HALIFAX AREA WATER AND SEWER AUTHORITY

DAUPHIN COUNTY, PENNSYLVANIA

2015 CHAPTER 94 REPORT
MUNICIPAL WASTELOAD
MANAGEMENT PLAN

PREPARED March 2016

Glace Associates, Inc.
CONSULTING ENGINEERS
3705 TRINDLE ROAD
CAMP HILL, PENNSYLVANIA 17011

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2015

	 Permittee is owner and/or operator of a POTW or other sewage treatment facility Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee 					
		GENERAL INF	ORMATION			
Pe	rmittee Name:	Halifax Area Water And Sewer Authority	Permit No.:	PA0024457		
Ма	iling Address:	PO Box 443	Effective Date:	6/1/2011		
Cit	y, State, Zip:	Halifax, PA 17032	Expiration Date:	5/31/2016		
Со	ntact Person:	Jeffrey Grosser	Renewal Due Date:	Submitted 11/20/2015		
Titl	e:	Operator	Municipality:	Halifax Boro, Halifax Twp		
Ph	one:	717 896-3886	County:	Dauphin		
Em	nail:	jgrosser@hawasaonline.com	Consultant Name:	Glace Associates, Inc.		
		CHAPTER 94 REPOR	RT COMPONENTS			
1.	 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1)) Check the appropriate boxes: Line graph for flows attached (Attachment) DEP Chapter 94 Spreadsheet used (Attachment A) Section 1 is not applicable (report is for a collection system). 					
2.	2. Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2)) Check the appropriate boxes: Line graph for organic loads attached (Attachment) DEP Chapter 94 Spreadsheet used (Attachment A) Section 2 is not applicable (report is for a collection system).					

3.	If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic an organic projections. In all cases, include a description of the time needed to expand the plant to meet the loa projections, if necessary, and data used to support the projections should be included in an appendix to this repor (25 Pa. Code § 94.12(a)(3))		
	There is no need identified to expand the plant to meet the load projections, based on the use of the DEP Chapter 94 Spreadsheet included as Attachment A.		
4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))		
	Check the appropriate boxes: ☐ Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment B) ☐ List summarizing each extension or project attached (Attachment) ☐ Schedules describing how each project will be completed over time and effects attached (Attachment)		
	Comments: No sewer extensions were constructed in 2015. No sewer extensions were approved or exempted in 2015. A sewer extension to a new Sheetz convenience store was exempted in 2012 (2,000 gpd) but has not yet been constructed. The planned extension is shown on Attachment B. Construction is anticipated in early 2016.		
5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))		
	Analysis of WWTP influent, effluent and sludge was conducted at minimum at permit frequencies through certified lab(s). The plant operator completes the daily samples such as pH, dissolved oxygen and chlorine residual. All other testing is contracted to Microbac Laboratories. Repairs to the system are conducted on an as-needed basis. There are 2 full-time operators of the sewer system, shared with the water system. Special activities included: Received new trailer mounted generator. Continued work with PRWA to GPS locate collection system. Repaired digester in kind from insurance claim. The collection system maintenance program consists of checks on manholes throughout the collection system. Manhole inserts have been placed in manholes that appear to be affected by inflow. No serious problems observed in collection system. Not a combined system, no regulators present.		

6.	exc	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))		
	Cho	System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event. System did not experience capacity-related bypassing, SSOs or surcharging during the report year.		
	Co	mments:		
	the agr	serious conditions observed in the collection system. Pump speed control adjustments were made late in year to minimize routine running of 2 nd pump at Main pumping station. Corrective Action Plan (CAP) eed with DEP in December 2015, and permit for larger force main submitted in January 2016, aimed to bid routine running of 2 nd pump.		
7.	pur	ach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum nping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 12(a)(7))		
	Ch	eck the appropriate boxes:		
		The collection system does not contain pump stations		
		The collection system does contain pump stations (Number – 2)		
	\bowtie	Discussion of condition of each pump station attached (Attachment C)		
	16 4			
8.		he sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the irmation listed below. (25 Pa. Code § 94.12(a)(8))		
	a.	A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.		
	b.	A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.		
	C.	A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.		
	Ch	eck the appropriate boxes:		
		Industrial waste report as described in 8 a., b. and c. attached (Attachment) Industrial pretreatment report as required in an NPDES permit attached (Attachment)		

Existing or Projected Overload.	
	oad condition. ad condition.
Corrective Action Plan attached (Attachment)	
 Where required by the NPDES permit, attach a Sewag balance of solids coming in and leaving the facility over the 	ne previous calendar year.
Sewage Sludge Management Inventory attached (At	tachment D)
 For facilities with CSOs and where required by the NPD combined sewer systems). 	ES permit, attach an Annual CSO Report (including satellite
Annual CSO Report attached (Attachment)	
12. For POTWs, attach a calibration report documenting the been calibrated annually. (25 Pa. Code § 94.13(b))	at flow measuring, indicating and recording equipment has
RESPONSIBLE OFFIC	CIAL CERTIFICATION
I certify under penalty of law that this document and all attack accordance with a system designed to assure that qualified submitted. Based on my inquiry of the person or persons where the information, the information submitted is, to complete. I am aware that there are significant penalties for and imprisonment for knowledge of violations. See 18 Pa. C.S.	personnel properly gathered and evaluated the information no manage the system or those persons directly responsible to the best of my knowledge and belief, true, accurate, and submitting false information, including the possibility of fine
Fred L. Ford, Jr., Chairman	Gent Soul On
Name of Responsible Official	Signature
717 896-3886	
Telephone No.	Date

PREPARER	CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Joseph A. Bluge, Glace Associates, Inc. Name of Preparer	Signature
717 731-1579 Telephone No.	3/15/16 Date

ATTACHMENTS

- A. HYDRAULIC AND ORGANIC LOADING DATA & PROJECTIONS GRAPH (DEP SPREADSHEET)
- B. GENERAL PLAN
- C. DISCUSSION ON THE CONDITION OF PUMP STATIONS
- D. SOLIDS MANAGEMENT INVENTORY
- E. FLOW METER CALIBRATION REPORT
- F. MONTHLY DISCHARGE MONITORING REPORTS

ATTACHMENT A

HYDRAULIC AND ORGANIC LOADING DATA PROJECTIONS GRAPH (DEP Spreadsheet)



PADEP Chapter 94 Spreadsheet Sewage Treatment Plants

Reporting Year: 2015

Halifax Wastewater Treatment Plant Facility Name:

PA0024457 Permit No.:

Month

Proj. Overload?

NO

Persons/EDU: 3.5

Existing Hydraulic Design Capacity: Upgrade Planned in Next 5 Years? Future Hydraulic Design Capacity:

0.21	MGD		
NO		Year:	
, and the second	MGD		

Existing Organic Design Capacity: Upgrade Planned in Next 5 Years? **Future Organic Design Capacity:**

527	lbs BOD5/day	
NO	Year:	
	lbe BOD5/day	

Monthly Average Flows for Past Five Years (MGD)

Month	2011	2012	2013	2014	2015
January	0.106	0.098	0.098	0.0866	0.0774
February	0.124	0.102	0.101	0.0822	0.0691
March	0.19	0.102	0.103	0.102	0.0976
April	0.213	0.095	0.102	0.1446	0.1123
May	0.225	0.122	0.105	0.1525	0.121
June	0.177	0.113	0.115	0.1541	0.129
July	0.157	0.117	0.116	0.1284	0.1264
August	0.15	0.111	0.108	0.1155	0.1181
September	0.267	0.106	0.104	0.1117	0.11
October	0.215	0.098	0.109	0.1009	0.0985
November	0.171	0.093	0.096	0.0832	0.0924
December	0.163	0.102	0.102	0.095	0.0996
Annual Avg	0.18	0.105	0.105	0.1131	0.1043
Max 3-Mo Avg	0.218	0.144	0.113	0.1504	0.1255
Max : Avg Ratio	1.21	1.37	1.08	1.33	1.20
Existing EDUs	737.0	737.0	737.0	739.0	739.0
Flow/EDU (GPD)	244.2	142.5	142.5	153.0	141.1
Flow/Capita (GPD)	69.8	40.7	40.7	43.7	40.3
Exist. Overload?	NO	NO	NO	NO	NO

Monthly A	Average BODS	Loads for Pa	ast Five Years	s (lbs/day)
2011	2012	2013	2014	2015
297	90	90	96	136

January	297	90	90	96	136
February	154	155	163	140	101
March	279	144	105	155	142
April	176	249	166	153	199
May	147	197	133	241	347
June	210	77	15	317	513
July	185	156	179	362	317
August	205	130	181	200	171
September	299	210	157	168	357
October	179	112	158	190	273
November	278	90	185	156	100
December	158	135	157	153	147
Annual Avg	214	145	141	194	234
Max Mo Avg	299	249	185	362	513
Max : Avg Ratio	1.40	1.71	1.31	1.86	2.20
Existing EDUs	737	737	737	739	739
Load/EDU	0.290	0.197	0.191	0.263	0.316
Load/Capita	0.083	0.056	0.055	0.075	0.090
Exist. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

_	2016	2017	2018	2019	2020
New EDUs	10.0	2.0	2.0	2.0	2.0
New EDU Flow	0.0016	0.0003	0.0003	0.0003	0.0003
Proj. Annual Avg	0.1231	0.1234	0.1237	0.124	0.1243
Proj. Max 3-Mo Avg	0.1524	0.1528	0.1532	0.1536	0.1539
Proi. Overload?	NO	NO	NO	NO	NO

	2016	2017	2018	2019	2020
New EDUs	10	2	2	2	2
New EDU Load	2.515	0.503	0.503	0.503	0.503
Proj. Annual Avg	188	189	189	190	190
Proj. Max Avg	319	320	321	322	323

NO

Projected BOD5 Loads for Next Five Years (lbs/day)

