/23/2018	0.880	1.144	127.83	0.670	0.475	51.9
11/24/2018	0.880	0.656	71.64	2.080	1.242	132.7
11/25/2018	0.870	0.649	60.84	1.300	1.381	141.1
11/26/2018	0.840	0.698	73.95	0.380	1.019	122.7
11/27/2018	-	0.415	-	1.330	1.108	101.6
11/28/2018	0.880	0.723	75.81	1.060	1.137	105.6
11/29/2018	0.890	0.669	70.51	0.770	0.733	86.3
11/30/2018	0.900	0.624	72.21	0.960	0.774	71.1
TOTAL	19.960	19.964	2,228	36.010	35.897	3,949
AVERAGE	0.665	0.665	74	1.200	1.197	132

SW Daily Composite

WW181107-007

Composite 24h 11/07/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/21/2018	12:16	70.3	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 70%. Acceptance limits are 90-110%.
-----	---

WW181107-009

Composite 24h 11/07/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/21/2018	12:07	11.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 9.7%. Acceptance limits are 90-110%.
-----	--

WW181114-007

Composite 24h 11/14/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	10/17/2018	12:08	11/28/2018	12:11	93.2	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 114%. Acceptance limits are 90-110%.
-----	--

WW181114-008

Composite 24h 11/14/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	11:37	16.2	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW181114-009

Composite 24h 11/14/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
-----------	-------------------	-------------------------	-------------------------	----------------------	----------------------	-----------------	-------	--------------------	-------

TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	11:41	14.8	mg/L as N	1.0	mg/L as N
-----	----------------	-----------	------	-----------	-------	------	-----------	-----	-----------

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW181121-007

Composite 24h 11/21/2018 06:20

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	12:05	90.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 73%. Acceptance limits are 90-110%.
-----	---

WW181121-008

Composite 24h 11/21/2018 06:15

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	11:48	24.9	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW181121-009

Composite 24h 11/21/2018 06:18

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	11:49	17.2	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

WW181121-010

Composite 24h 11/21/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	12/4/2018	9:30	12/7/2018	11:51	17.7	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 80%. Acceptance limits are 90-110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: John Consolvo

Title: Laboratory Manager

Date: 12/21/2018

SW Outfall Monthly Grab

Report: NPW20181221-008
 Report Date: 12/21/2018

WW181106-012

Grab 11/06/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
1,2-Dichloroethane ^{B,D}	EPA 624			11/7/2018	21:45	<0.5 ^E	µg/L	0.5	µg/L
Chloroform ^{B,D}	EPA 624			11/7/2018	21:45	5.6 ^E	µg/L	0.5	µg/L
Tetrachloroethene ^{B,D}	EPA 624			11/7/2018	21:45	<0.5 ^E	µg/L	0.5	µg/L
Trichloroethene ^{B,D}	EPA 624			11/7/2018	21:45	<0.5 ^E	µg/L	0.5	µg/L

Data Qualifiers:

1,2-Dichloroethane	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Chloroform	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Tetrachloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.
Trichloroethene	The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name: John Consolvo
 Title: Laboratory Manager
 Date: 12/21/2018



Debra A. McCarty, Water Commissioner

January 25, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for December 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 12/01/2018-12/31/2018

Report Due Date: 01/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 132865

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for December 2018

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET
 MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - DECEMBER 2018

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

S	12/01/2018	215	117	2	98	3,586		70	2	97.14		3,586		
Su	12/02/2018	262	113	2	98	4,370		82	< 2	97.55		4,370		
M	12/03/2018	193	69	3	96	4,829		68	4	94.14		6,438		13
T	12/04/2018	186	119	4	97	6,205		75	< 2	97.32		3,102		
W	12/05/2018	186	113	3	97	4,654		73	< 2	97.25		3,102		20
Th	12/06/2018	172	NS	3	ND	4,303		NS	< 2	ND		2,869		
F	12/07/2018	179	138	3	98	4,479		88	3	96.59		4,479		13
S	12/08/2018	173	117	3	97	4,328		91	2	97.81		2,886		
Su	12/09/2018	173	129	4	97	5,771		83	2	97.59		2,886		
M	12/10/2018	173	199	4	98	5,771		93	2	97.85		2,886		8
T	12/11/2018	166	67	4	94	5,538		60	2	96.64		2,769		
W	12/12/2018	172	160	3	98	4,303		85	2	97.66		2,869		11
Th	12/13/2018	167	166	3	98	4,178		88	2	97.72		2,786		
F	12/14/2018	174	117	2	98	2,902		96	2	97.92		2,902		
S	12/15/2018	253	116	4	97	8,440		94	3	96.79		6,330		
Su	12/16/2018	266	183	4	98	8,874		91	3	96.71		6,655		
M	12/17/2018	188	106	3	97	4,704		59	5	91.47		7,840		13
T	12/18/2018	174	103	3	97	4,353		67	2	97.02		2,902		
W	12/19/2018	173	130	3	98	4,328		87	< 2	97.69		2,886		10
Th	12/20/2018	277	103	3	97	6,931		63	2	96.82		4,620		
F	12/21/2018	328	72	6	92	16,413		75	4	94.64		10,942		
S	12/22/2018	220	120	8	93	14,678		56	4	92.87		7,339		
Su	12/23/2018	199	114	2	98	3,319		66	2	96.96		3,319		
M	12/24/2018	193	27	NR	ND	ND		64	2	96.88		3,219		
T	12/25/2018	183	109	2	98	3,052		83	2	97.60		3,052		
W	12/26/2018	184	88	3	97	3,836		76	2	97.36		3,069		11
Th	12/27/2018	184	111	1	99	1,535		81	2	97.52		3,069		
F	12/28/2018	372	148	6	96	18,615		89	< 2	97.74		6,205		11
S	12/29/2018	220	121	14	88	25,687		59	3	94.96		5,504		
Su	12/30/2018	200	111	4	96	6,672		69	2	97.12		3,336		
M	12/31/2018	303	88	2	98	5,054		67	2	97.00		5,054		

TOTAL	6,508	3,474	111					2,295	75					
AVERAGE	210	116	4	97		6,724		77	2	96.68		4,299		12

Wk1	193	111	3			4,738		79	2			3,892		
Wk2	183	136	3			5,272		85	2			3,347		
Wk3	232	117	4			8,612		71	3			6,169		
Wk4	219	103	5			9,341		74	2			3,920		

MAX 372

CBOD 20 LBS---- 20,511

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT

SWWPCP - DECEMBER 2018

GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
S 12/01/2018	215	7.1	6.6	0.15	5
Su 12/02/2018	262	7.0	7.4	0.34	8
M 12/03/2018	193	7.0	5.8	0.17	7
T 12/04/2018	186	7.1	5.9	0.18	16
W 12/05/2018	186	7.1	5.5	0.17	12
Th 12/06/2018	172	7.0	6.3	0.20	15
F 12/07/2018	179	6.9	5.7	0.11	26
S 12/08/2018	173	7.1	6.8	0.16	11
Su 12/09/2018	173	7.1	6.3	0.16	13
M 12/10/2018	173	7.1	5.5	0.15	2
T 12/11/2018	166	7.0	6.0	0.10	148
W 12/12/2018	172	7.1	6.8	0.17	5
Th 12/13/2018	167	7.0	6.6	0.09	5
F 12/14/2018	174	7.0	6.0	0.12	3
S 12/15/2018	253	7.0	5.4	0.19	11
Su 12/16/2018	266	7.0	7.4	0.43	20
M 12/17/2018	188	7.0	6.4	0.24	2
T 12/18/2018	174	7.0	6.5	0.19	2
W 12/19/2018	173	7.1	6.3	0.18	4
Th 12/20/2018	277	7.0	5.4	0.19	15
F 12/21/2018	328	6.9	7.4	0.39	32
S 12/22/2018	220	7.0	5.0	0.28	15
Su 12/23/2018	199	7.0	5.3	0.27	19
M 12/24/2018	193	7.1	4.4	0.20	15
T 12/25/2018	183	7.0	4.8	0.16	18
W 12/26/2018	184	7.0	4.7	0.19	12
Th 12/27/2018	184	7.0	6.7	0.15	5
F 12/28/2018	372	6.9	6.6	0.09	22
S 12/29/2018	220	7.0	7.1	0.24	15
Su 12/30/2018	200	7.1	5.7	0.17	4
M 12/31/2018	303	6.9	5.7	0.16	2
Total Avg	6,508 210	MIN MAX 6.9 7.1	MIN AVG 4.4 6.1	AVG MAX 0.19 0.43	MEAN 9

Wk1 193
Wk2 183
Wk3 232
Wk4 219

NPDES/
LIMIT EFFLUENT
 MIN MAX
 6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - DECEMBER 2018

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
12/01/2018	30	168	120	116	117	76	69	70
12/02/2018	38	202	140	108	113	114	76	82
12/03/2018	31	147	96	64	69	85	65	68
12/04/2018	29	142	136	116	119	111	68	75
12/05/2018	28	142	120	112	113	99	68	73
12/06/2018	26	132	N/S	140	NS	NS	65	NS
12/07/2018	27	136	124	140	138	99	86	88
12/08/2018	27	133	144	112	117	109	88	91
12/09/2018	27	133	180	120	129	138	73	83
12/10/2018	26	135	172	204	199	109	90	93
12/11/2018	25	129	104	60	67	85	55	60
12/12/2018	25	133	64	176	160	70	88	85
12/13/2018	25	129	156	168	166	114	83	88
12/14/2018	24	138	100	120	117	116	93	96
12/15/2018	32	198	140	112	116	125	89	94
12/16/2018	39	205	176	184	183	116	87	91
12/17/2018	30	144	116	104	106	88	53	59
12/18/2018	27	134	120	100	103	73	66	67
12/19/2018	27	132	120	132	130	106	83	87
12/20/2018	43	208	144	96	103	95	57	63
12/21/2018	66	230	136	56	72	93	70	75
12/22/2018	46	159	148	112	120	64	54	56
12/23/2018	40	144	124	112	114	85	61	66
12/24/2018	39	139	56	20	27	108	53	64
12/25/2018	35	133	132	104	109	110	77	83
12/26/2018	35	135	120	80	88	121	65	76
12/27/2018	34	136	108	112	111	119	72	81
12/28/2018	74	253	196	136	148	111	83	89
12/29/2018	48	154	108	124	121	72	56	59
12/30/2018	41	143	124	108	111	71	69	69
12/31/2018	53	220	88	88	88	79	64	67
AVG	35	157	127	114	116	99	72	77

PERMIT

SWWPCP - DECEMBER 2018

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
12/01/2018		95			
12/02/2018		124			
12/03/2018	67	93	71	17	76%
12/04/2018		122			
12/05/2018	77	108	82	12	85%
12/06/2018		NS			
12/07/2018		109			
12/08/2018		138			
12/09/2018		149			
12/10/2018	92	119	96	11	89%
12/11/2018		102			
12/12/2018	117	86	112	17	85%
12/13/2018		127			
12/14/2018		126			
12/15/2018		141			
12/16/2018		125			
12/17/2018	66	105	72	13	82%
12/18/2018		94			
12/19/2018	93	118	97	11	89%
12/20/2018		130			
12/21/2018		110			
12/22/2018		77			
12/23/2018		95			
12/24/2018	73	124	83	7	92%
12/25/2018		134			
12/26/2018	78	133	88	14	84%
12/27/2018		128			
12/28/2018		120			
12/29/2018		78			
12/30/2018		99			
12/31/2018		94	<		
AVG	83	113	88	13	85%

DESIGN - 200 MGD

DATE	SWWPCP - DECEMBER 2018					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
12/01/2018	30	168	17	215	397	0.07
12/02/2018	38	202	22	262	396	0.55
12/03/2018	31	147	15	193	229	
12/04/2018	29	142	15	186	204	
12/05/2018	28	142	16	186	205	0.03
12/06/2018	26	132	14	172	204	
12/07/2018	27	136	16	179	196	
12/08/2018	27	133	13	173	207	
12/09/2018	27	133	13	173	202	
12/10/2018	26	135	12	173	207	
12/11/2018	25	129	12	166	193	
12/12/2018	25	133	14	172	191	
12/13/2018	25	129	13	167	190	
12/14/2018	24	138	12	174	219	0.11
12/15/2018	32	198	23	253	410	0.44
12/16/2018	39	205	22	266	388	1.01
12/17/2018	30	144	14	188	217	T
12/18/2018	27	134	13	174	194	
12/19/2018	27	132	14	173	195	
12/20/2018	43	208	26	277	489	0.56
12/21/2018	66	230	32	328	482	1.16
12/22/2018	46	159	15	220	261	0.09
12/23/2018	40	144	15	199	242	
12/24/2018	39	139	15	193	236	0.02
12/25/2018	35	133	15	183	222	
12/26/2018	35	135	14	184	215	
12/27/2018	34	136	14	184	393	
12/28/2018	74	253	45	372	492	1.67
12/29/2018	48	154	18	220	247	
12/30/2018	41	143	16	200	231	T
12/31/2018	53	220	30	303	468	0.67
TOTAL	1,097	4,866	545	6,508		6.38
AVG	35	157	18	210		
			MIN	166	190	
			MAX	372	492	



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **12/01/2018**
 DMR Effective To: **12/31/2018**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2018	12	01	TO	2018	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.4	6.1	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	6724	9341	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	17.53	22.60	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	735	819	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	608	.797	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	17.65	24.90	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	212	275	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0019	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0057	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.1093	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0037	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0267	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	210	372	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	19	.43	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	< .005	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	9	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4299	6169	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	20511	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 12/01/2018
 DMR Effective To: 12/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	TO	2018	12	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 12/01/2018
 DMR Effective To: 12/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	TO	2018	12	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.68	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW Daily Composite (01-24-2019).pdf	Laboratory Accreditation Form	2019-01-24T12:47:27-05:00	
SW WET Testing Composite (01-24-2019).pdf	Laboratory Accreditation Form	2019-01-24T12:49:09-05:00	
SW Daily Grab (01-24-2019).pdf	Laboratory Accreditation Form	2019-01-24T12:48:17-05:00	
E-NPDES SW 201812.xls	Daily Effluent Monitoring Form	2019-01-24T12:43:17-05:00	
BLSSW201812.xls	Nutrient Monitoring Form	2019-01-24T12:44:17-05:00	
SWCSO 201812.xls	CSO Detailed Outfall Report Form	2019-01-24T12:46:44-05:00	
201812SL.xls	Sewage Sludge / Biosolids Production and Disposal Form	2019-01-24T12:45:45-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the 21st, 28th, and 31st of the month. Please note that there was an inadequate amount of influent sample collected on 12/06 for TSS and CBOD5 so this data was indicated as non-reportable. Corrective actions to the auto-sampler have been taken. Please note that the effluent TSS result for 12/24, was marked as non-reportable due to analyst error. Additional training and supervision were given to the analyst. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	1	25
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

12/07/2018

Toxicity, Ceriodaphnia acute	1
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	1

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
DECEMBER 2018	Sludge Flow To	Sludge Processed by		Sludge Flow To	Sludge Processed by	
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro	
	MGD	MGD	DT	MGD	MGD	DT
12/01/2018	-	0.339	36.51	1.204	1.394	149.7
12/02/2018	-	0.366	42.03	1.090	1.167	98.3
12/03/2018	0.1818	0.278	29.09	1.302	1.060	109.7
12/04/2018	1.5537	1.489	169.27	1.093	1.335	120.7
12/05/2018	0.8888	0.935	114.79	0.919	0.919	91.8
12/06/2018	0.8990	0.917	99.46	1.865	1.879	188.2
12/07/2018	0.8825	0.760	85.70	2.254	2.256	181.7
12/08/2018	0.9074	0.782	84.79	1.236	1.192	130.3
12/09/2018	-	0.276	31.06	0.734	1.286	103.8
12/10/2018	0.8882	0.520	62.47	1.680	0.944	87.9
12/11/2018	0.8998	1.155	124.80	1.084	0.811	70.1
12/12/2018	0.9007	0.828	89.74	0.975	1.059	89.6
12/13/2018	0.9086	0.727	83.72	1.330	1.483	129.0
12/14/2018	-	-	-	0.609	0.701	54.0
12/15/2018	0.8763	0.423	57.66	1.518	1.696	128.5
12/16/2018	0.8785	1.559	251.71	1.358	1.646	141.4
12/17/2018	0.8362	0.839	108.18	1.421	0.807	69.0
12/18/2018	0.7993	0.799	104.14	1.961	2.053	175.5
12/19/2018	0.9030	0.811	66.16	1.075	1.259	107.9
12/20/2018	0.8526	0.761	77.30	1.400	1.308	124.0
12/21/2018	-	0.286	19.81	1.194	1.230	113.3
12/22/2018	0.8459	0.514	34.30	1.115	1.070	100.4
12/23/2018	0.3979	0.122	11.81	1.019	0.743	66.5
12/24/2018	0.9526	1.118	98.14	0.447	0.772	77.7
12/25/2018	0.4450	0.819	66.28	0.979	0.994	92.5
12/26/2018	0.8949	0.591	47.58	1.074	1.311	122.1
12/27/2018	0.9108	1.105	110.08	1.074	0.786	74.0
12/28/2018	0.2581	0.000	-	1.483	1.760	143.1
12/29/2018	1.5216	1.340	161.59	1.271	0.849	65.5
12/30/2018	0.8669	1.033	143.33	0.883	1.115	87.6
12/31/2018	0.8178	1.239	127.71	1.042	0.987	81.3
TOTAL	21.968	22.729	2,539	37.689	37.872	3,375
AVERAGE	0.709	0.733	85	1.216	1.222	109

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Composite

Report: NPW20190122-004
Report Date: 01/22/2019

WW181224-009

Composite 24h 12/24/2018 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Solids Suspended Total	SM 2540 D	12/24/2018	5:50	12/24/2018	7:35	NR	mg/L	2.5	mg/L

Data Qualifiers:

Solids Suspended Total	Anaylsis Error
------------------------	----------------

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
Signature: _____
Name: Aaron Bitler
Title: Laboratory Manager
Date: 1/22/2019

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Grab

Report: NPW20190122-005
Report Date: 01/22/2019

WW181213-005

Grab 12/13/2018 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			12/13/2018	8:15	5.2	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	This sample was associated with a batch where the Precision Criteria Value was exceeded.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name: Aaron Bitler
Title: Laboratory Manager
Date: 1/22/2019



Debra A. McCarty, Water Commissioner

January 24, 2019

The City of Philadelphia hereby submits the Annually Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Annually

Report Type: DMR

Reporting Period: 01/01/2018-12/31/2018

Report Due Date: 01/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 132499

Submission Status: Received

Submission Type: Original

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

Stormwater Sampling (mg/L)

Southwest WPCP - Outfall

10/21/2018

COD	<	50
HEM (Oil & Grease)	<	5.0
Phosphorous Total		0.224
TKN		1.06
CBOD5		3
TSS		12.0

Stormwater Sampling (pH)

10/21/2018

pH		7.6
----	--	-----

Stormwater Sampling (#/100mls)

10/21/2018

Fecal Coliform	>	2,419.6
----------------	---	---------

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

PCB (pg/L)

Southwest WPCP - Ou

PCB	03/02/2018	04/16/2018	05/10/2018	08/29/2018	10/12/2018	AVG
Dry Test			5,536	4,943		5,239
Wet Test	5,873	8,662			7,254	7,263



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA,
19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Annually
 DMR Effective From: 01/01/2018
 DMR Effective To: 12/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	01	01	TO	2018	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
PCBs Wet Weather Analysis (51556)	Sample Measurement	***	***	***	5873	***	8662	pg/L	3/year	24-Hr Composite
	Permit Requirement	***	***		Monitor & Report Min	***	Monitor & Report Max		2/year	24-Hr Composite
PCBs Dry Weather Analysis (51557)	Sample Measurement	***	***	***	4943	***	5536	pg/L	2/year	24-Hr Composite
	Permit Requirement	***	***		Monitor & Report Min	***	Monitor & Report Max		2/year	24-Hr Composite
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

085
OUTFALL NUMBER

Reporting Frequency: Annually
 DMR Effective From: 01/01/2018
 DMR Effective To: 12/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	01	01	TO	2018	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chemical Oxygen Demand (COD) (00340)	Sample Measurement	**	**	**	**	**	<50	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
pH (00400)	Sample Measurement	**	**	**	**	**	7.6	S U	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Total Suspended Solids (00530)	Sample Measurement	**	**	**	**	**	12.0	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Oil and Grease (00556)	Sample Measurement	**	**	**	**	**	<5.0	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Total Kjeldahl Nitrogen (00625)	Sample Measurement	**	**	**	**	**	1.06	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Total Phosphorus (00665)	Sample Measurement	**	**	**	**	**	224	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Fecal Coliform (74055)	Sample Measurement	**	**	**	**	**	>2419.6	CFU/100 ml	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	**	**	**	**	**	3	mg/L	1/year	Grab
	Permit Requirement	**	**		**	**	Monitor & Report Daily Max		1/year	Grab
Facility Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
BLSSW201812.xls	Annual Nutrient Summary Form	2019-01-24T11:37:43-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
Annual PCB and Stormwater DMR	Mary Ellen Sens	S12300	(216)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Sens	TELEPHONE		DATE		
			(215)	685-6258	2019	1	24
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



Debra A. McCarty, Water Commissioner

January 25, 2019

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period from October 2018 to December 2018. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 10/01/2018-12/31/2018

Report Due Date: 01/28/2019

Submitted By: Mary Ellen Sens

Submission Id: 132555

Submission Status: Received

Submission Type: Revision

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

12/07/2018

Toxicity, Ceriodaphnia acute	1
Toxicity, Ceriodaphnia chronic	1
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	1

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

Stormwater Sampling (mg/L)

Southwest WPCP - Outfall

10/21/2018

COD	<	50
HEM (Oil & Grease)	<	5.0
Phosphorous Total		0.224
TKN		1.06
CBOD5		3
TSS		12.0

Stormwater Sampling (pH)

10/21/2018

pH		7.6
----	--	-----

Stormwater Sampling (#/100mls)

10/21/2018

Fecal Coliform	>	2,419.6
----------------	---	---------

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2018

Central Laboratory

PCB (pg/L)

Southwest WPCP - Ou

PCB	03/02/2018	04/16/2018	05/10/2018	08/29/2018	10/12/2018	AVG
Dry Test			5,536	4,943		5,239
Wet Test	5,873	8,662			7,254	7,263



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 10/01/2018
 DMR Effective To: 12/31/2018
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2018	10	01	TO	2018	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Toxicity, Acute - Ceriodaphnia Survival (61425)	Sample Measurement	***	***	***	***	***	1	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Chronic - Ceriodaphnia Survival (61426)	Sample Measurement	***	***	***	***	***	1	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Toxicity, Acute - Pimephales Survival (61427)	Sample Measurement	***	***	***	***	***	1	TUa	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Chlordane (51032)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
alpha-Endosulfan (34361)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Benzidine (39120)	Sample Measurement	***	***	***	***	<.0050	***	mg/L	1/quarter	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	Grab
4,4-DDT (39300)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
4,4-DDD (39310)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
4,4-DDE (39320)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
beta-BHC (39338)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
gamma-BHC (Lindane) (39344)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Dieldrin (39380)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Heptachlor (39410)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite
Toxicity, Chronic - Pimephales Survival (61428)	Sample Measurement	***	***	***	***	***	1	TUc	1/quarter	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite
Facility Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW WET Testing Composite (01-24-2019).pdf	Laboratory Accreditation Form	2019-01-24T12:53:48-05:00	
BLSSW201812.xls	WET Test Summary Report	2019-01-24T12:09:15-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
senssm			(215)	685-6258	2019	1	24
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190122-006
 Report Date: 01/22/2019

SW WET Testing Composite

WW181203-001

Composite 24h 12/03/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Bromoform ^{B,D}	EPA 624			12/5/2018	16:07	<0.5 ^E	µg/L	0.5	µg/L
Bromomethane ^{B,D}	EPA 624			12/5/2018	16:07	<0.5 ^E	µg/L	0.5	µg/L
delta-BHC ^{B,D}	EPA 608	12/10/2018	0:00	12/10/2018	19:50	<0.02 ^E	µg/L	0.02	µg/L
p-Chloro-m-cresol ^{B,D}	EPA 625	12/4/2018	0:00	12/5/2018	1:12	<1.00 ^E	µg/L	1.00	µg/L

Data Qualifiers:

Bromoform	The CCV for this analyte was below acceptance criteria. Results may have greater uncertainty.
Bromomethane	The RPD between the LCS and LCS duplicate for this batch was outside criteria.
delta-BHC	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
p-Chloro-m-cresol	The recovery of LCS is 64%, which is outside the acceptance limits of 26-63%, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

WW181205-001

Composite 24h 12/05/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
delta-BHC ^{B,D}	EPA 608	12/10/2018	0:00	12/10/2018	20:05	<0.02 ^E	µg/L	0.02	µg/L
p-Chloro-m-cresol ^{B,D}	EPA 625	12/11/2018	0:00	12/14/2018	4:01	<1.00 ^E	µg/L	1.00	µg/L

Data Qualifiers:

delta-BHC	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
p-Chloro-m-cresol	The recovery of LCS is 67%, which is outside the acceptance limits of 26-63%, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

WW181207-001

Composite 24h 12/07/2018 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Acrolein ^{B,D}	EPA 624			12/10/2018	20:27	<1.0 ^E	µg/L	1.0	µg/L
Benzidine ^{B,D}	EPA 625	12/11/2018	0:00	12/14/2018	4:29	<5.00 ^E	µg/L	5.00	µg/L

CBOD5	SM 5210 B	12/7/2018	13:35	12/12/2018	0:00	<2.00	mg/L	2.00	mg/L
Endosulfan I ^{B,D}	EPA 608	12/13/2018	0:00	12/13/2018	20:03	<0.02 ^E	µg/L	0.02	µg/L
Endrin ^{B,D}	EPA 608	12/13/2018	0:00	12/13/2018	20:03	<0.02 ^E	µg/L	0.02	µg/L
Endrin aldehyde ^{B,D}	EPA 625	12/13/2018	0:00	12/13/2018	20:03	<0.02 ^E	µg/L	0.02	µg/L
Heptachlor ^{B,D}	EPA 625	12/13/2018	0:00	12/13/2018	20:03	<0.02 ^E	µg/L	0.02	µg/L
p-Chloro-m-cresol ^{B,D}	EPA 625	12/11/2018	0:00	12/14/2018	4:29	<1.00 ^E	µg/L	1.00	µg/L

Data Qualifiers:

Acrolein	Preservation for this analysis did not meet regulatory or method requirements.
Benzidine	The Matrix Spike associated with this sample is below the established acceptance criteria, indicating a potential matrix interference. Results of the sample may be biased low.
CBOD5	GGA recovery is 160.00 mg/L. The acceptance limits are 167.5 to 228.5 mg/L.
Endosulfan I	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin aldehyde	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Heptachlor	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
p-Chloro-m-cresol	The recovery of LCS is 71%, which is outside the acceptance limits of 26-63%, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name: Aaron Bitler
Title: Laboratory Manager
Date: 1/22/2019



EPA's sewage sludge regulations require certain publicly owned treatment works (POTWs) and Class I sewage sludge management facilities to submit to a Sewage Sludge (Biosolids) Annual Report (see 40 CFR 503.18 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_118), 503.28 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_128), 503.48 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_148)). Facilities that must submit a Sewage Sludge (Biosolids) Annual Report include POTWs with a design flow rate equal to or greater than one million gallons per day, POTWs that serve 10,000 people or more, Class I Sludge Management Facilities (as defined by 40 CFR 503.9 (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19)), and facilities otherwise required to file this report (e.g., permit condition, enforcement action, state law). This is the electronic form for Sewage Sludge (Biosolids) Annual Report filers to use if they are located in one of the states, tribes, or territories (<https://www.epa.gov/npdes/npdes-state-program-information>) where EPA administers the Federal biosolids program.

For the purposes of this form, the term 'sewage sludge' (https://www.ecfr.gov/cgi-bin/text-idx?node=pt40.32.503&rgn=div5#se40.32.503_19) also refers to the material that is commonly referred to as 'biosolids'. EPA does not have a regulatory definition for biosolids but this material is commonly referred to as sewage sludge that is placed on, or applied to the land to use the beneficial properties of the material as a soil amendment, conditioner, or fertilizer. EPA's use of the term 'biosolids' in this form is to confirm that information about beneficially used sewage sludge (a.k.a. biosolids) should be reported on this form.

Please note that EPA may contact you after you submit this report for more information regarding your sewage sludge management program.

Facility Information

Facility Name: PHILA WATER POLLUTION CONTROL

Reporting Information

Please select at least one of the following options pertaining to your obligation to submit a Sewage Sludge (Biosolids) Annual Report in compliance with 40 CFR part 503. The facility is:

- a POTW with a design flow rate equal to or greater than one million gallons per day
- a POTW that serves 10,000 people or more

In the reporting period, did you manage your sewage sludge or biosolids using any of the following management practices: land application, surface disposal, or incineration?

YES NO

If your facility is a POTW, please provide the estimated total amount of sewage sludge produced at your facility for the reporting period (in dry metric tons). If your facility is not a POTW, please provide the estimated total amount of biosolids produced at your facility for the reporting period (in dry metric tons).