NO

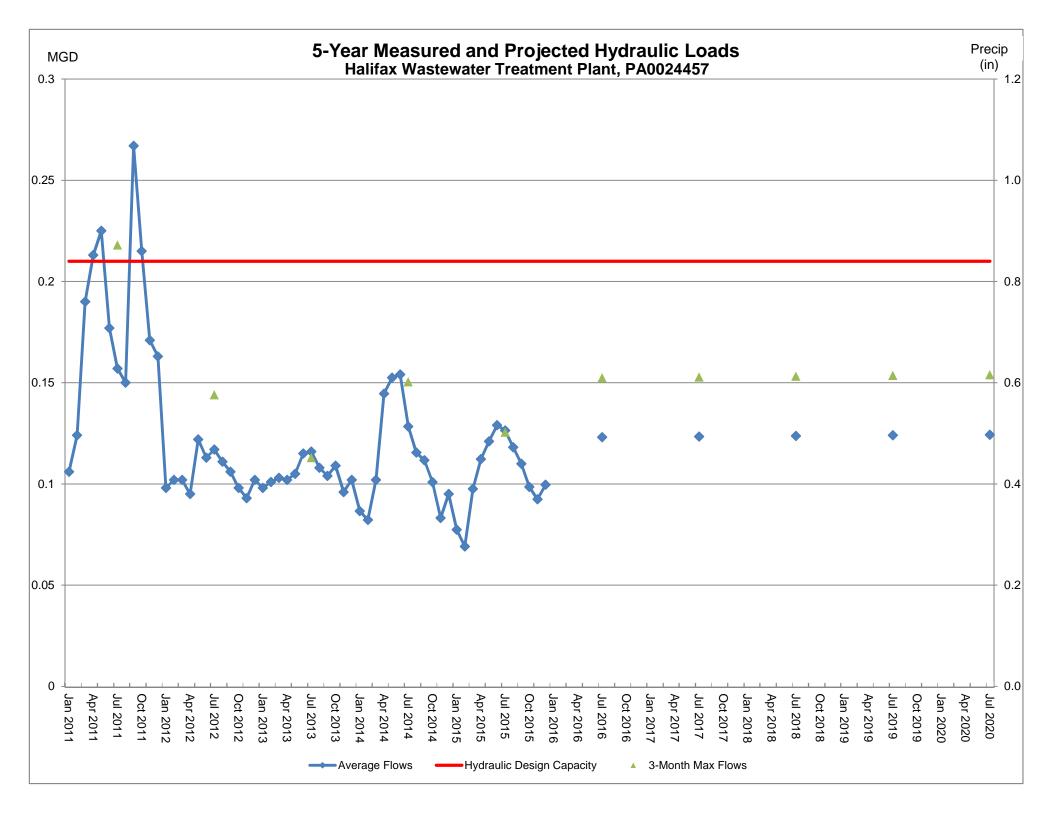
NO

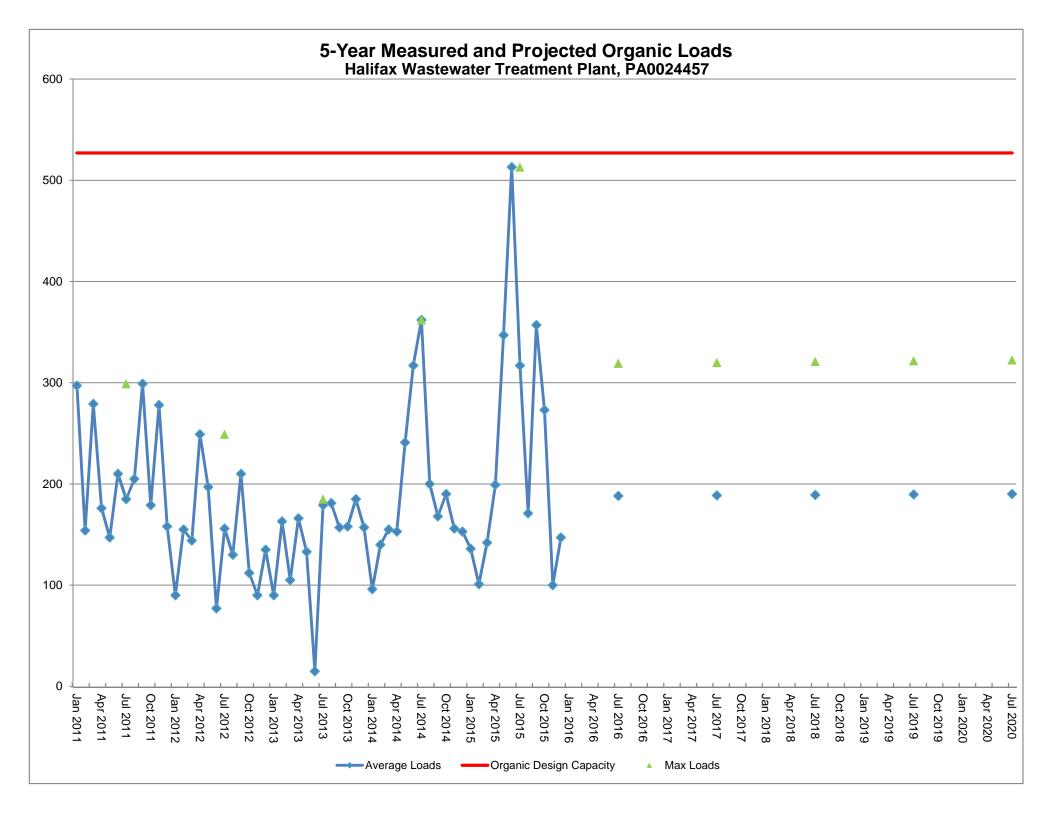
NO

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

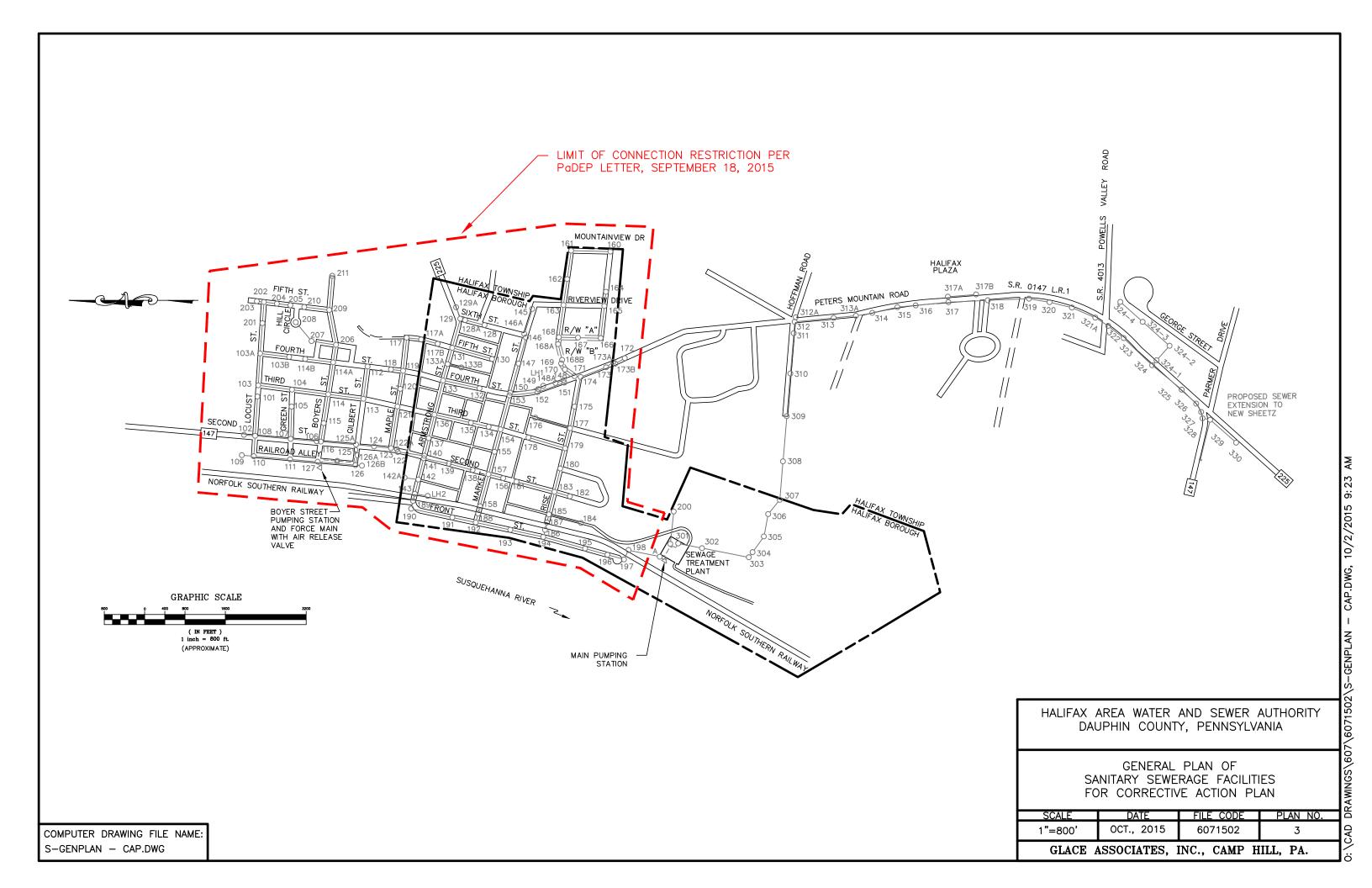
Month	2011	2012	2013	2014	2015
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					





ATTACHMENT B

GENERAL PLAN



ATTACHMENT C DISCUSSION ON THE CONDITIONS OF PUMP STATIONS

ATTACHMENT C. CONDITION OF PUMP STATIONS

The sewerage system contains two pumping stations.

Boyer Street Pumping Station - Location: Boyer Street, Halifax Township

Design Capacity: 50 gpm (1 pump basis) or 477 EDUs

Present Flows: Average: 0.6 gpm

Maximum (Peak Hourly Flow estimated): 50 gpm

Projected two-year maximum peak hourly flow estimated: 50 gpm (design basis of new Boyer Street Pump Station for maintaining velocity

in 4-inch force main)

The Boyer Street Pump Station was upgraded to submersible pumps at the end of 2014 and began operations in 2015. The single phase pumps run full speed. Attached runtime records indicate total runtime for both pumps is approximately 2 hours per week, usually divided equally between the pumps. However, the operator reports the floats electrically shorted on 3 occasions, but the float operation has since been corrected. The float timer did not record any events in 2015. It was returned to the vendor to verify proper operation. Procedures are being reviewed to ensure proper data recording for the remainder of 2016.

Main Pumping Station - Location: At the Treatment Plant, conveying all flow from the Borough and the northern Halifax Township service area (including flows from Boyer Street Pumping Station). There are two (2) suction lift pumps with separate 4-inch suction lines, running into a single 4-inch force main. The pumps are variable speed based on use of variable frequency drives, so only maximum flows can be estimated based on runtime. Due to the small size of the force main, 2 pumps on represents a much lower flow rate than twice one-pump flow. Based on late 2015 runtime records following an adjustment to the pump controls, the lead pump (which is alternated) runs 24 hours per day nearly every day, while the lag pump typically runs 0 hours, to as many as 6 hours per day in a consistent rainstorm. Despite the interim controls adjustment, it remains unclear whether pumps run full speed together for an hourly period until the proposed further adjustment and flow metering is added. This pumping station also receives return flows from the treatment plant.

A Corrective Action Plan (CAP) was agreed with DEP in December 2015 and corresponding Water Quality Management Permit (WQMP) application was made in January 2016. The pending application would add a larger 6-inch force main, a flow meter, and electrical/control adjustments so the 240 gpm peak hourly flow can be conveyed using only one pump.

Design Capacity: 175 gpm (1 pump basis) or 1,669 EDUs

Present Flows: Average: 70 gpm (estimated based on plant flow)

Maximum (Peak Hourly Flow estimated): 240 gpm

Projected two-year maximum peak hourly flow estimated: 240 gpm (based on effective capacity of 2 pumps together into small 4-inch force

main)

As noted plant return flows are included.

Wastewater from the Halifax School and southern Halifax Township service area flows directly to the headworks. The Peak Hourly Flow at the WWTP is determined to be 360 gpm based on analysis of effluent WWTP flow meter charts for this flow-through treatment plant.

Helipay

DANUARY 2015 POMP RUN TIMES

		E-1000000000000000000000000000000000000		
DATE:	#1 Pump	TIME	#2 PUMP	TIME
5AV-234567891011213141511789611334	9581.8 968.8 96.53.8 96.53.8 97.70.15.	2444444438944449999344822	8653.5 8653.5 8665.8 9692.1 8706.1 8732.1 8732.1 8779.4 879.4 879.4 879.4 899.5 899.1 899.	12232 121 121 121 121 121 121 121 121 12

DANUARY 2015 PUMP RUN TIMES

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DATE:	# L Pump	TIME	#2 PUMP	TEME
5 AN. 26 28 29 30 31	10205.8 10229.8 10253.7 10277.8 10302.7	24 24.1 24 23.9 24.1 24.9	8959.3 8969 8979.5 8990.9 9002.5 9003.2	10.1 10.7 10.5 11.4 11.6 10.7
	FEBRU	JARY	A015	
DARE:	#! PUMP	TIME	#2 PUMP	TIME
FEB. 12345678910112	10325.8 10349.8 10373.8 10397.8 10445.8 10,469.5 10,469.5 10,469.5 10493.6 10541.5	24 23.7 23.4	9036.9 9036.9 9048.9 9060.3 9073.8 9085.1 9096 9120 9144 9150. 9163.5	10.9 24 24 26.2 3

FEBRUARY 2015 Pump Run Times

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DATES	PUMP	TIME	#2 PUMP	TIME
2-13-15 14 15 14 15 14 15 12 12 13 13 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16	10565.3 10591.1 10619.3 10661.3 10709.3 10733.3 10757.3 10783.4 10805.4 10853.4 10877.4 10901.4 10901.4	25.8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	9169.8 9178.1 9185.8 9189.3 9207.9 9219.3 9236.3 9236.3 9236.3 9248.1 9254.1	6.3 7 7 0.5 6.6 6 6 6 6 3 1 1 1 9 8

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MARCH 2015 PUMP RUN TEMES

DATE: PUNP TIME PUMP TEME 3-1-15 10943 239 9266.1 6 2 10973.2 239 9271 4.9 3 10973.3 24.1 9276.7 5.7 9286.2 5.5 10045.3 24 9286.2 5.5 10045.3 24 9286.2 5.5 11049.3 24 9285.2 4.5 11140.3 19.1 9305.2 4 11180.3 24 9311.2 6.0 11180.3 24 9318.6 7.4 12 1120.3 24 9318.6 7.4 12 1120.3 24 9318.6 7.4 13 11284.3 24 936.3 7.9 14 11260.3 24 936.3 7.9 14 11260.3 24 936.3 7.9 14 11260.3 24 9361.5 8 17 11332.3 24 9361.5 8 17 11380.3 24 9361.5 8 17 11380.3 24 9369 7.5 18 11356.3 24 9399.9 7.2 20 11404.3 24 9399.9 7.2 21 11428.3 24 9399.9 7.2 22 11476.3 24 9399.9 7.2 23 11476.3 24 9410.9 6 24 25 11500.3 24 9410.9 6 25 11500.3 24 9410.9 6 26.8		g commenced to the second parameter second to the second	Therefore the Comments of the	egendamenthogo, 35 p. Oc. 10 cm, 12 cm 15 per hann mill Million and Million an	The second secon
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MARCH 2015

PUMP RUN TEMES

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march-26	11548,3	24	9431.1	6.7
27	11572.7	24.4	9437.5	6.4
29	11620.5	23.9	9450.3	6.4
30	11644.4	23.9	9462.4	6.4
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		APRIL	2015	The second secon
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APRIL-1	11,62.3	24	9468.8	6.4
3	11,716.3	24	9474.4	5.6 5.7
4	11763.4	23.1	9486.5	6.4
5	11787.3	23.9	9492.8	6.3
6	11812.3	25	9500,0	7.2
8	11836.3	24	9507.3	7.3 5.5
9	11884.5	24	9518.6	5.8
10	11908,3	24	9523.6	5
11 12	11932.3	24	9529.7	6.1
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APRIL 2015

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16 27 18	120523 12076,4 12098,9	24.1 24.1	9564.5 9571.9 9571.5	7.4
20	12172.3	25.2 24.2 24	9584.8 9593.1 9606.8 9616.4	7.3 8.3 13.7 9.6
23 23 24 35	12244.3	23.9 24.1 24.3	9626.3 9636.0 9644.8	9.9
26		23.9 23.6 24.1	9654.1 9665.0 9674.2	9.3 16.9 9.2
30	12388.3 12388.3	24.1	9681.4	7.2
	#1		#2	
DATE:	DOWG	TIME	PUMP	TIME
5-1-15		24.4	9695.3	6.8
13	12484.3	22.2	9717.1	6-3

	£ 6.			
DATE:	# LPOMP	IME	#Dunp	TIME
5-36-15	13108,4 13132,4	24	9891	6.2
				V - 0%
SUNE 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	13155.6 13179.6 13203.6 13207.5 13207.5 13207.5 133075.5 133075.5 133075.5 13419.5 13413.5 13515.5 13515.5 13515.5 13515.5 13515.5 13515.5	23.4 23.4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7898 7995,4 9919.7 9919.7 9919.5 9919.7 9919.5 9919.7 9919	7744900002198911085775

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		PUMP	IRUN	TIMES
OATE:	#L Pomp	IME	#2 Pump	TIME
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.064	2015	
DATE:	#L Pump	TIME	#-8 PUMP	TIME
JULY 1 23456789	13875.5 13899.5 13923.5 13952.5 13974.4 13995.6 14019.5 14067.5	24 24 29 21.2 23.4 24	10105.3 10110.5 10115,2 10124.0 10128.4 16134.3 10141.1 10146.5 10153.	5.4 5.2 4.8 4.4 5.9 6.4 5.6

July	2015	PUMP RO	ON TIMES	
DATE: #1 Pump	TIME	#2 Avmp	TIME	
18 14284.8 2 19 14309.2 20 14331.5 21 14355.5 22 14379.5 23 14403.5 24 14427.5 25 14,451.5 26 14475.5 27 14499.5 28 14,523.5 29 14,523.5 29 14,523.5	35.4324444444444444444444444444444444444	10250.4 0256.5 0262.6 0268.6 0274.1 0280.1 0285.3	5543938438438541105 28	
	Andrea.	o de la companya de		

AUGUST 2015 PUMP RUN TIMES

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OATE:	#1 pump	TIME	#2 Pomp	TIME
17 18 19 20 21 23 24	14617.5 14647.5 14667.5 147691	24 24.1 24.2 24.2 24.2 24.2 24.2 24.2 24	10394.7 10303.8 10308.2 10312.4 10312.5 10321.5 10321.5 10321.5 10337.7 10347.6 10347.6 10353.8 10364.1 10372.4 10372.4 10372.4 10372.4 10381.1 10391.4 10391.4 10391.4 10391.4 10391.4 10391.4 10391.4	13534274935563221
			-	

AUGUST 2015

POMP-RUN TIMES

	Section Containment of the Conta	Sentramonal Commence of the Co	10 ITME	.5		
	DATE	Pump	ACCUPATION OF THE PROPERTY OF	# DUMP	ISME	Niking .
	ACC. 26	11 17		10408	4.4	-
	38	15243.5 15267.5		10413.1	5.1	MCCD CONTRACTOR CONTRA
	29	152715	24	10418.6		ACTOR REPORTS AND AUTOMORES.
	30	15315.5	24	10928.1	5.2	SERVED STREET,
	31	15339.5	24	10434.2	5.1	SPERIO PRODUCTOR CONTRACTOR (2012)
			- Ann particular constraints and analysis	Secretaria de la companya de la comp		The second secon
				Ministrative and control of the cont	TH (FITTH THE THE THE THE THE THE THE THE THE	
Power Services Princes Assessment		BL	The state of the s	142		
September 1	DANE:	DUMP	Time	PUMP	Time	
entraction of the second	á	15363.5	24	10439.4	5,2	
Printed to the standard of the	3	15387.5 15411.5	24	10444.7	5.3	
THE PROPERTY OF SECTIONS AND ADDRESS OF THE PERSON OF THE		15436.7	25.2	10448.4 10452.7	3.7	
and the second	5	1546.1	24.4	10457.4	4.7	
ورد ورارات أدروه والمتاهدة	4	15485.9	1.1	10462.1	4.7	
	~ II	5507.9	22.0	10466.3	4.2	
		15531.5	23.6	10472.5	6.2	
	4	15579.5	24	10483.1	5.3	
	/ A &	15603.5		10488.9	5.8	
			24.6	10493.8	4.9	
	11	5675.7		05020	8,2	
		JU 13.11	17.3	0505, 9	3.9	
_	-1	. Ai	-		-	

SEPTEMBER 2015

PUMP RUN TIME

		YUMP RU	IN TIME	
DATE	PUNIP #	TIME	Pump #2	TIME
SEPT - 15	15699.4	. 23.9	10511.5	5.4
16	15723,5	- 23.9	10515.7	4.4
17	15747,5	24.0	10520.6	
18	15771.4	23.9	10525. 4	
19	15795.4	24	10530.5	5.1
20	15819.5	24.1	10535.7	5.2
21	15843.5		10540.7	5
22	15867.5	24	10545.7	5
23	15891.5	24	10551.4	5.7
24	15915.5	24	10558.9	7,5
25	15939.5	24	10566	7.1
26	15963.5	24.	10573.2	7.2
27	15987.5	24	10578.2	5
28	160115	24	10581.9	3.7
29	16035.5	24	10604.9	23
30	16059.5	24	10619.4	14.5

		The state of the s		
DATE	Pump#1	TIME	Dump #2	TIME
		The state of the s		Action (Control of Control of Con
OCT. 1	16083.5	24	10629-4	10
2	16107.5	24	10637	7.6
3	16/35.6	28,1	10647.2	10.2
4	16/58.7	23.1	10654.9	7.7
2	14179.51	VO.0	1066116	6 -7

OCTOBER 2015 PUMP RUN TIME

	LAII for	KON ITE	
JAK -	pump#1		Pump #2 Time
Oct. 6	16,203.5	24	10,668.9 7.3
7	16,2274	23.9	10,675.7 6.8
8	16,262.5	24.1	10,882.4 6 .7
9	16,275.7	24.2	10,692.6 10.2
10	16,299.9	24.3	10,699.7 7.1
11	16324.4	24.5	10706.9 7:2
12	16347.5	23.1	10714.7 7.8
13	16371.5	Į.	10722.6 7-9
14	16395,5	į .	20729.5 6.9
15	16419.5	24	10736.6 7.1
16	16443.5	84	10743.2 6.6
17	16468.4	24.9	10750.1 6.9
18	16491.5	33.1	10757.0 6.9
19	16539.5	24.8	10765.0 8.0
20		24.2	10771.9 6.9
21	16563.5	24.0	6778.4 6.5
	16597.5 16611.7	24,2	10784.2 5.8
4.5	16635.4	23.7	16793, 1 8.9
23	16659.1	23.7	10800.1 7.0
	16683.3	26.2	
li*	16707.3	24	10814.2 7-0 10821 6.8
11	16724.3	17	
	16748.3	24	10821.6 .6
18	16772.8	24.5	
31	16796,8	24	10823.2

OCTOBER

PUMP RUN TIMES

NOVEMBER

**************************************	Contraction of the Contract of		ASSAULTEN IN STREET OF CONTINUES AND ADDRESS AND ADDRE	and the second s
DAJE:	POW6	TEME	# DUMP	TANE
nov.al	17.294.3	24.1	10927,0	0
23	17318.4	24.1	10827.0	Ø
34	17366.2	23.7	10827.0	0
25	173900	24,4	10828.7	1.7
26	17414.4	23.8	10928.9	•2
27	17438,3	23.9	108309	2.0
28	17490,0	29.3	10833.2	2.3 .Z
	175/0.0	20.0	10834.3	9
·			T.	g g
	e ^{ta}	DECE	MBER	2015
NAVE.	#1		#2	
Dare:	Pump	LIME	PUMP	TIME
	11 .			
DEC. 1	17534.1	24.1	10837.5	3.2
1 :	17558	23.9	10840,2	3.2
1 :	17558	23.9	10840,2 10844.4	3.2 2.7 4.2
DE 1 23 4 5	17558 17582 17606 17630	23.9	10840,2	3.2
23456	17558 17582 17606 17630 17654	23.9	10840, Q 10844, 4 10849,8 10852,8 10854,8	3.2 2.2 4.2 5.3 2
23456	17558 17582 17606 17630 17654 17678	23.9	10840, Q 10844.4 10849.8 10852.8 10854.8 10854.8	3.2 2.2 4.2 5.4 3 2
2345678	17558 17582 17606 17630 17654 17678 17702	23.9.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	10840, Q 10844.4 10849.8 10852.8 10854.8 10854.8 10856.2	3.7 4.24 5.3 2 8 1.4
23456	17558 17582 17606 17630 17654 17678	23.9	10840, Q 10844.4 10849.8 10852.8 10854.8 10854.8	3.2 2.2 4.2 5.4 3 2

DEC. 11 177742 24.3 10862.0 2.4 12 177742 24.9 10863.8 1.8 13 17821.1 22. = 10865.4 1.6 18 17869.9 23.9 10870.6 2.6 17979.1 24.0 10870.6 2.6 17979.1 24.0 10880.4 6.0 19 17965.9 24.0 10884.1 3.7 20 17989.9 24 21 10895.4 6.4 22 18037.9 24 10905.1 5.3 24 18085.8 23.9 10911.6 6.5 25 18108.7 22.9 10923.5 6.2 27 18156.9 24.1 10923.5 6.2 27 18156.9 24.1 10923.5 6.2 28 18181.9 25 10938.5 8.0	www.commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/com/commons.com/com/com/com/com/com/com/com/com/com/		allerengen var variables om pro-state entrigs (VVVVVV) (fillerens variables		TEMPORPASSIONETEMAN MARKET
DEC. 11 177742 24.3 10862.0 2.4 12 17799.1 24.9 10863.8 1.8 13 17821.1 22. = 10865.4 1.6 13 17846 24.9 10868.5 3.1 15 17869.9 23.9 10872.6 2.6 17 17979.1 24.0 10880.4 6.0 19 17946.9 24.0 10880.4 6.0 19 17965.9 24.0 10884.1 3.7 20 179899 24 10889 4.9 21 18037.9 24 10899.8 4.4 22 18037.9 24 10905.1 5.3 24 18085.8 23.9 10911.6 6.5 25 18108.7 22.9 10917.3 5.7 26 18132.8 24.1 10923.5 6.2 27 18156.9 24.1 10923.5 6.2 28 18181.9 25 10938.5 8.0	OFFE		Ι '	11	1 < 1/2
30 18 239.9 24 10955.8 11.3 31 18253.9 23.9 10961.2 5.4	DEC. 11 12 13 16 18 19 20 21 20 30	177742 177742 177799.1 17821.1 1846 17869.9 17945.9 17945.9 18037.9 18085.8 18183.8 18185.9 18185.9 18186.9 18186.9 18205.9 18205.9	24.3.9.09.3.5.5.00 24.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	POMP 10862. 8 10863. 8 10865.4 10868.5 10874.4 10889.4 10884.1 10889.4 10899.8 10905.1 10911.6 10923.5 10938.5 10938.5 10955.8	7.4 1.8 1.3 1.2 1.8 1.0 1.9 1.4 1.3 1.5 1.6 1.3 1.6 1.3 1.6 1.3 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6



		BOYER	STREET P	UMP STATI	ON	
DATE:	TIME:	PUMP #1	HOURS	PUMP #2	HOURS	TOTAL
3-13-15		5.7		6.2		~
3-16-15		6.4	.7	7.0	<i>-</i> 8	1.5
3-17-15		6-5	- L	7.1	-1	,2
3-20-15		7.1	-6 ·	7.7	6	1.2
3-25-15		9.0	.9	18-6	.9	1-8 4-3
4-6-15		10-1	2-1	10-8	2-2	4-3
4-22-15	1015	29,5	19,4	35_3	24,5	43.1
4-23-15	2100	29.7	e 3	35-3	Ð	-2
4-29-15	<u>0800</u>	31 31,5	1.3	36-7	1-4	2-7
4-30-15	1435	315	5	323	.6	1.1
5-5-15	1000	32.4	,9	38.4	1-1	2
5-13-15	1000	32.4 32.4	10	225,9	187-5	187.5
5-14-15	1000	32.4	Ø	226	-1	l
5-14-15	1045	329	-5	226	Ø	.5
5-14-15	1600	33		226	A	
5-1815	1020	33,6	.6	226.7	•7	1.3
5-2015	1000	34.1	15	227.1	.4	,9 .3
5-21-15	0925	34.2:	المد	237.3	<i>-</i> ک	.3
5-28-15	0.950	35-5	-3	228.7	-4	
6-1-15	0945	_36.2	. 7	229.3	-6	1.3
6-12-15	1005	38,2	1.9	231-5	2.2	4-1
6-26-15	1000	40.5	9_4	234-1	2.6	4-1
7-1-15	1440	41.5		235.3	1-2	2.2 7.9
7-18-15	0940	47	5.2	238	2.7	7-9
7-30-15	1000	59	12	242	4	16
8-18-15		366.3	307.3	246.1	4-1	311.4
8-20-15	0905	366.7	.4	246.4	-3	



		BOYER	STREET	PUM	P STATI	ON	-	
DATE:	TIME:	PUMP #1	HOURS	***************************************	PUMP #2	HOURS	- 12 N 18 mall-page according page 1	TOTAL
8-24-15	1000	403.9	37.2		247	-6		37.8
8-24-15	1215	403-9	0		247.2	-2		2
8-25-15	1000	403.9	D		249	1-8		1.8
8-27-15	<u>0800</u>	404.2	1.3		249.2	ر		1.5
8-99-15	1045	404.3	* }		249.5	3		4
8-99-15	1025	404.8	_,5		249.9	<u>.</u> 4		.4
9-9-15	1000	405.9	2-1	* * * * * * · · · <u> · · · · · · · · · · · · · · </u>	25!	4 1.1	- The second contract of the second contract	2-2
9-11-15	4020	4063	4	** The second contract of the second contract	251.3	-3		27
9-21-15	1030	407.8	-5		257-8	1-5		2.0
8-29-15	1005	40901	1-3		254,1	1.3		2-6
10-5-15	1020	514.7	105.6	7. ************************************	255,5	14		107
10-6-15	0900	526,2	11-5		255.5	28		11-5
10-7-15	1070	526.3	,1		255,6	- 7		-A
10-8-15	1100	526.4	1		255.7	a l		.2
10-12-15	1120	526.9	,5		256.3	-6		1-1
10-16-15	0910	527.4	-5		256.9	m(2)		1-1
10-21-15	1015	538	6		257.7	-8		14
10-26-15	1010	538	.7		258,4	-7		1,4
10-29-15	1020	529-L	4 4		259	_6		1
11-2-15	1020	529.6	.5		259.6	-6		1.1
11-5-15	1025	529.9	-3		760	.4		-7
11-18-15	1000	531-8	1-9		261.9	1.9		3.8
11-27-15	1000	533.3	1.5		2634	1.5		3
12-2-15	1000	3-34.2	.9	170 170 170 170 170 170 170 170 170 170	264.2	38		1-1
127-15	1030	535	20		265.1	1.5 18		1.7
12-21-15	1000	537	2		267	1.9		3.9
1.2-3145	1010	538,6	1.6		269.3	2.3		3.9
			Í			•••		

ATTACHMENT D SEWAGE SLUDGE MANAGEMENT INVENTORY

ATTACHMENT D. SEWAGE SLUDGE MANAGEMENT INVENTORY

The Authority employs wet hauling to dispose of sewage sludge. The Authority has agreements to dispose biosolids at the Harrisburg Advanced Wastewater Treatment Facility, and Kline's Services Inc. During 2015, approximately 11.2 dry tons of biosolids were disposed of which 3.1 dry tons went to Kline's Services Inc. and 8.1 dry tons went to Harrisburg Advanced Wastewater Treatment Facility.

SLUDG	E GENERATION CALCULATION	V
Facility Name: Halifax Wastewater Treatmen	it Plant	
Permit Number: PA0024457		
Date of Calculation: 3/15/2016		
Regu	ired Information For Calculation	
Average Daily Flow (mgd): 0.1043	Digester Capacity (gal): 42000
Influent BOD (mg/l): 258	%Solids of Outgoing Slu	
Effluent BOD (mg/l): 5.6	Monitoring Period (da	ays): 365
Was Place an "X" in the box beside the corresponding tree	stewater Treatment Processes atment process. Select a maximum of Primary Cla	urification and one other treatment process
Primary Clarification	Contact Stabilization	RBC
Conventional Activated Sludge	SBR	ABF
Extended Aeration x	Trickling Filter	Small Plant with low SOR
_	` <u>-</u>	(<500 gpd/sq ft)
	Operational Information	
BOD Removed (lbs/day): 220	TSS Removed (lbs/c	day): 143
Place an "X" ir	Digester Information Type of Digester n the box beside the corresponding treatment proce	ess.
Aerobic Digestion x	Anaerobic Digestion	None
Sludge Feed Rate to Digest	ters (gpd): 2281.52773	
Digester Hydraulic Detention Tin	me (days): 18	
Estimated Total Solids Redu	uction (%): 0.3	
	Sludge Generation	
dry lbs/day 100	wet lbs.	/day 4921
dry tons/monitoring period 18	wet tons/monitoring pe	
gal/day 590	gal/monitoring pe	eriod 215368
Amount of Sludge wet tons/monitori	Reported as Being Generated by ing period 0	the Facility
dry tons/monitori	OR ring period 11.202 y one of the above values. The remaining value sh	
Is the amount reported by the generat		
is the amount reported by the general	NO explana	
	····	
What the and information was used to colour	lete the electric information language	office from DMDIs
What type of information was used to calcul	late the above information: Inform Dates used: 1/1/2	
Name of nerson	performing the calculation: Joseph	
raino or porcon j	periorining the calculation.	TA. Diago

ATTACHMENT E FLOW METER CALIBRATION REPORT

W.G. MALDEN

P.O. BOX 196, EAST EARL, PA 17519 PHONE: (717) 768-0800 FAX: (717) 768-0802

SERVICE REPORT

JEFFREY GROSSER HALIFAX MUNICIPAL AUTHORITY P.O. BOX 443 HALIFAX, PA 17032

SERVICE DATE: 12/16/2015

METER#: C8201 AA

LOCATION: WASTEWATER - EFFLUENT

SERIAL #: 12286/9404-31238-B02

MANUFACTURER: BADGER/CHESSELL

RECORDER: 392 **TRANSMITTER:** 2210

PRIMARY: 90° V-NOTCH WEIR MAXIMUM CAPACITY: 347.2 GPM SERVICE CONTRACT: ANNUAL

WORK PERFORMED

CLEANED EQUIPMENT: X PRIMARY: X

RECORDER CALIBRATION CHECKED AT: 0, 50, & 100%

ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TOTALIZER CALIBRATION CHECKED AT: 0,50 & 100%

ERROR: 0% **CORRECTED ACCURACY:** ± 1%

TRANSMITTER CALIBRATION

SIMULATED HEAD RISES AND FLOW MEASUREMENTS

ERROR: 0% **CORRECTED ACCURACY:** ± 1%

COMMENT: PERFORMED ANNUAL CALIBRATION. CLEANED PRIMARY. LEFT EQUIPMENT OPERATING PROPERLY.