40201

Reporting Period Start Date: 01/01/2018

Reporting Period End Date: 12/31/2018

Treatment Processes

Processes to Significantly Reduce Pathogens (PSRP):
Anaerobic Digestion

Processes to Further Reduce Pathogens (PFRP):
Heat Drying (e.g., flash dryer, spray dryer, rotary dryer)

Physical Treatment Options:
Preliminary Operations (e.g., sludge grinding, degritting, blending)
Thickening (e.g., gravity and/or flotation thickening, centrifugation, belt filter press, vacuum filter)

Other Processes to Manage Sewage Sludge:
Methane or Biogas Capture and Recovery

Analytical Methods

Did you use any analytical methods to analyze sewage sludge in the reporting period? YES NO

Analytical Methods

- EPA Method 6010 - Arsenic (ICP-OES)
- EPA Method 6010 - Cadmium (ICP-OES)
- EPA Method 6010 - Chromium (ICP-OES)
- EPA Method 6010 - Copper (ICP-OES)
- EPA Method 6010 - Lead (ICP-OES)
- EPA Method 6010 - Molybdenum (ICP-OES)
- EPA Method 6010 - Nickel (ICP-OES)
- EPA Method 6010 - Selenium (ICP-OES)
- EPA Method 6010 - Zinc (ICP-OES)
- EPA Method 9095 - Paint Filter Liquids Test
- Standard Method 2540 - Total Solids
- Standard Method 2540 - Volatile Solids
- EPA Method 9045 - pH (> 7% solids)

Other Analytical Methods

- Other Specific Oxygen Uptake Rate Analytical Method

Other Analytical Methods Text Area:

Ammonia as N, Method ASTM D6919-09

Sludge Management - Land Application

Sludge Management - Surface Disposal

Sludge Management - Other

Sludge Management - Other

ID: 002

Amount: 40201

Management Practice Detail: Other

Other Management Practice Detail Description: All sludge solids are conveyed to captive PRBF Dryer facility for further processing.

Handler, Preparer, or Applier Type: Off-Site Third-Party Handler or Applier

NPDES ID of handler: PAL026671

Facility Information:
 Philadelphia Renewable Bio-Fuels LLC
 7800 Perinose Ferry Road
 Philadelphia, PA 19153

Contact Information:
 Neelkant Shukla
 Senior Operations Manager
 215-255-5192
nshukla@synagro.com

Pathogen Class: Class A

Do you have any deficiencies to report for this SSUID? YES NO UNKNOWN

Additional Information

Please enter any additional information that you would like to provide in the comment box below.

All sludge solids from the Southwest plant are conveyed to the neighboring PRBF facility that is operated by Synagro. The distribution of the Class A pellets is managed by Synagro with the majority being land applied. The PRBF facility is currently being operated as a Captive facility under the PWD Southwest Plant permit (PAL026671).

Additional Attachments

Name	Created Date	Size

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Mary Ellen Senss (MARYWOOD8)

Certified On: 02/14/2019 10:18 AM



Debra A. McCarty, Water Commissioner

February 27, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for January 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 01/01/2019-01/31/2019

Report Due Date: 02/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 138486

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for January 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **01/01/2019**
 DMR Effective To: **01/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2019	01	01	TO	2019	01	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.8	6.7	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	7681	9620	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	20.90	28.20	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	812	955	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	924	1,320	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	20.44	23.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	218	252	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0037	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0080	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0710	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0320	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	212	359	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	21	.49	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.007	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0070	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	7	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4655	5145	lbs/day	***	3	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	18000 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	18311	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36800 Avg Mo	***		***	***	***		***	2/week
Facility Parameter Comments		See attached data qualifier report.								
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **01/01/2019**
 DMR Effective To: **01/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	01	01	TO	2019	01	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 01/01/2019
 DMR Effective To: 01/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	01	01	TO	2019	01	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.49	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	96	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SWCSO 201901.xlsx	CSO Detailed Outfall Report Form	2019-02-27T14:54:26-05:00	
E-NPDES SW201901.xlsx	Daily Effluent Monitoring Form	2019-02-27T14:53:31-05:00	
BLSSW201901.xlsx	Nutrient Monitoring Form	2019-02-27T14:53:58-05:00	
201901SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-02-27T14:55:02-05:00	
SW Daily Composite (02-21-2019).pdf	Laboratory Accreditation Form	2019-02-27T14:55:40-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES requirements were met during the month. There were no CSO's caused by plant activities. A flow in excess of 300 MGD qualified for permit relief on the 24th of the month. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-695-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	2	27
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT SWWPCP - JANUARY 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
S	12/30/2018	200	111	4	96	6,672		69	2	97.12		3,336		
M	12/31/2018	303	88	2	98	5,054		67	2	97.00		5,054		
T	01/01/2019	246	31	5	84	10,267		60	5	91.68		10,267		
W	01/02/2019	208	120	3	98	5,193		66	2	96.98		3,462		
Th	01/03/2019	206	120	4	97	6,878		68	2	97.04		3,439		12
F	01/04/2019	219	107	10	91	18,288		70	2	97.15		3,658		8
S	01/05/2019	280	121	3	98	7,008		57	<	96.52		4,672		
Su	01/06/2019	206	130	7	95	12,043		88	3	96.58		5,161		
M	01/07/2019	199	143	4	97	6,645		84	2	97.61		3,323		7
T	01/08/2019	222	105	3	97	5,547		66	<	96.98		3,698		
W	01/09/2019	193	172	4	98	6,438		75	3	95.98		4,828		12
Th	01/10/2019	194	117	7	94	11,304		79	<	97.48		3,230		
F	01/11/2019	188	156	3	98	4,692		84	2	97.63		3,128		
S	01/12/2019	186	127	4	97	6,201		95	2	97.90		3,101		
Su	01/13/2019	193	208	4	98	6,447		100	3	97.00		4,835		
M	01/14/2019	184	123	2	98	3,074		83	2	97.58		3,074		9
T	01/15/2019	181	123	3	98	4,519		83	3	96.39		4,519		
W	01/16/2019	179	127	4	97	5,983		82	2	97.57		2,992		12
Th	01/17/2019	181	120	4	97	6,040		94	2	97.88		3,020		
F	01/18/2019	182	153	3	98	4,565		83	2	97.60		3,043		
S	01/19/2019	251	101	3	97	6,280		87	3	96.54		6,280		
Su	01/20/2019	280	127	2	98	4,668		65	5	92.36		11,671		
M	01/21/2019	188	148	11	93	17,234		69	7	89.84		10,967		16
T	01/22/2019	187	123	5	96	7,785		67	<	97.04		3,114		
W	01/23/2019	190	120	3	98	3,970		84	2	97.63		3,176		12
Th	01/24/2019	359	121	3	98	8,985		55	2	96.37		5,990		
F	01/25/2019	227	154	8	95	15,145		62	3	95.19		5,680		
S	01/26/2019	215	103	5	95	8,966		68	2	97.07		3,586		
Su	01/27/2019	210	92	3	97	5,254		68	<	97.07		3,503		
M	01/28/2019	205	110	4	96	6,839		78	2	97.45		3,419		10
T	01/29/2019	207	107	5	95	8,625		86	3	96.52		5,175		
W	01/30/2019	213	126	3	98	5,318		94	2	97.88		3,545		14
W	01/31/2019	190	144	5	97	7,923		91	3	96.70		4,754		

TOTAL AVERAGE	6,569	3,878	137					2,395	81					
	212	125	4	96	7,681			77	3	96.49		4,655		11

Wk1	234	103	5		8,925			68	3			4,881		
Wk2	196	147	4		6,753			83	2			3,735		
Wk3	206	125	3		5,018			83	3			4,943		
Wk4	225	123	5		9,620			68	3			5,145		

MAX 359

CBOD 20 LBS---- 18,311

NPDES/ LIMIT	MO WK	<30 <45	>85	<50,400 <75,060	<25 <40	>89.25	<19,800 <29,700
					CBOD 20 MO LIMIT----		<35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - JANUARY 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
T 01/01/2019	246	7.0	9.9	0.47	6
W 01/02/2019	208	7.0	5.4	0.19	6
Th 01/03/2019	206	7.0	5.6	0.18	12
F 01/04/2019	219	6.9	5.8	0.16	17
S 01/05/2019	280	7.0	5.3	0.23	109
Su 01/06/2019	206	6.9	5.5	0.21	5
M 01/07/2019	199	7.0	5.3	0.17	19
T 01/08/2019	222	7.1	5.9	0.12	11
W 01/09/2019	193	7.0	4.8	0.22	8
Th 01/10/2019	194	7.1	6.2	0.10	13
F 01/11/2019	188	7.0	6.4	0.16	6
S 01/12/2019	186	6.9	7.9	0.11	5
Su 01/13/2019	193	6.9	6.9	0.17	5
M 01/14/2019	184	7.1	5.4	0.12	3
T 01/15/2019	181	7.1	5.8	0.11	3
W 01/16/2019	179	7.0	5.9	0.09	1
Th 01/17/2019	181	7.0	6.1	0.22	4
F 01/18/2019	182	7.0	6.5	0.23	3
S 01/19/2019	251	7.0	6.0	0.19	8
Su 01/20/2019	280	6.9	9.1	0.49	236
M 01/21/2019	188	7.0	6.6	0.22	35
T 01/22/2019	187	7.0	7.4	0.29	9
W 01/23/2019	190	7.0	7.7	0.22	6
Th 01/24/2019	359	7.0	6.2	0.24	6
F 01/25/2019	227	7.0	8.4	0.18	3
S 01/26/2019	215	6.9	8.6	0.19	2
Su 01/27/2019	210	6.9	8.5	0.12	4
M 01/28/2019	205	7.0	6.4	0.26	3
T 01/29/2019	207	7.0	7.6	0.21	2
W 01/30/2019	213	7.0	7.4	0.28	4
W 01/31/2019	190	7.0	6.4	0.29	7
Total Avg	6,569 212	MIN MAX 6.9 7.1	MIN AVG 4.8 6.7	AVG MAX 0.21 0.49	MEAN 7

Wk1 234
Wk2 196
Wk3 206
Wk4 225

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - JANUARY 2019

GRAB SAMPLES

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DELCOA	TRIPLE GRAVITY	DELCOA	MG/L		DELCOA	MG/L	
	MGD	MGD		EAST HIGH	PERMIT INFLUENT		EAST HIGH	PERMIT INFLUENT
01/01/2019	51	171	72	20	31	91	52	60
01/02/2019	42	145	120	120	120	91	60	66
01/03/2019	40	145	120	120	120	70	67	68
01/04/2019	39	157	100	108	107	80	68	70
01/05/2019	49	203	180	108	121	107	47	57
01/06/2019	41	144	140	128	130	119	80	88
01/07/2019	38	139	156	140	143	108	78	84
01/08/2019	36	163	112	104	105	93	61	66
01/09/2019	33	140	136	180	172	78	74	75
01/10/2019	32	139	120	116	117	96	76	79
01/11/2019	28	139	156	156	156	93	83	84
01/12/2019	28	137	120	128	127	124	90	95
01/13/2019	29	143	120	224	208	123	96	100
01/14/2019	27	137	120	124	123	98	80	83
01/15/2019	27	134	140	120	123	100	80	83
01/16/2019	26	134	144	124	127	101	79	82
01/17/2019	26	136	144	116	120	113	91	94
01/18/2019	26	137	184	148	153	116	78	83
01/19/2019	36	181	104	100	101	133	79	87
01/20/2019	44	207	124	128	127	73	64	65
01/21/2019	30	139	124	152	148	79	67	69
01/22/2019	28	139	140	120	123	76	66	67
01/23/2019	27	145	120	120	120	116	79	84
01/24/2019	59	257	168	112	121	66	53	55
01/25/2019	36	171	164	152	154	70	61	62
01/26/2019	33	162	120	100	103	108	61	68
01/27/2019	32	159	116	88	92	108	61	68
01/28/2019	30	155	72	116	110	104	74	78
01/29/2019	30	155	124	104	107	93	85	86
01/30/2019	29	161	136	124	126	127	89	94
01/31/2019	29	144	164	140	144	101	89	91
AVG	34	155	131	124	125	99	73	77

PERMIT SWWPCP - JANUARY 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
01/01/2019		103			
01/02/2019	62	104	70	15	79%
01/03/2019		105			
01/04/2019	69	87	72	14	81%
01/05/2019		98			
01/06/2019		124			
01/07/2019	91	128	98	18	82%
01/08/2019		119			
01/09/2019	67	113	75	20	73%
01/10/2019		87			
01/11/2019		132			
01/12/2019		127			
01/13/2019		135			
01/14/2019	129	131	129	11	91%
01/15/2019		108			
01/16/2019	88	113	92	19	79%
01/17/2019		120			
01/18/2019		130			
01/19/2019		143			
01/20/2019		183			
01/21/2019	71	86	73	22	70%
01/22/2019		94			
01/23/2019	78	101	81	9	89%
01/24/2019		124			
01/25/2019		72			
01/26/2019		119			
01/27/2019		118			
01/28/2019	85	120	90	10	89%
01/29/2019		68			
01/30/2019	86	115	90	9	90%
01/31/2019		137			
AVG	83	114	87	15	82%

DESIGN - 200 MGD

DATE	SWWPCP - JANUARY 2019					PEAK FLOW	RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL			
01/01/2019	51	171	24	246	312	0.09	
01/02/2019	42	145	21	208	236		
01/03/2019	40	145	21	206	222		
01/04/2019	39	157	23	219	301	0.04	
01/05/2019	49	203	28	280	391	0.53	
01/06/2019	41	144	21	206	239		
01/07/2019	38	139	22	199	260	0.02	
01/08/2019	36	163	23	222	315	0.24	
01/09/2019	33	140	20	193	214	0.01	
01/10/2019	32	139	23	194	208	T	
01/11/2019	28	139	21	188	202		
01/12/2019	28	137	21	186	208	0.05	
01/13/2019	29	143	21	193	234	0.07	
01/14/2019	27	137	20	184	206		
01/15/2019	27	134	20	181	198		
01/16/2019	26	134	19	179	195		
01/17/2019	26	136	19	181	200	0.01	
01/18/2019	26	137	19	182	210	0.05	
01/19/2019	36	181	34	251	458	0.61	
01/20/2019	44	207	29	280	399	0.75	
01/21/2019	30	139	19	188	221		
01/22/2019	28	139	20	187	204		
01/23/2019	27	145	18	190	344	0.01	
01/24/2019	59	257	43	359	499	1.27	
01/25/2019	36	171	20	227	242		
01/26/2019	33	162	20	215	244		
01/27/2019	32	159	19	210	241		
01/28/2019	30	155	20	205	232		
01/29/2019	30	155	22	207	235	0.16	
01/30/2019	29	161	23	213	232	0.01	
01/31/2019	29	144	17	190	211		
TOTAL	1,061	4,817	691	6,569		3.92	
AVG	34	155	22	212			
		MIN		179	195		
		MAX		359	499		

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF JANUARY 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
01/02/2019	NM	NM	NM	NM	NM
01/03/2019	0.710	0.887	14.70	16.70	0.166
01/09/2019	0.895	0.756	23.60	19.00	0.252
01/16/2019	0.955	0.606	15.50	22.30	0.250
01/23/2019	0.857	1.320	22.50	21.20	0.240
01/30/2019	0.641	1.050	28.20	23.00	0.180
AVG	0.812	0.924	20.90	20.44	0.218
MAX	0.955	1.320	28.20	23.00	0.252

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
01/09/2019	0.007	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	01/09/2019
Copper	0.0080
Iron Dissolved	0.0710
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0320

Organics Data (mg/L)

Southwest WPCP - Outfall

	01/08/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0037
Tetrachloroethylene	0.0070
Trichloroethylene	< 0.0005

BIOSOLIDS RECYCLE CENTER SLUDGE DEWATERING SUMMARY REPORT

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JANUARY 2019	Sludge Flow To From NEWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT	Sludge Flow To From SWWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT
	MGD	MGD		MGD	MGD	
01/01/2019	-	0.067	10	1.360	1.912	169.1
01/02/2019	0.165	0.000	0	1.070	0.610	48.1
01/03/2019	1.493	1.147	148	1.161	1.131	87.3
01/04/2019	-	0.415	37	1.531	1.578	119.8
01/05/2019	0.839	0.750	83	1.145	1.053	80.0
01/06/2019	0.914	0.822	91	1.124	1.124	85.3
01/07/2019	0.858	0.444	45	1.319	1.319	106.2
01/08/2019	-	0.609	68	1.200	1.636	129.0
01/09/2019	0.892	0.618	65	1.245	0.922	81.9
01/10/2019	0.910	0.483	63	1.175	1.122	104.0
01/11/2019	0.224	0.224	25	1.370	1.370	109.8
01/12/2019	0.660	1.306	137	1.481	1.857	165.8
01/13/2019	0.906	0.943	100	1.421	0.921	65.0
01/14/2019	0.895	0.899	76	1.066	1.152	96.1
01/15/2019	0.898	0.947	94	1.364	1.211	98.5
01/16/2019	0.876	0.876	89	1.214	1.306	111.7
01/17/2019	0.887	0.568	54	1.492	0.948	74.4
01/18/2019	0.345	0.069	7	1.898	2.216	170.1
01/19/2019	0.486	0.482	46	1.169	1.565	111.7
01/20/2019	0.910	1.600	136	1.526	0.974	72.3
01/21/2019	0.843	0.300	26	1.963	2.251	167.2
01/22/2019	0.670	1.008	95	0.804	0.837	60.4
01/23/2019	1.019	0.818	84	1.588	1.459	95.6
01/24/2019	0.949	0.481	39	1.264	1.394	134.3
01/25/2019	-	0.552	41	1.326	1.142	92.9
01/26/2019	0.848	1.046	99	1.307	1.540	145.2
01/27/2019	1.749	1.345	130	1.847	1.695	154.2
01/28/2019	0.841	1.263	122	2.070	2.102	191.2
01/29/2019	-	-	-	1.310	1.678	168.7
01/30/2019	0.909	0.922	92	1.178	0.718	76.4
01/31/2019	0.901	0.208	23	1.523	1.109	97.2
TOTAL	21.886	21.214	2,126	42.510	41.852	3,470
AVERAGE	0.706	0.707	71	1.371	1.350	112

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190221-003
 Report Date: 02/21/2019

SW Daily Composite

WW190102-009

Composite 24h 01/02/2019 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Ammonia	NA			1/1/2000	0:00	NM	mg/L as N		mg/L as N
CBOD20	NA			1/1/2000	0:00	NM	mg/L		mg/L
Nitrate	NA			1/1/2000	0:00	NM	mg/L as N		mg/L as N
Nitrite	NA			1/1/2000	0:00	NM	mg/L as N		mg/L as N
TKN	NA			1/1/2000	0:00	NM	mg/L as N		mg/L as N

Data Qualifiers:

Ammonia	Bottle Leakage
CBOD20	Bottle Leakage
Nitrate	Bottle Leakage
Nitrite	Bottle Leakage
TKN	Bottle Leakage

WW190109-009

Composite 24h 01/09/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	1/24/2019	11:30	1/25/2019	11:07	19.0	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 133%. Acceptance limits are 90-110%.
-----	--

WW190116-009

Composite 24h 01/16/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	1/31/2019	11:05	2/4/2019	11:11	22.3	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 158%. Acceptance limits are 90-110%.
-----	--

WW190123-009

Composite 24h 01/23/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	1/31/2019	11:05	2/4/2019	11:35	21.2	mg/L as N	1.0	mg/L as N

Data Qualifiers:

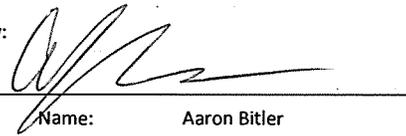
TKN	Laboratory Fortified Matrix (LFM) recovery is 158%. Acceptance limits are 90-110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 2/21/2019



Debra A. McCarty, Water Commissioner

March 27, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for February 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 02/01/2019-02/28/2019

Report Due Date: 03/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 141647

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for February 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **02/01/2019**
 DMR Effective To: **02/28/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	02	01	TO	2019	02	28

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.3	7.0	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	9964	10671	lbs/day	***	6	6	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	22.13	24.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	604	786	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	617	717	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	21.05	23.40	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	387	629	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0022	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0070	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0890	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0350	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	198	356	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	19 .39	***	mg/L	1/day	Grab
	Permit Requirement	***	***		***	5 Avg Mo	10 MAX		***	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.013	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0006	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	13	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	200 Geo Mean	***		1/day	Grab
Facility Parameter Comments		See attached data qualifier report.								
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	5547	6177	lbs/day	***	3	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	26 Avg Mo	40 Wkly Avg		1/day	24-Hr Composite
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	24800	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	35830 Avg Mo	***		***	***	***		2/week	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 02/01/2019
 DMR Effective To: 02/28/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	02	01	TO	2019	02	28

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 02/01/2019
 DMR Effective To: 02/28/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	02	01	TO	2019	02	28

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.10	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	96	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201902.xlsx	Daily Effluent Monitoring Form	2019-03-26T13:24:09-04:00	
SW Daily Grab (03-22-2019).pdf	Laboratory Accreditation Form	2019-03-26T13:27:39-04:00	
BLSSW201902.xlsx	Nutrient Monitoring Form	2019-03-26T13:24:54-04:00	
201902SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-03-26T13:26:45-04:00	
SWCSO 201902.xlsx	CSO Detailed Outfall Report Form	2019-03-26T13:25:49-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. A flow in excess of 300 MGD qualified for permit relief on the 11 th of the month but was not used in compliance reporting. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-695-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
senssm			(215)	685-6258	2019	3	26
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT SWWPCP - FEBRUARY 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
F	02/01/2019	168	143	4	97	5,614		90	2	97.79		2,807		
S	02/02/2019	155	140	8	94	10,342		101	3	97.03		3,878		
Su	02/03/2019	148	113	6	95	7,406		75	4	94.67		4,937		
M	02/04/2019	245	131	4	97	8,173		92	6	93.44		12,260		15
T	02/05/2019	165	229	7	97	9,633		97	5	94.85		6,881		
W	02/06/2019	156	141	7	95	9,107		79	3	96.20		3,903		14
Th	02/07/2019	271	256	7	97	15,840		98	5	94.91		11,314		
F	02/08/2019	169	137	5	96	7,047		80	3	96.24		4,228		
S	02/09/2019	162	164	4	98	5,404		95	4	95.79		5,404		
Su	02/10/2019	235	188	6	97	11,759		79	2	97.47		3,920		
M	02/11/2019	356	152	4	97	11,880		103	2	98.06		5,940		9
T	02/12/2019	197	102	4	96	6,572		88	3	96.58		4,929		
W	02/13/2019	180	123	16	87	24,019		78	5	93.62		7,506		24
Th	02/14/2019	190	115	5	96	7,923		83	3	96.40		4,754		
F	02/15/2019	212	106	3	97	5,304		71	2	97.18		3,536		
S	02/16/2019	217	97	4	96	7,239		78	3	96.14		5,429		
Su	02/17/2019	210	102	3	97	5,254		72	2	97.22		3,503		
M	02/18/2019	195	213	4	98	6,505		89	3	96.64		4,879		12
T	02/19/2019	169	106	3	97	4,228		96	3	96.87		4,228		
W	02/20/2019	174	119	4	97	5,805		72	2	97.21		2,902		14
Th	02/21/2019	165	211	12	94	16,513		78	4	94.85		5,504		
F	02/22/2019	173	116	8	93	11,543		68	3	95.58		4,328		
S	02/23/2019	191	128	5	96	7,965		75	2	97.34		3,186		
Su	02/24/2019	186	133	4	97	6,205		84	4	95.26		6,205		
M	02/25/2019	253	157	5	97	10,550		95	4	95.79		8,440		13
T	02/26/2019	178	90	3	97	4,454		76	2	97.38		2,969		
W	02/27/2019	171	136	5	96	7,131		88	3	96.59		4,278		14
Th	02/28/2019	165	153	4	97	5,504		99	3	96.96		4,128		
F	03/01/2019	254	137	6	96	12,710		104	6	94.23		12,710		
S	03/02/2019	226	118	6	95	11,299		75	4	94.67		7,533		

TOTAL AVERAGE	5,937	4,256	166					2,558	100					
	198	142	6	96		8,964		85	3	96.10		5,547		14

Wk1	188	167	6			8,944		88	4			5,778		
Wk2	227	126	6			10,671		83	3			6,177		
Wk3	182	142	6			8,259		78	3			4,176		
Wk4	205	132	5			8,265		89	4			4,987		

MAX 356

CBOD 20 LBS---- 24,800

NPDES/ LIMIT MO <30 >85 <50,400 <25 >89.25 <19,800
WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - FEBRUARY 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 02/01/2019	168	6.9	6.8	0.15	14
S 02/02/2019	155	7.0	6.6	0.24	13
Su 02/03/2019	148	7.1	6.5	0.05	214
M 02/04/2019	245	7.0	5.9	0.24	31
T 02/05/2019	165	7.1	6.4	0.13	12
W 02/06/2019	156	7.1	6.1	0.14	13
Th 02/07/2019	271	7.0	4.3	0.21	> 2,420
F 02/08/2019	169	7.0	4.5	0.13	5
S 02/09/2019	162	7.1	6.4	0.21	3
Su 02/10/2019	235	6.9	6.4	0.11	6
M 02/11/2019	356	6.9	7.1	0.16	5
T 02/12/2019	197	7.0	9.2	0.19	4
W 02/13/2019	180	6.9	10.4	0.19	12
Th 02/14/2019	190	7.1	6.2	0.23	6
F 02/15/2019	212	7.1	7.2	0.18	6
S 02/16/2019	217	7.0	6.4	0.20	7
Su 02/17/2019	210	7.0	6.7	0.19	4
M 02/18/2019	195	7.0	5.7	0.27	20
T 02/19/2019	169	7.0	6.4	0.25	5
W 02/20/2019	174	7.0	7.2	0.16	16
Th 02/21/2019	165	7.0	8.0	0.28	387
F 02/22/2019	173	7.0	6.2	0.16	11
S 02/23/2019	191	7.0	7.5	0.16	5
Su 02/24/2019	186	7.0	8.0	0.39	8
M 02/25/2019	253	7.1	8.7	0.20	9
T 02/26/2019	178	7.0	9.0	0.10	4
W 02/27/2019	171	7.0	8.4	0.22	8
Th 02/28/2019	165	7.0	8.0	0.23	6
Total Avg	5,937 198	MIN MAX 6.9 7.1	MIN AVG 4.3 7.0	AVG MAX 0.19 0.39	MEAN 13

Wk1 188
Wk2 227
Wk3 182
Wk4 205

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - FEBRUARY 2019

GRAB SAMPLES

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DELCORA	TRIPLE GRAVITY	DELCORA	EAST HIGH LEVEL	PERMIT INFLUENT	DELCORA	EAST HIGH LEVEL	PERMIT INFLUENT
	MGD	MGD						
02/01/2019	19	134	164	140	143	101	89	90
02/02/2019	19	122	200	132	140	108	100	101
02/03/2019	19	115	148	108	113	109	70	75
02/04/2019	30	188	120	132	131	124	87	92
02/05/2019	22	128	180	236	229	97	97	97
02/06/2019	20	122	148	140	141	106	75	79
02/07/2019	34	204	176	268	256	121	95	98
02/08/2019	24	129	120	140	137	91	78	80
02/09/2019	21	127	188	160	164	129	90	95
02/10/2019	26	187	160	192	188	103	76	79
02/11/2019	63	250	192	144	152	140	95	103
02/12/2019	29	150	140	96	102	121	82	88
02/13/2019	24	141	140	120	123	107	74	78
02/14/2019	24	150	108	116	115	113	79	83
02/15/2019	26	167	148	100	106	84	69	71
02/16/2019	29	171	100	96	97	109	73	78
02/17/2019	26	165	120	100	102	92	69	72
02/18/2019	28	151	168	220	213	102	87	89
02/19/2019	24	130	140	100	106	138	89	96
02/20/2019	23	135	140	116	119	96	68	72
02/21/2019	22	128	204	212	211	121	71	78
02/22/2019	22	136	144	112	116	88	65	68
02/23/2019	24	149	152	124	128	104	71	75
02/24/2019	24	145	168	128	133	107	81	84
02/25/2019	34	194	164	156	157	115	92	95
02/26/2019	25	137	128	84	90	97	73	76
02/27/2019	23	132	164	132	136	87	88	88
02/28/2019	23	127	136	156	153	103	98	99
AVG	26	151	152	141	143	108	81	85

PERMIT SWWPCP - FEBRUARY 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
02/01/2019		141			
02/02/2019		117			
02/03/2019		113			
02/04/2019	100	134	104	12	88%
02/05/2019		158			
02/06/2019	85	116	89	13	85%
02/07/2019		151			
02/08/2019		111			
02/09/2019		138			
02/10/2019		126			
02/11/2019	133	175	140	17	88%
02/12/2019		131			
02/13/2019	81	116	86	20	77%
02/14/2019		123			
02/15/2019		96			
02/16/2019		119			
02/17/2019		113			
02/18/2019	117	134	119	16	87%
02/19/2019		148			
02/20/2019	81	105	84	15	82%
02/21/2019		168			
02/22/2019		98			
02/23/2019		113			
02/24/2019		128			
02/25/2019	109	131	112	19	83%
02/26/2019		108			
02/27/2019	95	99	96	14	85%
02/28/2019		126			
AVG	100	126	104	16	84%

DESIGN - 200 MGD

DATE	SWWPCP - FEBRUARY 2019					PEAK FLOW	RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL			
02/01/2019	19	134	15	168	274	0.06	
02/02/2019	19	122	14	155	177		
02/03/2019	19	115	14	148	175		
02/04/2019	30	188	27	245	423		
02/05/2019	22	128	15	165	199	T	
02/06/2019	20	122	14	156	178	0.30	
02/07/2019	34	204	33	271	442	0.06	
02/08/2019	24	129	16	169	198	0.04	
02/09/2019	21	127	14	162	203		
02/10/2019	26	187	22	235	352	0.09	
02/11/2019	63	250	43	356	473	0.26	
02/12/2019	29	150	18	197	227	1.00	
02/13/2019	24	141	15	180	203	0.03	
02/14/2019	24	150	16	190	277		
02/15/2019	26	167	19	212	310		
02/16/2019	29	171	17	217	310		
02/17/2019	26	165	19	210	296	0.21	
02/18/2019	28	151	16	195	258	0.15	
02/19/2019	24	130	15	169	203		
02/20/2019	23	135	16	174	199	0.65	
02/21/2019	22	128	15	165	184	0.01	
02/22/2019	22	136	15	173	250		
02/23/2019	24	149	18	191	325	0.03	
02/24/2019	24	145	17	186	337	0.38	
02/25/2019	34	194	25	253	407		
02/26/2019	25	137	16	178	215		
02/27/2019	23	132	16	171	201		
02/28/2019	23	127	15	165	187	T	
TOTAL	727	4,215	515	5,457		3.27	
AVG	26	151	18	195			
		MIN		148	175		
		MAX		356	473		