SERVICE REPRESENTATIVE: DENNIS/JACOB PERSON SEEN: JEFFREY

copies:

ATTACHMENT F MONTHLY DISCHARGE MONITORING REPORTS

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Outfall No. 001 2015

JANUARY

This permit will expire on May 31, 2016

NPDES Permit No. PA 0024457 Month

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

													Season and the season			A STATE OF THE PROPERTY OF THE		And the second s		Kinden of the state of the stat							Marie and the second se							Martin and Control of the Control of	
10.00	TOTAL COLOR	Sludge Wasted	gallons	1,100	2.000	800	800	2,400	2,400	2,400	2,000	1,600	800			1,200	1,600	1.600	800	800	800	006	1.800	1.400	2,000	2,000	1,400	800	1,600	2,400	2,400	1,600	1,000	800	1.394
70000		Aeration DO mg/l	No. 2		2.2	2.1	2.4	2.2	2.4	2.8	2.5	2.4	2.3	2.4	2.5	2.3	2.5	2.3	2.4	2.2	2.5	2.3	2.2	2.4	2.4	2.3	2,4	2.2	2.4	2.3	2.8	2.7	2.4	2.5	2.4
	March	E E	1	2.2	2.2	2.1	2.0	2.4	2.5	3.0	2.8	2.5	2.6	2.7	2.5	2.7	2.6	2.4	2.5	2.3	2.7	2.5	2.6	2.4	2.3	2.5	2.3	2.4	2.3	2.5	2.6	2.6	2.5	2.5	2.5
	MI SC	fuge)	No. 2	1.6	1.9	1.8	1.9	1.6	1.5	1.5	1.5	1.7	1.7	1.7	1.6	1.6	1.7	1.5	1.6	1.6	1.7	1.6	1.9	2.0	1.9	1.9	1.9	1.9	1.7	1.8	1.8	1.7	1.8	1.8	1.7
	Aeration MI SS	(centrifuge)	No. 1	1.0	1.1	1.0	1.1	1.0	0.9	1.0	1.0	1.1	1.1	1.1	6.0	1.0	1.0	1.0	1.1	1.2	1.2	1.2	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.0	1.0	1.0	1.1	1.1	1.1
		TSS	lb/day							115							102							158							82				114
		TSS	mg/l						31,	170							180							260							140				188
Influent		BODs	lb/day						3,7	148							118							177				***************************************			66		1		136
	-	BODs	mg//						000	077							210							290							1/0				223
	70	-FOW	mgd	0.0780	0.0800	0.0730	0.101.0	0.1080	0.08/0	0.00.0	0.00/0	0.0700	0.0000	0.0640	00800	0.0840	0.0680	0.0700	0.0690	0.0830	0.0800	0.0770	0.0770	0.0/30	0.0780	0.07.00	0.0000	0.0000	0.0820	0.0000	0.0700	0.000	0.0830	0.0650	0.0774
	2	<u> </u>		1	3 6	,	* u	2 9		4	0 0	s ¢		-	42		* 4	2 9	0		18	18	3 3	76	33	24	124	28	276	30	000	200	3 6	,	AVE.

lef, true, accurate, and tion). uate the information Check if there were no 📋 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms). I certify under subn

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

	2015	Outfall No. 001	xniration				
	JANUARY	A 0024457	tile 180 days pring to e		inis permit will expire on May 31, 2016		
DOLLA MOLLACIAN	Month	NPDES Permit No. PA 0024457	Renewal application due 180 days prior to expiration				
DATE TRIBLES IN THE CASE OF THE PROPERTY MOINT ONLY	r Authority	County: Dauphin		THE TRANSPORT OF THE PROPERTY		CEC LENT DADAMETERDA	ETTLOEN PARAMETERS
	Halifax Area Water and Sewer Authority	Halifax Borough	ပ္		A STATE OF THE PROPERTY OF THE		
	Facility Name:	Municipality:	Watershed:	Laboratories:			

	Outside Temperature	(F Deg.)	7.0	28	32	37	V.C	7.0	20	7	19	2 0	4	38	06	2	27	26	12	28	36	33	76	34	35	34	42	26	28	12	15	25	14	25
	Weather/Comments	(Inches Precipitation)				0.45	0.10	0.15			A CONTRACTOR OF THE PROPERTY O	THE RESERVE AND THE PROPERTY OF THE PROPERTY O		0.25	0.35			THE PROPERTY OF THE PROPERTY O			A THE RESIDENCE OF THE PROPERTY OF THE PROPERT		A THE RESIDENCE OF THE PARTY OF	0.10		0.25		0.25	0.50	The state of the s		AND THE RESERVE THE PROPERTY OF THE PROPERTY O		2.40 (Total)
	FECAL	O CFU/100 mi	1						12							36							22	The state of the s						110				32
	TSS	//bu/							9.2							19.0							9.6							5.0				10.7
TERS	CBOD 5	l/gm							4.5							6.9							4.0							2.4				4.5
EFFLUENT PARAMETERS	TRC	l/gm	0.47	0.54	0.47	0.45	0.49	0.51	0.54	0.52	0.50	0,40	0.48	0.46	0.43	0.46	0.50	0.46	0.40	0.41	0.44	0.22	0.56	0.49	0.48	0.41	0.40	0.59	0.48	0.54	0.46	0.52	0.54	0,47
E	D.O.	l/bm	6.3	6.5	6.4	6.6	9.9	6.7	6.8	9.9	6.2	6.5	6.6	6.3	6.5	6.7	6.2	6.4	6.1	6.2	6.4	6,3	6.1	0.9	6,3	6.5	6.7	6.1	6.3	6.5	6.4	6.1	6.3	6.4
	£	SU	7.1	7.1	7.0	7.3	7.2	7.1	8.0	7.8	7,4	7.2	7.5	4.7	7.2	7.3	7.1	7.3	7.1	7.4	7.3	7.2	7.1	7.2	7.5	7.3	7.4	7.5	7.3	7.4	7.5	7.2	7.1	7.3
i de la composició de l	FLOW	mgd	0.0780	0.0800	0.0730	0.1010	0.1090	0.0870	0.0810	0.0670	0.0700	0.0690	0.0640	0.0900	0.0840	0.0680	0.0750	0.0690	0.0830	0.0800	0.0770	0.0770	0.0730	0.0790	0.0770	0.0860	0.0670	0.0820	0.0680	0.0700	0.0670	0.0830	0.0650	0.0774
	DAY		-	2	3	4	ည	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVE.

properly nformation fine and

l 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 gather and evaluate 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 in submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fi imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). Prepared By: Manager Date:	a system designed to assure that qualified personnel atly responsible for gathering the information. The intring false information, including the possibility of fi		
I certify under penalty of law that this document and gather and evaluate the information submitted based c submitted is to the best of my knowledge and belief, to imprisonment for knowing violations. See Pa. C.S. § Prepared By: Jeffrey L. Grosser Jeffrey L. Grosser Jeffrey L. Grosser Title:	all attachments were prepared under my direction or supervision in accordance with m my inquiry of the person or persons who manage the system or those persons directure, accurate, and complete. I am aware that there are significant penalties for submit 1904 (relating to unsworn falsification).	Signature:	Date:
I certify under pe gather and evalua submitted is to th imprisonment for Prepared By: Title:	nalty of law that this document and te the information submitted based a e best of my knowledge and belief, it knowing violations. See Pa. C.S. §	Jeffrey L. Grosser	Manager
	I certify under per gather and evalua submitted is to the imprisonment for	Prepared By:	Title:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

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8-C This			NPDES Bermit No. DA MOSAGA	AART
	, -	anders of the same	100 000 000 000 000	100 pg 104 pg 10
	And the state of t	AND THE PROPERTY OF THE PROPER	O BIRTH WILL EXPIRE ON W	May 31, 2016

Dry Tons

Sewage Sludge / Biosolids Dewatered and Incinerated On-site Tons dewatered Dry Tons Dewatered Sewage Studge / Biosolids Hauled Off-site X % Solids Tons dewatered sludge Tons Check here if there were no off-site removal events during the month Liquid Sewage Studge / Biosolids Hauled Off-site X 0.0000417 Solid: 20 18,000 Gallons 6.000 6,000 1/30/15 1/30/15

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SIZE	SITES	8348
	Kline's Septic	Harrisburg Sewer Plant	
	Salunga	Harrisburg	ANTINI OF CONTROL AND CONTROL OF THE PARTY O
	Lancaster	Dauphin	MARTINE AND AND ASSESSMENT OF THE ASSESSMENT OF THE ASSESSMENT OF THE PROPERTY
SEP Permit Number:	101607	27198	THE STATE OF THE PROPERTY OF THE PROPERTY OF THE STATE OF
of Material*	Liquid Biosolids	Liquid Biosolids	and the state of t
ons Disposal:	0.45036	1.02582	
ns Disposed:	6,000	12,000	, 1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,1988年,19
/isposal/Use:*	Sewer Plant	Sewer Plant	THE PROPERTY OF
lame:	Kline's Septic	Kline's Septic	THE PROPERTY OF THE PROPERTY O

^{*} See Instructions for explanation

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). l 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 gather and evaluate the information submitted

Signature	C season	Date
Jeffrey L. Grosser	Manager	Control of the contro
Prepared By	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Hallfax Borough 6-C Municipality: Watershed:

This permit will expire on May 31, 2016 NPDES Permit No. PA 0024457

Outfall No. 001 2015

FEBRUARY

Month

	Andreas and the state of the st																			A THE RESIDENCE OF THE PROPERTY OF THE PROPERT		And in the find word of the first of the finds of the second seco					A THE STATE OF THE							
rerrettearst in stillete op stillete i de stillete i de stillete stillete stillete stillete stillete stillete																			The state of the s															
Process Control	Sludge	gallons	800	2,000	1,000	2,400	2.400	2,000	800	800	2,000	2,400	2,000	2.000	2.000	800	800	800	2,400	1,600	2,400	2,000	800	800	2,400	2,400	2,000	2,800	2.400	800				1,707
Proces	8		2.6	2.4	2.7	2.5	2.3	2.6	2.5	2.3	2.4	2.3	2.5	2.3	2.5	2.5	2.5	2.5	2.4	2.6	2.4	2.5	2.4	2.4	2.3	2.5	2.2	2.4	2.4	2.3				2.4
	Aeration mg/l	No. 1	2.6	2.7	2.6	2.7	.2.4	2.7	2.6	2.5	2.5	2.5	2.6	2.5	2.7	2.5	2.6	2.5	2.5	2.8	2.6	2.7	2.5	2.6	2.5	2.8	2.4	2.5	2.6	2.4				2.6
	MLSS fuge)	No. 2	1.8	1.7	1.6	1.5	1.4	1.2	1.2	1.2	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.3	1.3	1.2	1.3	1.2	1.2	1.1	1.2	1.2	1.1	1.2				1.2
	Aeration MLSS (centrifuge)	No. 1	1.1	1.0	1.1	1.2	1.3	1.5	1.5	1.5	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.4	1.3	1.3	1.4	4.1	4.1	1.5	1.3	1.2	1.3	1.2	1.1	1.2				1.3
	TSS	lb/day				65							116							54							117							88
	T8S	mg/l				120							180							120							230						700	163
Influent	ВОБ	lb/day				90							167							86							92						404	101
	BODs	mg/l				110							260							190							180						105	185
	FLOW	рбш	0.0720	0.0800	0.0750	0.0650	0.0810	0.0590	0.0620	0.0710	0.0980	0.0770	0.0770	0.0780	0.0670	0.0680	0.0670	0.0420	0.0570	0.0540	0.0720	0.0680	0.0700	0.0560	0.0830	0.0010	0.0610	0.0800	0.0670	0.0570			0.0004	0.0081
	DAY		-	7	2	4	0	9		» (a K	2		7,	2	41	2	0 5	<u> </u>	٥	A S	3,5	76	200	3/2	1,7	C oc	200	/3	878	A7 8	3 50	AVE	AVE.

personnel properly gather and evaluate the information	the best of my knowledge and helief true accurate and	4904 (relating to unsworn falsification)
ider my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information	Se persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and helief true accurate and	on, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification)
certify under penalty of law that this document and all attachments were prepared under my direc	ubmitted based on my inquiry of the person or persons who manage the system or those persons or	omplete. I am aware that there are significant penalties for submitting false information, includir

Check if there were no 🗋 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

2015 Outfall No. 001 Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016 FEBRUARY NPDES Permit No. PA 0024457 Month County: Dauphin Halifax Area Water and Sewer Authority Halifax Borough 6-C Facility Name: Laboratories: Municipality: Watershed:

	Outside Temperature	(F Deg.)	30	07	30	01	77	0	0	250	200	4000	000	44	300	0 5	7.7	2	* C.	2	*	*-	40	900	44	4.	18	2 0	2			1000#	# DEC	#1/1-1 1	100
	Weather/Comments	(Inches Precipitation)		26. 0	0.73			The second secon			n or	0.00	00.0		maran sanasaya wasan ka da an	THE PROPERTY WHEN		AND THE PROPERTY OF THE PROPER	A A R		A COLUMN TO THE RESIDENCE OF THE PROPERTY OF T		THE RESIDENCE OF THE PROPERTY	0.35		THE RESIDENCE OF THE STREET, SO IN THE PERSONNEL SECTION AND THE SECTION AS A SECTION ASSET AS A SECTION ASSECTION AS A SECTION AS A SE					The second secon	#055	11114		(1.01a)
	FECAL	Q CFU/100 ml	L										12	1 %						10					8 000	20015						1110#	1220#	35	2
	TSS	l/bm				25.0							6.4							7.2							26.0							16.2	
TERS	CBOD 5	l/gm				7.3							4.0							4.4							6.8							5,6	
EFFLUENT PARAMETERS	TRC	mg/l	0,48	0.50	0.44	0.52	0.47	0.48	0.51	0.49	0.48	0.51	0.50	0.47	0.46	0.50	0.47	0.45	0.48	0.51	0.46	0.43	0.42	0.56	0.35	0.47	0.49	0.48				#REF!	#REF!	0.47	
	D.O.	l∕gm	6,4	6.2	6,5	6.3	6,4	6.6	6.2	6.5	6.4	6.5	6.2	6,3	6.6	6.3	6.4	6.6	6.5	6.6	6.4	6.5	6.9	6.4	6.2	6.4	6.6	6.7				#REF!	#REF	6.4	
	Hd	ns	7.2	7.3	7.2	7.1	7.2	7.3	7.1	7.0	7.3	7.1	7.1	7.2	7.3	7.1	7.2	7.1	7.3	7.5	7.2	7.1	7.3	7.1	7.1	7.2	7.3	7.2				#REF!	#REF!	7.2	14
	FLOW	pbu	0.0720	0.0890	0.0750	0.0650	0.0810	0.0590	0.0620	0.0710	0.0990	0.0770	0.0770	0.0780	0.0670	0.0880	0.0670	0.0420	0.0570	0.0540	0.0720	0.0880	0.0700	0.0560	0.0830	0.0610	0.0610	0.0800	0.0670	0.0570				0.0691	1 Constitution and the conference of the conference of
	DAY		-	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVE.	+

el properly information fine and

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

	Facility Name:	Hallfax Area Water	Hallfax Area Water and Sewer Authority							7000 H	200
	Municipality:	Halifax Borough	County:	County: Dauphin							A 0024467
	Water Siles.)*0								This permit will expire on May 31, 2016	on May 31, 2016
	ļ										
	Check here if th	here were no off-site re	Check here if there were no off-site removal events during the month	month							
	Ĕ	quid Sewage Studge	Liquid Sewage Studge / Blosolids Hauled Off-site	-site	Dewatered	Sewage Sludge / E	Dewatered Sewage Studge / Biosolids Hauled Off-site	site	Sewage	Sewage Sludge / Biosolids Dewatered	atered
ate	Callons	02. College		*		,			· S	and Incinerated On-site	
	Cholled	Spino o	A COLV. TRCIO	= Dry 10018	A COLIN. Taciol = Dry lons Ions dewatered sludge X % Solids	× % Solids	100 X	* OO \OO =	Tone dewordered	250 Se V	The state of the s
			X 0.0000417				0 883		י אווים ממנאמומים	epinos e	= Lity ions
1							_				The second secon

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6,000

2/20/15

X 0.0000417 X 0.0000417

X 0.0000417

6,000

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	1 318	W1	9 88 8
Sita Nama		SHEA	Siles
one italie.	Ville's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0.45036	THE PROPERTY OF THE PROPERTY O
Gallons Disposed:	0	6,000	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Tacler Name:	Kline's Septic	Kline's Septic	THE RESIDENCE OF THE PROPERTY

^{*} See instructions for explanation

plete. I am aware 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 gather and evaluate 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 am awar

of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Signature:	Date:
that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Jeffrey L. Grosser	भवावप्रदेश
that there are sig	Prepared By:	1100

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority
Municipality: Halifax Borough
Watershed: 6-C

Outfall No. 001 2015 NPDES Permit No. PA 0024457 This permit will expire on May 31, 2016 MARCH

Month

					A CONTRACTOR OF THE PROPERTY O			-				Annual contract of the second		A THE PROPERTY OF THE PROPERTY		and the fragment of the desired contrations was assessed to the			-			District Control of the State o							Proprietation of the proprieta					
of actions of superintering and the superinterior actions of the superinterior and the s	6							THE PARTY OF THE P			The second secon								THE RESERVE OF THE PERSON OF T	AND THE PROPERTY OF THE PROPER	AND PROPERTY OF THE PROPERTY O	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE												
Process Control	Sludge Wasted	aallons	800	1,600	1,200	800	2,400	1,600	900	800	2,400	2,400	1,600	2,400	2.400	800	900	2,400	1,600	1,600	1,600	1,600	800	800	1,600	1,600	1,600	1,600	1,600	800	800	1,600	1,600	1,484
Proce	Aeration DO mg/l	No. 2	2.5	2.4	2.6	2.4	2.5	2.3	2.2	2.4	2.6	2.7	2.3	2.4	2.5	2.3	2.3	2.3	2.4	2.8	2.6	2.7	2.6	2.7	2.7	2.5	2.5	2.6	2.8	2.5	2.9	2.6	2.4	2.5
	Aerat	No. 1	2.5	2.3	2.6	2.5	2.4	2.3	2.3	2.8	2.7	2.6	2.4	2.6	2.5	2.4	2.3	2.5	2.5	2.4	2.5	2.7	2.4	2.6	2.4	2.7	2.6	2.5	2.7	2.6	2.4	2.6	2.5	2.5
	n MLSS fuge)	No. 2	1.2	1.1	1.1	1.0	1.2	1.2	1.1	1.2	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.0	1.0	1.0	1.0	1.1	1.0	1.1	1.1	1.0	1,1	1.0	1.0	1.0	1,0	1.0	1.0	1.1
	Aeration MLSS (centrifuge)	No. 1	1.2	1.0	1.1	1.4	1.5	1.4	1.4	4.1	1.2	1.1	1.0	1.1	1.1	1.1	1.2	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1
	TSS	lb/day				79							103							317							124							156
	158	//gm				146							106							312							160							181
Influent	BODs	lb/day				120							140							244			***************************************				63		The second secon					142
	BODs	l/gm				222							143							240							81							171
	FLOW	pgm	0690:0	0.0690	0.0820	0.0650	0.0920	0.0570	0.0520	0.0890	0.0830	0.0970	0.1170	0.1460	0.1130	0.1020	0.1420	0.1300	0.1230	0.1220	0.1190	0.0840	0.0920	0.1180	0.0910	0.0920	0.0930	0.1020	0.1080	0.0880	0.0880	0.0990	0.1000	0.0976
1	DAY		-	7	7	4		9		×	6	2		7,	2	4,	2	2		2 4	e l	2 2	7	778	3	44	07	8	/7	87	8 8	96	ا ا	AVE.

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 gather and evaluate the information	ibmitted 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).
ertify under penalty of law that this docum	mitted based on my inquiry of the person	nplete. I am aware that there are significan

Check if there were no 📋 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

mitted based on my plete. I am aware th	inquiry of the person or persons who manage the system or those persons directly rest hat there are significant penalties for submitting false information, including the possit	mitted based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information submitted is to the best of my knowledge a appete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn fa
Prepared By:	Prepared By: Jeffrey L. Grosser	Signature:
Title:	Manager	Date:

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Outfall No. 001 2015 Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016 MARCH NPDES Permit No. PA 0024457 Month County: Dauphin Halifax Area Water and Sewer Authority Halifax Borough ပ္ Facility Name: Laboratories: Municipality: Watershed:

	Outside Temperature	(F Deg.)	19	24	26	33	34	oc.	9	38	36	32	36	34	35	37	41	26	45	32	32	34	33	34	28	32	26	34	40	30	24	42	39	31
	Weather/Comments			0.35		0.25							0.30	MATERIAL PROPERTY AND	Marchine more described and an extensive memory of the second second second second second second second second	0.25		THE RESERVE THE STATE OF THE STATE S	0.05	and a second control of the second control o		THE RELATIONS OF THE PROPERTY	0.10		AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		The state of the s	0.05	0.25	Martin Commission (April 1), commission of the contract of the				1.60 (Total)
	FECAL	Q CFU/100 m/	L			***************************************							480							1,200							710							201
	TSS	l/gm				11.0							6.0							6.0							5.0							7.0
RAMETERS	CBOD 5	l/gm				7.8							3.3							4.3							4.0							4.9
EFFLUENT PARAME	TRC	l/gm	0.46	0,49	0.47	0.51	0.43	0.44	0.46	0.54	0.49	0.46	0.51	0.46	0.47	0.45	0.48	0.47	0.51	0.58	0.56	0.50	0.57	0.49	0.44	0.50	0.48	0.52	0.58	0.49	0.51	0.47	0.45	0.49
	D.O.	mg/l	6.9	6.4	6.4	6.5	6.3	6.5	6.4	6.4	6.2	6.3	6.1	6.0	6.3	6.1	6.4	6.2	6.3	6.5	6.3	6.4	6.2	6.6	6.1	6.4	6.2	6.0	.6.3	6.2	6,4	6.2	6,4	6.3
	Нd	su	7.4	7.3	7.5	7.3	7.1	6.2	7.2	7.3	7.1	7.2	7.0	7.1	7.2	7.4	7,5	7.3	7.1	7.4	7.3	7.1	7.5	7,4	7.2	7.1	7.3	7.1	7.3	7.2	7.1	7.3	7.2	7.2
	FLOW	pbu	0.0690	0.0690	0.0820	0.0650	0.0920	0.0570	0.0520	0.0890	0.0830	0.0970	0.1170	0.1460	0.1130	0.1020	0.1420	0.1300	0.1230	0.1220	0.1190	0.0840	0.0920	0.1180	0.0910	0.0920	0.0930	0.1020	0.1090	0.0880	0.0880	0.0990	0.1000	0.0976
	DAY		-	2	3	₹	3	9	7	æ	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	29	9,50	10	AVE.

Prepared By: Jeffrey L. Grosser Title: Manager	gather and evalusing submitted is to temprisonment for	secury under penalty or 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 programmer 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 who well fitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	ion in accordance with a system designed to assure that qualified personnel prom or those persons directly responsible for gathering the information. The informatities for submitting false information, including the possibility of fine
Manager	Prepared By:	Jeffrey L. Grosser	Signature:
	Title:	Manager	Date:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

, 2016

	Facility Name:	Hallfax Area Water	Halifax Area Water and Sewer Authority							MARCH	2015
	Municipality:	Hallfax Borough	County:	County: Dauphin						NPDES Permit No. PA.0024467	00244E7
	Watershed:	2-9							•	This permit will expire on May 3	on May 3
	☐ Check here if th	here were no off-site re	Check here if there were no off-site removal events during the month	month							
	3	Iquid Sewage Sludge	Liquid Sewage Sludge / Biosolids Hauled Off-site	site	Dewatered	Dewatered Sewage Sludge / Blosolids Hauled Off-site	osolids Hauled Off	site	Sewage 8	Sewage Sludge / Biosolids Dewatered	atered
Date	Gallons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	an Tons dewatered	and Incinerated On-site	200 =
			X 0.0000417				X 0.01		-	500000	(1)
			X 0.0000417				X 0.01	A PROPERTY OF THE PROPERTY OF			
			X 0.0000417				X 0.01				
			X 0.0000417					The state of the s			***************************************
			X 0.0000417								
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01			THE PROPERTY OF THE PROPERTY O	-
Table Control of the			X 0.0000417				X 0.01	White the state of			
-			X 0.0000417				X 0.01			Many description of Many descriptions of marine seasons and an analysis of the seasons of the se	
To be a second s			X 0.0000417				X 0.01			MARIO MATERIAL PRINCIPLE AND ADDRESS OF THE PROPERTY OF THE PR	
Vertrebandenske			X 0.0000417				X 0.01	The state of the s			
-			X 0.0000417				X 0.01				AND THE PERSON NAMED OF TH
			X 0.0000417				X 0.01		The state of the s	AND TRANSPORTED THE PROPERTY OF THE PROPERTY O	-
			X 0.0000417				X 0.01			AND THE PERSON TO THE PERSON TO THE PERSON THROUGH	-
-	W. W		X 0.0000417				X 0.01		The state of the s		
	o	io/AlO#	X 0.0000417				X 0.01				AND THE PERSON AND DESCRIPTION OF THE PERSON AND PERSON

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	And the second s
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	Service of the servic
Dry Tons Disposal:	0	0	And the second s
Gallons Disposed:	0	0	A CONTROL OF THE PROPERTY OF T
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	
	The state of the s		

^{*} See Instructions for explanation

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 gather and evaluate the information submitted is to the best of my knowledge and belief, 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. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature		
Jeffrey L. Grosser	Manager	The second secon
Prepared By:	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Hallfax Area Water and Sewer Authority

Halifax Borough 6-C Municipality:

Watershed:

Outfall No. 001 NPDES Permit No. PA 0024467 This permit will expire on May 31, 2016

2015

APRIL

Month

							X		The same of the sa						Constitution of the second sec	National Company of the Company of t							The same of the sa	A COMMENT OF THE PERSON OF THE					The second secon	And the second s	Name and Advantage of the Advantage of t			
or mind a to be consistent of a selection of the selection of the selection of the selection of the selection of		THE REAL PROPERTY AND PROPERTY																																
Process Control	Sludge	callons	1.600	1,600	1.000	800	800	1,600	1,600	1,600	1,600	1,600	800	800	400	800	1,200	1,600	1,600	800	800	800	800	800	900	800	800	800	800	800	800	800		1,040
Proces	Aeration DO mg/l		2.5	4.8	2.0	2.2	2.0	2.2	2.3	2.4	2.0	2.1	2.5	2.3	2.0	2.1	2.3	2.0	2.2	2.3	2.5	2.3	2.4	1.8	2.3	2.5	2.5	2.3	2.5	2.4	2.3	1.9		2.2
	Aerati	No. 1	2.6	2.3	2.2	2.4	2.1	2.5	2.6	2.0	2.4	2.4	2.5	2.3	2.5	2.4	2.3	2.5	2.7	2.6	2.6	2.6	2.7	2.5	2.8	2.7	2.8	2.8	2.7	2.8	2.6	1.5		2.5
	Aeration MLSS (centrifuge)	No. 2	1.0	1.4	1,0	1.0	1.0	1,0	1.0	1.0	1.0	1,0	1,1	1.1	0.7	8.0	6.0	8.0	8.0	6.0	6.0	0.8	8.0	0.8	8.0	0.8	0.8	9.0	0.7	0.7	9.0	6.0		6.0
	Aeratio (centr	No. 1	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	9.0	1.0	1.0	1.0	1.0	1.0	1.0	6.0	0.8	0.8	0.7	0.8	0.8	0.8	8.0	8.0	0.8	0.8		6.0
	TSS	lb/day	128							103							107							170							176			137
	TSS	l/bu	158							122							124							140							184			146
Influent	BODs	lb/day	147							170							186							269							224			199
	BODs	l/gm	182							202							216							221	-						234			211
	FLOW	pbu	0.0970	0.0910	0.1020	0.1080	0.1020	0.1020	0.1030	0.1010	0.0840	0.1.10	0.0920	0.08/0	0.1230	0.1120	0.1030	0.1040	0.1080	0.0980	0.1180	0.1140	0.1/80	0.1460	0.13/0	0.1400	0.1010	0.1040	0.1310	0.1180	0.1150	0.11/0		0.1123
	DAY			7	60	4		٥٢	. *	0 0	2	2	- 6	4 6	2	1	3 8	2	- 0	2 4	2 6	3 6	2 6	778	2,0	***	280	250	/3	9 9	826	3 6	,	AVE

id all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property on the rand evaluate the information	sons who manage the system or those persons directly responsible for gathering the information. The information submitted is to the hest of my knowledge and belief true assumes and	bmitting false information, inclu
ere p	submitted based on my inquiry of the person or persons who manage the system or the	complete. I am aware that there are significant penalties for submitting false informa

Check if there were no 🗀 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

nnteed oased on my aplete. I am aware th	inquiry of the person of persons who manage the system or those persons directly resp hat there are significant penalties for submitting false information, including the possib	nutured based on my inquiry of the 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 imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn fals
Prepared By:	Prepared By: Jefftey L. Grosser	Signature:
Title:	Manager	Date:

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Temperature Outside (F Deg.) 33 33 82228 8 4 8 Outfall No. 001 2015 Renewal application due 180 days prior to expiration Weather/Comments (Inches Precipitation) This permit will expire on May 31, 2016 0.30 0.05 0.200 0.05 0.10 8 8 APRIL 3.30 NPDES Permit No. PA 0024457 CFU/100 ml FECAL 320 330 22 25 œ mg/ 0.8 17.0 25.0 TSS 12.6 0. 0.9 CBOD 5 19/1 4.8 6.4 3,5 4. 4 County: Dauphin **EFFLUENT PARAMETERS** TRC 0.54 0.55 0.38 0.53 0.53 0.53 0.53 0.53 0.46 0.42 0.52 0.53 0.51 0.49 Halifax Area Water and Sewer Authority 0.0 6.1 6.5 7.1 6.8 6.9 6.7 7.0 7.3 7.1 7.0 6.9 0.7 6.3 6.6 Halifax Borough 6-C 7.5 7.5 7.6 표 Facility Name: FLOW 0.1020 0.1080 0.1020 0.1020 0.1030 0.0940 0.0920 0.0970 0.1230 0.1120 0.1040 0.1080 0.0980 0.1180 0.1140 0.1790 0.1370 0.1400 0.1040 Municipality: Laboratories 0.1180 0.1170 Watershed: DAY AVE.