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF FEBRUARY 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
02/06/2019	0.533	0.487	23.40	21.70	0.254
02/13/2019	0.453	0.717	17.90	17.10	0.629
02/20/2019	0.645	0.600	24.00	22.00	0.227
02/27/2019	0.786	0.664	23.20	23.40	0.439
AVG	0.604	0.617	22.13	21.05	0.387
MAX	0.786	0.717	24.00	23.40	0.629

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
02/06/2019	0.013	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

	Date	
	02/06/2019	
Copper		0.0070
Iron Dissolved		0.0890
Lead	<	0.0030
Nickel		0.0040
Selenium	<	0.0030
Zinc		0.0350

Organics Data (mg/L)

Southwest WPCP - Outfall

	Date	
	02/05/2019	
1,2-Dichloroethane	<	0.0005
Chloroform		0.0022
Tetrachloroethylene		0.0006
Trichloroethylene	<	0.0005

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

SW Daily Grab

Report: NPW20190322-001
 Report Date: 03/22/2019

WW190203-005

Grab 02/03/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			2/4/2019	8:36	214.3	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.708. The maximum acceptable PCV is 0.577. The measured results were 4.1 MPN/100mL and <1 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	--

WW190215-005

Grab 02/15/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			2/16/2019	8:17	6.3	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.623. The maximum acceptable PCV is 0.577. The measured results were 2.0 MPN/100mL and 8.4 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	---

WW190225-005

Grab 02/25/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			2/26/2019	8:25	8.5	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.628. The maximum acceptable PCV is 0.577. The measured results were 2.0 MPN/100mL and 8.5 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 3/22/2019



Debra A. McCarty, Water Commissioner

April 25, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for March 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 03/01/2019-03/31/2019

Report Due Date: 04/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 146062

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for March 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - MARCH 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
F	03/01/2019	250	131	5	96	10,425		76	2	97.37		4,170		
S	03/02/2019	223	138	6	96	11,159		105	6	94.29		11,159		
Su	03/03/2019	287	117	6	95	14,356		75	4	94.63		9,571		16
M	03/04/2019	270	140	12	91	27,022		96	5	94.81		11,259		
T	03/05/2019	195	117	5	96	8,132		67	3	95.55		4,879		12
W	03/06/2019	192	168	6	96	9,608		66	2	96.98		3,203		
Th	03/07/2019	186	127	7	95	10,859		73	2	97.25		3,102		
F	03/08/2019	185	132	4	97	6,172		104	3	97.11		4,629		10
S	03/09/2019	170	194	5	97	7,089		96	3	96.87		4,253		
Su	03/10/2019	294	200	4	98	9,808		87	4	95.40		9,808		
M	03/11/2019	194	126	11	91	17,798		93	5	94.65		8,090		14
T	03/12/2019	182	119	3	97	4,554		94	3	96.81		4,554		
W	03/13/2019	187	110	3	97	4,679		81	2	97.53		3,119		13
Th	03/14/2019	186	166	7	96	10,859		87	2	97.70		3,102		
F	03/15/2019	200	175	5	97	8,340		94	2	97.87		3,336		
S	03/16/2019	175	288	6	98	8,757		151	3	98.02		4,379		
Su	03/17/2019	179	132	5	96	7,464		95	4	95.80		5,971		
M	03/18/2019	181	129	5	96	7,548		98	4	95.90		6,038		13
T	03/19/2019	176	189	5	97	7,339		96	3	96.86		4,404		
W	03/20/2019	178	169	4	98	5,938		103	2	98.06		2,969		15
Th	03/21/2019	303	166	7	96	17,689		90	2	97.77		5,054		
F	03/22/2019	268	180	7	96	15,646		80	5	93.74		11,176		
S	03/23/2019	191	134	8	94	12,744		80	3	96.23		4,779		
Su	03/24/2019	186	163	9	94	13,961		76	4	94.71		6,205		
M	03/25/2019	206	87	4	95	6,872		69	4	94.24		6,872		9
T	03/26/2019	186	143	6	96	9,307		79	4	94.91		6,205		
W	03/27/2019	187	140	7	95	10,917		81	4	95.04		6,238		16
Th	03/28/2019	181	110	4	96	6,038		87	6	93.14		9,057		
F	03/29/2019	174	169	5	97	7,256		89	4	95.51		5,805		
S	03/30/2019	167	182	8	96	11,142		89	5	94.37		6,964		
Su	03/31/2019	191	168	6	96	9,558		84	6	92.89		9,558		

TOTAL AVERAGE	6,330	4,709	185					2,740	111					
	204	152	6	96		10,291		88	4	95.87		6,126		13

Wk1	212	142	6			11,891		82	3			7,373		
Wk2	203	169	6			9,256		98	3			5,365		
Wk3	211	157	6			10,624		92	3			4,314		
Wk4	184	142	6			9,356		81	4			6,647		

MAX 303

CBOD 20 LBS---- 22,089

NPDES/ LIMIT MO <30 >85 <50,400 <25 >89.25 <19,800
WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - MARCH 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 03/01/2019	250	7.0	7.7	0.09	4
S 03/02/2019	223	7.0	7.8	0.27	12
Su 03/03/2019	287	7.1	7.5	0.22	10
M 03/04/2019	270	7.0	9.6	0.32	16
T 03/05/2019	195	7.0	7.8	0.31	7
W 03/06/2019	192	7.1	6.9	0.12	19
Th 03/07/2019	186	7.1	6.6	0.12	16
F 03/08/2019	185	7.0	8.0	0.20	10
S 03/09/2019	170	7.0	6.4	0.19	10
Su 03/10/2019	294	7.1	7.8	0.31	82
M 03/11/2019	194	7.0	7.6	0.19	2
T 03/12/2019	182	7.0	7.5	0.13	9
W 03/13/2019	187	7.0	7.5	0.13	2
Th 03/14/2019	186	7.1	7.4	0.11	3
F 03/15/2019	200	7.1	6.5	0.13	6
S 03/16/2019	175	7.1	6.1	0.13	19
Su 03/17/2019	179	7.1	6.6	0.08	66
M 03/18/2019	181	7.0	6.5	0.16	236
T 03/19/2019	176	7.0	7.1	0.14	172
W 03/20/2019	178	7.0	7.1	0.09	142
Th 03/21/2019	303	7.1	6.8	0.17	185
F 03/22/2019	268	6.9	7.8	0.46	5
S 03/23/2019	191	7.0	7.2	0.29	42
Su 03/24/2019	186	7.1	7.8	0.11	4
M 03/25/2019	206	7.0	7.4	0.19	10
T 03/26/2019	186	7.0	7.8	0.05	> 2,420
W 03/27/2019	187	7.1	7.0	0.12	27
Th 03/28/2019	181	7.1	7.3	0.05	387
F 03/29/2019	174	7.1	7.0	0.12	548
S 03/30/2019	167	7.0	7.1	0.19	3
Su 03/31/2019	191	6.9	6.9	0.13	1,553
Total Avg	6,330 204	MIN MAX 6.9 7.1	MIN AVG 6.1 7.3	AVG MAX 0.17 0.46	MEAN 26

Wk1 212
Wk2 203
Wk3 211
Wk4 184

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - MARCH 2019

GRAB SAMPLES

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DEL CORA	TRIPLE GRAVITY	DEL CORA	MG/L	PERMIT	DEL CORA	MG/L	PERMIT
	MGD	MGD		EAST HIGH LEVEL	INFLUENT		EAST HIGH LEVEL	INFLUENT
03/01/2019	30	198	180	124	131	92	74	76
03/02/2019	33	173	172	132	138	140	99	105
03/03/2019	39	219	148	112	117	97	71	75
03/04/2019	42	203	160	136	140	109	94	96
03/05/2019	31	149	120	116	117	96	62	67
03/06/2019	29	148	192	164	168	85	63	66
03/07/2019	28	144	192	116	127	111	66	73
03/08/2019	27	144	176	124	132	126	100	104
03/09/2019	26	131	224	188	194	123	91	96
03/10/2019	45	218	224	196	200	147	76	87
03/11/2019	31	149	136	124	126	122	88	93
03/12/2019	29	139	176	108	119	126	88	94
03/13/2019	29	145	188	96	110	113	75	81
03/14/2019	28	145	224	156	166	92	86	87
03/15/2019	28	158	240	164	175	124	89	94
03/16/2019	27	135	308	284	288	158	150	151
03/17/2019	27	138	220	116	132	153	85	95
03/18/2019	26	141	304	100	129	197	81	98
03/19/2019	25	139	460	144	189	166	84	96
03/20/2019	25	140	320	144	169	225	83	103
03/21/2019	35	244	456	128	166	202	75	90
03/22/2019	39	209	344	152	180	173	64	80
03/23/2019	30	147	168	128	134	142	68	80
03/24/2019	29	143	204	156	163	122	67	76
03/25/2019	28	164	104	84	87	79	68	69
03/26/2019	27	146	164	140	143	100	75	79
03/27/2019	29	145	252	120	140	117	74	81
03/28/2019	26	142	340	72	110	144	78	87
03/29/2019	25	136	244	156	169	108	86	89
03/30/2019	26	130	216	176	182	126	82	89
03/31/2019	28	149	472	116	168	139	75	84
AVG	30	158	236	138	152	131	81	88

PERMIT SWWPCP - MARCH 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
03/01/2019		105			
03/02/2019		154			
03/03/2019		128			
03/04/2019	103	117	105	20	81%
03/05/2019		106			
03/06/2019	75	108	80	9	89%
03/07/2019		121			
03/08/2019		158			
03/09/2019		160			
03/10/2019		156			
03/11/2019	98	132	103	26	75%
03/12/2019		136			
03/13/2019		116			
03/14/2019		123			
03/15/2019		146			
03/16/2019		167			
03/17/2019		163			
03/18/2019	87	214	105	18	83%
03/19/2019		199			
03/20/2019	96	259	119	18	85%
03/21/2019		265			
03/22/2019		182			
03/23/2019		151			
03/24/2019		132			
03/25/2019	82	89	83	14	83%
03/26/2019		120			
03/27/2019	100	161	109	15	86%
03/28/2019		155			
03/29/2019		133			
03/30/2019		136			
03/31/2019		193			
AVG	92	151	101	17	83%

DESIGN - 200 MGD

DATE	SWWPCP - MARCH 2019					PEAK FLOW	RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL			
03/01/2019	30	198	22	250	388	0.39	
03/02/2019	33	173	17	223	342	0.31	
03/03/2019	39	219	29	287	489	0.90	
03/04/2019	42	203	25	270	374	0.09	
03/05/2019	31	149	15	195	230		
03/06/2019	29	148	15	192	210	T	
03/07/2019	28	144	14	186	209	T	
03/08/2019	27	144	14	185	319	T	
03/09/2019	26	131	13	170	441		
03/10/2019	45	218	31	294	457	0.89	
03/11/2019	31	149	14	194	235		
03/12/2019	29	139	14	182	229		
03/13/2019	29	145	13	187	212		
03/14/2019	28	145	13	186	283		
03/15/2019	28	158	14	200	301	0.03	
03/16/2019	27	135	13	175	207		
03/17/2019	27	138	14	179	210		
03/18/2019	26	141	14	181	209		
03/19/2019	25	139	12	176	214		
03/20/2019	25	140	13	178	200	T	
03/21/2019	35	244	24	303	399	0.74	
03/22/2019	39	209	20	268	401	0.27	
03/23/2019	30	147	14	191	214		
03/24/2019	29	143	14	186	214		
03/25/2019	28	164	14	206	275	0.14	
03/26/2019	27	146	13	186	212		
03/27/2019	29	145	13	187	218		
03/28/2019	26	142	13	181	218		
03/29/2019	25	136	13	174	199	T	
03/30/2019	26	130	11	167	210		
03/31/2019	28	149	14	191	274	0.09	
TOTAL	927	4,911	492	6,330		3.85	
AVG	30	158	16	204			
		MIN		167	199		
		MAX		303	489		

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
03/04/2019	0.500	0.782	18.60	19.60	0.440
03/06/2019	0.563	1.090	18.40	18.10	0.283
03/08/2019	0.662	0.751	17.80	16.20	0.406
03/13/2019	0.883	1.010	18.70	15.80	0.269
03/20/2019	0.940	0.572	26.70	23.10	0.372
03/27/2019	0.812	0.743	15.60	18.60	0.509
AVG	0.727	0.825	19.30	18.57	0.380
MAX	0.940	1.090	26.70	23.10	0.509

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
03/04/2019	0.023 <	0.050
03/06/2019	0.006 <	0.050
03/08/2019	0.012 <	0.050
AVG	< 0.014 <	0.050 <

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	03/04/2019	03/06/19	03/08/19	AVG
Copper	0.0060	0.0080	0.0230	0.0123
Iron Dissolved	0.1090	0.0720	0.0740	0.0850
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0030	0.0030	0.0040	0.0033
Selenium	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Zinc	0.0400	0.0380	0.0430	0.0403

Organics Data (mg/L)

Southwest WPCP - Outfall

	3/3/2019	3/4/2019	3/5/2019	3/6/2019	3/7/2019	3/8/2019	AVG
1,2-Dichloroethane	< 0.0025 <	0.0025 <	0.0025 <	0.0025 <	0.0050	< 0.0000200	< 0.0030
alpha-Endosulfan	<	0.0000200	<	0.0000200	<	0.0000200	0.0000200
Benzidine	<	0.0005	<	0.0005	<	0.0005	0.0005
beta-BHC	<	0.0000200	<	0.0000200	<	0.0000200	0.0000200
Chlordane	<	0.0005000	<	0.0005000	<	0.0005000	< 0.0005000
Chloroform	0.0016	0.0018	0.0010	0.0017	0.0014	<	0.0015
Dieldrin	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Heptachlor	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Lindane (Gamma-BHC)	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDD	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDE	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDT	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Tetrachloroethylene	0.0006	0.0006	0.0008	0.0015	0.0006	<	0.0008
Trichloroethylene	< 0.0005 <	0.0005 <	0.0005 <	0.0005 <	0.0005 <	<	< 0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

3/8/2019

Toxicity, Ceriodaphnia acute	1
Toxicity, Ceriodaphnia chronic	2
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	4



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **03/01/2019**
 DMR Effective To: **03/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2019	03	01	TO	2019	03	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	6.1	7.3	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	10291	11891	lbs/day	***	6	6	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	19.30	26.70	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	727	940	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	825	1.090	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	18.57	23.10	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.380	.509	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0015	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0123	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0850	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0033	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0403	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	204	303	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	17	.46	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	< 014	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0008	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	26	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	6126	7373	lbs/day	***	4	4	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	22089	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 03/01/2019
 DMR Effective To: 03/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	03	01	TO	2019	03	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 03/01/2019
 DMR Effective To: 03/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	03	01	TO	2019	03	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	95.87	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	96	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201903.xlsx	Daily Effluent Monitoring Form	2019-04-26T08:34:44-04:00	
SW Daily Composite (04-22-2019).pdf	Laboratory Accreditation Form	2019-04-26T08:39:34-04:00	
SW WET Testing Composite (04-22-2019).pdf	Laboratory Accreditation Form	2019-04-26T08:40:26-04:00	
BLSSW201903.xlsx	Nutrient Monitoring Form	2019-04-26T08:36:03-04:00	
201903SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-04-26T08:38:00-04:00	
SWCSO 201903.xlsx	CSO Detailed Outfall Report Form	2019-04-26T08:37:12-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. A flow in excess of 300 MGD qualified for permit relief on the 21st of the month. There were no CSO's caused by plant activities. Please see attachments for data qualifiers.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	4	26
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190422-003
 Report Date: 04/22/2019

SW Daily Composite

WW190320-009

Composite 24h 03/20/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	3/25/2019	10:37	3/29/2019	16:17	23.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 113%. Acceptance limits are 90-110%.
-----	--

WW190327-009

Composite 24h 03/27/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/2/2019	11:10	4/8/2019	11:06	18.6	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 63%. Acceptance limits are 90 to 110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____



Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 4/22/2019



Debra A. McCarty, Water Commissioner

April 25, 2019

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period of January 2019 to March 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 01/01/2019-03/31/2019

Report Due Date: 04/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 146076

Submission Status: Received

Submission Type: Original

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
03/04/2019	0.500	0.782	18.60	19.60	0.440
03/06/2019	0.563	1.090	18.40	18.10	0.283
03/08/2019	0.662	0.751	17.80	16.20	0.406
03/13/2019	0.883	1.010	18.70	15.80	0.269
03/20/2019	0.940	0.572	26.70	23.10	0.372
03/27/2019	0.812	0.743	15.60	18.60	0.509
AVG	0.727	0.825	19.30	18.57	0.380
MAX	0.940	1.090	26.70	23.10	0.509

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
03/04/2019	0.023 <	0.050
03/06/2019	0.006 <	0.050
03/08/2019	0.012 <	0.050
AVG	0.014 <	0.050 <

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	03/04/2019	03/06/19	03/08/19	AVG
Copper	0.0060	0.0080	0.0230	0.0123
Iron Dissolved	0.1090	0.0720	0.0740	0.0850
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0030	0.0030	0.0040	0.0033
Selenium	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Zinc	0.0400	0.0380	0.0430	0.0403

Organics Data (mg/L)

Southwest WPCP - Outfall

	3/3/2019	3/4/2019	3/5/2019	3/6/2019	3/7/2019	3/8/2019	AVG
1,2-Dichloroethane	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0050	<	< 0.0030
alpha-Endosulfan	<	0.0000200	<	0.0000200	<	0.0000200	0.0000200
Benzidine	<	0.0005	<	0.0005	<	0.0005	0.0005
beta-BHC	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Chlordane	<	0.0005000	<	0.0005000	<	0.0005000	< 0.0005000
Chloroform	0.0016	0.0018	0.0010	0.0017	0.0014	<	0.0015
Dieldrin	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Heptachlor	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Lindane (Gamma-BHC)	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDD	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDE	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
p,p'-DDT	<	0.0000200	<	0.0000200	<	0.0000200	< 0.0000200
Tetrachloroethylene	0.0006	0.0006	0.0008	0.0015	0.0006	<	0.0008
Trichloroethylene	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	<	< 0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MARCH 2018

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

3/8/2019

Toxicity, Ceriodaphnia acute	1
Toxicity, Ceriodaphnia chronic	2
Toxicity, Pimphales acute	1
Toxicity, Pimphales chronic	4



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Quarterly
 DMR Effective From: 01/01/2019
 DMR Effective To: 03/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	01	01	TO	2019	03	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Toxicity, Acute - Ceriodaphnia Survival (61425)	Sample Measurement	***	***	***	***	***	1	TUa	1/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite	
Toxicity, Chronic - Ceriodaphnia Survival (61426)	Sample Measurement	***	***	***	***	***	2	TUc	1/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite	
Toxicity, Acute - Pimephales Survival (61427)	Sample Measurement	***	***	***	***	***	1	TUa	1/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite	
Chlordane (61032)	Sample Measurement	***	***	***	***	<.000500	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
alpha-Endosulfan (34361)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
Benzidine (39120)	Sample Measurement	***	***	***	***	.0005	***	mg/L	3/quarter	Grab	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	Grab	
	Facility Parameter Comments	See attached data qualifier report.									
4,4-DDT (39300)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
4,4-DDD (39310)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
4,4-DDE (39320)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
beta-BHC (39336)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
gamma-BHC (Lindane) (39344)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
Dieldrin (39380)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
Heptachlor (39410)	Sample Measurement	***	***	***	***	<.0000200	***	mg/L	3/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/quarter	24-Hr Composite	
Toxicity, Chronic - Pimephales Survival (61428)	Sample Measurement	***	***	***	***	***	4	TUc	1/quarter	24-Hr Composite	
	Permit Requirement	***	***		***	***	Monitor & Report Daily Max		1/quarter	24-Hr Composite	
	Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW WET Testing Composite (04-22-2019).pdf	Laboratory Accreditation Form	2019-04-26T09:02:16-04:00	
BLSSW201903.xlsx	WET Test Summary Report	2019-04-26T09:02:49-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
Quarterly NPDES DMR data as required. Please see attachments for data qualifier reports	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
senssm			(215)	685-6258	2019	4	26
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190422-004
 Report Date: 04/22/2019

SW WET Testing Composite

WW190304-001

Composite 24h 03/04/2019 03:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2-Chloronaphthalene ^{B,D}	EPA 625.1	3/5/2019	17:37	3/7/2019	5:42	<1 ^E	µg/L	1	µg/L

Data Qualifiers:

2-Chloronaphthalene	The recovery of LCS is 58%, which is outside the acceptance limits of 65-120%. Results may have greater uncertainty.
---------------------	--

WW190306-001

Composite 24h 03/06/2019 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
2-Chloronaphthalene ^{B,D}	EPA 625.1	3/15/2019	13:40	3/19/2019	20:04	<1 ^E	µg/L	1	µg/L
bis(2-Chloroisopropyl) ether ^{B,D}	EPA 625.1	3/15/2019	13:40	3/19/2019	20:04	<1 ^E	µg/L	1	µg/L

Data Qualifiers:

2-Chloronaphthalene	The recovery of LCS is 49%, which is outside the acceptance limits of 65-120%. Results may have greater uncertainty.
bis(2-Chloroisopropyl) ether	The recovery of LCS is 48%, which is outside the acceptance limits of 63-139%. Results may have greater uncertainty.

WW190308-020

Composite 24h 03/08/2019 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
4,6-Dinitro-o-cresol ^{B,D}	EPA 625.1	3/12/2019	0:00	3/13/2019	20:16	<1.00 ^E	µg/L	1.00	µg/L
Benzidine ^{B,D}	EPA 625.1	3/12/2019	0:00	3/13/2019	20:16	<5.00 ^E	µg/L	5.00	µg/L
Hexachlorocyclopentadiene ^{B,D}	EPA 625.1	3/12/2019	0:00	3/13/2019	20:16	<1.00 ^E	µg/L	1.00	µg/L

Data Qualifiers:

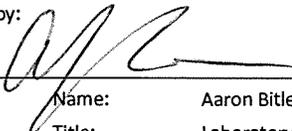
4,6-Dinitro-o-cresol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Benzidine	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.

Hexachlorocyclopentadiene	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard. The recovery of LCS is 83%, which is outside the acceptance limits of 12-71%, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
---------------------------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name: Aaron Bitler
Title: Laboratory Manager
Date: 4/22/2019



Sarah E. Stevenson, Esq., Acting Water Commissioner

May 28, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for April 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 04/01/2019-04/30/2019

Report Due Date: 05/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 150439

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for April 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **04/01/2019**
 DMR Effective To: **04/30/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	04	01	TO	2019	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	5.0	6.3	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	8397	9489	lbs/day	***	5	6	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	25.23	30.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	777	933	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Nitrate as N (00620)	Sample Measurement	***	***	***	***	366	465	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	24.10	26.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	346	659	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0010	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0048	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0080	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0990	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Zinc Total (01092)	Sample Measurement	***	***	***	***	0.0330	***	mg/L	1/month	24-Hr Composite	
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite	
Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite	
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite	
Flow (50050)	Sample Measurement	187	255	MGD	***	***	***	***	Continuous	Metered	
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	Continuous	Metered	
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	24	.38	mg/L	1/day	Grab	
	Permit Requirement	***	***	***	***	5 Avg Mo	1.0 MAX		1/day	Grab	
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.010	***	mg/L	1/month	24-Hr Composite	
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite	
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0006	***	mg/L	1/month	Grab	
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***		1/month	Grab	
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab	
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***		1/month	Grab	
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	10	***	CFU/100 ml	1/day	Grab	
	Permit Requirement	***	***	***	***	200 Geo Mean	***		1/day	Grab	
Facility Parameter Comments		See attached data qualifier report.									
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4922	7943	lbs/day	***	3	5	mg/L	1/day	24-Hr Composite	
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg	***	***	25 Avg Mo	40 Wkly Avg		1/day	24-Hr Composite	
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	20360	***	lbs/day	***	***	***	***	2/week	24-Hr Composite	
	Permit Requirement	32830 Avg Mo	***	***	***	***	***		2/week	24-Hr Composite	
Facility Sampling Point Comments											



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2019
 DMR Effective To: 04/30/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	04	01	TO	2019	04	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2019
 DMR Effective To: 04/30/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	04	01	TO	2019	04	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	96.79	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201904.xlsx	Daily Effluent Monitoring Form	2019-05-28T14:08:53-04:00	
SW Daily Grab (05-21-2019).pdf	Laboratory Accreditation Form	2019-05-28T13:38:13-04:00	
SWCSO 201904.xlsx	CSC Detailed Outfall Report Form	2019-05-28T13:36:35-04:00	
BLSSW201904.xlsx	Nutrient Monitoring Form	2019-05-28T13:35:43-04:00	
201904SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-05-28T13:36:05-04:00	
SW Daily Composite (05-21-2019).pdf	Laboratory Accreditation Form	2019-05-28T13:37:22-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. Please note there is no influent sample data for the second of the month due to the failure of the automatic sampler for the DeCora influent. Also, there is no effluent data for the 5th of the month due to the failure of the automatic sampler at the outfall. Both samplers were repaired on the same day that the failures were reported. All other data indicates that all permit requirements would have been satisfied. There were no CSC's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Sens	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Sens	TELEPHONE		DATE		
			(215)	685-6258	2019	5	28
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT SWWPCP - APRIL 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
Su	03/31/2019	191	168	6	96	9,558		84	6	92.89		9,558		
M	04/01/2019	170	125	3	98	4,252		113	7	93.81		9,921		
T	04/02/2019	165	NS	10	ND	13,761		NS	6	ND		8,257		
W	04/03/2019	171	125	6	95	8,557		78	6	92.55		8,314		18
Th	04/04/2019	175	114	5	96	7,298		88	4	95.45		5,838		13
F	04/05/2019	193	170	NS	ND	ND		93	NS	ND		ND		
S	04/06/2019	173	169	5	97	7,214		112	4	96.44		5,771		
Su	04/07/2019	190	179	6	97	9,508		100	3	97.00		4,754		
M	04/08/2019	185	126	7	94	10,800		137	3	97.82		4,629		12
T	04/09/2019	177	134	4	97	5,905		74	2	97.29		2,952		
W	04/10/2019	174	273	9	97	13,060		111	4	96.39		5,805		16
Th	04/11/2019	178	131	5	96	7,423		73	4	94.50		5,938		
F	04/12/2019	205	244	7	97	11,968		108	2	98.14		3,419		
S	04/13/2019	186	187	5	97	7,756		113	3	97.34		4,654		
Su	04/14/2019	198	126	4	97	6,605		119	3	97.49		4,954		
M	04/15/2019	220	154	6	96	11,009		95	2	97.90		3,670		12
T	04/16/2019	180	201	3	99	4,504		84	3	96.69		4,188		
W	04/17/2019	179	199	7	96	10,450		111	2	98.20		2,986		15
Th	04/18/2019	179	202	7	97	10,450		86	2	97.68		2,986		
F	04/19/2019	221	141	4	97	7,373		76	3	96.04		5,529		
S	04/20/2019	255	130	4	97	8,507		105	3	97.14		6,380		
Su	04/21/2019	179	194	10	95	14,929		87	2	97.71		2,986		
M	04/22/2019	181	124	5	96	7,548		99	2	97.98		3,019		13
T	04/23/2019	181	138	4	97	6,038		90	2	97.23		3,759		
W	04/24/2019	171	155	4	97	5,705		83	3	96.37		4,278		12
Th	04/25/2019	180	188	5	97	7,506		114	2	98.24		3,002		
F	04/26/2019	248	205	6	97	12,410		107	5	95.31		10,342		
S	04/27/2019	171	239	5	98	7,131		87	2	97.70		2,852		
Su	04/28/2019	174	184	4	98	5,812		95	4	95.77		5,812		
M	04/29/2019	173	129	3	98	4,331		110	2	98.18		2,888		12
T	04/30/2019	171	132	4	97	5,705		91	2	97.80		2,852		

TOTAL	5,603	4,817	157					2,839	92					
AVERAGE	187	166	5	97		8,397		98	3	96.79		4,922		14

Wk1	177	145	6			8,440		95	5			7,943		
Wk2	185	182	6			9,489		102	3			4,593		
Wk3	205	165	5			8,414		97	3			4,385		
Wk4	187	178	6			8,752		95	3			4,320		

MAX 255

CBOD 20 LBS---- 20,360

NPDES/
LIMIT MO <30 >85 <50,400 <25 >89.25 <19,800
WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - APRIL 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
M 04/01/2019	170	7.0	6.5	0.23	291
T 04/02/2019	165	7.1	7.2	0.14	1,414
W 04/03/2019	171	7.0	6.7	0.22	12
Th 04/04/2019	175	7.1	6.3	0.31	9
F 04/05/2019	193	7.1	6.8	0.25	3
S 04/06/2019	173	7.0	5.9	0.38	4
Su 04/07/2019	190	7.0	6.1	0.35	6
M 04/08/2019	185	6.9	7.6	0.27	8
T 04/09/2019	177	6.9	6.9	0.17	36
W 04/10/2019	174	7.0	5.8	0.21	3
Th 04/11/2019	178	7.1	7.3	0.20	< 1
F 04/12/2019	205	7.1	6.6	0.20	7
S 04/13/2019	186	7.0	5.0	0.22	5
Su 04/14/2019	198	7.0	5.4	0.34	2
M 04/15/2019	220	7.0	6.1	0.16	> 2,420
T 04/16/2019	180	7.1	5.7	0.22	9
W 04/17/2019	179	7.1	5.6	0.28	7
Th 04/18/2019	179	7.1	5.5	0.27	5
F 04/19/2019	221	7.1	5.6	0.17	3
S 04/20/2019	255	7.0	5.7	0.35	17
Su 04/21/2019	179	7.1	6.5	0.23	6
M 04/22/2019	181	7.0	6.4	0.17	6
T 04/23/2019	181	7.0	6.0	0.21	7
W 04/24/2019	171	7.0	7.1	0.16	1
Th 04/25/2019	180	7.1	6.4	0.18	3
F 04/26/2019	248	7.1	6.8	0.31	29
S 04/27/2019	171	7.0	6.0	0.28	10
Su 04/28/2019	174	7.1	6.8	0.28	2
M 04/29/2019	173	7.1	6.2	0.25	9
T 04/30/2019	171	7.1	5.0	0.12	10
Total Avg	5,603 187	MIN 6.9 MAX 7.1	MIN 5.0 AVG 6.3	AVG 0.24 MAX 0.38	MEAN 10