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 pu

46

(Total)

January Date Loftweet Conserved

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

	Facility Name:	Halifax Area Water	Halifax Area Water and Sewer Authority							APRIL	2016
	Municipality:	Hailfax Borough	County	County: Dauphin	1 1					NPDES Permit No. PA 0024457	1 0024467
	CAUSIBLE AND CO	2	And the second s							This permit will expire on May 31, 2016	e on May 31, 2016
	Check here if t	there were no off-site re	Check here if there were no off-site removal events during the month	month							
	_	Iquid Sewage Sludge	Liquid Sewage Sludge / Blosolids Hauled Off-site	site	Dewatered	Dewatered Sewage Sludge / Blosolids Hauled Off-site	losolids Hauled Of	-site	Sewage	Sewage Sludge / Blosolids Dewatered	vatered
Date	Gallons	Solids	X Conv. Factor	= Ony Tons	Tons dewetered short	V 62 Colles	2 2 23		- 1	and incinerated On-site	
4/9/15	L	22	X 0.0000417	0.880	afania palainan ara	SOURCE OF	10.0	= Dry rons	ions dewatered	X % Solids	= Dry Tons
-			X 0.0000417								
The state of the s	***************************************		X 0.0000417				0.0 <				
Pall-republished the	The same of the sa		X 0.0000417				- 1			***************************************	
	The state of the s		X 0.0000417				1			***************************************	
derivation of the second	WELVER THE PROPERTY OF THE PRO		X 0.0000417				- 1				
-			X 0.0000417				0.0 X				
4/9/16	6,000	2.1	X 0.0000417	0.525						With record and the state of th	
4/9/15	6,000	2.5	X 0.0000417	0.626			1				
4/9/15	6,000	2.3	X 0.0000417	0.575			1				
			X 0.0000417				ı				
			X 0.0000417				î			THE PROPERTY OF THE PROPERTY O	
			X 0.0000417				1				
			X 0.0000417				X 0.01				
			X 0.0000417				Y 0 04			die istromot de lieber en	

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/blosolids or ash were disposed or land applied)

C 0.0000417

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	AND THE PROPERTY OF THE PROPER
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	Andrea of the state of the stat
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0.55044	1.72638	AND THE PROPERTY OF THE PROPER
Gallons Disposed:	6,000	18,000	THE PROPERTY CONTRACTOR OF THE PROPERTY CONTRACT
Type of Disposal/Use;*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

^{*} See Instructions for explanation

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 gather and evaluate the information submitted 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature	Doctor	Value
y. Jeffrey L. Grosser	Manager	
Prepared By	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Halifax Borough 6-C Municipality:

Watershed:

Outfall No. 001 2015 This permit will expire on May 31, 2016 MAY NPDES Permit No. PA 0024457

Month

		AND							AND THE PERSON NAMED OF TH	Manne des residios des des des des des des des des des de							A THE PARTY OF THE				AND THE PROPERTY OF THE PROPER	and and the second seco		Walter Contraction of			A CONTRACTOR OF STREET, SECURITY OF STREET, SE			and the second s		AND A THE PERSON OF THE PERSON	anne problemente de mande des la company de la company	
				THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON NAMED IN THE PERSON		Visit and and the second of th							The second secon	A THE PERSON AND PERSO						and the second s														
Process Control	Sludge Wasted	gallons	800	800	800	800	800	800	800	800	800	800	800	800	800	800	1,200	800	800	1,600	800	800	800	800	800	800	1,200	1,600	1,600	1,600	2,000	800	800	
Proces	ĺ	No. 2	2.2	2.1	2.1	2.2	2.0	2.1	2.1	2.0	2.0	2.0	2.2	2.1	2.0	2.2	2.0	2.2	2.2	2.0	2.2	2.1	2.2	2.1	1.8	1.7	1.9	1.9	2.1	1.8	1.9	2.0	1.7	
	Aeration DO mg/l	No. 1	1.7	1,9	1.9	2.1	1.8	1.9	2.0	1.8	1.9	1.7	2.1	2.0	2.8	2.7	2.6	2.4	2.5	2.3	2.4	2.2	2.0	1.9	1.6	1.8	1.9	2.1	2.2	2.0	2.1	2.2	2.0	
	ALSS ge)	No. 2	1.0	1.0	1.0	8.0	6.0	6.0	1.0	1.0	1.0	6.0	6.0	1.0	1.0	1.0	1.0	1.0	1.0	8.0	8.0	8.0	8.0	8.0	6.0	8.0	8.0	1.0	1.0	1.0	1.0	1.0	1.0	
	Aeration MLSS (centrifuge)	No. 1	9.0	6.0	6.0	7.0	0.7	8.0	8.0	6.0	6.0	8.0	8.0	6.0	6.0	1.0	1.0	1.0	1.0	0.8	8.0	8.0	9.0	0.8	9.0	9.0	8.0	9.0	9.0	0.0	6.0	6.0	6.0	
	TSS	lb/day						18							429							334							548					
	TSS	l/ŝw						17							429							326							498				_	
Influent	BODs	lb/day						175							318							306							585					
	вор	∥g/l						167							318	***************************************		V-PART OF THE PART				301				***************************************			531					
	FLOW	mgd	0.1160	0.1090	0.1180	0.1260	0.1320	0.1260	0.1190	0.1260	0.1450	0.1110	0.1330	0.1320	0.1200	0.1010	0.1220	0.0960	0.1210	0.1300	0.1460	0.1230	0.1250	0.1000	0.1070	0.1010	0.1160	0.1270	0.1320	0.1230	0.1220	0.1180	0.1290	
	DAY		-	2	8	4	9	9		8	6	2	1,1	12	2	4	2 4	0 1	<u> </u>	0 9	19	20	2.1	22	62	444	62,0	072	/7	87	67	36	- 0	

e and belief, true, accurate, and a falsification). ather and evaluate the 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 ontalified uqns com

Check if there were no 🗀 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

Date:	Manager	Title:
Signature:	Prepared By: Jeffrey L. Grosser	Prepared By:
nitted 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 plete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn	nquiry of the person or persons who π at there are significant penalties for sul	nitted based on my in plete. I am aware that

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

	Facility Name:	Halifax Area Water and Sewer Authority	r and Sewer Auth	ority			Month	nth MAY 2015	10
	Municipality: Watershed:	Halifax Borough		County	County: Dauphin	, ,	NPDES Permit	NPDES Permit No. PA 0024457 Out	Outfall No. 001
	Laboratories:					, ,	Renewal applica This permit	Refrewal application due 180 days prior to expiration This permit will expire on May 31, 2016	
				EEEI IIENT DARAM	ABAMETEBS				r.
					IL IENS			And the second control of the second control	
DAY	FLOW	Hd.	D.O.	TRC	CBOD 5	TSS	FECAL	Weather/Comments	Outside Temperature
	pbu	ns	l/bm	mg/l	l/gm	l/gm	Q CFU/100 mi		(F Deg.)
-	0.1160	7.1	6.5	0.59			L	0.05	52
2	0.1090	7.2	9.9	0.50					62
က	0.1180	7.1	6.5	0.46					55
4	0.1260	7.2	6.3	0.48					62
2	0.1320	7.0	6.1	0.46					64
9	0.1260	7.1	6.3	0.51	3.9	10.0	4,100		62
/	0.1190	7.2	6.5	0.48				0.40	57
00	0.1260	7.0	6.2	0.53					64
6	0.1450	7.1	6.3	0.49					64
10	0.1110	7.3	6.4	0.52					71
1.1	0.1330	7.2	6.5	0.43					72
12	0.1320	7.4	6.6	0.47				0.25	65
13	0.1200	7.5	6.3	0.54	4.3	5.0	4,800		58
14	0.1010	7.3	6.5	0.52					47
15	0.1220	7.4	6.4	0.56				Marie Carrier and	52
16	0960.0	7.5	6.5	0.51					62
17	0.1210	7.4	6.4	0.50				0.15	64
9	0.1300	7.2	6.4	0.51					68
19	0.1460	7.1	6.6	0.51				1.00	99
07	0.1230	7.5	7,8	0.56	6.8	19.0	16		9
7 00	0.1250	7.3	7.6	0.49					57
77	0.1000	6.7	7.8	0.47					57
52	0.1070	7.4	7.1	0.48					49
47	0.1010	7.3	7.0	0.52					62
97	0.1160	7.4	7.1	0.45					65
56	0.1270	7.5	6.4	0.42					65
27	0.1320	7.3	9.9	0.52	4.2	5.0	006'2		67
28	0.1230	7.4	6.8	0.47				0.10	64
29	0.1220	7.5	6.9	0.47					62
30	0.1180	7.6	6.7	0.48				AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	63
31	0.1290	7.2	6.9	0.41				0.10	91
AVE.	0.1210	7.3	6.7	0.49	4.8	8'6	1,256		(Total) 84
	I certify under pena	I certify under penalty of law that this document and all attachments were	veument and all att		red under my directic	n or supervision in	accordance with a sys	a that qualitie	ovecome i monerali:

operly rmation and

I certify under pe gather and evalu: submitted is to th imprisonment foi	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 proj gather and evaluate 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 am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	in accordance with a system designed to assure that qualified personnel pro those persons directly responsible for gathering the information. The infor penalties for submitting false information, including the possibility of fine
Prepared By:	Jeffrey L. Grosser	Signature:
Title:	Manager	Date:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

Facility Name:

	Facility Name:	Halifax Area Wate	Hallfax Area Water and Sewer Authority							MAY	2016
	Municipality:	Halifax Borough	County:	County: Dauphin						t No. PA	0024467
	Watershed:	ပ္								This permit will expire on May 31, 2016	on May 31, 2016
	☐ Check here if t	there were no off-site r	Check here if there were no off-site removal events during the month	month							
		iquid Sewage Studge	Liquid Sewage Studge / Biosolids Hauled Off-site	site	Dewaterec	Dewatered Sewage Sludge / Biosolids Hauled Off-site	losolids Hauled Off	-site	Sewage	Sewage Studge / Biosolids Dewatered	atered
Date	Gallons	spijos %	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	100 X	= Dry Tons	Tons dewatered	and incinerated On-site	- 00, 100
			X 0.0000417				X 0.01		pa (albuman alla)	SDIIOD 8/ C	Liy 10118
			X 0.0000417				X 0.01				The Principle of States of the
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
***************************************			X 0.0000417				X 0.01		The state of the s		The content of the state of the
			X 0.0000417		The state of the s		X 0.01			THE TAXABLE SAN THE PROPERTY OF THE PROPERTY O	
			X 0.0000417				X 0.01			THE PARTY OF THE P	
			X 0.0000417				X 0.01				THE PROPERTY OF THE PROPERTY O
		***************************************	X 0.0000417				X 0.01		and the same of th		The state of the s
			X 0.0000417				X 0.01				TANAMENTAL AND THE PROPERTY OF
-			X 0.000041/				X 0.01			WHEN THE PARTY AND THE PARTY A	
- The second sec			A 0.0006417				X 0.01				The state of the s
-			X 0.000041/				X 0.01				Minimum Transferrential Paris and Assert Constitution of
TAXABLE TAXABLE TAX			X 0.0000417				X 0.01				The statement of the st
			X 0.0000417				X 0.01				THE COMMENSAGE OF THE PERSON O
	0	i0/\lQ#	X 0.0000417				X 0.03			MANAGEMENT CONTRACTOR AND	To a Total or a state of the st

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	21.5	SITE 2	<u> </u>
Site Name:	Kline's Septic	Harrisburg Sewer Plant	A set in the second
Municipality	Salunga	Harrisburg	nesamenter enspera sallesses de suspisiones de la compressión de mestado de la cipación de comparator estadade
County:	Lancaster	Dauphin	ng merekat manakan dan kanan dan pertempan dan pertempan dan menandan dan merekan menandan bermanan dan mereka
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	The street of
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	THE PROPERTY OF THE PROPERTY O
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

See Instructions for explanation

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 gather and evaluate the information submitted 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 am aware

e possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Signature	Date:
mat mere are significant penalties for submitting false information, including the possibility of fine and impri	Jeffrey L. Grosser	Manager
mar more are s	Prepared By:	Title:

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Halifax Borough 6-C Municipality: Watershed:

Outfall No. 001 2015 This permit will expire on May 31, 2016 NPDES Permit No. PA 0024457