Wk1 177
Wk2 185
Wk3 205
Wk4 187

NPDES/
LIMIT

EFFLUENT
MIN 6.0
MAX 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - APRIL 2019

GRAB SAMPLES

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DELCOA	TRIPLE GRAVITY	DELCOA	MG/L	PERMIT	DELCOA	MG/L	PERMIT
	MGD	MGD		EAST HIGH LEVEL	INFLUENT		EAST HIGH LEVEL	INFLUENT
04/01/2019	26	132	180	116	125	202	97	113
04/02/2019	25	128	NS	156	NS	NS	79	NS
04/03/2019	25	134	128	124	125	115	72	78
04/04/2019	25	138	128	112	114	105	85	88
04/05/2019	24	156	180	168	170	122	89	93
04/06/2019	25	135	120	176	169	127	110	112
04/07/2019	26	149	172	180	179	137	94	100
04/08/2019	25	147	164	120	126	121	140	137
04/09/2019	27	138	144	132	134	84	72	74
04/10/2019	29	133	236	280	273	144	104	111
04/11/2019	28	137	124	132	131	114	65	73
04/12/2019	29	162	204	252	244	143	102	108
04/13/2019	30	144	132	196	187	149	106	113
04/14/2019	36	148	152	120	126	135	116	119
04/15/2019	39	165	160	152	154	125	89	95
04/16/2019	33	135	208	200	201	125	75	84
04/17/2019	30	138	212	196	199	140	105	111
04/18/2019	28	139	236	196	202	153	74	86
04/19/2019	30	175	188	132	141	113	70	76
04/20/2019	40	194	140	128	130	153	96	105
04/21/2019	31	136	240	188	194	156	73	87
04/22/2019	30	139	184	112	124	155	88	99
04/23/2019	29	140	172	132	138	121	84	90
04/24/2019	25	134	200	148	155	109	78	83
04/25/2019	24	143	188	188	188	137	110	114
04/26/2019	29	199	230	200	205	142	102	107
04/27/2019	26	132	228	240	239	120	81	87
04/28/2019	25	133	160	188	184	134	88	95
04/29/2019	23	135	112	132	129	122	108	110
04/30/2019	23	135	208	120	132	130	85	91
						147		
AVG	28	145	177	164	166	133	91	98

PERMIT SWWPCP - APRIL 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
04/01/2019		264			
04/02/2019		NS			
04/03/2019	85	125	91	17	81%
04/04/2019		134			
04/05/2019	98	131	102	NS	ND
04/06/2019		141			
04/07/2019		148			
04/08/2019	153	155	153	22	86%
04/09/2019		109			
04/10/2019	112	153	119	24	80%
04/11/2019		125			
04/12/2019		153			
04/13/2019		159			
04/14/2019		149			
04/15/2019	130	142	132	13	90%
04/16/2019		134			
04/17/2019	115	150	121	18	85%
04/18/2019		156			
04/19/2019		139			
04/20/2019		163			
04/21/2019		165			
04/22/2019	98	166	109	19	83%
04/23/2019		132			
04/24/2019	88	119	93	17	82%
04/25/2019		170			
04/26/2019		152			
04/27/2019		186			
04/28/2019		145			
04/29/2019	116	147	120	18	85%
04/30/2019		140			
AVG	111	150	116	19	84%

DESIGN - 200 MGD

DATE	SWWPCP - APRIL 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
04/01/2019	26	132	12	170	196	
04/02/2019	25	128	12	165	197	
04/03/2019	25	134	12	171	197	
04/04/2019	25	138	12	175	203	
04/05/2019	24	156	13	193	295	0.10
04/06/2019	25	135	13	173	195	
04/07/2019	26	149	15	190	318	0.01
04/08/2019	25	147	13	185	266	0.14
04/09/2019	27	138	12	177	359	0.02
04/10/2019	29	133	12	174	199	
04/11/2019	28	137	13	178	203	
04/12/2019	29	162	14	205	308	0.23
04/13/2019	30	144	12	186	267	0.05
04/14/2019	36	148	14	198	403	0.01
04/15/2019	39	165	16	220	363	0.65
04/16/2019	33	135	12	180	208	
04/17/2019	30	138	11	179	216	
04/18/2019	28	139	12	179	210	
04/19/2019	30	175	16	221	400	0.42
04/20/2019	40	194	21	255	430	0.56
04/21/2019	31	136	12	179	208	T
04/22/2019	30	139	12	181	204	0.01
04/23/2019	29	140	12	181	202	T
04/24/2019	25	134	12	171	198	
04/25/2019	24	143	13	180	289	T
04/26/2019	29	199	20	248	424	0.78
04/27/2019	26	132	13	171	204	
04/28/2019	25	133	16	174	204	T
04/29/2019	23	135	15	173	196	0.04
04/30/2019	23	135	13	171	191	T
TOTAL	845	4,353	405	5,603		3.02
AVG	28	145	14	187		
		MIN		165	191	
		MAX		255	430	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF APRIL 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
04/03/2019	0.933	0.465	30.00	25.20	0.658
04/10/2019	0.698	<0.500	24.70	24.10	0.365
04/17/2019	0.676	0.366	26.90	26.00	0.237
04/24/2019	0.802	0.266	19.30	21.10	0.124
AVG	0.777	0.366	25.23	24.10	0.346
MAX	0.933	0.465	30.00	26.00	0.658

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
04/10/2019	0.010	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	04/10/2019
Copper	0.0080
Iron Dissolved	0.0990
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0330

Organics Data (mg/L)

Southwest WPCP - Outfall

	04/09/2019
1,2-Dichloroethane	< 0.0010
Chloroform	0.0048
Tetrachloroethylene	0.0006
Trichloroethylene	< 0.0005

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190521-006
 Report Date: 05/21/2019

SW Daily Composite

WW190410-009

Composite 24h 04/10/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Nitrate	EPA 300.0 rev 2.1			4/12/2019	6:04	<0.500	mg/L as N	0.25	mg/L as N
Nitrite	EPA 300.0 rev 2.1			4/12/2019	6:04	0.698	mg/L as N	0.05	mg/L as N
TKN	SM 4500 Norg D	4/12/2019	10:27	4/15/2019	11:55	24.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

Nitrate	Laboratory Fortified Matrix (LFM) recovery is 111%. Acceptance limits are 90 to 110%.
Nitrite	Laboratory Fortified Matrix (LFM) recovery is 53%. Acceptance limits are 90 to 110%.
TKN	Laboratory Fortified Matrix (LFM) recovery is 115%. Acceptance limits are 90 to 110%.

WW190424-009

Composite 24h 04/24/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
TKN	SM 4500 Norg D	4/30/2019	12:02	5/1/2019	13:08	21.1	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 87.5%. Acceptance limits are 90 to 110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____

Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 5/21/2019

Philadelphia Water Department
 Bureau of Laboratory Services
 1500 E. Hunting Park Avenue
 Philadelphia, PA 19124

Report prepared for:
 PADEP
 2 East Main Street
 Norristown, PA 19401

Report: NPW20190521-007
 Report Date: 05/21/2019

SW Daily Grab

WW190402-005

Grab 04/02/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			4/3/2019	8:26	1413.6	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.7160. The maximum acceptable PCV is 0.577. The measured results were 1.0 MPN/100mL and 5.2 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	--

WW190403-005

Grab 04/03/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			4/4/2019	8:44	12.1	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.7160. The maximum acceptable PCV is 0.577. The measured results were 1.0 MPN/100mL and 5.2 MPN/100mL. PCV 0.556 was exceeded due to low values in samples.
---	--

WW190412-005

Grab 04/12/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18 /Quantitray			4/13/2019	7:40	7.4	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.869. The maximum acceptable PCV is 0.577. The measured results were 7.4 MPN/100mL and <1 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	--

WW190423-005

Grab 04/23/2019 06:40

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units
Coliforms Fecal (Colilert-18/Quanti-Tray)	Colilert 18/Quantitr			4/24/2019	8:17	7.4	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.869. The maximum acceptable PCV is 0.577. The measured results were 1.0 MPN/100mL and 7.4 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: _____


Name: Aaron Bitler
Title: Laboratory Manager
Date: 5/21/2019



Randy E. Hayman, Water Commissioner

June 28, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for May 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 05/01/2019-05/31/2019

Report Due Date: 06/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 153779

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for May 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **05/01/2019**
 DMR Effective To: **05/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	05	01	TO	2019	05	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	4.1	5.7	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	8720	11895	lbs/day	***	5	6	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	16.86	19.30	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	626	730	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	343	704	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	19.78	23.90	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.206	.246	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0034	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0070	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0700	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0310	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Flow (50050)	Sample Measurement	196	343	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		***	Continuous
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	23	.33	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		1.0 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.010	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	9	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	4059	5883	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	18000 Avg Mo	29700 Wkly Avg		***	***	20 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	18113	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	36600 Avg Mo	***		***	***	***		***	2/week
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1 discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA,
19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.24	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
BLSSW201905.xlsx	Nutrient Monitoring Form	2019-06-26T09:48:21-04:00	
SWCSC 201904.xlsx	CSO Detailed Outfall Report Form	2019-06-26T09:49:13-04:00	
201905SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-06-26T09:48:47-04:00	
E-NPDES SW201905.xlsx	Daily Effluent Monitoring Form	2019-06-26T09:53:45-04:00	
SW Daily Composite (06-21-2019).pdf	Laboratory Accreditation Form	2019-06-26T09:47:12-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Flows in excess of 300 MGD qualified for permit relief on the 6th, 13th, and 14th of the month but were not used in compliance reporting. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-695-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
senssm			(215)	685-6258	2019	6	26
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT SWWPCP - MAY 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
W 05/01/2019	168	135	8	94	11,209		93	2	97.85		2,802		8	
Th 05/02/2019	167	135	8	94	11,142		95	2	97.90		2,786			
F 05/03/2019	166	229	7	97	9,691		81	2	97.53		2,769			
S 05/04/2019	166	182	5	97	6,922		80	2	97.48		2,769			
Su 05/05/2019	161	144	3	98	4,028		98	2	97.96		2,685			
M 05/06/2019	310	177	12	93	31,025		102	5	95.08		12,927		15	
T 05/07/2019	193	58	4	93	6,438		97	2	97.93		3,219			
W 05/08/2019	205	235	5	98	8,549		106	3	97.18		5,129		10	
Th 05/09/2019	201	117	5	96	8,382		84	2	97.63		3,353			
F 05/10/2019	167	233	5	98	6,964		95	2	97.90		2,786			
S 05/11/2019	172	180	5	97	7,172		94	2	97.88		2,869			
Su 05/12/2019	191	230	3	99	4,779		82	2	97.56		3,186			
M 05/13/2019	322	208	10	95	26,855		56	5	91.06		13,427		13	
T 05/14/2019	343	135	5	96	14,303		62	4	93.56		11,442			
W 05/15/2019	219	75	4	95	7,306		57	2	96.47		3,653		6	
Th 05/16/2019	197	136	5	96	8,215		82	2	97.57		3,286			
F 05/17/2019	187	206	10	95	15,596		82	2	97.56		3,119			
S 05/18/2019	184	171	4	98	6,138		84	2	97.63		3,069			
Su 05/19/2019	176	200	6	97	8,807		109	2	98.16		2,936			
M 05/20/2019	177	93	2	98	2,952		102	3	97.06		4,429		8	
T 05/21/2019	169	158	4	97	5,638		108	2	98.15		2,819			
W 05/22/2019	175	145	3	98	4,379		88	3	96.57		4,379		10	
Th 05/23/2019	172	282	4	99	5,738		126	2	98.41		2,869			
F 05/24/2019	191	181	4	98	6,372		106	2	98.11		3,186			
S 05/25/2019	169	148	4	97	5,638		73	2	97.25		2,819			
Su 05/26/2019	164	176	7	96	9,574		82	2	97.56		2,736			
M 05/27/2019	164	131	4	97	5,471		94	2	97.87		2,736		7	
T 05/28/2019	162	217	5	98	6,755		100	2	98.00		2,702			
W 05/29/2019	211	175	2	99	3,519		113	1	99.12		1,760		8	
Th 05/30/2019	217	210	3	99	5,429		80	2	97.49		3,620			
F 05/31/2019	213	106	3	97	5,329		69	2	97.11		3,553			
S 06/01/2019	183	103	3	97	4,584		80	2	97.50		3,056			

TOTAL AVERAGE	6,079 196	5,209 168	159 5	97	8,720		2,779 90	72 2	97.24		4,059		9
---------------	--------------	--------------	----------	----	-------	--	-------------	---------	-------	--	-------	--	---

Wk1	201	163	6		10,365		97	3			4,710		
Wk2	235	166	6		11,885		72	3			5,883		
Wk3	176	172	4		5,646		101	2			3,348		
Wk4	188	160	4		5,809		88	2			2,880		

MAX 343

CBOD 20 LBS---- 18,113

NPDES/
LIMIT MO <30 >85 <50,400 <25 >89.25 <19,800
WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - MAY 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
W 05/01/2019	168	7.1	5.2	0.16	27
Th 05/02/2019	167	7.0	5.0	0.25	36
F 05/03/2019	166	7.1	5.1	0.22	8
S 05/04/2019	166	7.0	5.0	0.19	10
Su 05/05/2019	161	7.1	4.1	0.26	12
M 05/06/2019	310	7.0	6.4	0.33	7
T 05/07/2019	193	7.1	6.7	0.25	3
W 05/08/2019	205	7.1	6.0	0.27	> 2,420
Th 05/09/2019	201	7.0	6.1	0.17	1
F 05/10/2019	167	7.1	6.1	0.18	2
S 05/11/2019	172	6.9	5.1	0.17	3
Su 05/12/2019	191	6.9	6.2	0.33	6
M 05/13/2019	322	6.9	5.4	0.31	3
T 05/14/2019	343	6.9	6.2	0.31	3
W 05/15/2019	219	7.0	5.5	0.31	10
Th 05/16/2019	197	7.0	5.4	0.24	11
F 05/17/2019	187	7.1	5.0	0.23	24
S 05/18/2019	184	7.1	4.9	0.18	20
Su 05/19/2019	176	6.9	6.0	0.22	9
M 05/20/2019	177	7.0	9.6	0.17	7
T 05/21/2019	169	7.0	6.0	0.24	4
W 05/22/2019	175	6.9	6.8	0.28	2,420
Th 05/23/2019	172	7.0	6.4	0.15	11
F 05/24/2019	191	6.9	6.2	0.08	5
S 05/25/2019	169	6.9	6.2	0.07	5
Su 05/26/2019	164	7.0	4.5	0.08	5
M 05/27/2019	164	7.0	4.9	0.32	3
T 05/28/2019	162	7.0	5.0	0.31	4
W 05/29/2019	211	7.0	4.6	0.32	6
Th 05/30/2019	217	6.9	5.0	0.22	3
F 05/31/2019	213	6.9	5.0	0.23	6
Total Avg	6,079 196	MIN MAX 6.9 7.1	MIN AVG 4.1 5.7	AVG MAX 0.23 0.33	MEAN 9

Wk1 201
Wk2 235
Wk3 176
Wk4 188

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - MAY 2019

GRAB SAMPLES

	FLOW		SUSPENDED SOLIDS			CBOD5		
	DEL CORA	TRIPLE GRAVITY	DEL CORA	EAST HIGH	PERMIT	DEL CORA	EAST HIGH	PERMIT
	MGD	MGD		MG/L	LEVEL		MG/L	LEVEL
05/01/2019	23	132	156	132	135	137	86	93
05/02/2019	22	134	156	132	135	150	87	95
05/03/2019	23	132	208	232	229	150	70	81
05/04/2019	22	133	248	172	182	109	75	80
05/05/2019	22	128	96	152	144	129	93	98
05/06/2019	28	251	312	164	177	158	96	102
05/07/2019	30	150	24	64	58	122	92	97
05/08/2019	29	160	180	244	235	133	102	106
05/09/2019	29	157	172	108	117	111	80	84
05/10/2019	24	135	236	232	233	162	84	95
05/11/2019	24	135	180	180	180	116	91	94
05/12/2019	25	152	188	236	230	134	74	82
05/13/2019	48	244	208	208	208	84	51	56
05/14/2019	62	249	148	132	135	81	58	62
05/15/2019	38	167	128	64	75	55	57	57
05/16/2019	32	152	180	128	136	88	81	82
05/17/2019	29	145	196	208	206	110	77	82
05/18/2019	26	145	212	164	171	141	75	84
05/19/2019	26	138	244	192	200	130	105	109
05/20/2019	26	139	124	88	93	142	95	102
05/21/2019	25	132	192	152	158	130	104	108
05/22/2019	24	138	180	140	145	116	83	88
05/23/2019	24	136	292	280	282	162	120	126
05/24/2019	24	153	212	176	181	117	104	106
05/25/2019	23	133	224	136	148	90	70	73
05/26/2019	23	128	228	168	176	113	77	82
05/27/2019	23	128	200	120	131	136	87	94
05/28/2019	23	127	224	216	217	136	94	100
05/29/2019	26	167	200	172	175	156	107	113
05/30/2019	26	173	164	216	210	93	78	80
05/31/2019	26	173	152	100	106	92	66	69
AVG	28	154	189	165	168	122	84	90

PERMIT SWWPCP - MAY 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
05/01/2019	96	147	103	20	81%
05/02/2019		159			
05/03/2019		160			
05/04/2019		135			
05/05/2019		138			
05/06/2019	106	168	112	20	82%
05/07/2019		131			
05/08/2019	111	143	116	17	85%
05/09/2019		120			
05/10/2019		172			
05/11/2019		126			
05/12/2019		143			
05/13/2019	61	140	73	25	66%
05/14/2019		90			
05/15/2019	66	76	68	9	87%
05/16/2019		129			
05/17/2019		120			
05/18/2019		152			
05/19/2019		171			
05/20/2019	111	161	118	13	89%
05/21/2019		173			
05/22/2019	115	150	120	25	79%
05/23/2019		173			
05/24/2019		124			
05/25/2019		117			
05/26/2019		128			
05/27/2019	99	142	105	18	83%
05/28/2019		169			
05/29/2019		165			
05/30/2019		108			
05/31/2019		121			
AVG	96	140	102	18	81%

DESIGN - 200 MGD

DATE	SWWPCP - MAY 2019					PEAK FLOW	RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL			
05/01/2019	23	132	13	168	191		
05/02/2019	22	134	11	167	193		
05/03/2019	23	132	11	166	194		T
05/04/2019	22	133	11	166	366		T
05/05/2019	22	128	11	161	244		1.06
05/06/2019	28	251	31	310	450		
05/07/2019	30	150	13	193	212		0.14
05/08/2019	29	160	16	205	336		0.46
05/09/2019	29	157	15	201	276		0.02
05/10/2019	24	135	8	167	195		0.01
05/11/2019	24	135	13	172	193		0.15
05/12/2019	25	152	14	191	364		1.02
05/13/2019	48	244	30	322	465		0.93
05/14/2019	62	249	32	343	481		0.01
05/15/2019	38	167	14	219	291		T
05/16/2019	32	152	13	197	225		T
05/17/2019	29	145	13	187	223		0.07
05/18/2019	26	145	13	184	207		
05/19/2019	26	138	12	176	205		
05/20/2019	26	139	12	177	204		
05/21/2019	25	132	12	169	215		
05/22/2019	24	138	13	175	189		
05/23/2019	24	136	12	172	191		0.50
05/24/2019	24	153	14	191	271		0.06
05/25/2019	23	133	13	169	196		0.03
05/26/2019	23	128	13	164	188		0.12
05/27/2019	23	128	13	164	199		
05/28/2019	23	127	12	162	192		0.35
05/29/2019	26	167	18	211	362		0.20
05/30/2019	26	173	18	217	372		0.09
05/31/2019	26	173	14	213	303		
TOTAL	855	4,766	458	6,079			5.22
AVG	28	154	15	196			
		MIN		161	188		
		MAX		343	481		

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF MAY 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
05/02/2019	0.730	0.238	18.60	20.60	0.246
05/09/2019	0.474	< 0.250	17.70	23.90	0.212
05/16/2019	0.708	0.704	10.10	9.21	0.188
05/23/2019	0.651	0.256	19.30	23.00	0.218
05/30/2019	0.567	0.268	18.60	22.20	0.167
AVG	0.626	0.343	16.86	19.78	0.206
MAX	0.730	0.704	19.30	23.90	0.246

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
05/08/2019	0.010	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	05/08/2019
Copper	0.0070
Iron Dissolved	0.0700
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0030
Zinc	0.0310

Organics Data (mg/L)

Southwest WPCP - Outfall

	05/07/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0034
Tetrachloroethylene	0.0005
Trichloroethylene	< 0.0005

BIOSOLIDS RECYCLE CENTER SLUDGE DEWATERING SUMMARY REPORT

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
MAY 2019	Sludge Flow To From NEWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT	Sludge Flow To From SWWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT
	MGD	MGD		MGD	MGD	
05/01/2019	0.881	0.795	86	1.278	1.575	193.5
05/02/2019	0.855	0.858	83	1.726	1.697	177.6
05/03/2019	1.714	1.784	163	1.303	1.113	108.5
05/04/2019	0.838	0.719	74	1.030	1.208	111.3
05/05/2019	0.839	0.967	89	1.949	1.861	167.1
05/06/2019	0.859	0.850	78	1.369	1.633	146.6
05/07/2019	0.854	0.835	75	1.476	1.367	99.2
05/08/2019	0.809	0.858	78	1.464	1.140	87.8
05/09/2019	0.823	0.553	51	0.810	1.069	86.8
05/10/2019	-	0.233	22	1.178	1.023	92.9
05/11/2019	0.889	0.636	58	1.958	2.526	186.8
05/12/2019	0.853	0.745	59	1.402	1.369	124.6
05/13/2019	0.895	1.210	80	0.618	0.020	1.1
05/14/2019	-			0.478	0.388	33.1
05/15/2019	-	0.068	7	1.528	1.881	204.3
05/16/2019	0.861	0.608	61	1.386	1.639	131.3
05/17/2019	0.904	1.130	111	2.360	2.098	177.4
05/18/2019	0.843	0.564	46	1.580	1.694	137.3
05/19/2019	-	0.316	29	1.848	1.807	159.3
05/20/2019	0.864	0.713	61	1.818	1.612	156.0
05/21/2019	0.853	0.977	91	1.686	1.655	140.9
05/22/2019	0.883	0.869	82	1.371	1.165	95.4
05/23/2019	0.847	0.809	80	0.598	0.385	34.1
05/24/2019	0.866	0.934	87	1.595	2.186	152.6
05/25/2019	0.850	0.813	74	1.724	1.802	140.1
05/26/2019	0.856	0.901	79	0.959	0.435	32.5
05/27/2019	-	(0.000)	-	1.715	1.968	164.8
05/28/2019	0.755	1.130	115	1.356	1.682	120.9
05/29/2019	0.791	0.791	83	1.833	1.690	164.4
05/30/2019	0.753	0.515	51	1.525	1.324	131.6
05/31/2019	0.761	1.009	94	1.325	1.170	125.9
TOTAL	22.794	23.193	2,148	44.246	44.184	3,886
AVERAGE	0.735	0.773	72	1.427	1.425	125

SW Daily Composite

Report Date: 06/21/2019

WW190515-004

SW123E

Composite 24h 05/15/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
TKN	SM 4500 Norg D	5/16/2019	9:50	5/17/2019	9:47	9.21 ^E	mg/L as N	1.0	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 88.5%. Acceptance limits are 90 to 110%.
-----	--

WW190522-009

SW123E

Composite 24h 05/22/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Nitrate	EPA 300.0 rev 2.1			5/22/2019	14:54	0.256	mg/L as N	0.25	mg/L as N
TKN	SM 4500 Norg D	5/30/2019	10:47	6/3/2019	9:54	23	mg/L as N	1.0	mg/L as N

Data Qualifiers:

Nitrate	Laboratory Fortified Matrix (LFM) recovery is 89%. Acceptance limits are 90 to 110%.
TKN	Laboratory Fortified Matrix (LFM) recovery is 85.0%. Acceptance limits are 90 to 110%.

WW190529-009

SW123E

Composite 24h 05/29/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
TKN	SM 4500 Norg D	5/30/2019	10:47	6/3/2019	10:07	22.2	mg/L as N	1.0	mg/L as N

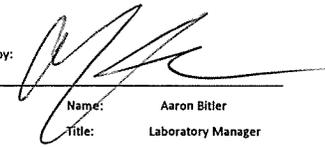
Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 85.0%. Acceptance limits are 90 to 110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 6/21/2019



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **06/01/2019**
 DMR Effective To: **06/30/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	06	01	TO	2019	06	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	3.7	5.2	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	6329	8506	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	16.89	21.00	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	615	864	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	287	336	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	21.28	23.70	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	Please see attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.195	.239	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0034	***	mg/L	4/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0050	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0750	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0043	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0257	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total (01147)	Sample Measurement	***	***	***	***	<.0130	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***	***	1/month	24-Hr Composite
Flow (50050)	Sample Measurement	190	308	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	23	.43	mg/L	1/day	Grab
	Permit Requirement	***	***	***	***	5	MAX	***	1/day	Grab
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.010	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***	***	1/month	24-Hr Composite
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***	***	1/month	Grab
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	4/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	***	***	1/month	Grab
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	8	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***	***	***	200	Geo Mean	***	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Facility Parameter Comments	See attached data qualifier report.								
	Sample Measurement	3622	4685	lbs/day	***	2	3	mg/L	1/day	24 Hr Composite
	Permit Requirement	49850 Avg Mo	29,000 Wkly Avg	***	***	25	40 Wkly Avg	***	1/day	24 Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	12905	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	32820 Avg Mo	***	***	***	***	***	***	2/week	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2019
 DMR Effective To: 06/30/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	06	01	TO	2019	06	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	---	---	---	---	---	---	S U	Daily when Discharging	Grab
	Permit Requirement	---	---	---	Monitor & Report Inst Min	---	Monitor & Report IMAX	---		
Flow (50050)	Sample Measurement	---	---	MGD	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	---	---	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	---	---	---	---	---	Monitor & Report IMAX	---		
Duration of Discharge (81381)	Sample Measurement	---	---	minutes	---	---	---	---	1x Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	---	---	---	---	---	---		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2019
 DMR Effective To: 06/30/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	06	01	TO	2019	06	30

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.10	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201906.xlsx	Daily Effluent Monitoring Form	2019-07-26T09:30:42-04:00	
SW Daily Grab (07-22-2019).pdf	Laboratory Accreditation Form	2019-07-26T09:29:42-04:00	
SW WET Testing Composite (07-22-2019).pdf	Laboratory Accreditation Form	2019-07-26T09:28:56-04:00	
BLSSW201906.xlsx	Nutrient Monitoring Form	2019-07-26T09:31:13-04:00	
201906SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-07-26T09:30:12-04:00	
SWCSO 201906.xlsx	CSO Detailed Outfall Report Form	2019-07-26T09:31:43-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES requirements were met during the month. A flow in excess of 300 MGD qualified for permit relief on the 14th and 21st of the month but was not used in compliance reporting. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	7	26
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



Randy E. Hayman, Water Commissioner

August 28, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for July 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 07/01/2019-07/31/2019

Report Due Date: 08/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 164143

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for July 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT SWWPCP - JULY 2019 COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
S 06/30/2019	181	179	2	99	3,019		75	<	2	97.34		3,019		
M 07/01/2019	162	161	4	98	5,404		86	<	2	97.66		2,702		
T 07/02/2019	163	132	4	97	5,438		83	<	2	97.60		2,719		12
W 07/03/2019	190	135	4	97	6,338		98		2	97.97		3,169		
Th 07/04/2019	180	165	3	98	4,504		73	<	2	97.25		3,002		8
F 07/05/2019	181	167	5	97	7,548		79	<	2	97.46		3,019		
S 07/06/2019	187	231	4	98	6,238		102	<	2	98.05		3,119		
Su 07/07/2019	269	184	5	97	11,217		75		2	97.33		4,487		
M 07/08/2019	193	140	5	96	8,048		82		2	97.57		3,219		8
T 07/09/2019	200	119	6	95	10,008		77		2	97.39		3,336		
W 07/10/2019	173	147	5	97	7,214		92	<	2	97.83		2,886		8
Th 07/11/2019	166	364	7	98	9,691		143		2	98.60		2,769		
F 07/12/2019	262	194	4	98	8,740		97		3	96.91		6,555		
S 07/13/2019	207	119	5	96	8,632		68	<	2	97.04		3,453		
Su 07/14/2019	169	182	5	97	7,047		65	<	2	96.91		2,819		
M 07/15/2019	170	241	5	98	7,089		99		2	97.97		2,836		8
T 07/16/2019	163	232	4	98	5,438		93		2	97.84		2,719		
W 07/17/2019	181	321	5	98	7,548		127		2	98.43		3,019		7
Th 07/18/2019	193	184	3	98	4,829		94		2	97.87		3,219		
F 07/19/2019	222	214	5	98	9,257		60		2	96.68		3,703		
S 07/20/2019	174	166	4	98	5,805		75	<	2	97.32		2,902		
Su 07/21/2019	173	123	2	98	2,886		83	<	2	97.59		2,886		
M 07/22/2019	165	152	5	97	6,881		102		1	99.02		1,376		7
T 07/23/2019	210	254	3	99	5,254		83		2	97.59		3,503		
W 07/24/2019	272	100	3	97	6,805		59		2	96.63		4,537		7
Th 07/25/2019	179	161	5	97	7,464		83	<	2	97.59		2,986		
F 07/26/2019	170	192	6	97	8,507		78		2	97.42		2,836		
S 07/27/2019	161	226	7	97	9,399		98		2	97.96		2,685		
Su 07/28/2019	161	118	7	94	9,399		77		2	97.41		2,685		
M 07/29/2019	162	212	7	97	9,458		91		2	97.81		2,702		8
T 07/30/2019	167	212	7	97	9,749		105		2	98.09		2,786		
W 07/31/2019	159	133	6	95	7,956		79		2	97.46		2,652		9
TOTAL														
AVERAGE														
	5,784	5,679	150							2,704	62			
	187	183	5	97	7,413		87		2	97.62		3,138		8

Wk1	178	167	4		5,498		85		2			2,964		
Wk2	210	181	5		9,079		90		2			3,815		
Wk3	182	220	4		6,716		87		2			3,031		
Wk4	190	173	4		6,742		84		2			2,973		

MAX 272

CBOD 20 LBS---- 12,291

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - JULY 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
M 07/01/2019	162	7.1	4.7	0.25	7
T 07/02/2019	163	6.9	4.6	0.23	11
W 07/03/2019	190	7.0	5.4	0.07	10
Th 07/04/2019	180	6.9	5.4	0.07	9
F 07/05/2019	181	6.9	6.0	0.18	9
S 07/06/2019	187	6.9	5.6	0.22	10
Su 07/07/2019	269	6.9	6.2	0.23	11
M 07/08/2019	193	7.0	6.4	0.12	8
T 07/09/2019	200	7.0	5.6	0.10	12
W 07/10/2019	173	7.1	4.5	0.22	6
Th 07/11/2019	166	7.0	4.8	0.20	17
F 07/12/2019	262	6.9	4.2	0.29	19
S 07/13/2019	207	6.9	4.9	0.09	11
Su 07/14/2019	169	7.0	4.4	0.16	25
M 07/15/2019	170	7.1	4.3	0.24	32
T 07/16/2019	163	7.0	4.2	0.18	22
W 07/17/2019	181	6.9	2.9	0.15	16
Th 07/18/2019	193	6.9	3.7	0.14	24
F 07/19/2019	222	6.9	5.4	0.21	15
S 07/20/2019	174	6.9	5.6	0.10	5
Su 07/21/2019	173	7.1	5.4	0.15	8
M 07/22/2019	165	6.9	5.4	0.18	6
T 07/23/2019	210	6.9	5.6	0.40	9
W 07/24/2019	272	6.9	5.7	0.12	4
Th 07/25/2019	179	6.9	4.0	0.15	115
F 07/26/2019	170	7.1	4.4	0.16	10
S 07/27/2019	161	6.9	4.5	0.18	34
Su 07/28/2019	161	6.9	4.5	0.21	16
M 07/29/2019	162	7.1	4.5	0.19	64
T 07/30/2019	167	7.0	4.5	0.19	29
W 07/31/2019	159	7.0	4.0	0.09	8
Total	5,784	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	187	6.9 7.1	2.9 4.9	0.18 0.40	13

Wk1 178
Wk2 210
Wk3 182
Wk4 190

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - JULY 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCTORA	GRAVITY	DELCTORA	EAST HIGH LEVEL	PERMIT INFLUENT	DELCTORA	EAST HIGH LEVEL	PERMIT INFLUENT
	MGD	MGD						
07/01/2019	22	127	220	152	161	147	76	86
07/02/2019	24	127	228	116	132	167	69	83
07/03/2019	24	151	208	124	135	149	91	98
07/04/2019	21	142	172	164	165	123	66	73
07/05/2019	25	142	288	148	167	115	73	79
07/06/2019	33	137	224	232	231	123	98	102
07/07/2019	54	180	216	176	184	103	68	75
07/08/2019	38	137	140	140	140	104	77	82
07/09/2019	35	150	168	108	119	112	69	77
07/10/2019	29	132	204	136	147	138	83	92
07/11/2019	24	130	244	384	364	140	143	143
07/12/2019	40	192	248	184	194	114	94	97
07/13/2019	29	162	140	116	119	84	65	68
07/14/2019	24	132	148	188	182	112	57	65
07/15/2019	24	132	244	240	241	120	95	99
07/16/2019	23	129	184	240	232	108	90	93
07/17/2019	24	143	220	336	321	114	129	127
07/18/2019	24	153	124	192	184	116	91	94
07/19/2019	29	175	148	224	214	95	55	60
07/20/2019	24	136	132	172	166	98	71	75
07/21/2019	24	136	140	120	123	113	78	83
07/22/2019	22	130	176	148	152	123	99	102
07/23/2019	26	165	208	260	254	111	79	83
07/24/2019	38	189	172	88	100	98	53	59
07/25/2019	27	140	124	168	161	106	79	83
07/26/2019	24	133	168	196	192	99	74	78
07/27/2019	22	126	140	240	226	110	96	98
07/28/2019	22	128	128	116	118	111	72	77
07/29/2019	23	127	136	224	212	116	87	91
07/30/2019	23	132	184	216	212	127	101	105
07/31/2019	21	126	164	128	133	110	74	79
AVG	27	143	182	183	183	116	82	87

PERMIT

SWWPCP - JULY 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
07/01/2019		157			
07/02/2019		177			
07/03/2019	101	174	110	19	83%
07/04/2019		127			
07/05/2019	81	124	87	18	79%
07/06/2019		131			
07/07/2019		112			
07/08/2019	79	118	87	15	83%
07/09/2019		124			
07/10/2019	116	140	120	27	78%
07/11/2019		150			
07/12/2019		121			
07/13/2019		95			
07/14/2019		122			
07/15/2019	97	131	102	15	85%
07/16/2019		120			
07/17/2019	137	124	135	19	86%
07/18/2019		126			
07/19/2019		111			
07/20/2019		108			
07/21/2019		123			
07/22/2019	108	132	111	17	85%
07/23/2019		121			
07/24/2019	60	107	67	15	77%
07/25/2019		114			
07/26/2019		115			
07/27/2019		120			
07/28/2019		121			
07/29/2019	97	126	101	18	82%
07/30/2019		132			
07/31/2019	84	118	88	17	81%
AVG	96	126	101	18	82%

DESIGN - 200 MGD

DATE	SWWPCP - JULY 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
07/01/2019	22	127	13	162	200	
07/02/2019	24	127	12	163	185	0.39
07/03/2019	24	151	15	190	340	0.14
07/04/2019	21	142	17	180	289	T
07/05/2019	25	142	14	181	255	0.33
07/06/2019	33	137	17	187	337	2.27
07/07/2019	54	180	35	269	476	
07/08/2019	38	137	18	193	214	0.10
07/09/2019	35	150	15	200	246	
07/10/2019	29	132	12	173	200	
07/11/2019	24	130	12	166	191	1.36
07/12/2019	40	192	30	262	490	
07/13/2019	29	162	16	207	242	
07/14/2019	24	132	13	169	207	
07/15/2019	24	132	14	170	193	
07/16/2019	23	129	11	163	185	0.05
07/17/2019	24	143	14	181	281	0.48
07/18/2019	24	153	16	193	349	0.02
07/19/2019	29	175	18	222	395	
07/20/2019	24	136	14	174	212	
07/21/2019	24	136	13	173	195	T
07/22/2019	22	130	13	165	196	0.37
07/23/2019	26	165	19	210	416	0.50
07/24/2019	38	189	45	272	401	T
07/25/2019	27	140	12	179	206	
07/26/2019	24	133	13	170	198	
07/27/2019	22	126	13	161	187	
07/28/2019	22	128	11	161	188	
07/29/2019	23	127	12	162	186	0.01
07/30/2019	23	132	12	167	188	
07/31/2019	21	126	12	159	187	0.01
TOTAL	842	4,441	501	5,784		6.03
AVG	27	143	16	187		
			MIN	159	185	
			MAX	272	490	

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF JULY 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
07/03/2019	0.808	0.345	15.70	18.60	0.140
07/10/2019	0.915	0.398	15.90	18.40	0.220
07/17/2019	0.910	0.408	13.90	17.80	0.237
07/24/2019	0.758	0.357	9.42	9.33	0.207
07/31/2019	1.400	0.493	20.10	26.40	0.193
AVG	0.958	0.400	15.00	18.11	0.199
MAX	1.400	0.493	20.10	26.40	0.237

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
07/03/2019	0.010	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	07/03/2019
Copper	0.0060
Iron Dissolved	0.0530
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0013
Zinc	0.0021

Organics Data (mg/L)

Southwest WPCP - Outfall

	07/02/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0063
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **07/01/2019**
 DMR Effective To: **07/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	07	01	TO	2019	07	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	2.9	4.9	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	7413	9079	lbs/day	***	5	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	15.00	20.10	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	958	1,400	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	.400	.493	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	18.11	28.40	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.199	.237	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0063	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0060	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0530	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0021	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0013	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	187	272	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	18	.40	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		10 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.010	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	13	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	3138	3815	lbs/day	***	2	2	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	25 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	12291	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	35800 Avg Mo	***		***	***	***		***	2/week
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **PHILA WATER DEPT**
 ADDRESS: **1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994**
 FACILITY: **PHILA WATER DEPT - SOUTHWEST WPC PLANT**
 LOCATION: **8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153**
 STAGE: **Final Effluent**

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **07/01/2019**
 DMR Effective To: **07/31/2019**
 Permit Expires: **08/31/2012**
 Permit Application Due: **03/04/2012**
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	07	01	TO	2019	07	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	***	***	***	S U	Daily when Discharging	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX			
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	1x/Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***			
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	***	***	CFU/100 ml	Daily when Discharging	Grab
	Permit Requirement	***	***		***	***	Monitor & Report IMAX			
Duration of Discharge (81381)	Sample Measurement	***	***	minutes	***	***	***	***	1x/Discharge	Estimate
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***			
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA,
19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 07/01/2019
 DMR Effective To: 07/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	07	01	TO	2019	07	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.62	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	97	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201807.xlsx	Daily Effluent Monitoring Form	2019-08-27T15:33:15-04:00	
SW Daily Composite (08-21-2019).pdf	Laboratory Accreditation Form	2019-08-27T15:38:16-04:00	
BLSSW201907.xlsx	Nutrient Monitoring Form	2019-08-27T15:34:05-04:00	
201907SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-08-27T15:34:49-04:00	
SWCSO 201907.xlsx	CSO Detailed Outfall Report Form	2019-08-27T15:37:24-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-695-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	8	27
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

BIOSOLIDS RECYCLE CENTER SLUDGE DEWATERING SUMMARY REPORT

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
JULY 2019	Sludge Flow To From NEWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT	Sludge Flow To From SWWPCP	Sludge Processed by Biosolids Recycle Center / Synagro	DT
	MGD	MGD		MGD	MGD	
07/01/2019	0.851	0.851	100	1.269	1.028	105.1
07/02/2019	0.850	0.620	69	1.113	1.113	120.3
07/03/2019	0.865	0.957	110	1.338	0.970	96.5
07/04/2019	-	0.092	9	1.130	1.538	141.3
07/05/2019	0.868	0.854	101	1.040	0.929	87.3
07/06/2019	0.842	0.870	99	0.781	0.987	101.9
07/07/2019	0.856	0.842	77	0.985	0.941	83.5
07/08/2019	0.800	0.846	100	1.045	0.953	95.2
07/09/2019	-	-	-	1.289	1.387	137.8
07/10/2019	0.851	0.814	87	1.031	0.818	82.4
07/11/2019	0.741	0.819	98	1.149	0.989	109.1
07/12/2019	-	-	-	1.188	1.372	147.3
07/13/2019	0.850	0.814	84	1.287	1.267	142.9
07/14/2019	-	0.037	3	1.210	1.460	107.9
07/15/2019	0.859	0.237	22	1.088	0.747	67.6
07/16/2019	0.858	0.607	77	1.018	1.129	121.6
07/17/2019	0.847	1.491	159	1.223	0.671	73.5
07/18/2019	0.845	0.828	84	0.824	1.374	120.6
07/19/2019	0.866	0.939	130	1.317	1.439	140.7
07/20/2019	0.885	1.059	134	1.048	1.526	166.6
07/21/2019	-	-	-	0.882	0.744	79.9
07/22/2019	0.915	0.307	36	1.269	0.715	76.6
07/23/2019	0.856	0.974	98	1.211	0.816	87.9
07/24/2019	0.860	0.604	66	0.615	0.966	126.1
07/25/2019	0.810	0.774	84	0.382	0.796	94.3
07/26/2019	0.841	1.255	110	0.643	0.505	46.9
07/27/2019	-	0.263	28	1.087	1.389	120.9
07/28/2019	0.857	0.249	26	1.496	1.230	99.1
07/29/2019	0.861	0.851	124	1.161	1.019	130.8
07/30/2019	0.834	1.051	130	1.250	1.492	159.7
07/31/2019	-	0.460	53	1.506	1.414	141.1
TOTAL	20.369	20.364	2,296	33.872	33.723	3,412
AVERAGE	0.657	0.657	74	1.093	1.088	110

5W Daily Composite

Report: NPW20190821-005
Report Date: 08/21/2019

WW190710-009

5W123E

Composite 24h 07/10/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
TKN	SM 4500 Norg D	7/12/2019	11:50	7/16/2019	11:05	18.4	mg/L as N	1.0	mg/L as N

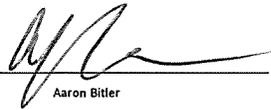
Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 110.8%. Acceptance limits are 90 to 110%.
-----	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:

Aaron Bitler

Title:

Laboratory Manager

Date:

8/21/2019



Randy E. Hayman, Water Commissioner

September 27, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for August 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 08/01/2019-08/31/2019

Report Due Date: 09/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 168927

Submission Status: Received

Submission Type: Revision

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for August 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 08/01/2019
 DMR Effective To: 08/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM	2019	08	01	TO	2019	08	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	2.8	4.9	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.6	***	7.1	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	6683	9759	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75080 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	16.18	20.30	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	1.336	1.720	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	.430	.462	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	20.65	30.80	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.184	.204	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0032	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0060	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.0850	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0040	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0017	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

Selenium Total (01147)	Sample Measurement	***	***	MGD	***	<.0013	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	175	264	MGD	***	***	***	***	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	12	.27	mg/L	1/day	Grab
	Permit Requirement	***	***		***	***	5 Avg Mo		1.0 MAX	1/day
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.008	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	9	***	CFU/100 ml	1/day	Grab
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	3334	4023	lbs/day	***	2	3	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg		***	***	25 Avg Mo		40 Wkly Avg	1/day
BOD, carbonaceous, 20 day 20 C (80087)	Sample Measurement	11171	***	lbs/day	***	***	***	***	2/week	24-Hr Composite
	Permit Requirement	35800 Avg Mo	***		***	***	***		***	2/week
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
201908SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2019-09-27T15:15:38-04:00	
BLSSW201908.xlsx	Daily Effluent Monitoring Form	2019-09-27T15:11:34-04:00	
SWCSO 201908.xlsx	CSO Detailed Outfall Report Form	2019-09-27T15:24:52-04:00	
SW Daily Grab (09-23-2019).pdf	Laboratory Accreditation Form	2019-09-27T15:27:32-04:00	
E-NPDES SW201808.xlsx	Daily Effluent Monitoring Form	2019-09-27T15:19:44-04:00	
SW Daily Composite (09-26-2019).pdf	Laboratory Accreditation Form	2019-09-27T15:26:28-04:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
	MARY ELLEN		

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2019	9	27
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PERMIT

SWWPCP - AUGUST 2019

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			

Th	08/01/2019	185	262	12	95	18,515		84	3	96.41		4,629		
F	08/02/2019	171	169	4	98	5,705		81	1	98.77		1,426		
S	08/03/2019	156	113	1	99	1,301		67	<	2	97.03	2,602		
Su	08/04/2019	162	134	8	94	10,809		56	<	2	96.41	2,702		
M	08/05/2019	158	159	4	97	5,271		87	1	98.85		1,318		6
T	08/06/2019	179	163	4	98	5,971		79	<	2	97.46	2,986		
W	08/07/2019	193	244	4	98	6,438		47	5	89.35		8,048		13
Th	08/08/2019	264	113	9	92	19,816		62	3	95.17		6,605		
F	08/09/2019	212	109	4	96	7,072		70	<	2	97.13	3,536		
S	08/10/2019	178	146	4	97	5,938		77	<	2	97.42	2,969		
Su	08/11/2019	167	136	5	96	6,964		79	<	2	97.46	2,786		
M	08/12/2019	164	133	4	97	5,471		76	2	97.36		2,736		8
T	08/13/2019	165	165	5	97	6,881		109	7	93.57		9,633		
W	08/14/2019	175	158	4	97	5,838		76	2	97.36		2,919		6
Th	08/15/2019	220	199	5	97	9,174		75	2	97.34		3,670		
F	08/16/2019	181	122	4	97	6,038		62	2	96.78		3,019		
S	08/17/2019	163	107	5	95	6,797		72	<	2	97.22	2,719		
Su	08/18/2019	163	135	3	98	4,078		83	<	2	97.58	2,719		
M	08/19/2019	164	129	3	98	4,103		80	<	2	97.50	2,736		6
T	08/20/2019	177	154	3	98	4,429		86	3	96.51		4,429		
W	08/21/2019	168	146	4	97	5,604		78	1	98.72		1,401		7
Th	08/22/2019	204	196	6	97	10,208		81	2	97.52		3,403		
F	08/23/2019	183	137	4	97	6,105		82	2	97.57		3,052		
S	08/24/2019	167	129	3	98	4,178		73	2	97.26		2,786		
Su	08/25/2019	155	139	3	98	3,878		120	2	98.33		2,585		
M	08/26/2019	161	152	4	97	5,371		85	2	97.66		2,685		9
T	08/27/2019	160	161	4	98	5,338		97	2	97.93		2,669		
W	08/28/2019	161	204	4	98	5,371		102	2	98.04		2,685		8
Th	08/29/2019	157	178	2	99	2,619		120	<	2	98.34	2,619		
F	08/30/2019	158	181	4	98	5,271		100	2	98.00		2,635		
S	08/31/2019	159	163	5	97	6,630		97	2	97.94		2,652		

TOTAL	5,430	4,832	138					2,543	70					
AVERAGE	175	156	4	97		6,683		82	2	97.10		3,334		8

Wk1	192	153	5			8,759		68	2			4,023		
Wk2	176	146	5			6,738		78	3			3,926		
Wk3	175	146	4			5,529		80	2			2,932		
Wk4	159	168	4			4,925		103	2			2,647		

MAX 264

CBOD 20 LBS---- 11,171

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - AUGUST 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Th 08/01/2019	185	6.9	3.8	0.12	39
F 08/02/2019	171	6.9	5.2	0.14	16
S 08/03/2019	156	6.9	6.2	0.16	2
Su 08/04/2019	162	7.1	5.8	0.09	1
M 08/05/2019	158	7.0	6.2	0.08	6
T 08/06/2019	179	6.9	6.0	< 0.05	11
W 08/07/2019	193	7.0	6.1	0.16	74
Th 08/08/2019	264	6.9	5.1	< 0.05	23
F 08/09/2019	212	6.9	5.7	0.10	43
S 08/10/2019	178	7.0	4.6	0.26	11
Su 08/11/2019	167	7.1	6.1	0.27	18
M 08/12/2019	164	7.0	5.2	0.07	31
T 08/13/2019	165	6.8	4.2	0.20	12
W 08/14/2019	175	6.9	3.9	0.13	13
Th 08/15/2019	220	6.7	2.9	0.13	10
F 08/16/2019	181	6.8	3.1	0.07	24
S 08/17/2019	163	6.8	2.8	0.12	11
Su 08/18/2019	163	6.8	5.5	0.08	2
M 08/19/2019	164	6.8	5.5	0.09	10
T 08/20/2019	177	6.6	5.3	0.07	15
W 08/21/2019	168	7.1	5.5	0.13	3
Th 08/22/2019	204	7.0	5.3	0.08	3
F 08/23/2019	183	6.8	4.7	0.17	2
S 08/24/2019	167	6.8	4.1	0.25	10
Su 08/25/2019	155	6.9	8.0	0.11	5
M 08/26/2019	161	6.9	4.0	0.07	3
T 08/27/2019	160	7.0	4.2	0.12	10
W 08/28/2019	161	6.9	4.2	0.16	6
Th 08/29/2019	157	6.7	4.0	0.11	15
F 08/30/2019	158	6.8	3.8	0.12	13
S 08/31/2019	159	6.8	3.4	0.11	7
Total	5,430	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	175	6.6 7.1	2.8 4.9	0.12 0.27	9

Wk1 192
Wk2 176
Wk3 175
Wk4 159

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - AUGUST 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCORA	GRAVITY	DELCORA	EAST HIGH	PERMIT	DELCORA	EAST HIGH	PERMIT
	MGD	MGD	LEVEL	INFLUENT		LEVEL	INFLUENT	
08/01/2019	24	141	248	264	262	121	78	84
08/02/2019	23	134	172	168	169	110	77	81
08/03/2019	20	124	64	120	113	97	63	67
08/04/2019	21	129	120	136	134	107	48	56
08/05/2019	21	125	156	160	159	147	78	87
08/06/2019	31	136	180	160	163	97	75	79
08/07/2019	22	157	152	256	244	101	40	47
08/08/2019	43	190	160	104	113	114	52	62
08/09/2019	28	170	116	108	109	94	66	70
08/10/2019	24	142	132	148	146	99	74	77
08/11/2019	23	132	160	132	136	103	75	79
08/12/2019	22	130	136	132	133	132	67	76
08/13/2019	22	131	116	172	165	115	108	109
08/14/2019	23	140	172	156	158	101	72	76
08/15/2019	28	174	196	200	199	125	68	75
08/16/2019	25	142	132	120	122	100	56	62
08/17/2019	22	129	152	100	107	117	65	72
08/18/2019	22	130	152	132	135	119	77	83
08/19/2019	22	130	164	124	129	125	73	80
08/20/2019	22	142	140	156	154	120	81	86
08/21/2019	21	134	156	144	146	116	73	78
08/22/2019	22	165	192	196	196	111	77	81
08/23/2019	22	148	172	132	137	128	76	82
08/24/2019	21	133	160	124	129	121	66	73
08/25/2019	20	122	156	136	139	165	113	120
08/26/2019	21	126	176	148	152	128	79	85
08/27/2019	20	127	196	156	161	149	89	97
08/28/2019	20	128	200	204	204	137	97	102
08/29/2019	20	126	188	176	178	142	117	120
08/30/2019	20	126	188	180	181	150	93	100
08/31/2019	20	127	180	160	163	141	91	97
AVG	23	138	161	155	156	120	76	82

PERMIT

SWWPCP - AUGUST 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
08/01/2019		130			
08/02/2019		120			
08/03/2019		100			
08/04/2019		121			
08/05/2019	87	157	96	18	81%
08/06/2019		107			
08/07/2019	49	104	55	13	76%
08/08/2019		120			
08/09/2019		104			
08/10/2019		106			
08/11/2019		132			
08/12/2019	74	143	83	14	83%
08/13/2019		131			
08/14/2019	80	123	86	12	86%
08/15/2019		134			
08/16/2019		116			
08/17/2019		132			
08/18/2019		127		9	
08/19/2019	77	200	94		
08/20/2019		149		18	
08/21/2019	80	119	85		
08/22/2019		145			
08/23/2019		137			
08/24/2019		139			
08/25/2019		176			
08/26/2019	86	139	93	18	81%
08/27/2019		184			
08/28/2019	111	170	118	14	88%
08/29/2019		176			
08/30/2019		159			
08/31/2019		220			
AVG	81	139	89	15	83%

DESIGN - 200 MGD

DATE	SWWPCP - AUGUST 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
08/01/2019	24	141	20	185	360	
08/02/2019	23	134	14	171	216	T
08/03/2019	20	124	12	156	186	T
08/04/2019	21	129	12	162	201	
08/05/2019	21	125	12	158	183	
08/06/2019	31	136	12	179	234	0.01
08/07/2019	22	157	14	193	323	1.63
08/08/2019	43	190	31	264	506	T
08/09/2019	28	170	14	212	254	
08/10/2019	24	142	12	178	208	
08/11/2019	23	132	12	167	193	
08/12/2019	22	130	12	164	192	
08/13/2019	22	131	12	165	225	0.14
08/14/2019	23	140	12	175	280	0.42
08/15/2019	28	174	18	220	341	
08/16/2019	25	142	14	181	226	
08/17/2019	22	129	12	163	186	
08/18/2019	22	130	11	163	197	T
08/19/2019	22	130	12	164	193	0.03
08/20/2019	22	142	13	177	232	
08/21/2019	21	134	13	168	193	0.24
08/22/2019	22	165	17	204	340	0.20
08/23/2019	22	148	13	183	302	0.08
08/24/2019	21	133	13	167	230	
08/25/2019	20	122	13	155	187	
08/26/2019	21	126	14	161	191	
08/27/2019	20	127	13	160	191	
08/28/2019	20	128	13	161	191	0.03
08/29/2019	20	126	11	157	187	
08/30/2019	20	126	12	158	189	
08/31/2019	20	127	12	159	184	
TOTAL	715	4,290	425	5,430		2.78
AVG	23	138	14	175		
			MIN	155	183	
			MAX	264	506	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF AUGUST 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
08/07/2019	0.993	0.374	15.10	17.30	0.204
08/14/2019	1.720	0.456	12.10	16.00	0.150
08/21/2019	1.260	0.429	17.20	18.50	0.200
08/28/2019	1.370	0.462	20.30	30.80	0.180
AVG	1.336	0.430	16.18	20.65	0.184
MAX	1.720	0.462	20.30	30.80	0.204

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
08/07/2019	0.008	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	08/07/2019
Copper	0.0060
Iron Dissolved	0.0850
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0013
Zinc	0.0017

Organics Data (mg/L)

Southwest WPCP - Outfall

	08/06/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0032
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

BIOSOLIDS RECYCLE CENTER SLUDGE DEWATERING SUMMARY REPORT

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
AUGUST 2019	Sludge Flow To From NEWPCP MGD	Sludge Processed by Biosolids Recycle Center / Synagro MGD	DT	Sludge Flow To From SWWPCP MGD	Sludge Processed by Biosolids Recycle Center / Synagro MGD	DT
08/01/2019	0.909	0.913	107.8	1.307	1.307	168.1
08/02/2019	0.862	0.826	99.7	1.311	1.133	112.5
08/03/2019	-	0.031	2.6	1.493	1.154	100.4
08/04/2019	0.878	0.878	94.8	1.153	1.593	119.4
08/05/2019	0.854	0.808	93.2	1.181	0.977	97.1
08/06/2019	-	0.083	6.8	1.086	0.902	92.7
08/07/2019	0.914	0.118	12.3	1.713	2.069	160.5
08/08/2019	0.825	1.400	159.7	0.984	0.925	84.5
08/09/2019	0.854	0.913	99.4	1.014	0.855	80.1
08/10/2019	-	0.138	13.9	1.977	1.922	174.5
08/11/2019	0.858	0.813	83.3	1.617	1.796	190.3
08/12/2019	-			1.258	1.107	113.8
08/13/2019	-			1.429	1.721	174.4
08/14/2019	0.862	0.875	94.3	1.431	1.135	129.9
08/15/2019	0.822	0.813	99.1	1.404	1.443	155.2
08/16/2019	0.816	0.560	68.9	1.088	1.181	147.1
08/17/2019	-	0.247	29.9	1.039	1.203	129.2
08/18/2019	0.893	0.798	83.0	1.067	0.967	90.3
08/19/2019	0.859	1.000	106.2	1.069	0.946	82.5
08/20/2019	-			1.309	1.195	94.1
08/21/2019	-	0.005	0.1	0.935	0.721	65.4
08/22/2019	0.866	0.468	43.1	1.255	1.593	133.6
08/23/2019	0.873	1.249	113.5	0.743	0.137	9.0
08/24/2019	0.838	0.829	93.5	1.294	1.627	147.3
08/25/2019	0.875	0.897	98.8	1.302	1.470	120.6
08/26/2019	0.845	0.763	78.7	2.425	2.294	182.0
08/27/2019	-	0.086	6.8	1.717	1.657	116.8
08/28/2019	0.862	0.172	16.1	0.532	0.445	34.0
08/29/2019	0.842	1.454	167.8	0.842	1.046	114.6
08/30/2019	0.870	0.930	118.6	1.456	1.056	98.9
08/31/2019	0.823	0.827	107.8	1.684	2.039	178.8
TOTAL	18.900	18.894	2,099.7	40.115	39.616	3,697.6
AVERAGE	0.610	0.675	75	1.294	1.278	119

SW Daily Composite

Report: NPW20190923-006
 Report Date: 09/23/2019

WW190807-009

SW123E

Composite 24h 08/07/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Nitrate	EPA 300.0 rev 2.1			8/7/2019	20:19	0.374	mg/L as N	0.25	mg/L as N

Data Qualifiers:

Nitrate	Laboratory Fortified Matrix (LFM) recovery is 89%. Acceptance limits are 90 to 110%.
---------	--

WW190814-009

SW123E

Composite 24h 08/14/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{8,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:06	0.150 ^f	mg/L	0.1	mg/L

Data Qualifiers:

Phosphorus	This parameter is not included in STLs NELAC Scope of Accreditation and should not be used for regulatory compliance ; however, the analysis has been completed in accordance with STLs NELAC Quality System requirements.
------------	--

WW190821-009

SW123E

Composite 24h 08/21/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{8,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:28	0.200 ^f	mg/L	0.1	mg/L

Data Qualifiers:

Phosphorus	This parameter is not included in STLs NELAC Scope of Accreditation and should not be used for regulatory compliance ; however, the analysis has been completed in accordance with STLs NELAC Quality System requirements.
------------	--

WW190828-009

SW123E

Composite 24h 08/28/2019 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{8,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:37	0.180 ^f	mg/L	0.1	mg/L

Data Qualifiers:

Phosphorus	This parameter is not included in STLs NELAC Scope of Accreditation and should not be used for regulatory compliance ; however, the analysis has been completed in accordance with STLs NELAC Quality System requirements.
------------	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:

Aaron Bitler

Title:

Laboratory Manager

Date:

9/23/2019

SW Daily Composite

Reort: NPW20190926-006
 Report Date: 09/26/2019

WW190807-009

SW123E

Composite 24h 08/07/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Nitrate	EPA 300.0 rev 2.1			8/7/2019	20:19	0.374	mg/L as N		mg/L as N

Data Qualifiers:

Nitrate	Laboratory Fortified Matrix (LFM) recovery is 89%. Acceptance limits are 90 to 110%.
---------	--

WW190814-009

SW123E

Composite 24h 08/14/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{B,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:06	0.150 ^E	mg/L		mg/L

Data Qualifiers:

Phosphorus	The laboratory that analyzed the sample was not accredited for phosphorus by SW 846 6010D at the time of analysis. The analysis was completed in accordance with the lab's NELAC Quality System requirements and all QA/QC passed. Re-analysis of this sample by an accredited laboratory is scheduled and results will be transmitted when they are available.
------------	---

WW190821-009

SW123E

Composite 24h 08/21/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{B,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:28	0.200 ^E	mg/L		mg/L

Data Qualifiers:

Phosphorus	The laboratory that analyzed the sample was not accredited for phosphorus by SW 846 6010D at the time of analysis. The analysis was completed in accordance with the lab's NELAC Quality System requirements and all QA/QC passed. Re-analysis of this sample by an accredited laboratory is scheduled and results will be transmitted when they are available.
------------	---

WW190828-009

SW123E

Composite 24h 08/28/2019 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Phosphorus ^{B,D}	SW 846 6010D	9/9/2019	16:18	9/10/2019	14:37	0.180 ^E	mg/L		mg/L

Data Qualifiers:

Phosphorus	The laboratory that analyzed the sample was not accredited for phosphorus by SW 846 6010D at the time of analysis. The analysis was completed in accordance with the lab's NELAC Quality System requirements and all QA/QC passed. Re-analysis of this sample by an accredited laboratory is scheduled and results will be transmitted when they are available.
------------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
 Signature: _____
 Name: John Consolvo
 Title: Laboratory Manager
 Date: 9/26/2019

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Grab

Report: NPW20190923-007
Report Date: 09/23/2019

WW190823-005

SW123E

Grab 08/23/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quantitray)	Collert 18 /Quantitray			8/24/2019	7:55	2.0	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quantitray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.976. The maximum acceptable PCV is 0.577. The measured results were 2.0 MPN/100mL and 37.9 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
---	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
Signature: _____
Name: Aaron Bitler
Title: Laboratory Manager
Date: 9/23/2019



Randy E. Hayman, Water Commissioner

October 25, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for September 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 09/01/2019-09/30/2019

Report Due Date: 10/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 172545

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for September 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - SEPTEMBER 2019

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
Su	09/01/2019	163	153	4	97	5,438		92	1	98.92		1,359		
M	09/02/2019	149	174	3	98	3,728		78	2	97.44		2,485		8
T	09/03/2019	189	219	7	97	11,034		134	3	97.76		4,729		
W	09/04/2019	159	111	3	97	3,978		86	2	97.67		2,652		8
Th	09/05/2019	186	188	8	96	12,410		90	5	94.43		7,756		
F	09/06/2019	158	130	5	96	6,589		75	2	97.33		2,635		
S	09/07/2019	169	144	4	97	5,638		120	2	98.34		2,819		
Su	09/08/2019	158	226	4	98	5,271		106	1	99.06		1,318		
M	09/09/2019	153	169	3	98	3,828		85	2	97.65		2,552		8
T	09/10/2019	153	226	5	98	6,380		100	2	98.00		2,552		
W	09/11/2019	154	211	4	98	5,137		102	2	98.04		2,569		7
Th	09/12/2019	156	309	3	99	3,903		118	2	98.31		2,602		
F	09/13/2019	171	236	4	98	5,705		103	3	97.09		4,278		
S	09/14/2019	157	187	3	98	3,928		87	2	97.71		2,619		
Su	09/15/2019	169	168	5	97	7,047		102	2	98.04		2,819		
M	09/16/2019	154	140	6	96	7,706		11	2	81.53		2,569		9
T	09/17/2019	154	181	5	97	6,422		95	2	97.90		2,569		
W	09/18/2019	156	174	13	93	16,914		94	3	96.81		3,903		9
Th	09/19/2019	158	156	4	97	5,271		86	2	97.67		2,635		
F	09/20/2019	147	233	3	99	3,678		39	2	94.88		2,452		10
S	09/21/2019	148	180	3	98	3,703		89	2	97.75		2,469		
Su	09/22/2019	146	172	5	97	6,088		86	2	97.68		2,435		
M	09/23/2019	151	173	6	97	7,556		111	2	98.20		2,519		8
T	09/24/2019	163	206	16	92	21,751		100	3	96.99		4,078		
W	09/25/2019	146	217	7	97	8,523		111	3	97.29		3,653		10
Th	09/26/2019	151	174	10	94	12,593		74	3	95.96		3,778		
F	09/27/2019	148	183	5	97	6,172		94	2	97.88		2,469		
S	09/28/2019	146	200	3	99	3,653		107	2	98.13		2,435		
Su	09/29/2019	165	196	5	97	6,881		98	2	97.97		2,752		
M	09/30/2019	150	176	9	95	11,259		96	3	96.87		3,753		

TOTAL	4,727	5,610	165					2,771	68					
AVERAGE	158	187	6	97		7,273		92	2	96.98		3,007		9

Wk1	168	160	5			6,973		96	2			3,491		
Wk2	157	223	4			4,879		100	2			2,641		
Wk3	155	176	6			7,249		74	2			2,774		
Wk4	150	189	7			9,477		98	2			3,052		

MAX 189

CBOD 20 LBS---- 10,784

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - SEPTEMBER 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Su 09/01/2019	163	7.0	5.1	0.07	6
M 09/02/2019	149	6.8	5.1	0.05	1
T 09/03/2019	189	6.7	5.6	0.14	82
W 09/04/2019	159	7.0	5.6	0.14	47
Th 09/05/2019	186	6.8	4.8	0.11	10
F 09/06/2019	158	6.9	3.9	0.17	10
S 09/07/2019	169	7.0	4.1	0.05	12
Su 09/08/2019	158	6.9	4.3	0.07	12
M 09/09/2019	153	6.8	4.1	0.26	20
T 09/10/2019	153	7.1	4.2	0.17	16
W 09/11/2019	154	6.9	4.7	0.19	6
Th 09/12/2019	156	7.0	4.8	0.13	326
F 09/13/2019	171	7.0	4.6	0.09	205
S 09/14/2019	157	7.0	6.5	0.14	10
Su 09/15/2019	169	6.9	4.2	0.12	32
M 09/16/2019	154	6.5	4.1	0.12	23
T 09/17/2019	154	6.9	4.0	0.11	31
W 09/18/2019	156	6.9	5.6	0.16	5
Th 09/19/2019	158	6.9	5.3	0.07	6
F 09/20/2019	147	7.1	5.8	0.16	4
S 09/21/2019	148	7.0	4.3	0.13	4
Su 09/22/2019	146	6.9	4.3	0.15	9
M 09/23/2019	151	7.1	4.4	0.16	3
T 09/24/2019	163	7.1	4.1	0.10	21
W 09/25/2019	146	7.0	4.8	0.20	8
Th 09/26/2019	151	7.0	4.6	0.12	2
F 09/27/2019	148	6.9	4.5	0.16	12
S 09/28/2019	146	6.9	4.7	0.07	3
Su 09/29/2019	165	7.0	4.1	0.19	48
M 09/30/2019	150	6.7	3.8	0.13	12
Total	4,727	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	158	6.5 7.1	3.8 4.7	0.13 0.26	13

Wk1 168
Wk2 157
Wk3 155
Wk4 150

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT SWWPCP - SEPTEMBER 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCORA	GRAVITY	DELCORA	EAST HIGH LEVEL	PERMIT INFLUENT	DELCORA	EAST HIGH LEVEL	PERMIT INFLUENT
	MGD	MGD						
09/01/2019	19	134	160	152	153	132	87	92
09/02/2019	19	119	188	172	174	126	71	78
09/03/2019	23	150	240	216	219	191	126	134
09/04/2019	20	127	160	104	111	139	78	86
09/05/2019	23	146	244	180	188	138	83	90
09/06/2019	20	127	168	124	130	122	68	75
09/07/2019	20	136	148	144	144	131	119	120
09/08/2019	20	126	132	240	226	153	99	106
09/09/2019	20	123	200	164	169	146	76	85
09/10/2019	19	122	208	228	226	136	95	100
09/11/2019	20	123	228	208	211	155	94	102
09/12/2019	19	126	200	324	309	126	117	118
09/13/2019	20	138	148	248	236	148	97	103
09/14/2019	19	125	176	188	187	127	82	87
09/15/2019	20	136	196	164	168	171	93	102
09/16/2019	20	123	164	136	140	70	2	11
09/17/2019	19	123	216	176	181	169	85	95
09/18/2019	19	125	220	168	174	146	87	94
09/19/2019	19	126	212	148	156	136	79	86
09/20/2019	19	117	188	240	233	134	25	39
09/21/2019	18	118	152	184	180	117	85	89
09/22/2019	19	115	196	168	172	129	80	86
09/23/2019	19	119	72	188	173	161	104	111
09/24/2019	19	131	188	208	206	144	94	100
09/25/2019	18	117	168	224	217	80	115	111
09/26/2019	18	120	188	172	174	121	68	74
09/27/2019	18	118	204	180	183	118	91	94
09/28/2019	18	116	200	200	200	163	99	107
09/29/2019	19	133	196	196	196	140	93	98
09/30/2019	19	119	204	172	176	157	87	96
AVG	19	126	185	187	187	138	86	92

PERMIT

SWWPCP - SEPTEMBER 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
09/01/2019		152			
09/02/2019	82	157	92	13	86%
09/03/2019		204			
09/04/2019	91	151	99	12	88%
09/05/2019		168			
09/06/2019		129			
09/07/2019		169			
09/08/2019		163			
09/09/2019	95	164	104	16	85%
09/10/2019		163			
09/11/2019	105	167	113	17	85%
09/12/2019		163			
09/13/2019		171			
09/14/2019		133			
09/15/2019		181			
09/16/2019	182	88	170	16	91%
09/17/2019		179			
09/18/2019	97	156	104	17	84%
09/19/2019		159			
09/20/2019		159			
09/21/2019		137			
09/22/2019		167			
09/23/2019	113	174	121	26	78%
09/24/2019		153			
09/25/2019	154	103	148	26	82%
09/26/2019		168			
09/27/2019		128			
09/28/2019		173			
09/29/2019		180			
09/30/2019		182			
AVG	115	158	119	18	85%

DESIGN - 200 MGD

DATE	SWWPCP - SEPTEMBER 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
09/01/2019	19	134	10	163	175	
09/02/2019	19	119	11	149	177	0.24
09/03/2019	23	150	16	189	334	
09/04/2019	20	127	12	159	196	0.19
09/05/2019	23	146	17	186	360	
09/06/2019	20	127	11	158	241	0.07
09/07/2019	20	136	13	169	213	
09/08/2019	20	126	12	158	187	
09/09/2019	20	123	10	153	188	
09/10/2019	19	122	12	153	186	
09/11/2019	20	123	11	154	178	0.06
09/12/2019	19	126	11	156	182	0.05
09/13/2019	20	138	13	171	264	
09/14/2019	19	125	13	157	176	0.08
09/15/2019	20	136	13	169	239	0.06
09/16/2019	20	123	11	154	177	
09/17/2019	19	123	12	154	179	
09/18/2019	19	125	12	156	185	
09/19/2019	19	126	13	158	180	
09/20/2019	19	117	11	147	177	
09/21/2019	18	118	12	148	170	
09/22/2019	19	115	12	146	172	
09/23/2019	19	119	13	151	186	0.24
09/24/2019	19	131	13	163	223	
09/25/2019	18	117	11	146	177	
09/26/2019	18	120	13	151	180	0.01
09/27/2019	18	118	12	148	177	
09/28/2019	18	116	12	146	168	0.16
09/29/2019	19	133	13	165	263	
09/30/2019	19	119	12	150	207	
TOTAL	582	3,778	367	4,727		1.16
AVG	19	126	12	158		
			MIN	146	168	
			MAX	189	360	

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
09/04/2019	1.110	0.392	12.70	13.00	0.150
09/11/2019	1.280	0.290	23.60	28.10	0.121
09/16/2019	0.970 <	0.250	15.50	14.60	0.181
09/18/2019	0.747 <	0.250	17.00	32.50	0.186
09/20/2019	1.210 <	0.250	23.30	32.10	0.176
09/25/2019	0.844 <	0.250	20.80	23.60	0.338
AVG	1.027	0.280	18.82	23.98	0.192
MAX	1.280	0.392	23.60	32.50	0.338

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
09/16/2019	0.005 <	0.050
09/18/2019	0.005	0.050
09/20/2019	0.006 <	0.050
AVG	0.005 <	0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	09/16/2019	09/18/19	09/20/19	AVG
Copper	0.0050	0.0050	0.0050	0.0050
Iron Dissolved	0.1190	0.2170	0.1310	0.1557
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0040	0.0050	0.0050	0.0047
Selenium	< 0.0130 <	0.0130 <	0.0130	< 0.0130
Zinc	0.0150	0.0170	0.0180	0.0167

Organics Data (mg/L)

Southwest WPCP - Outfall

	9/15/2019	9/16/2019	9/17/2019	9/18/2019	9/19/2019	9/20/2019	AVG
1,2-Dichloroethane	< 0.0005		0.0005 <	0.0005 <	0.0005 <		< 0.0005
alpha-Endosulfan		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Benzidine		0.0005		0.0005		0.0005	0.0005
beta-BHC		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Chlordane		< 0.0005000		< 0.0005000		< 0.0005000	< 0.0005000
Chloroform	0.0037	0.0037	0.0034	0.0028			0.0034
Dieldrin		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Heptachlor		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Lindane (Gamma-BHC)		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDD		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDE		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDT		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Tetrachloroethylene	< 0.0005	< 0.0005	< 0.0005		< 0.0005		< 0.0005
Trichloroethylene	< 0.0005	< 0.0005	< 0.0005		< 0.0005		< 0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER 2019

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

9/20/2019

Toxicity, Ceriodaphnia acute	1.1
Toxicity, Ceriodaphnia chronic	4
Toxicity, Pimphales acute	1.4
Toxicity, Pimphales chronic	2

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
SEPT 2019	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	MGD	MGD		MGD	MGD	
	Biosolids Recycle Center / Synagro From NEWPCP			Biosolids Recycle Center / Synagro From SWWPCP		
09/01/2019	0.000	0.000	0.00	1.222	1.446	107.1
09/02/2019	0.000	0.000	0.00	1.273	1.268	104.2
09/03/2019	0.890	0.631	45.5	1.389	1.321	89.6
09/04/2019	0.849	1.045	110.0	1.002	0.870	67.1
09/05/2019	0.860	0.084	12.0	1.378	1.219	103.1
09/06/2019	0.820	1.622	243.9	0.192	0.000	0.0
09/07/2019	0.840	0.576	71.9	0.938	1.047	105.5
09/08/2019	0.000	0.256	29.6	2.192	2.469	233.6
09/09/2019	0.818	0.767	83.2	1.737	1.573	152.7
09/10/2019	0.000	0.078	7.5	1.481	1.402	96.0
09/11/2019	0.845	0.658	69.6	1.553	1.667	135.4
09/12/2019	0.839	0.479	52.5	1.323	1.287	101.2
09/13/2019	0.873	1.447	151.1	1.167	1.253	110.3
09/14/2019	0.841	0.829	92.2	1.171	1.175	91.6
09/15/2019	0.000	0.000	0.0	1.169	1.399	110.8
09/16/2019	0.853	0.871	90.1	1.229	1.401	99.4
09/17/2019	0.800	0.728	74.4	1.418	1.057	116.4
09/18/2019	0.859	0.923	103.0	1.263	1.103	93.6
09/19/2019	0.837	0.696	70.5	1.096	1.480	134.2
09/20/2019	0.000	0.123	10.1	1.172	1.193	98.6
09/21/2019	0.866	0.907	92.9	1.406	1.611	135.1
09/22/2019	0.000	0.000	0.0	1.181	0.560	49.3
09/23/2019	0.858	0.669	74.3	1.407	1.644	128.8
09/24/2019	0.866	0.561	61.9	1.489	1.636	115.0
09/25/2019	0.000	0.457	45.4	1.644	1.508	125.7
09/26/2019	0.213	0.049	2.6	1.586	1.626	113.8
09/27/2019	1.482	1.349	149.8	1.318	1.606	131.1
09/28/2019	0.873	0.978	84.7	1.259	1.062	75.2
09/29/2019	0.000	0.154	15.7	1.345	0.930	66.3
09/30/2019	0.866	0.890	95.8	1.335	1.831	142.6
TOTAL	17.850	17.827	1,940.2	39.331	39.644	3,233.4
AVERAGE	0.595	0.594	65	1.311	1.321	108

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Composite

Report: NPW20191024-005
Report Date: 10/24/2019

WW190925-009

SW123E

Composite 24h 09/25/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
TKN	SM 4500 Norg D	9/26/2019	12:30	9/27/2019	11:45	23.6	mg/L as N	LD	mg/L as N

Data Qualifiers:

TKN	Laboratory Fortified Matrix (LFM) recovery is 86.8%. Acceptance limits are 90 to 110%.
-----	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name: Aaron Bitler

Title: Laboratory Manager

Date: 10/24/2019

SW Daily Grab

Report: NPW20191024-006
 Report Date: 10/24/2019

WW190910-005

SW123E

Grab 09/10/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quanti-Tray)	Collert 18/Quantitr			9/11/2019	8:37	15.6	MPN/100 ml	<1	MPN/100 ml

Data Qualifiers:

Coliforms Fecal (Collert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.799. The maximum acceptable PCV is 0.577. The measured results were 6.3 MPN/100mL and 1.0 MPN/100mL. PCV 0.577 was exceeded due to low values in samples.
--	---

WW190912-005

SW123E

Grab 09/12/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quanti-Tray)	Collert 18/Quantitr			9/13/2019	8:49	325.5	MPN/100 ml	<1	MPN/100 ml

Data Qualifiers:

Coliforms Fecal (Collert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 1.270. The maximum acceptable PCV is 0.577.
--	---

WW190926-005

SW123E

Grab 09/26/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quanti-Tray)	Collert 18/Quantitr			9/27/2019	8:00	2.0	MPN/100 ml	<1	MPN/100 ml

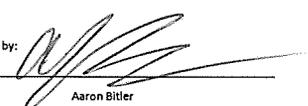
Data Qualifiers:

Coliforms Fecal (Collert-18/Quanti-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.74. The maximum acceptable PCV is 0.577. The measured results were 2.0 MPN/mL and 11.0 MPN/mL. PCV 0.577 was exceeded due to low values in samples.
--	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:

Aaron Bitler

Title:

Laboratory Manager

Date:

10/24/2019



Randy E. Hayman, Water Commissioner

October 25, 2019

The City of Philadelphia hereby submits the Quarterly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for the period of July 2019 to September 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Quarterly

Report Type: DMR

Reporting Period: 07/01/2019-09/30/2019

Report Due Date: 10/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 172499

Submission Status: Received

Submission Type: Original

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
09/04/2019	1.110	0.392	12.70	13.00	0.150
09/11/2019	1.280	0.290	23.60	28.10	0.121
09/16/2019	0.970 <	0.250	15.50	14.60	0.181
09/18/2019	0.747 <	0.250	17.00	32.50	0.186
09/20/2019	1.210 <	0.250	23.30	32.10	0.176
09/25/2019	0.844 <	0.250	20.80	23.60	0.338
AVG	1.027	0.280	18.82	23.98	0.192
MAX	1.280	0.392	23.60	32.50	0.338

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
09/16/2019	0.005 <	0.050
09/18/2019	0.005	0.050
09/20/2019	0.006 <	0.050
AVG	0.005 <	0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	09/16/2019	09/18/19	09/20/19	AVG
Copper	0.0050	0.0050	0.0050	0.0050
Iron Dissolved	0.1190	0.2170	0.1310	0.1557
Lead	< 0.0030 <	0.0030 <	0.0030	< 0.0030
Nickel	0.0040	0.0050	0.0050	0.0047
Selenium	< 0.0130 <	0.0130 <	0.0130	< 0.0130
Zinc	0.0150	0.0170	0.0180	0.0167

Organics Data (mg/L)

Southwest WPCP - Outfall

	9/15/2019	9/16/2019	9/17/2019	9/18/2019	9/19/2019	9/20/2019	AVG
1,2-Dichloroethane	< 0.0005		0.0005 <	0.0005 <	0.0005 <		< 0.0005
alpha-Endosulfan		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Benzidine		0.0005		0.0005		0.0005	0.0005
beta-BHC		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Chlordane		< 0.0005000		< 0.0005000		< 0.0005000	< 0.0005000
Chloroform	0.0037	0.0037	0.0034	0.0028			0.0034
Dieldrin		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Heptachlor		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Lindane (Gamma-BHC)		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDD		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDE		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
p,p'-DDT		< 0.0000200		< 0.0000200		< 0.0000200	< 0.0000200
Tetrachloroethylene	< 0.0005	< 0.0005	0.0005		< 0.0005		< 0.0005
Trichloroethylene	< 0.0005	< 0.0005	0.0005		< 0.0005		< 0.0005

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF SEPTEMBER 2019

Central Laboratory

Toxicity (TUA/TUC)

Southwest WPCP - Outfall

9/20/2019

Toxicity, Ceriodaphnia acute	1.1
Toxicity, Ceriodaphnia chronic	4
Toxicity, Pimphales acute	1.4
Toxicity, Pimphales chronic	2

SW WET Testing Composite

Report: NPW20191024-007
 Report Date: 10/24/2019

WW190916-001

SW123E

Composite 24h 09/16/2019 04:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
1,2,4-Trichlorobenzene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<1.00 ^f	µg/L	1.00	µg/L
2,4-Dinitrophenol RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<3.00 ^f	µg/L	3.00	µg/L
2-Chloronaphthalene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<1.00 ^f	µg/L	1.00	µg/L
4-Nitrophenol RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<1.00 ^f	µg/L	1.00	µg/L
bis(2-Chloroisopropyl) ether RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<1.00 ^f	µg/L	1.00	µg/L
CBOD5	SM 5210 B	9/16/2019	14:30	9/21/2019	10:00	1.17	mg/L	2.00	mg/L
Endosulfan II RD	EPA 608.3	9/18/2019	13:35	9/18/2019	22:58	<0.02 ^f	µg/L	0.02	µg/L
Endosulfan sulfate RD	EPA 608.3	9/18/2019	13:35	9/18/2019	22:58	<0.02 ^f	µg/L	0.02	µg/L
Endrin aldehyde RD	EPA 608.3	9/18/2019	13:35	9/18/2019	22:58	<0.02 ^f	µg/L	0.02	µg/L
Hexachloroethane RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<10.0 ^f	µg/L	10.00	µg/L
Pyrene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:28	<1.00 ^f	µg/L	1.00	µg/L

Data Qualifiers:

1,2,4-Trichlorobenzene	The recovery of LCS is 45%, which is outside the acceptance limits of 57-130%. Results may have greater uncertainty.
2,4-Dinitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
2-Chloronaphthalene	The recovery of LCS is 49%, which is outside the acceptance limits of 65-120%. Results may have greater uncertainty.
4-Nitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
bis(2-Chloroisopropyl) ether	The recovery of LCS is 49%, which is outside the acceptance limits of 63-139%. Results may have greater uncertainty.
CBOD5	GGA recovery is 161.00 mg/L. The acceptance limits are bet 167.5 to 228.5 mg/L.
Endosulfan II	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endosulfan sulfate	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Endrin aldehyde	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
Hexachloroethane	The recovery of LCS is 51%, which is outside the acceptance limits of 55-120%. Results may have greater uncertainty.
Pyrene	The recovery of LCS is 62%, which is outside the acceptance limits of 70-120%. Results may have greater uncertainty.

WW190918-001

SW123E

Composite 24h 09/18/2019 03:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
1,2,4-Trichlorobenzene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<1.00 ^f	µg/L	1.00	µg/L
2,4-Dinitrophenol RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<3.00 ^f	µg/L	3.00	µg/L
2-Chloronaphthalene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<1.00 ^f	µg/L	1.00	µg/L
4,4'-DDT RD	EPA 608.3	9/23/2019	18:22	9/24/2019	16:45	<0.02 ^f	µg/L	0.02	µg/L
4-Nitrophenol RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<1.00 ^f	µg/L	1.00	µg/L
bis(2-Chloroisopropyl) ether RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<1.00 ^f	µg/L	1.00	µg/L
CBOD5	SM 5210 B	9/18/2019	16:20	9/23/2019	11:55	1.62	mg/L	2.00	mg/L
Hexachloroethane RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<10.0 ^f	µg/L	10.00	µg/L
Pyrene RD	EPA 625.1	9/20/2019	12:43	9/20/2019	22:54	<1.00 ^f	µg/L	1.00	µg/L
Toxaphene RD	EPA 608.3	9/23/2019	18:22	9/24/2019	16:45	<0.50 ^f	µg/L	0.50	µg/L

Data Qualifiers:

1,2,4-Trichlorobenzene	The recovery of LCS is 45%, which is outside the acceptance limits of 57-130%. Results may have greater uncertainty.
2,4-Dinitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
2-Chloronaphthalene	The recovery of LCS is 49%, which is outside the acceptance limits of 65-120%. Results may have greater uncertainty.
4,4'-DDT	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
4-Nitrophenol	The CCV for this analyte was above the acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
bis(2-Chloroisopropyl) ether	The recovery of LCS is 49%, which is outside the acceptance limits of 63-139%. Results may have greater uncertainty.
CBOD5	GGA Recovery is 151.00 mg/L. The acceptance limits are 167.5 to 228.5 mg/L.
Hexachloroethane	The recovery of LCS is 51%, which is outside the acceptance limits of 55-120%. Results may have greater uncertainty.
Pyrene	The recovery of LCS is 62%, which is outside the acceptance limits of 70-120%. Results may have greater uncertainty.
Toxaphene	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.

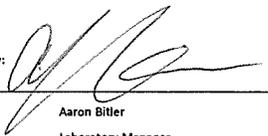
Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
2-Chloronaphthalene ^{B,D}	EPA 625.1	9/24/2019	13:04	9/27/2019	8:13	<1.00 ^E	µg/L	1.00	µg/L
4,4'-DDT ^{B,D}	EPA 608.3	9/23/2019	18:22	9/24/2019	17:00	<0.02 ^E	µg/L	0.02	µg/L
Toxaphene ^{B,D}	EPA 608.3	9/23/2019	18:22	9/24/2019	17:00	<0.50 ^E	µg/L	0.50	µg/L

Data Qualifiers:

2-Chloronaphthalene	The LCS for the analysis batch associated with this sample was below acceptance criteria. Results may have greater uncertainty.
4,4'-DDT	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.
Toxaphene	Calibration verification is below the minimum acceptance limits. A low level standard was analyzed to confirm detection. The reported analytes were below the concentration of the low level standard.