JUNE

Month

		Andreas of the second s		AND THE RESIDENCE AND THE PROPERTY OF THE PROP	The second secon			The second section of the section of the second section of the section of the second section of the s			And the second s													And the state of t										
irol	Sludge Wasted	lions	2,400	2,400	1,600	1,600	2,400	300	800	009	800	1,800	2,000	1,800	300	800	2,400	2,400	2,400	1,600	2,000	300	300	800	2,800	008	000	400			2,400	2,400		1,753
Process Control	S		2	2		-	2		3	Ţ	-	_	2	1		-	2	2	2	1	2			2	2	2	2	2			2	2		-
4	Aeration DO mg/I	No. 2	1.9	2.0	2.1	2.2	2.4	2.2	2.3	1.8	1.8	1.9	1.8	1.8	1.9	1.7	1.9	2.0	2.0	2.1	1.9	1.7	2.0	2.5	1.8	2.0	1.7	1.7	1.9	2.0	2.0	2.1		2.0
	Aera	No. 1	2.1	2.0	2.1	2.0	2.0	2.1	2.0	1.7	2.0	2.1	1.9	1.1	1.7	1.5	1.7	1.9	1.8	1.9	1.8	1.9	2.0	1.6	1.8	1.9	2.0	1.9	1.9	1.8	1.7	1.9		1.9
	n MLSS ifuge)	No. 2	6.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	6.0	1.0	1.0	1.1	1.2	1.2	1.2	1.1	1.2	1.3	1.4	1.5	1.5	1.5	1.3	1.3	1.3	1.3	1.3	1.2	1.5	1.4		1.2
	Aeration IMLSS (centrifuge)	No. 1	6.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.7	1.8	1.7	2.0	1.9	1.9	1.6	1.8	1.6	1.5	1.5	1.5	1.5	1.8	1.8	1.4	1.3	1.2	1.3	1.0	1.3	1.5		1.4
	TSS	lb/day			458							662							224							170								378
	TSS	l/b/m			410							069							220							150								368
Influent	BODs	lb/day			486							474							886							204		-						513
	BODs	//bm			435							494							871							180								495
	FLOW	pgu	0.1380	0.1160	0.1340	0.0950	0.1270	0.1030	0.1220	0.1290	0.1330	0.1150	0.1240	0.1250	0.1140	0.1280	0.1380	0.1350	0.1220	0.1220	0.1380	0.1180	0.1690	0.1720	0.1430	0.1360	0.1400	0.1000	0.1300	0.1540	0.1150	0.1350		0.1290
	DAY		-	2	6	4	2	8	1	0	6	2	-	12	13	4	15	9	-	28	6	2	27	22	23	24	52	92	27	88	88	8	55	AVE.

information	accurate, and	
d evaluate the	d belief, true,	sification).
erly gather an	knowledge ar	to unsworn fa
ersonnel prop	he best of my	904 (relating t
hat qualified p	bmitted is to t	e Pa. C.S. § 4
ed to assure t	information su	violations, Se
system design	rmation. The	imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).
ordance with a	nering the info	1 imprisonmer
firection or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information	ns directly responsible for gathering the information. The information submitted is to the best of my knowledge and belief, true, accurate, and	ling the possibility of fine and imp
ection or supe	s directly respo	ing the possibi
~	e perso	nation, includ
ints were prepared under my	e the system or	ng false inforr
ull attachments	ns who manag	es for submitti
locument and	erson or person	ificant penalti
law that this d	ny inquiry of the pe	there are sign
ertify under penalty of law that this document and all attachment	submitted based on my inquiry of the person or persons who manage the system or thos	emplete. I am aware that there are significant penalties for submitting false information, includi
l certify unc	submitted b	complete. I

Check if there were no 📋 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

BUREAU OF WATER STANDARDS AND FACILITY REGULATION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

	. 001				Outside	(F Deg.)	99	54	57	90	90	75	64	74	99	7/	90	76	78	74	76	72	99	70	64	67	65	72	64	62	99	68	68	62	68		67
2015	Outfall No. 001	xpiration		V.		tation)								The state of the s									The statement of the st														(Total)
SUND	PA 0024457	Renewal application due 180 days prior to expiration	This permit will expire on May 31, 2016		Weather/Comments	(inches Precipitation)	0.35	0.80	0.50			0.15			CO.T		0.40	0.10		0.35	0.35		0.10	0.45	0.10	0.10	0.95		0.25		0.10		0.65	0.10	0.05		6.60
Month	NPDES Permit No. PA 0024457	Renewal application	This permit will		FECAL	Q CFU/100 ml	_		950							8,400						1,600					840		6,600	260							1,625
					158) I/bm			6.0						C F.V	0.71						16.0							12.2								12.8
	County: Dauphin			ARAMETERS	CBOD 5	l/gm			21.5						46.6	0.01						12.0							2.0								14.0
ority	County			EFFLUENT PARAM	TRC	l/gm	0,41	0.44	0.57	0.49	0.48	0.47	0.47	0.47	0.30	0.00	0.50	0.48	0.48	0.43	0.47	0.57	0.62	0.47	0.42	0.45	0.40	0.65	0.52	0.65	0.52	0.48	0.39	0.36	0.49		0.49
Hallfax Area Water and Sewer Authority					0.0.	l/bm	5.6	5.0	5.3	5.0	5.6	5,5	5.7	5.0	2.3) K	5.2	5,4	5.2	5.5	5.7	5.9	5.6	5,3	5.5	5.1	5.3	5.6	5.6	6.8	9.9	6.5	6.2	6.0	0.909		25.6
Halifax Area Wate	Hallfax Borough	Q-9			Hd	SU	7.8	7.6	7.4	7.7	7.3	g',	4.7	8',	7.2	7.4	7.5	7.3	7.6	7.5	7.3	7.4	7.3	7,4	7.2	7.5	7.6	7.5	7.5	7.4	7.3	7.4	7.3	7.2	7.4		7.5
Facility Name:	Municipality:	Watershed:	Laboratories:		FLOW	pām	0.1380	0.1160	0.1340	0.090	0.1270	0.1030	0.1220	0.1230	0.1150	0.1240	0.1250	0.1140	0.1280	0.1380	0.1350	0.1220	0.1220	0.1380	0.1180	0.1690	0.1720	0.1430	0.1360	0.1400	0.1000	0.1300	0.1540	0.1150	0.1350		0.1290
					DAY		+	2	3	*	ဂ ဖ	6	- α	0	10	11	12	13	14	15	16	17	18	19	20	1.7	22	23	24	27	97	/7	87	29	30	5	AVE.

ormation operly e and lectify under penalty of law that this document and all attachments were prepared under my direction or conservision in accordance with a cycle decirned to each

gather and evaluate 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 info submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). Prepared By: Jeffrey L. Grosser	gauner and evaluate 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 info submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). Prepared By: Signature:
Title: Manager	Date:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

Facility Name:

2016

acincy regime.	Hallfax Area Water	Hallfax Area Water and Sewer Authority								2045
Municipality:	Hallfax Borough	County:	Dauphin					•	NPDES Permit No. PA	0024457
Watershed:	ပ္		A CONTRACTOR OF THE PROPERTY O						This permit will expin	on May 31,
Oheck here if the	ere were no off-site re	emovai eventa during the	4							
Lk	quid Sewage Sludge	/ Biosolids Hauled Off-	ste	Dewaterec	Sewage Sludge / Big	osolids Hauled Off	site	Sewage S	ludge / Biosolids Dev	atered
Date Gallons	% Solids	X Conv. Factor	= Onv Tons	Tone dematerade elistone	- Collida	7000		- 1	d Incinerated On-site	
		X 0.0000417	20016	egonis neverence suo	Spillos oz V	X 0.07	= Dry lons	- 1	X % Solids	= Dry
		X 0.0000417				0.0			***************************************	
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		X 0.0000417				X 0.01				
		X 0.0000417				X 0.01				
		X 0.0000417				X 0.01			MACHINE AND	**************************************
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THE PERSON NAMED AND PARTY OF THE PE		X 0.0000417				X 0.01				
AND THE PROPERTY OF THE PROPER		X 0.0000417				X 0.01				
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		X 0.0000417				X 0.01				-
		X 0.0000417				X 0.01				A PROPERTY OF THE PROPERTY OF
		X 0.0000417			***************************************	X 0.01			And the contract of the contract of the state of the stat	A STATE OF THE PARTY OF THE PAR
		X 0.0000417				X 0.01				
		X 0.0000417				X 0.01			BARTA PRINCIPATION CONTINUES OF THE PRINCIPAL	ari malamati mananana any any
0	io//\ig#	X 0.0000417				X 0.01				
			Check hare if there were no off-site removal events d Liquid Sewage Sludge / Blosolids Ha Liquid Sewage Sludge / Blosolids Ha Callons	Watershad: 6-C Check here if there were no off-site remov Liquid Sewage Sludge / Bit Gailons % Solids 0 #DIV/0!	Check have if there were no off-site removal events during the month Check have if there were no off-site removal events during the month Liquid Sewage Studge / Biosolids Hauled Off-site Dry Tons Tons dewaters	Check have if there were no off-site removal events during the month Check have if there were no off-site removal events during the month Liquid Sewage Studge / Biosolids Hauled Off-site Dry Tons Tons dewaters	Check have if there were no off-site removal events during the month Check have if there were no off-site removal events during the month Liquid Sewage Studge / Biosolids Hauled Off-site Dry Tons Tons dewaters	Check here if there were no off-site removal events during the month Check here if there were no off-site removal events during the month Liquid Sewage Sludge / Blosolids Hauled Off-eite Dry Tons Tons dewatered Sewage Sludge / Blosolid X 0.0000417	Check here if there were no off-site removal events during the month Liquid Sewage Studge Blosolida Hauled Off-site Check here if there were no off-site removal events during the month Liquid Sewage Studge Blosolida Hauled Off-site Check here if there were no off-site removal events during the month Dewatered Sewage Studge Stocolida Hauled Off-site Check here if there were no off-site removal events during the month Dewatered Sewage Studge Stocolida Hauled Off-site Check here if there were no off-site removal events at a control of stocolida Hauled Off-site Dewatered Sewage Studge Stocolida Hauled Off-site Tons Gewaler	Check have if there were no off-site removal events during the month Liquid Sewage Studge / Blosolida Hauled Off-site Check have if there were no off-site removal events during the month Liquid Sewage Studge / Blosolida Hauled Off-site Check have if there were no off-site removal events during the month Dewatered Sewage Studge / Blosolida Hauled Off-site Check have if there were no off-site removal events during the month Dewatered Sewage Studge / Blosolida Hauled Off-site Check have if there were no off-site Dry Tons Check have

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/blosolids or ash were disposed or land applied)

	S/TE 1	SITE 2	SILES
Site Name:	Kline's Septic	Harrisburg Sewer Plant	V
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	the meterological and a second complete control of the second cont
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0		THE STREET STREET, STR
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	Marian in the state of the stat
Hauler Name:	Kline's Septic	Kine's Septic	THE STREET
			_

^{*} See Instructions for explanation

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 gather and evaluate the information. The information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are sumificant panalties for entanging the information.

Pa. C.S. § 4904 (relating to unsworn falsification).	Signature:	Date:
una uncre are significant penatities for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Jeffrey L. Grosser	Мападел
ulat uicle ale sigi	Prepared By:	Title

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Hallfax Borough 6-C Municipality:

Watershed:

Outfall No. 001 This permit will expire on May 31, 2016 NPDES Permit No. PA 0024457

2015

JULY

Month

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	ook adalah ka											finds, estimateres estadologis, destinates acestrates proportes destados de sensos de sensos estados por estado																					
Process Control	Sludge	gallons	2,400	2,800	1,200	800	800	1,200	2,400	2,400	2,000	2,400	800	800	2,400	2,400	2,400	2,400	2,400	800	800	1,200	2,800	2,400	2,400	2,400	800	800	2,400	2,400	2,400	1,600	2,400
Proces	Aeration DO ma/l	No. 2	1.9	2.1	2.0	2.0	1.9	2.0	2.0	1.8	6.1	2.2	2.0	2.1	2.0	1,9	2.0	1.9	1.8	1,7	1.9	1.8	1.9	1.9	1.8	1.7	1.9	1.7	1,9	1.7	1.7	1.6	1.8
	Aerati	No. 1	1.9	2.0	2.1	2.0	2.0	2.0	1,9	2.0	1.9	1.7	1.5	1.6	1.8	1.7	1.7	1.8	1.7	1.7	1.8	1.9	1.8	2.0	2.0	1.8	2.0	1.7	1.9	1.7	1.8	1.9	1.6
	Aeration MLSS (centrifuge)	No. 2	1.5	1.3	1.3	1.3	1.2	1.1	1.3	1.4	1.5	1.7	1.7	1.7	1.7	1.5	1.5	1.6	1.5	4,1	4.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1,4	1.4	1.3	4.1
	Aeratio (cent	No. 1	1.5	4.1	1.2	1.3	1.0	1.0	1.5	1.5	1.6	1.3	1.3	1.3	1.4	1.4	1.3	1.5	1.4	1.3	4.1	1.3	1.4	1.5	1.5	1.4	1.4	1.3	1.5	1.5	1.5	1.4	1.5
	158	lb/day	322							138							291							158							104		
	TSS	l/gm	309							125							253							163							104		
influent	BOD¢	lb/day	448							160							700							138							141		
	BODs	//gm	428							145							809							143							141		
	FLOW	pBm	0.1250	0.1200	0.1140	0.1540	0.1110	0.1190	0.1390	0.1320	0.1330	0.1220	0.1060	0.1330	0.1310	0.1160	0.1380	0.1140	0.1110	0.1260	0.1450	0.1330	0.1610	0.1160	0.1080	0.1150	0.1070	0.1380	0.1360	0.1230	0.1200	0.1340	0.1380
	DAY		L	2	ဇ	4	မာ	စ	~	۰	6	9	=	12	13	7	15	16	4	8	19	8	2	22	23	24	25	58	27	88	53	8	5

and belief, true, accurate, and 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 gather and evaluate the information alsification). subrr

Check if there were no 🗀 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

nitted 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 a plete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn for Prepared By: Jeffrey L. Grosser Signature: Date:

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

	2015	Outfall No. 001	xpiration	
	JULY	1024457	180 days prior to e	re on May 31, 2016
	Month	NPDES Permit No. PA 0024457	Renewal application due 180 days prior to expiration	This permit will expire on May 31, 2016
		Z	Ren	
DUMO THIS INTO THE PROPERTY OF	Authority	County: Dauphin		
2	Hallfax Area Water and Sewer Authority	Halifax Borough	Q-9	CANAL STATE OF THE PROPERTY SECTIONS AND ANY SECTION SECTIONS AND ASSESSMENT OF THE PROPERTY O
	Facility Name:	Municipality:	Watershed:	Laboratories:

	Outside Temperature	(F Deg.)	67	90	70	70	68	38	70	72	70	71	78	74	99	70	68	57	64	68	78	76	76	70	64	62	99	68	72	67	68	74	67	68
	Weather/Comments		0.25	0.05		0.35	0.15				0.20	0.40				0.10	0.60		THE PROPERTY OF THE PROPERTY O	0.35	0.50			0.20					0.75				0.20	4.10 (Total)
	FECAL	Q CFU/100 ml	3,400	5,600						520							2,600	33						645							32			561
	158	l/bm	10.6							16.7							23.6							6.0							6.6			12.7
TERS	CBOD 5	l/gm	0.9							8.0							0.3							4.0							3.0			5.2
EFFLUENT PARAMETERS	TRC	l/bm	0.56	0.47	0.52	0.51	0.38	0.44	0.55	0.56	0.45	0.55	0.49	0.47	0.36	09:0	0.48	99.0	0.54	0.62	0.50	0.46	0.52	0.48	0.54	0,49	0.46	0.44	0.40	0.50	0.40	0.46	0,47	0.49
	D.O.	l/bm	6,1	5,3	5.4	5.3	5.4	5.5	5.6	5.2	5.5	5.2	5.1	5.0	5.2	5.5	5.4	5.8	5.1	5.0	5.0	5.4	5.2	5.0	5.3	5.4	5.2	5.1	5.4	5.6	5.7	5.3	5.5	5.3
	рН	SU	7.3	7.3	7.4	7.3	7.2	7.3	7.2	7.3	7.4	7.3	7.5	7.2	7.1	7.3	7.3	7.2	7.3	7.2	7.1	7.3	7.2	7.5	7.4	7.2	7.5	7.4	7.3	7.2	7.3	7.0	7.2	7.3
	FLOW	pāш	0.1250	0.1200	0.1140	0.1540	0.1110	0.1190	0.1390	0.1320	0.1330	0.1220	0.1060	0.1330	0.1310	0.1160	0.1380	0.1140	0.1110	0.1260	0.1450	0.1330	0.1610	0.1160	0.1090	0.1150	0.1070	0.1380	0.1360	0.1230	0.1200	0.1340	0.1380	0.1264
	DAY			2	8	4	2	9	7	80	6	2	11	7.7	13	14	15	16	17	18	19	20	21	22	23	24	25	26	17	28	53	င္က	31	AVE.