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
 Signature: _____
 Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 10/24/2019



Randy E. Hayman, Water Commissioner

November 27, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for October 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 10/01/2019-10/31/2019

Report Due Date: 11/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 177830

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for October 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - OCTOBER 2019

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids				LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*					CBOD5 %REM	CBOD5* %REM			
S	09/29/2019	165	196	5	97	6,881		98	2	97.97		2,752		
M	09/30/2019	150	176	9	95	11,259		96	3	96.87		3,753		
T	10/01/2019	148	142	5	96	6,172		89	1	98.88		1,234		
W	10/02/2019	150	160	5	97	6,255		88	2	97.73		2,502		NM
Th	10/03/2019	152	133	4	97	5,071		92	2	97.82		2,535		
F	10/04/2019	162	134	4	97	5,404		96	2	97.91		2,702		7
S	10/05/2019	145	166	5	97	6,047		93	2	97.85		2,419		
Su	10/06/2019	144	178	6	97	7,206		95	2	97.89		2,402		
M	10/07/2019	148	173	6	97	7,406		114	2	98.25		2,469		9
T	10/08/2019	155	265	9	97	11,634		93	3	96.79		3,878		
W	10/09/2019	151	132	8	94	10,075		88	3	96.57		3,778		9
Th	10/10/2019	155	236	11	95	14,220		85	4	95.29		5,171		
F	10/11/2019	153	178	9	95	11,484		92	3	96.75		3,828		
S	10/12/2019	158	189	6	97	7,906		107	3	97.19		3,953		
Su	10/13/2019	156	243	14	94	18,215		107	5	95.32		6,505		
M	10/14/2019	149	216	11	95	13,669		96	5	94.77		6,213		15
T	10/15/2019	152	211	8	96	10,141		93	5	94.60		6,338		
W	10/16/2019	150	177	18	90	22,518		102	5	95.12		6,255		11
Th	10/17/2019	232	214	10	95	19,349		95	25	73.61		48,372		
F	10/18/2019	145	133	6	95	7,256		83	3	96.37		3,628		
S	10/19/2019	145	173	5	97	6,047		96	3	96.88		3,628		
Su	10/20/2019	142	163	4	98	4,737		94	4	95.74		4,737		
M	10/21/2019	215	131	19	86	34,069		95	12	87.42		21,517		24
T	10/22/2019	154	134	4	97	5,137		78	2	97.44		2,569		
W	10/23/2019	235	163	26	84	50,957		75	7	90.69		13,719		17
Th	10/24/2019	162	104	15	86	20,266		67	4	94.06		5,404		
F	10/25/2019	154	170	6	96	7,706		94	2	97.88		2,569		
S	10/26/2019	149	243	5	98	6,213		94	2	97.87		2,485		
Su	10/27/2019	147	218	5	98	6,130		111	1	99.10		1,226		
M	10/28/2019	254	140	64	54	135,575		85	26	69.46		55,077		50
T	10/29/2019	152	168	4	98	5,071		83	2	97.59		2,535		
W	10/30/2019	153	270	5	98	6,380		73	2	97.25		2,552		8
Th	10/31/2019	180	226	40	82	60,099		122	18	85.25		27,045		

TOTAL AVERAGE	5,047	5,583	347					2,875	162					
	163	180	11	93		17,368		93	5	94.37		8,363		17

Wk1	153	158	5			6,727		93	2			2,557		
Wk2	153	199	9			11,018		98	3			3,998		
Wk3	161	195	10			13,885		96	7			11,563		
Wk4	173	158	11			18,441		85	5			7,572		

MAX 254

CBOD 20 LBS---- 28,531

NPDES/ MO <30 >85 <50,400 <25 >89.25 <19,800
LIMIT WK <45 <75,060 <40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 ** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.
 (a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - OCTOBER 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
S 09/29/2019	165	7.0	4.1	0.19	48
M 09/30/2019	150	6.7	3.8	0.13	12
T 10/01/2019	148	6.9	5.7	0.13	2
W 10/02/2019	150	7.0	5.6	0.14	4
Th 10/03/2019	152	7.1	5.9	0.09	4
F 10/04/2019	162	6.9	6.0	0.11	2
S 10/05/2019	145	6.9	4.9	0.10	4
Su 10/06/2019	144	7.0	4.9	0.20	1
M 10/07/2019	148	7.0	4.5	0.19	6
T 10/08/2019	155	6.9	4.6	0.12	20
W 10/09/2019	151	7.1	4.8	0.19	9
Th 10/10/2019	155	7.1	4.4	0.21	12
F 10/11/2019	153	7.0	4.1	0.10	13
S 10/12/2019	158	6.8	5.8	0.05	5
Su 10/13/2019	156	7.0	4.1	0.20	186
M 10/14/2019	149	7.2	4.5	0.19	34
T 10/15/2019	152	7.0	4.3	0.15	8
W 10/16/2019	150	6.7	3.7	0.05	55
Th 10/17/2019	232	6.7	4.8	0.17	102
F 10/18/2019	145	6.9	4.9	0.16	6
S 10/19/2019	145	7.0	5.1	0.16	9
Su 10/20/2019	142	6.9	4.2	0.21	3
M 10/21/2019	215	7.0	4.5	0.07	9
T 10/22/2019	154	6.8	4.9	0.08	15
W 10/23/2019	235	6.8	4.9	0.23	6
Th 10/24/2019	162	7.0	5.2	0.34	3
F 10/25/2019	154	7.1	4.6	0.30	4
S 10/26/2019	149	7.1	4.8	0.18	23
Su 10/27/2019	147	7.0	5.3	0.27	3
M 10/28/2019	254	7.0	6.4	0.32	12
T 10/29/2019	152	7.0	4.8	0.26	5
W 10/30/2019	153	6.9	4.8	0.22	2
Th 10/31/2019	180	6.9	5.1	0.23	> 2,420
Total Avg	5,047 163	MIN 6.7 MAX 7.2	MIN 3.7 AVG 4.9	AVG 0.17 MAX 0.34	MEAN 10

Wk1 153
Wk2 153
Wk3 161
Wk4 173

NPDES/
LIMIT

EFFLUENT
MIN 6.0
MAX 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - OCTOBER 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
10/01/2019	18	118	160	140	142	162	79	89
10/02/2019	18	122	192	156	160	140	81	88
10/03/2019	18	123	168	128	133	134	86	92
10/04/2019	18	128	148	132	134	151	89	96
10/05/2019	18	115	184	164	166	143	86	93
10/06/2019	18	114	188	176	178	123	91	95
10/07/2019	19	117	180	172	173	150	109	114
10/08/2019	18	125	184	276	265	150	86	93
10/09/2019	18	121	160	128	132	143	80	88
10/10/2019	17	126	268	232	236	166	75	85
10/11/2019	18	124	192	176	178	170	82	92
10/12/2019	17	128	196	188	189	155	101	107
10/13/2019	18	123	208	248	243	136	103	107
10/14/2019	17	119	184	220	216	186	84	96
10/15/2019	18	121	200	212	211	156	84	93
10/16/2019	18	120	216	172	177	142	97	102
10/17/2019	30	178	280	204	214	140	88	95
10/18/2019	18	116	168	128	133	130	76	83
10/19/2019	20	114	180	172	173	122	92	96
10/20/2019	15	116	220	156	163	153	87	94
10/21/2019	27	174	208	120	131	161	86	95
10/22/2019	18	125	148	132	134	139	70	78
10/23/2019	26	188	184	160	163	125	69	75
10/24/2019	18	132	136	100	104	110	62	67
10/25/2019	18	124	152	172	170	141	88	94
10/26/2019	17	121	144	256	243	124	90	94
10/27/2019	18	117	204	220	218	172	102	111
10/28/2019	31	201	140	140	140	122	80	85
10/29/2019	19	122	140	172	168	118	78	83
10/30/2019	18	124	168	284	270	116	67	73
10/31/2019	19	145	208	228	226	173	116	122
AVG	19	130	184	179	180	144	86	93

PERMIT

SWWPCP - OCTOBER 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
10/01/2019		170			
10/02/2019	NM	150	NM	NM	ND
10/03/2019		158			
10/04/2019	101	175	109	27	75%
10/05/2019		151			
10/06/2019		184			
10/07/2019	111	195	122	18	85%
10/08/2019		160			
10/09/2019	90	154	98	28	71%
10/10/2019		177			
10/11/2019		191			
10/12/2019		174			
10/13/2019		197			
10/14/2019	93	196	105	19	82%
10/15/2019		166			
10/16/2019	101	167	109	23	79%
10/17/2019		149			
10/18/2019		133			
10/19/2019		159			
10/20/2019		162			
10/21/2019	96	170	105	27	74%
10/22/2019		146			
10/23/2019	95	139	100	29	71%
10/24/2019		123			
10/25/2019		151			
10/26/2019		124			
10/27/2019		185			
10/28/2019	89	150	96	39	60%
10/29/2019		138			
10/30/2019	106	143	110	18	84%
10/31/2019		183			
AVG	98	162	106	25	76%

DESIGN - 200 MGD

DATE	SWWPCP - OCTOBER 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
10/01/2019	18	118	12	148	174	
10/02/2019	18	122	10	150	182	
10/03/2019	18	123	11	152	177	0.05
10/04/2019	18	128	16	162	190	0.04
10/05/2019	18	115	12	145	172	
10/06/2019	18	114	12	144	177	
10/07/2019	19	117	12	148	181	T
10/08/2019	18	125	12	155	201	0.02
10/09/2019	18	121	12	151	173	0.10
10/10/2019	17	126	12	155	209	
10/11/2019	18	124	11	153	181	
10/12/2019	17	128	13	158	177	T
10/13/2019	18	123	15	156	184	0.01
10/14/2019	17	119	13	149	179	
10/15/2019	18	121	13	152	172	
10/16/2019	18	120	12	150	169	1.14
10/17/2019	30	178	24	232	466	
10/18/2019	18	116	11	145	171	
10/19/2019	20	114	11	145	160	
10/20/2019	15	116	11	142	174	0.51
10/21/2019	27	174	14	215	368	
10/22/2019	18	125	11	154	200	0.64
10/23/2019	26	188	21	235	447	
10/24/2019	18	132	12	162	196	
10/25/2019	18	124	12	154	189	
10/26/2019	17	121	11	149	175	T
10/27/2019	18	117	12	147	187	0.64
10/28/2019	31	201	22	254	438	
10/29/2019	19	122	11	152	177	0.01
10/30/2019	18	124	11	153	184	0.12
10/31/2019	19	145	16	180	315	0.59
TOTAL	598	4,041	408	5,047		3.87
AVG	19	130	13	163		
			MIN	142	160	
			MAX	254	466	

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF OCTOBER 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
10/02/2019	1.160	0.301	NR	17.70	NR
10/09/2019	1.070	0.418	19.50	17.10	0.410
10/16/2019	1.350	0.540	17.80	20.50	0.310
10/23/2019	0.710	0.436	18.60	18.60	0.204
10/30/2019	1.400	0.545	21.10	19.10	0.197
AVG	1.138	0.448	19.25	18.60	0.280
MAX	1.400	0.545	21.10	20.50	0.410

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
10/09/2019	0.010	< 0.050

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	10/09/2019
Copper	0.0050
Iron Dissolved	0.1140
Lead	< 0.0030
Nickel	0.0050
Selenium	< 0.0013
Zinc	0.0190

Organics Data (mg/L)

Southwest WPCP - Outfall

	10/08/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0030
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP			
OCTOBER 2019	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT	
	From NEWPCP	Biosolids Recycle Center / Synagro		From SWWPCP	Biosolids Recycle Center / Synagro		
	MGD	MGD		MGD	MGD		
10/01/2019	0.888	0.060	5.61	0.402	0.338	29.9	
10/02/2019		0.882	92.40	0.896	1.087	106.7	
10/03/2019	0.883	0.669	77.00	2.148	2.535	168.0	
10/04/2019	0.886	0.448	46.90	1.272	0.844	59.6	
10/05/2019	0.897	1.276	135.40	1.187	1.146	83.6	
10/06/2019	0.835	0.747	82.00	1.247	1.138	92.0	
10/07/2019		0.347	35.20	1.232	1.596	140.2	
10/08/2019	0.865	0.856	90.80	1.114	1.427	117.5	
10/09/2019	0.844	0.826	84.20	1.402	1.035	106.1	
10/10/2019				1.179	1.058	90.1	
10/11/2019	0.869	0.494	51.30	1.313	1.600	143.2	
10/12/2019	0.865	1.250	131.40	1.043	0.977	84.4	
10/13/2019				1.200	1.226	88.2	
10/14/2019	0.876	0.909	88.20	1.133	1.302	101.8	
10/15/2019	0.849	0.850	89.60	1.166	0.810	74.2	
10/16/2019		0.005		1.350	1.382	124.6	
10/17/2019	0.850	0.675	62.40	1.208	1.634	153.5	
10/18/2019	0.841	0.398	33.70	1.195	0.651	63.3	
10/19/2019	0.858	1.115	108.20	0.882	1.128	106.6	
10/20/2019		0.357	40.70	0.978	0.727	65.5	
10/21/2019	0.855	0.398	41.50	1.039	0.615	55.9	
10/22/2019	0.857	1.285	170.10	1.203	1.845	174.6	
10/23/2019	0.889	0.850	84.10	1.633	1.305	125.6	
10/24/2019	0.838	0.813	85.10	1.047	0.960	93.1	
10/25/2019	0.843	0.510	51.70	1.025	1.303	148.4	
10/26/2019	0.793	1.273	134.20	0.744	0.699	76.6	
10/27/2019		0.005	0.10	1.111	1.551	135.5	
10/28/2019	0.879	0.814	85.10	1.327	1.509	174.2	
10/29/2019	0.875	0.884	97.30	1.302	0.711	72.4	
10/30/2019	0.858	0.440	44.60	1.370	1.360	138.3	
10/31/2019	0.870	1.362	136.20	1.052	1.225	116.6	
TOTAL	20.663	20.798	2,185	36.400	36.724	3,310	
AVERAGE	0.861	0.717	78	1.174	1.185	107	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: PHILA WATER DEPT
ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
STAGE: Final Effluent

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 10/01/2019
DMR Effective To: 10/31/2019
Permit Expires: 08/31/2012
Permit Application Due: 03/04/2012
No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	10	01	TO	2019	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	3.7	4.9	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.7	***	7.2	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	17368	18441	lbs/day	***	11	11	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	19.25	21.10	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Nitrite an N (00615)	Sample Measurement	***	***	***	***	1.138	1.400	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	.448	.545	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	18.60	20.50	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.280	.410	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0030	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
	Facility Parameter Comments	See attached data qualifier report.								
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.1140	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0050	***	mg/L	1/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Zinc, Total (01092)	Sample Measurement	***	***	---	---	.0190	---	mg/L	1/month	24-Hr Composite
	Permit Requirement	---	---	---	---	Monitor & Report Avg Mo	---		1/month	24-Hr Composite
Selenium, Total (01147)	Sample Measurement	---	---	---	---	<.0013	---	mg/L	1/month	24-Hr Composite
	Permit Requirement	---	---	---	---	Monitor & Report Avg Mo	---		1/month	24-Hr Composite
Flow (50050)	Sample Measurement	163	254	MGD	---	---	---	---	Continuous	Metered
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	---	---	---	---	---	Continuous	Metered
Total Residual Chlorine (TRC) (50060)	Sample Measurement	---	---	---	---	.17	.34	mg/L	1/day	Grab
	Permit Requirement	---	---	---	---	.5 Avg Mo	1.0 MAX		1/day	Grab
Cyanide, Free (51173)	Sample Measurement	---	---	---	---	.010	---	mg/L	1/month	24-Hr Composite
	Permit Requirement	---	---	---	---	Monitor & Report Avg Mo	---		1/month	24-Hr Composite
Tetrachloroethylene (34475)	Sample Measurement	---	---	---	---	<.0005	---	mg/L	1/month	Grab
	Permit Requirement	---	---	---	---	Monitor & Report Avg Mo	---		1/month	Grab
Trichloroethylene (39180)	Sample Measurement	---	---	---	---	<.0005	---	mg/L	1/month	Grab
	Permit Requirement	---	---	---	---	Monitor & Report Avg Mo	---		1/month	Grab
Fecal Coliform (74055)	Sample Measurement	---	---	---	---	10	---	CFU/100 ml	1/day	Grab
	Permit Requirement	---	---	---	---	2DB Geo Mean	---		1/day	Grab
Facility Parameter Comments		See attached data qualifier report.								
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	8363	11563	lbs/day	---	5	7	mg/L	1/day	24-Hr Composite
	Permit Requirement	19800 Avg Mo	29700 Wkly Avg	---	---	25 Avg Mo	40 Wkly Avg		1/day	24-Hr Composite
BOD, carbonaceous, 20 day, 20 C (80087)	Sample Measurement	28531	---	lbs/day	---	---	---	---	2/week	24-Hr Composite
	Permit Requirement	35830 Avg Mo	---	---	---	---	---		2/week	24-Hr Composite
Facility Parameter Comments		See attached data qualifier report.								
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2019
 DMR Effective To: 10/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	10	01	TO	2019	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.		
	Permit Requirement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX		Daily when Discharging	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***		1/discharge	Estimate
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	***	***	CFU/100 ml		
	Permit Requirement	***	***		***	***	Monitor & Report IMAX		Daily when Discharging	Grab
Duration of Discharge (81381)	Sample Measurement	***	***	minutes	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***		1/discharge	Estimate
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 10/01/2019
 DMR Effective To: 10/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	10	01	TO	2019	10	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	94.37	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	93	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
SW Daily Composite (11-21-2019).pdf	Laboratory Accreditation Form	2019-11-26T13:13:06-05:00	
SW Daily Grab (11-21-2019).pdf	Laboratory Accreditation Form	2019-11-26T13:13:31-05:00	
SWCSO 201910.xlsx	CSO Detailed Outfall Report Form	2019-11-26T13:11:50-05:00	
Sludge Dewatering Report OCT 2019.pdf	Sewage Sludge / Biosolids Production and Disposal Form	2019-11-26T13:17:34-05:00	
E-NPDES SW201910.xlsx	Daily Effluent Monitoring Form	2019-11-26T13:11:19-05:00	
BLSSW201910.xlsx	Nutrient Monitoring Form	2019-11-26T13:12:15-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There is no result for the CBOD20 sample that was collected on 10/2, or for the Ammonia or Phosphorus result on 10/2 due to laboratory error. There is no indication that results of this analysis would have any impact on permit compliance. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
senssm			(215)	685-6258	2019	11	26
		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

SW Daily Composite

Report: BLS20191121-006
 Report Date: 11/21/2019

WW191002-009

SW123E

Composite 24h 10/02/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Ammonia	NA			1/1/2000	0:00	NR	mg/L as N	0.5	mg/L as N
CBOD20	NA			1/1/2000	0:00	NM	mg/L	2	mg/L

Data Qualifiers:

Ammonia	Sample was lost to a lab accident.
CBOD20	Lab accident. Analyst dumped CBOD bottle on day 5.

WW191009-009

SW123E

Composite 24h 10/09/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Ammonia	SM 4500-NH3 D			11/20/2019	14:57	19.5	mg/L as N	0.5	mg/L as N
Phenols ^{A,D}	EPA 420.1	10/14/2019	13:50	10/15/2019	11:56	0.060 ^E	mg/L	0.05	mg/L

Data Qualifiers:

Ammonia	The holding time was exceeded. The sample holding time is 28 days. Sample analysis began at 41 days from sample collection.
Phenols	LIMS has appended an extra zero to this value. The result reported by the contract lab is 0.06 mg / L

WW191016-009

SW123E

Composite 24h 10/16/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Ammonia	SM 4500-NH3 D			11/20/2019	14:57	17.8	mg/L as N	0.5	mg/L as N

Data Qualifiers:

Ammonia	The holding time was exceeded. The sample holding time is 28 days. Sample analysis began at 34 days from sample collection.
---------	---

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:

Aaron Bitler

Title:

Laboratory Manager

Date:

11/21/2019

Philadelphia Water Department
Bureau of Laboratory Services
1500 E. Hunting Park Avenue
Philadelphia, PA 19124

Report prepared for:
PADEP
2 East Main Street
Norristown, PA 19401

SW Daily Grab

Report: BLS20191121-007
Report Date: 11/21/2019

WW191025-005

SW123E

Grab 10/25/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Colilert-18/Quantitray)	Colilert 18 /Quantit			10/26/2019	7:45	4.1	MPN/100 mL	<1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Colilert-18/Quantitray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.72. The maximum acceptable PCV is 0.403. The measured results were 5.2 MPN/mL and 1.0 MPN/mL. PCV 0.403 was exceeded due to low values in samples.
--	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
Signature: _____
Name: Aaron Bitler
Title: Laboratory Manager
Date: 11/21/2019



Randy E. Hayman, Water Commissioner

December 26, 2019

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for November 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 11/01/2019-11/30/2019

Report Due Date: 12/28/2019

Submitted By: Mary Ellen Senss

Submission Id: 182068

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for November 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

PERMIT

SWWPCP - NOVEMBER 2019

COMPOSITE SAMPLES

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM			CBOD5* %REM				
F 11/01/2019	275	196	73	63		167,426		77	48	37.97		110,088	
S 11/02/2019	178	128	7	95		10,392		83	3	96.36		4,454	
Su 11/03/2019	157	150	4	97		5,238		92	1	98.91		1,309	
M 11/04/2019	156	149	4	97		5,204		86	2	97.66		2,602	8
T 11/05/2019	152	241	7	97		8,874		103	2	98.05		2,535	
W 11/06/2019	149	201	8	96		9,941		124	3	97.57		3,728	14
Th 11/07/2019	148	324	15	95		18,515		101	5	95.05		6,172	
F 11/08/2019	159	324	17	95		22,543		143	5	96.50		6,630	
S 11/09/2019	144	131	31	76		37,230		107	7	93.43		8,407	
Su 11/10/2019	147	156	85	45		104,208		79	14	82.20		17,164	
M 11/11/2019	146	205	81	61		98,629		83	14	83.03		17,047	38
T 11/12/2019	152	192	21	89		26,621		103	5	95.15		6,338	
W 11/13/2019	163	219	13	94		17,672		105	3	97.13		4,078	11
Th 11/14/2019	154	180	5	97		6,422		116	2	98.27		2,569	
F 11/15/2019	152	186	12	94		15,212		92	6	93.49		7,606	
S 11/16/2019	150	198	13	93		16,263		95	8	91.56		10,008	
Su 11/17/2019	154	154	39	75		50,090		111	13	88.28		16,697	
M 11/18/2019	141	270	10	96		11,759		129	4	96.91		4,704	11
T 11/19/2019	157	191	4	98		5,238		109	4	96.33		5,238	
W 11/20/2019	144	96	6	94		7,206		83	4	95.20		4,804	9
Th 11/21/2019	147	223	10	96		12,260		119	3	97.49		3,678	
F 11/22/2019	140	203	26	87		30,358		89	12	86.51		14,011	26
S 11/23/2019	157	248	35	86		45,828		162	9	94.45		11,784	
Su 11/24/2019	191	258	104	60		165,666		136	34	75.04		54,160	
M 11/25/2019	218	137	94	32		170,903		114	29	74.60		52,725	57
T 11/26/2019	156	238	28	88		36,429		120	7	94.18		9,107	7
W 11/27/2019	153	184	5	97		6,380		100	2	98.00		2,552	
Th 11/28/2019	152	188	3	98		3,803		118	2	98.30		2,535	
F 11/29/2019	144	158	3	98		3,603		121	1	99.17		1,201	
S 11/30/2019	142	194	4	98		4,737		140	1	99.28		1,184	

TOTAL	4,778	5,918	767					3,238	253				
AVERAGE	159	197	26	86		37,488		108	8	91.54		13,171	20

Wk1	152	217	12			15,363		108	4			4,483	
Wk2	152	191	33			40,718		96	7			9,259	
Wk3	149	198	19			23,248		115	7			8,702	
Wk4	165	194	34			55,932		121	11			17,638	

MAX 275

CBOD 20 LBS---- 28,430

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT

SWWPCP - NOVEMBER 2019

GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
F 11/01/2019	275	6.7	5.5	0.20	1,986
S 11/02/2019	178	6.9	4.5	0.10	4
Su 11/03/2019	157	6.9	6.7	0.08	41
M 11/04/2019	156	6.9	4.3	0.21	3
T 11/05/2019	152	6.9	5.1	0.26	3
W 11/06/2019	149	6.9	5.2	0.22	1
Th 11/07/2019	148	6.9	5.1	0.30	5
F 11/08/2019	159	7.1	5.3	0.32	9
S 11/09/2019	144	6.8	5.5	0.12	5
Su 11/10/2019	147	6.7	5.1	0.06	6
M 11/11/2019	146	7.0	4.9	0.33	4
T 11/12/2019	152	6.9	5.0	0.30	< 1
W 11/13/2019	163	6.9	6.0	0.37	2
Th 11/14/2019	154	7.0	5.8	0.35	3
F 11/15/2019	152	7.0	5.0	0.28	8
S 11/16/2019	150	7.1	4.8	0.22	26
Su 11/17/2019	154	6.9	7.5	0.14	5
M 11/18/2019	141	6.9	7.8	0.26	2
T 11/19/2019	157	6.9	7.7	0.12	9
W 11/20/2019	144	7.0	4.6	0.21	5
Th 11/21/2019	147	7.0	5.4	0.25	4
F 11/22/2019	140	6.8	5.6	0.14	140
S 11/23/2019	157	6.8	4.8	0.17	9
Su 11/24/2019	191	7.1	4.4	0.23	> 2,420
M 11/25/2019	218	7.5	6.3	0.28	127
T 11/26/2019	156	7.4	6.2	0.28	24
W 11/27/2019	153	6.9	6.2	0.25	4
Th 11/28/2019	152	7.1	5.6	0.38	8
F 11/29/2019	144	7.0	5.8	0.39	5
S 11/30/2019	142	7.1	6.5	0.36	1
Total Avg	4,778 159	MIN MAX 6.7 7.5	MIN AVG 4.3 5.6	AVG MAX 0.24 0.39	MEAN 9

Wk1 152
Wk2 152
Wk3 149
Wk4 165

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - NOVEMBER 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
11/01/2019	29	222	260	188	196	140	70	77
11/02/2019	23	141	128	128	128	113	78	83
11/03/2019	20	125	140	152	150	141	85	92
11/04/2019	20	123	184	144	149	124	80	86
11/05/2019	19	121	216	244	241	134	98	103
11/06/2019	19	118	180	204	201	142	121	124
11/07/2019	18	118	236	336	324	159	93	101
11/08/2019	19	127	268	332	324	200	135	143
11/09/2019	18	116	148	128	131	146	101	107
11/10/2019	18	119	184	152	156	148	69	79
11/11/2019	20	118	212	204	205	155	71	83
11/12/2019	19	121	188	192	192	132	99	103
11/13/2019	19	132	212	220	219	155	98	105
11/14/2019	19	123	212	176	180	150	111	116
11/15/2019	18	123	200	184	186	138	86	92
11/16/2019	18	121	180	200	198	159	86	95
11/17/2019	19	123	196	148	154	153	105	111
11/18/2019	18	113	228	276	270	194	120	129
11/19/2019	18	128	180	192	191	163	102	109
11/20/2019	17	116	188	84	96	138	76	83
11/21/2019	18	117	244	220	223	180	111	119
11/22/2019	18	111	220	200	203	136	82	89
11/23/2019	17	129	248	248	248	156	163	162
11/24/2019	21	153	304	252	258	211	127	136
11/25/2019	25	179	240	124	137	185	105	114
11/26/2019	19	126	192	244	238	180	112	120
11/27/2019	19	122	212	180	184	150	93	100
11/28/2019	19	122	240	180	188	163	111	118
11/29/2019	19	114	220	148	158	177	112	121
11/30/2019	18	113	204	192	194	180	134	140
AVG	19	128	209	196	197	157	101	108

PERMIT

SWWPCP - NOVEMBER 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
11/01/2019		175			
11/02/2019		123			
11/03/2019		150			
11/04/2019	107	182	117	14	88%
11/05/2019		182			
11/06/2019	131	153	134	22	84%
11/07/2019		171			
11/08/2019		210			
11/09/2019		171			
11/10/2019		157			
11/11/2019	81	165	93	46	50%
11/12/2019		153			
11/13/2019	129	173	134	22	84%
11/14/2019		172			
11/15/2019		173			
11/16/2019		172			
11/17/2019		169			
11/18/2019	132	198	140	16	89%
11/19/2019		172			
11/20/2019	81	152	89	19	79%
11/21/2019		219			
11/22/2019		154			
11/23/2019		166			
11/24/2019		222			
11/25/2019	115	194	124	37	70%
11/26/2019	NM	188	NM	NM	ND
11/27/2019		157			
11/28/2019		193			
11/29/2019		283			
11/30/2019		199			
AVG	111	178	119	25	78%

DESIGN - 200 MGD

DATE	SWWPCP - NOVEMBER 2019					RAIN
	Delcora	TRIPLE GRAVITY/HLL	LLE	SW TOTAL	PEAK FLOW	
11/01/2019	29	222	24	275	416	0.06
11/02/2019	23	141	14	178	260	
11/03/2019	20	125	12	157	192	
11/04/2019	20	123	13	156	193	
11/05/2019	19	121	12	152	185	
11/06/2019	19	118	12	149	178	
11/07/2019	18	118	12	148	180	0.08
11/08/2019	19	127	13	159	222	
11/09/2019	18	116	10	144	181	
11/10/2019	18	119	10	147	188	
11/11/2019	20	118	8	146	205	
11/12/2019	19	121	12	152	177	0.10
11/13/2019	19	132	12	163	237	
11/14/2019	19	123	12	154	171	
11/15/2019	18	123	11	152	184	
11/16/2019	18	121	11	150	176	
11/17/2019	19	123	12	154	174	
11/18/2019	18	113	10	141	183	T
11/19/2019	18	128	11	157	183	
11/20/2019	17	116	11	144	180	
11/21/2019	18	117	12	147	171	T
11/22/2019	18	111	11	140	179	0.04
11/23/2019	17	129	11	157	197	0.09
11/24/2019	21	153	17	191	433	0.79
11/25/2019	25	179	14	218	363	
11/26/2019	19	126	11	156	184	
11/27/2019	19	122	12	153	174	T
11/28/2019	19	122	11	152	181	
11/29/2019	19	114	11	144	185	
11/30/2019	18	113	11	142	166	
TOTAL	581	3,834	363	4,778		1.16
AVG	19	128	12	159		
			MIN	140	166	
			MAX	275	433	

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
11/06/2019	0.729	0.777	9.57	11.00	0.248
11/13/2019	0.760	0.922	10.10	11.00	0.218
11/20/2019	0.935	0.576	19.20	17.70	0.198
11/26/2019	0.830	1.690	15.80	15.10	0.178
AVG	0.814	0.991	13.67	13.70	0.211
MAX	0.935	1.690	19.20	17.70	0.248

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
11/06/2019	0.019	< 0.010

Metals Data (mg/L)

Southwest WPCP - Outfall

Date	11/06/2019
Copper	0.0007
Iron Dissolved	0.1390
Lead	< 0.0030
Nickel	0.0040
Selenium	< 0.0130
Zinc	0.0230

Organics Data (mg/L)

Southwest WPCP - Outfall

	11/05/2019
1,2-Dichloroethane	< 0.0005
Chloroform	0.0064
Tetrachloroethylene	< 0.0005
Trichloroethylene	< 0.0005

**BIOSOLIDS RECYCLE CENTER
 SLUDGE DEWATERING SUMMARY REPORT**

PA 0026689 NEWPCP				PA 0026671 SWWPCP		
NOVEMBER 2019	Sludge Flow To	Sludge Processed by	DT	Sludge Flow To	Sludge Processed by	DT
	From NEWPCP MGD	Biosolids Recycle Center / Synagro MGD		From SWWPCP MGD	Biosolids Recycle Center / Synagro MGD	
11/01/2019	0.820	0.766	96.36	1.200	1.381	149.7
11/02/2019				0.836	1.192	114.2
11/03/2019	0.844	0.903	98.95	0.798	0.506	54.6
11/04/2019	0.854	0.543	56.91	1.162	1.408	137.2
11/05/2019	0.866	0.432	45.56	1.529	1.189	127.7
11/06/2019	0.830	1.228	132.33	1.350	1.255	109.5
11/07/2019	0.887	0.958	104.33	1.314	1.260	117.1
11/08/2019	0.847	0.209	20.05	0.550	0.505	46.7
11/09/2019		0.640	68.40	1.266	1.421	169.2
11/10/2019	1.499	1.412	153.88	0.374	0.479	41.1
11/11/2019	0.862	0.821	87.38	1.325	1.412	161.1
11/12/2019	0.778	0.457	48.38	0.900	0.470	49.8
11/13/2019	0.899	0.955	86.96	1.375	1.609	157.4
11/14/2019	0.803	1.072	105.90	0.372		
11/15/2019	0.863	0.634	49.83	1.574	2.339	202.5
11/16/2019	1.675	1.437	119.47	1.257	1.548	142.4
11/17/2019	0.821	1.498	119.48	0.439		
11/18/2019	1.742	1.310	99.44	0.460	0.140	13.1
11/19/2019	0.893	1.467	108.63	1.362	1.894	191.7
11/20/2019	1.676	0.809	59.70	2.211	2.294	227.6
11/21/2019	0.803	1.388	112.28	0.725	0.689	61.7
11/22/2019	1.103	0.993	75.88	1.435	1.033	96.7
11/23/2019	1.442	1.026	70.65	1.551	1.771	159.3
11/24/2019		0.773	53.87	1.362	1.403	130.3
11/25/2019	0.852	0.880	73.07	1.868	1.892	182.1
11/26/2019	1.610	1.128	86.88	1.103	0.998	88.7
11/27/2019	0.856	1.102	152.56	1.718	1.817	179.8
11/28/2019	0.838	0.992	132.29	2.051	1.773	176.2
11/29/2019	0.834	0.835	115.27	1.570	1.504	133.9
11/30/2019	1.672	0.890	115.19	1.451	1.117	108.0
TOTAL	28.469	27.558	2,650	36.488	36.299	3,529
AVERAGE	1.054	0.950	91	1.216	1.296	126

SW Daily Composite

Report: BLS20191223-006
 Report Date: 12/23/2019

WW191105-009

SW123E

Composite 24h 11/05/2019 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
CBOD5	SM 5210 B	11/5/2019	9:15	11/10/2019	7:50	2.00	mg/L	2	mg/L

Data Qualifiers:

CBOD5	GGA recovery is 149%. Acceptance limits are 85 to 115%
-------	--

WW191114-009

SW123E

Composite 24h 11/14/2019 06:00

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
CBOD5	SM 5210 B	11/14/2019	10:00	11/19/2019	7:50	<2	mg/L	2	mg/L

Data Qualifiers:

CBOD5	IDO was 9.54 mg/L. Should be 9.0 or less
-------	--

Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401
- D - Test performed by a contract laboratory.
- E - Analytical results from a contract laboratory.

Authorized by: 
 Signature: _____

Name: Aaron Bitler
 Title: Laboratory Manager
 Date: 12/23/2019

SW Daily Grab

Report: BLS20191223-007
 Report Date: 12/23/2019

WW191103-005

SW123E

Grab 11/03/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			11/4/2019	8:11	40.8	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is .811. The maximum acceptable PCV is 0.403. The measured results were 6.3 MPN/100mL and 40.8 MPN/100mL.
---	--

WW191106-020

SW123E

Grab 11/06/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			11/7/2019	8:27	1.0	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is .716. The maximum acceptable PCV is 0.403. The measured results were 1.0 MPN/100mL and 5.2 MPN/100mL. PCV 0.403 was exceeded due to low values in samples.
---	--

WW191119-005

SW123E

Grab 11/19/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			11/20/2019	8:43	8.5	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.438. The maximum acceptable PCV is 0.403. The measured results were 8.5 MPN/mL and 3.1 MPN/mL. PCV 0.403 was exceeded due to low values in samples
---	--

WW191126-005

SW123E

Grab 11/26/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			11/27/2019	8:44	23.8	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.498. The maximum acceptable PCV is 0.403. The measured results were 6.3 MPN/100mL and 2.0 MPN/100mL. PCV 0.403 was exceeded due to low values in samples.
---	---

WW191129-005

SW123E

Grab 11/29/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			11/30/2019	8:45	5.2	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The Precision Criteria Value (PCV) between the sample and sample duplicate is 0.415. The maximum acceptable PCV is 0.403. The measured results were 5.2 MPN/100mL and 2.0 MPN/100mL. PCV of 0.403 was exceeded.
---	---

WW191130-005

SW123E

Grab 11/30/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
Coliforms Fecal (Collert-18/Quant-Tray)	Collert 18/Quantitr			12/1/2019	8:18	1.0	MPN/100 mL	1	MPN/100 mL

Data Qualifiers:

Coliforms Fecal (Collert-18/Quant-Tray)	The calculated Precision Criteria Value (PCV) between the sample and sample duplicate is 0.591. The maximum acceptable PCV is 0.403. The measured results were 16.0 MPN/100mL and 4.1 MPN/100mL. PCV of 0.403 was exceeded.
---	---

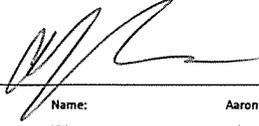
Legend

- A - Results reported on a basis other than as received, e.g. dry weight.
- B - Tests performed are not covered by BLS's scope of accreditation.
- C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:	Aaron Bitler
Title:	Laboratory Manager
Date:	12/23/2019

SW Outfall Monthly Grab

Report: BLS20191223-008
Report Date: 12/23/2019

WW191105-012

SW123E

Grab 11/05/2019 06:30

Parameter	Analytical Method	Sample Preparation Date	Sample Preparation Time	Sample Analysis Date	Sample Analysis Time	Analysis Result	Units	Quantitation Limit	Units2
1,2-Dichloroethane ^{B,D}	EPA 624.1			11/7/2019	16:53	<0.5 ^E	µg/L	0.5	µg/L

Data Qualifiers:

1,2-Dichloroethane	The Laboratory Control Sample for the analysis batch associated with this sample was above acceptance criteria, however the analyte was not detected in the associated sample. Data may be fully useable under the 2009 TNI Standard.
--------------------	---

Legend

A - Results reported on a basis other than as received, e.g. dry weight.

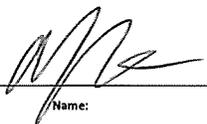
B - Tests performed are not covered by BLS's scope of accreditation.

C - Results not meeting the requirements of PA 25 § 252.401

D - Test performed by a contract laboratory.

E - Analytical results from a contract laboratory.

Authorized by:

Signature: 

Name:

Aaron Bitler

Title:

Laboratory Manager

Date:

12/23/2019



Randy E. Hayman, Water Commissioner

January 24, 2020

The City of Philadelphia hereby submits the Monthly Discharge Monitoring Report (DMR) for the Southwest Water Pollution Control Plant for December 2019. We are pleased to report that the plant achieved compliance for all parameters as outlined in the National Pollutant Discharge Elimination System (NPDES) permit.

Facility Name: PHILA WATER DEPT - SOUTHWEST WPC PLANT

Permit Number: PA0026671

Report Frequency: Monthly

Report Type: DMR

Reporting Period: 12/01/2019-12/31/2019

Report Due Date: 01/28/2020

Submitted By: Mary Ellen Senss

Submission Id: 188286

Submission Status: Received

Submission Type: Original

SOUTHWEST WATER POLLUTION CONTROL PLANT

Monthly Monitoring Report for December 2019

Combined Sewer Overflow - Effluent By-Pass To Eagle Creek

DATE	Start Time	End Time	Duration Hours	Total Flow	

COMMENTS: THERE WERE NO OCCASIONS OF OVERFLOW TO THE EFFLUENT BY- PASS THIS MONTH

ACTION LEVEL: DISCHARGE TO THE BY-PASS OCCURS AT ELEVATIONS ABOVE 99.4 FEET

MAXIMUM PEAK FLOW = 400 MGD MAXIMUM DAILY FLOW = 300 MGD

Combined Sewer Overflow - Influent Gate Throttling

GATE THROTTLED: EAST , WEST, CENTER, DELCORA, NORTH, OR SOUTH

DATE	Start Time	End Time	% Closed	Overflow Y/N	Remarks

COMMENTS: THERE WERE NO OCCASIONS OF INFLUENT GATE THROTTLING THIS MONTH

ACTION LEVEL: Overflow to Eagle Creek from the plant occurs at elevations above 88.0 feet in the Influent Low Level Sewers.

**PERMIT
SWWPCP - DECEMBER 2019
COMPOSITE SAMPLES**

DATE	FLOW (MGD)	Suspended Solids					LBS	LBS**	inf (mg/l)	eff (mg/l)	CBOD 5		LBS	LBS**	CBOD 20 (mg/l)
		inf (mg/l)	eff (mg/l)	SS% REM	SS% REM*	CBOD5 %REM					CBOD5* %REM				

Su	12/01/2019	172	127	4	97	5,738		313	1	99.68		1,434		
M	12/02/2019	163	191	14	93	19,032		209	8	96.18		10,875		11
T	12/03/2019	154	78	4	95	5,137		116	2	98.28		2,569		
W	12/04/2019	160	11	1	91	1,334		100	8	92.00		10,675		10
Th	12/05/2019	150	80	2	97	2,502		125	2	98.40		2,502		
F	12/06/2019	149	108	4	96	4,971		232	1	99.57		1,243		9
S	12/07/2019	150	90	2	98	2,502		140	2	98.57		2,502		
Su	12/08/2019	149	98	3	97	3,728		158	1	99.37		1,243		
M	12/09/2019	299	104	2	98	4,993		141	2	98.58		4,993		5
T	12/10/2019	240	76	16	79	32,026		190	11	94.21		22,018		
W	12/11/2019	214	59	5	91	8,924		111	2	98.20		3,570		5
Th	12/12/2019	184	73	3	96	4,604		93	2	97.84		3,069		
F	12/13/2019	163	81	4	95	5,438		91	2	97.81		2,719		
S	12/14/2019	236	87	4	95	7,873		161	2	98.76		3,936		
Su	12/15/2019	201	86	4	95	6,705		127	2	98.42		3,353		
M	12/16/2019	160	115	3	97	4,003		188	3	98.40		4,003		10
T	12/17/2019	234	76	19	75	37,080		145	14	90.38		27,322		
W	12/18/2019	283	46	33	28	77,887		76	11	85.46		25,962		19
Th	12/19/2019	184	63	2	97	3,069		102	2	98.04		3,069		
F	12/20/2019	171	82	3	96	4,278		154	3	98.05		4,278		
S	12/21/2019	163	85	4	95	5,438		155	3	98.06		4,078		
Su	12/22/2019	188	83	3	96	4,704		164	2	98.78		3,136		
M	12/23/2019	165	81	3	96	4,128		136	2	98.53		2,752		4
T	12/24/2019	168	76	2	97	2,802		136	2	98.52		2,802		
W	12/25/2019	168	79	3	96	4,203		130	1	99.23		1,401		6
Th	12/26/2019	163	88	3	97	4,078		158	1	99.37		1,359		
F	12/27/2019	176	56	4	93	5,871		167	4	97.61		5,871		
S	12/28/2019	164	72	3	96	4,112		161	2	98.76		2,741		
Su	12/29/2019	164	72	3	96	4,103		122	1	99.18		1,368		7
M	12/30/2019	231	80	17	79	32,751		157	5	96.81		9,633		
T	12/31/2019	265	54	31	42	68,513		145	8	94.50		17,681		13

TOTAL	5,832	2,555	208					4,605	112					
AVERAGE	188	82	7	90		12,340		149	4	97.28		6,263		9

Wk1	157	98	4			5,888		177	3			4,543		
Wk2	212	82	5			9,655		135	3			5,935		
Wk3	199	79	10			19,780		135	5			10,295		
Wk4	170	76	3			4,271		150	2			2,866		

MAX 299

CBOD 20 LBS---- 15,518

NPDES/
LIMIT MO <30 >85 <50,400
WK <45 <75,060

<25 >89.25 <19,800
<40 <29,700

CBOD 20 MO LIMIT---- <35,830

* ACTUAL PERCENT REMOVAL ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

** ACTUAL LOADING ON DATES WHEN FLOW EXCEEDED MAXIMUM DAY VALUE AND DEFAULT VALUE USED.

(a) DEFAULT WEEKLY LOADING USED WHEN FLOW EXCEEDED MAXIMUM DAY VALUE.

PERMIT
SWWPCP - DECEMBER 2019
GRAB SAMPLES

Date	FLOW (MGD)	pH EFF	DISSOLVED OXYGEN (mg/l)	CHLORINE RESIDUAL (mg/l)	FECAL COLIFORM (MPN / 100mL)
Su 12/01/2019	172	7.1	7.2	0.44	< 1
M 12/02/2019	163	6.9	8.0	0.44	2
T 12/03/2019	154	7.1	7.0	0.12	1
W 12/04/2019	160	7.3	5.6	0.29	6
Th 12/05/2019	150	7.0	6.2	0.17	1
F 12/06/2019	149	7.1	6.1	0.37	2
S 12/07/2019	150	7.1	6.1	0.18	2
Su 12/08/2019	149	7.1	6.1	0.40	2
M 12/09/2019	299	7.1	5.8	0.22	4
T 12/10/2019	240	6.9	6.2	0.50	10
W 12/11/2019	214	6.9	6.0	0.16	16
Th 12/12/2019	184	7.1	6.6	0.41	11
F 12/13/2019	163	7.0	7.0	0.27	7
S 12/14/2019	236	6.9	7.3	0.40	8
Su 12/15/2019	201	7.1	6.0	0.32	3
M 12/16/2019	160	6.9	5.8	0.11	5
T 12/17/2019	234	6.9	9.3	0.05	> 2,420
W 12/18/2019	283	7.0	8.0	0.32	5
Th 12/19/2019	184	6.7	7.9	0.20	4
F 12/20/2019	171	6.9	7.2	0.35	< 1
S 12/21/2019	163	7.1	6.9	0.39	1
Su 12/22/2019	188	7.1	6.8	0.41	1
M 12/23/2019	165	6.7	7.0	0.14	2
T 12/24/2019	168	6.7	6.7	0.21	3
W 12/25/2019	168	7.1	6.7	0.38	5
Th 12/26/2019	163	7.1	6.8	0.31	6
F 12/27/2019	176	7.1	7.6	0.37	4
S 12/28/2019	164	7.1	7.7	0.16	3
Su 12/29/2019	164	6.8	6.7	0.13	> 2,420
M 12/30/2019	231	7.0	8.3	0.22	7
T 12/31/2019	265	6.9	8.2	0.32	0
Total	5,832	MIN MAX	MIN AVG	AVG MAX	MEAN
Avg	188	6.7 7.3	5.6 6.9	0.28 0.50	4

Wk1 157
Wk2 212
Wk3 199
Wk4 170

NPDES/
LIMIT

EFFLUENT
MIN MAX
6.0 9.0

GEOMETRIC
MEAN
<200

PERMIT

SWWPCP - DECEMBER 2019

	FLOW		SUSPENDED SOLIDS			CBOD5		
	TRIPLE		MG/L			MG/L		
	DELCO MGD	GRAVITY MGD	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT	DELCO	EAST HIGH LEVEL	PERMIT INFLUENT
12/01/2019	20	140	171	121	127	200	328	313
12/02/2019	20	127	168	194	191	276	200	209
12/03/2019	2	140	131	77	78	152	116	116
12/04/2019	20	127	74	2	11	184	88	100
12/05/2019	18	119	123	74	80	132	124	125
12/06/2019	18	119	149	102	108	232	232	232
12/07/2019	18	119	127	85	90	172	136	140
12/08/2019	19	117	151	90	98	200	152	158
12/09/2019	37	236	146	98	104	148	140	141
12/10/2019	37	172	129	66	76	200	188	190
12/11/2019	27	172	78	56	59	132	108	111
12/12/2019	24	147	96	70	73	124	88	93
12/13/2019	21	130	118	75	81	196	76	91
12/14/2019	25	192	124	83	87	204	156	161
12/15/2019	27	159	119	81	86	144	124	127
12/16/2019	22	126	161	108	115	160	192	188
12/17/2019	29	182	124	69	76	156	144	145
12/18/2019	37	224	60	44	46	100	72	76
12/19/2019	25	143	81	60	63	116	100	102
12/20/2019	23	137	127	75	82	140	156	154
12/21/2019	22	134	104	82	85	148	156	155
12/22/2019	42	134	125	71	83	148	168	164
12/23/2019	22	132	119	75	81	216	124	136
12/24/2019	21	134	128	69	76	188	128	136
12/25/2019	22	134	136	70	79	200	120	130
12/26/2019	20	131	142	80	88	176	156	158
12/27/2019	20	142	87	52	56	192	164	167
12/28/2019	20	132	105	67	72	196	156	161
12/29/2019	20	132	125	65	72	140	120	122
12/30/2019	24	190	124	75	80	128	160	157
12/31/2019	30	216	89	49	54	156	144	145
AVG	24	150	121	77	82	170	146	149

PERMIT

SWWPCP - DECEMBER 2019

Date	BOD5 INFLUENT EAST HIGH LEVEL MG/L	BOD5 INFLUENT DELCORA MG/L	BOD5 PERMIT INFLUENT MG/L	BOD5 PERMIT EFFLUENT MG/L	BOD5 PERMIT %REM
12/01/2019		197			
12/02/2019	115	189	124	19	85%
12/03/2019		166			
12/04/2019	175	98	165	13	92%
12/05/2019		133			
12/06/2019		171			
12/07/2019		170			
12/08/2019		187			
12/09/2019	108	156	114	15	87%
12/10/2019		139			
12/11/2019	76	114	81	10	88%
12/12/2019		138			
12/13/2019		145			
12/14/2019		154			
12/15/2019		130			
12/16/2019	108	161	115	3	97%
12/17/2019		134			
12/18/2019	66	92	69	21	70%
12/19/2019		103			
12/20/2019		137			
12/21/2019		111			
12/22/2019		135			
12/23/2019	91	151	99	11	89%
12/24/2019		152			
12/25/2019	95	156	103	10	90%
12/26/2019		183			
12/27/2019		159			
12/28/2019		115			
12/29/2019	96	145	102	9	91%
12/30/2019	NM	149	NM	NM	ND
12/31/2019	65	122	71	23	68%
AVG	100	145	104	13	86%

DESIGN - 200 MGD

SWWPCP - DECEMBER 2019						
DATE	TRIPLE			SW TOTAL	PEAK FLOW	RAIN
	Delcora	GRAVITY/HLL	LLE			
12/01/2019	20	140	12	172	178	0.65
12/02/2019	20	127	16	163	418	0.04
12/03/2019	2	140	12	154	204	T
12/04/2019	20	127	13	160	181	0.08
12/05/2019	18	119	13	150	214	
12/06/2019	18	119	12	149	176	0.01
12/07/2019	18	119	13	150	174	
12/08/2019	19	117	13	149	176	T
12/09/2019	37	236	26	299	276	1.31
12/10/2019	37	172	31	240	486	0.17
12/11/2019	27	172	15	214	325	0.08
12/12/2019	24	147	13	184	224	
12/13/2019	21	130	12	163	191	0.51
12/14/2019	25	192	19	236	263	0.17
12/15/2019	27	159	15	201	196	
12/16/2019	22	126	12	160	196	0.38
12/17/2019	29	182	23	234	468	0.82
12/18/2019	37	224	22	283	386	T
12/19/2019	25	143	16	184	205	
12/20/2019	23	137	11	171	199	
12/21/2019	22	134	7	163	188	
12/22/2019	42	134	12	188	196	
12/23/2019	22	132	11	165	197	
12/24/2019	21	134	13	168	196	
12/25/2019	22	134	12	168	202	
12/26/2019	20	131	12	163	203	
12/27/2019	20	142	14	176	199	T
12/28/2019	20	132	12	164	200	
12/29/2019	20	132	12	164	193	0.36
12/30/2019	24	190	17	231	353	0.63
12/31/2019	30	216	19	265	390	
TOTAL	732	4,640	460	5,832		5.21
AVG	24	150	15	188		
			MIN	149	174	
			MAX	299	486	



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: PHILA WATER DEPT
ADDRESS: 1101 MARKET ST 4TH FLOOR, PHILADELPHIA PA, 19107-2994
FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
STAGE: Final Effluent

PA0026671
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 12/01/2019
DMR Effective To: 12/31/2019
Permit Expires: 08/31/2012
Permit Application Due: 03/04/2012
No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	12	01	TO	2019	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION			SAMPLING FREQUENCY	SAMPLING TYPE	
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE			UNITS
Dissolved Oxygen (00300)	Sample Measurement	***	***	***	5.6	6.9	***	mg/L	1/day	Grab
	Permit Requirement	***	***		Monitor & Report Inst Min	Monitor & Report Avg Mo	***		1/day	Grab
pH (00400)	Sample Measurement	***	***	***	6.7	***	7.3	S.U.	1/day	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAx		1/day	Grab
Total Suspended Solids (00530)	Sample Measurement	12340	19780	lbs/day	***	7	10	mg/L	1/day	24-Hr Composite
	Permit Requirement	50400 Avg Mo	75060 Wkly Avg		***	30 Avg Mo	45 Wkly Avg		1/day	24-Hr Composite
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	15.61	21.90	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrite as N (00615)	Sample Measurement	***	***	***	***	.801	.945	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Nitrate as N (00620)	Sample Measurement	***	***	***	***	.946	1.540	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Kjeldahl Nitrogen (00625)	Sample Measurement	***	***	***	***	19.77	29.70	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
Total Phosphorus (00665)	Sample Measurement	***	***	***	***	.317	.887	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	24-Hr Composite
1,2-Dichloroethane (32103)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Chloroform (32106)	Sample Measurement	***	***	***	***	.0023	***	mg/L	1/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	<.063	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0067	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Iron, Dissolved (01046)	Sample Measurement	***	***	***	***	.1453	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Lead, Total (01051)	Sample Measurement	***	***	***	***	<.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Nickel, Total (01067)	Sample Measurement	***	***	***	***	.0030	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0323	***	mg/L	3/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 BUREAU OF CLEAN WATER
 DISCHARGE MONITORING REPORT (DMR)

Selenium, Total (01147)	Sample Measurement	***	***	MGD	***	<.0130	***	mg/L	1/month	24-Hr Composite	
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	***		1/month	24-Hr Composite	
Flow (50050)	Sample Measurement	188	299	MGD	***	***	***	***	Continuous	Metered	
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Metered	
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	.28	.50	mg/L	1/day	Grab	
	Permit Requirement	***	***		***	***	.5 Avg Mo		1.0 IMAR	1/day	Grab
Cyanide, Free (51173)	Sample Measurement	***	***	***	***	.015	***	mg/L	3/month	24-Hr Composite	
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month	24-Hr Composite
Tetrachloroethylene (34475)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab	
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month	Grab
	Facility Parameter Comments	See attached data qualifier report.									
Trichloroethylene (39180)	Sample Measurement	***	***	***	***	<.0005	***	mg/L	5/month	Grab	
	Permit Requirement	***	***		***	***	Monitor & Report Avg Mo		***	1/month	Grab
	Facility Parameter Comments	See attached data qualifier report.									
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	4	***	CFU/100 ml	1/day	Grab	
	Permit Requirement	***	***		***	***	200 Geo Mean		***	1/day	Grab
	Facility Parameter Comments	See attached data qualifier report.									
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	Sample Measurement	6263	10295	lbs/day	***	4	5	mg/L	1/day	24-Hr Composite	
	Permit Requirement	1980 Avg Mo	29700 Wkly Avg		***	***	.25 Avg Mo		40 Wkly Avg	1/day	24-Hr Composite
BOD, carbonaceous, 20 day, 20 C (80087)	Sample Measurement	15518	***	lbs/day	***	***	***	***	2/week	24-Hr Composite	
	Permit Requirement	35830 Avg Mo	***		***	***	***		***	2/week	24-Hr Composite
Facility Sampling Point Comments											



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Final Effluent

PA0026671	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 12/01/2019
 DMR Effective To: 12/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2019	12	01	TO	2019	12	31

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.		
	Permit Requirement	***	***		Monitor & Report Inst Min	***	Monitor & Report IMAX		Daily when Discharging	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***		1/discharge	Estimate
Fecal Coliform (74055)	Sample Measurement	***	***	***	***	***	***	CFU/100 ml		
	Permit Requirement	***	***		***	***	Monitor & Report IMAX		Daily when Discharging	Grab
Duration of Discharge (81381)	Sample Measurement	***	***	minutes	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	***		***	***	***		1/discharge	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: PHILA WATER DEPT
 ADDRESS: 1101 MARKET ST4TH FLOOR, PHILADELPHIA PA, 19107-2994
 FACILITY: PHILA WATER DEPT - SOUTHWEST WPC PLANT
 LOCATION: 8200 ENTERPRISE AVE, PHILADELPHIA PA, 19153
 STAGE: Percent Removal

PA0026671	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 12/01/2019
 DMR Effective To: 12/31/2019
 Permit Expires: 08/31/2012
 Permit Application Due: 03/04/2012
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	12	01	TO	2019	12	31

FROM

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
CBOD5 Minimum % Removal (80091)	Sample Measurement	***	***	***	97.28	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		89.25	***	***		1/day	24-Hr Composite
Total Suspended Solids Minimum % Removal (81011)	Sample Measurement	***	***	***	90	***	***	%	1/day	24-Hr Composite
	Permit Requirement	***	***		85	***	***		1/day	24-Hr Composite
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
E-NPDES SW201912.xlsx	Daily Effluent Monitoring Form	2020-01-24T15:55:43-05:00	
SWCSO 201912.xlsx	CSO Detailed Outfall Report Form	2020-01-24T15:58:10-05:00	
201912SL.xlsx	Sewage Sludge / Biosolids Production and Disposal Form	2020-01-24T15:57:01-05:00	
SW Daily Grab (01-21-2020).pdf	Laboratory Accreditation Form	2020-01-24T15:53:53-05:00	
SW WET Testing Composite (01-21-2020).pdf	Laboratory Accreditation Form	2020-01-24T15:54:23-05:00	
SW WET Testing Grab (01-21-2020).pdf	Laboratory Accreditation Form	2020-01-24T15:54:57-05:00	
BLSSW201912.xlsx	Nutrient Monitoring Form	2020-01-24T15:56:26-05:00	

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
-------------------	------------------	----------------	-----------	------------	----------------	--------------	------	----------------	-------------------------	-------------------	----------

UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
-------------------	------------------	----------------	--------------------------	----------------------	----------------	--------------	----------------	------------------	------------------	--------------------	-----------------------------------	----------

OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
-------------------	---------------------	----------------	-----------	----------------	--------------	----------

COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
All NPDES permit requirements were met during the month. There were no CSO's caused by plant activities. Please see attachments for data qualifier reports.	Mary Ellen Senss	S12300	(215)-685-6258

SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Mary ellen Senss	TELEPHONE		DATE		
			(215)	685-6258	2020	1	24
senssm		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

PHILADELPHIA WATER DEPARTMENT - BUREAU OF LABORATORY SERVICES

Southwest Water Pollution Control Plant

NPDES SUMMARY FOR THE MONTH OF DECEMBER 2019

Central Laboratory

Nitrogen Series and Phosphorus Data (mg/L)

Southwest WPCP - Southwest Outfall

	NO2 - N	NO3 - N	NH3 - N	TKN	P
12/02/2019	0.758	0.560	17.30	22.10	0.213
12/04/2019	0.854	0.773	19.10	18.10	0.146
12/06/2019	0.945	0.867	21.90	21.00	0.127
12/11/2019	0.855	1.190	11.70	11.00	0.128
12/18/2019	0.613	1.540	10.10	16.50	0.887
12/23/2019	0.836	0.959	12.90	20.00	0.185
12/30/2019	0.744	0.735	16.30	29.70	0.532
AVG	0.801	0.946	15.61	19.77	0.317
MAX	0.945	1.540	21.90	29.70	0.887

Cyanide and Phenol Data (mg/L)

Southwest WPCP - Southwest Outfall

	Free Cyanide	Phenolics
12/02/2019	0.014	0.090
12/04/2019	0.015 <	0.050
12/06/2019	0.015 <	0.050
AVG	0.015 <	0.063

Metals Data

Southwest WPCP - Outfall

Date	12/02/2019	12/04/2019	12/06/2019	AVG
Copper	0.0090	0.0060	0.0050	0.0067
Iron Dissolved	0.2710	0.0780	0.0870	0.1453
Lead	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Nickel	0.0030	0.0030	0.0030	0.0030
Selenium	< 0.0130	< 0.0130	< 0.0130	< 0.0130
Zinc	0.0330	0.0320	0.0320	0.0323

Organics Data (mg/L)

Southwest WPCP - Outfall

	12/01/2019	12/02/2019	12/03/2019	12/04/2019	12/05/2019	12/06/2019	AVG
1,2-Dichloroethane	< 0.0005	< 0.0005	< 0.0005	<	0.0005	< 0.0005	< 0.0005
alpha-Endosulfan	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
Benzidine	<	< 0.0048	<	< 0.0048	<	< 0.0048	< 0.0048
beta-BHC	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
Chlordane	<	< 0.0004700	<	< 0.0004700	<	< 0.0004800	< 0.0004733
Chloroform	0.0027	0.0024	0.0020	<	0.0021	0.0023	0.0023
Dieldrin	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
Heptachlor	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
Lindane (Gamma-BHC)	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
p,p'-DDD	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
p,p'-DDE	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
p,p'-DDT	<	< 0.0000200	<	< 0.0000200	<	< 0.0000200	< 0.0000200
Tetrachloroethylene	< 0.0005	< 0.0005	< 0.0005	<	< 0.0005	< 0.0005	< 0.0005
Trichloroethylene	< 0.0005	< 0.0005	< 0.0005	<	< 0.0005	< 0.0005	< 0.0005