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l certify under pe gather and evalua submitted is to th imprisonment for	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 pr gather and evaluate 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 info submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	ordance with a system designed to assure that qualified personnel to persons directly responsible for gathering the information. The inities for submitting false information, including the possibility of fit
Prepared By:	Jeffrey L. Grosser	Signature:
Title:	Manager	Date:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

JULY 2016	NPDES Permit No. PA 0024457	This permit will expire on May 31, 2016
Denskin	y: Oaupin	
Halifax Area Water and Sewer Authority	- COUNTY:	and the second s
Facility Name:	Watershed:	

	Sewage Sludge / Blosolids Dewatered	and incinerated On-site	ions dewerered X % Solids = Dry Tons			MANAGEMENT TOTAL CONTROL OF THE PROPERTY OF TH	THE PARTY OF THE P							THE PROPERTY OF THE PROPERTY O	THE PARTY OF THE P							TOTAL: 0.00
	f-site		= Dry rons																			0.00
	Dewatered Sewage Sludge / Blosolids Hauled Off-site	V 0 0 4	0.0	× 0.01	X 0.01	X 0.01	X 0.01	¥ 664	200	0.0 <	X 0.01	X 0.01	X 0.01	X 5.04	200 7	20.00 X	X 0.04	100 X	200	0.0	A 0.01	TOTAL
	Sewage Sludge /	V 8/ Solida	-[***************************************							***************************************		***************************************						
	Dewatered	Tons devisioned short	one remaining																			
month	site	= Dry Tone	200	0.423						White was the second se	A NA	0.425	0.575						-		3 7 7 8	1,420
☐ Check here if there were no off-site removal events during the month	Liquid Sewage Studge / Biosolids Hauled Off-site	X Conv. Factor	V 0.000447	0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	* tooooo o	A 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	N. L.Y.L.Y.L.	700
re were no off-site re	uld Sewage Sludge	% Solids	6.8	1.7								<i>f</i> 1	2.3							1.9		
Check here if the	Liq	Gallons	6,000				And the same of th			The state of the s	R NAS	200.0	6,000					**************************************		18,000	The state of the s	
•		Date	7/8/15								7//8/15	21216	01/9//									

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE	SITE 2	
	Kline's Septic	Harrisburg Sewer Plant	
,	Salunga	Harrisburg	The desiration of the Property of Column Section Secti
	Lancaster	Dauphin	Marketine in the description of the second s
DEP Permit Number:	101607	27198	STREET,
Material*	Liquid Biosolids	Liquid Biosolids	
ons Disposal:	0.42534	1 0008	
)isposed:	6,000	12,000	The state of the s
isposal/Use:*	Sewer Plant	Sewer Plant	Antienty is an employed desirably to desirably the second
ame:	Kline's Septic	Kline's Septic	A STATE OF THE PROPERTY OF THE
			_

^{*} See instructions for explanation

ite. I am aware 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 gather and evaluate 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 submitted is to the best of my knowledge and belief, true, accurate, and complete. I am awar

reconstructly responsive to gautering the information. The information submitted is to the pest of my knowledge and belief, frue, accurate, and complet the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Signature:	Date:
that there are significant penalties for submitting false information, including the possibility of fine and impr	Jeffrey L. Grosser	ार्थातप्रदा
that there are sign	Prepared By:	7.55

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Hallfax Area Water and Sewer Authority

Hallfax Borough 6-C Municipality: Watershed:

This permit will expire on May 31, 2016

NPDES Permit No. PA 0024457 Month

Outfall No. 001 2015

AUGUST

And the second s		No. of the last of											***************************************		\$600 to 1000 to					Name of the last o														
A SECTION AND ASSESSMENT OF THE PROPERTY OF TH																																		
Process Control	Sludge Wasted	gailons	1,200	800	2,400	2,400	1,800	2,400	2,200	800	800	2,400	2,400	2,400	1,600	2,400	800	800	2,000	2,000	3,200	2,400	2,400	800	800	1,200	1,200	400	1,200	1,800	800	800	1,000	1,600
Proces	l	No. 2	1.9	2.0	1.8	1.8	1.7	1.8	2.3	2.1	2.0	1.9	1.7	1.8	1.6	1.5	1.7	1.6	4,1	1.5	1.6	1.5	1.5	1.6	1.7	1.6	1.5	1.5	1.6	1.7	1.6	1.5	1.6	1.7
	Aeration DO mg/l	No. 1	1.8	1.9	2.0	1.8	1.7	1,6	1.2	4,1	1.5	1.8	1.7	1.7	1.6	1.6	1.5	1.7	1.6	1.7	1.6	1.7	1.5	1.6	1.8	1.6	1.6	1.7	1.6	1.7	1.5	1.7	1.7	1.6
	MLSS uge)	No. 2	4.1	1,4	1.5	1.4	1.4	1.5	1.4	1.4	1.3	1,4	4.1	1.4	1.3	4.1	1.3	1.3	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.5	1,4
	Aeration MLSS (centrifuge)	No. 1	1.9	1.9	1.6	1.7	1.8	1.8	1.8	1.8	1.8	1.7	1.5	1.5	1,4	1.5	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6
	TSS	lb/day					122							148							154							65						122
	TSS	mg/l					124							148							162							70						126
Influent	BODe	lb/day					114			The second secon				137							315							117						171
	BODs	l/b/m					116							137							331							125						177
	FLOW	pBw	0.1190	0.1300	0.1110	0.1190	0.1180	0.1380	0.1040	0.0970	0.1180	0.1290	0.1290	0.1200	0.1160	0.1290	0.1060	0.1270	0.1310	0.1170	0.1140	0.1340	0.1500	0.1060	0.1130	0.1090	0.1190	0.1120	0.1000	0.1000	0.1040	0.1100	0.1320	0.1181
	DAY		-	2	8	4	0	9 1		20	a K	2	=	12	13	74	2	16	7	18	19	200	17	77	3	47	\$ \$ \$	2 2	/7	87	67	98		AVE.

nd belief, true, accurate, and Isification). d evaluate the information lifford . I certify under penalty of law that this document and all attachments mqns comp

Check if there were no 🗌 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

The state of the s		
Date:	Manager	Title:
Signature:	Prepared By: Jeffrey L. Grosser	Prepared By:
itted 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 an older. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn fal	itted based on my inquiry of the person or persons who manage that there are significant penalties for submitting	nitted based on my plete. I am aware th
were prepared under his direction of supervision in accordance with a system designed to assure that qualified personnel property gather and	and energy by the time accomment and all alleged by	free bound

SUPPLEMENTAL REPORT - DAILY FFFLIENT MONITORING

9

	. 001			Outside Temperature	(F Deg.)	70	79	69	88	62	64	62	68	70	74	76	63	62	64	77	79	70	73	75	74	70	62	99	64	64	62	54	55	62	65	62	67
2015	Outfall No. 001			nents	(ation)										***************************************				err rependential des la company de la compan		A CONTRACTOR OF THE PROPERTY O	THE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLU															(Total)
AUGUST	NPDES Permit No. PA 0024457 Couff Renewal application due 180 days prior to expiration	This permit will expire on May 31, 2016		Weather/Comments	(incress Precipitation)				0.20				Andrew Commencer Com			0.40		0.10						0.05	0.25	2.00			***************************************	0.10							3.10
JNITORING Month	NPDES Permit No. Renewal application	This permit will		FECAL	Q CFU/100 ml					627							17							270							2	The second secon					49
L REPORT - DAILY EFFLUENT MONTORING Mo				158	//bm					5.0							10.5							27.5							5.5						12.1
OKI - DAILY	County: Dauphin		PARAMETERS	CBOD 5	/bm					3.0							3.0							7.0							5.0						4.5
AIN.	County		EFFLUENT PARAM	TRC	l/bm	0.58	0.50	0.41	0.47	0.44	0.46	0.53	0.50	0.62	0.54	0.48	0.49	0.47	0.48	0.46	0.49	0.51	0,48	0.54	0.50	0.47	0.45	0,44	0.45	0.50	0.53	0.50	0.47	0.52	0.49	0.46	0.49
SUFFLI er and Sewer Auth				D:0	mg/l	5.1	5.0	5.1	5.0	5.3	5.2	5,3	5.2	5.0	5.3	5.1	5.2	5.4	5.2	5.4	5.5	5.3	5,4	5.1	5.3	5,4	5.2	5.6	5.2	5.3	5.4	5.2	5.1	5.3	5,4	5.2	5.2
SUFFLEIMI Halifax Area Water and Sewer Authority	Halifax Borough 6-C	Alle de la constante de la con		둽	Us]	7.1	7.0	7.2	7,3	7.2	0.7	7.2	7.1	7.3	7.4	7.2	7.1	7.3	7.2	7.4	7.1	7.2	7.1	7.3	7.2	7.3	7,4	7.5	7.3	7.1	7.3	7.2	7.3	7.1	7.2	7.1	7.2
Facility Name:	Municipality: Watershed:	Laboratories:	A PARTICULAR DE LA CONTRACTOR DE LA CONT	FLOW	mgd	0.1190	0.1300	0.1110	0.1190	0.1180	0.1380	0.1040	0.0970	0.1190	0.1290	0.1290	0.1200	0.1160	0.1290	0.1060	0.1270	0.1310	0.1170	0.1140	0.1340	0.1500	0.1060	0.1130	0.1090	0.1190	0.1120	0.1000	0.1000	0.1040	0.1100	0.1320	0.1181
			desirada and an	DAY		-	7	8	4 4	0	0	,	φ	6	10	-	12	13	14	15	16	17	18	19	50	21	22	23	24	25	26	27	28	29	30	31	AVE.

gather and evaluate 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 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 ne and

or submitting false information, including the possibility of fi	re:	
submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fir imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Signature:	Date:
submitted is to the best of my knowledge and belief, true, a imprisonment for knowing violations. See Pa. C.S. § 4904 (Jeffrey L. Grosser	Manager
submitted is to the imprisonment for	Prepared By:	Title:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

Facility Name:	Hailfax Area Water and Sewer Authority	AUGUST 2015
Municipality:	Halifax Borough County: Dauphin	NPDES Permit No. PA 0024457
watershed:	2-9	This permit will expire on May 31, 2016

	watered	0 = 00, 7000	1	***************************************	The second lands and in the second se			-		***************************************									
	Sewage Sludge / Blosolids Dewatered	and incinerated On-site	2000	ANTENNA PROPERTY AND ANTENNA P	And the second s			***************************************		***************************************									
	Sewage	Tons dewatered	1																
	-site	= Dry Tons																	
	Dewatered Sewage Sludge / Biosolids Hauled Off-site	X 0.01	X AA1	X 0.01	X 0.01	X 0.01	X 0.01	X 0.01	X 0.04	X 0.01	200 X	X 0.0	\$ 0.0 X	\$00 X	100 X	X 0.01	X 0.01	X 0.01	
	Sewage Sludge / E	spilos % X																	
	Dewatered	Tons dewatered studge																	
month.	site	= Dry Tons	0.701	0.626	0.300					0.726	0.626	0.651	0.300	0.200					
	Liquid Sewage Sludge / Biosolids Hauled Off-site	X Conv. Factor	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	X 0.0000417	The state of the s
	ıld Sewage Sludge /	% Solids	2.8	3						2.9	2.5	2.6	1.2	0.8				2.1	
And the state of the same of t	Llq	Gallons	6,000	6,000	6,000					6,000	6,000	6,000	6,000	6,000				48,000	The state of the s
-1 <u>-</u>		Date	8/20/15	8/24/15	8/24/15					8/20/15	8/20/15	8/20/15	8/28/15	8/31/15					

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Oite Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	1.6263	2.502	
Gallons Disposed:	18,000	30,000	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	ACCOMPANIES CONTRACTOR OF THE PROPERTY OF THE
Hauler Name:	Kline's Septic	Kline's Septic	
		MANAGEMENT AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN	_

^{*} See instructions for explanation

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 gather and evaluate the information submitted is to the best of my knowledge and belief, 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. See Pa. C.S. § 4904 (relating to unsworn falsification).

Signature;	-	DATA
Jeffrey L. Grosser	Manager	
Prepared By:	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Hallfax Borough 6-C Municipality: Watershed:

Outfall No. 001 This permit will expire on May 31, 2016 NPDES Permit No. PA 0024457

2015

SEPT.

Month

																		TO COMMISSION AND AND AND AND AND AND AND AND AND AN																
												A CANADA MANAGA AND AND AND AND AND AND AND AND AND AN					errere d'orse maintenances services qualités de l'administration de l'administration de l'administration de l'a		in the sea of this list, the statement of the sea of th	William to the state of the sta														
Process Control	Sludge Wasted	gallons	5,400		1,200	2,400	800	800	1,200	1,000	1,000	1,600	1,600	800	800	1,600	1,600	1,600	1,600	1,200	800	800	1,600	1,200	2,400	1,600	800	800	800	2,400	400	1,200		1,367
Proces	Aeration DO mg/l	No. 2	4.1	1.2	1.3	4.1	1.3	1.5	1.7	1.6	1,5	1.6	4.1	1.6	4.1	1.3	1.5	1.6	4.1	1.3	1.5	4,1	1.5	1,4	1.4	1,8	1.9	1.7	1.8	1.9	2.0	1.8		1.5
	Aerati	No. 1	1.6	1.7	1,4	1.5	1.6	1.4	1.5	1.5	4.1	1.5	1,4	1.5	4.1	1.5	1.7	1.7	1.6	1.4	1.5	1,4	1.5	1.7	1.7	2.2	2.2	2.3	2.5	2.2	2.1	2.0		1.7
	MLSS fuge)	No. 2	1.5	1.5	1.4	1.3	1.3	1.2	1.2	1.3	1.2	1.1	1.2	1.2	1.2	1.1	1.3	1.2	1.2	1.1		1.1	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4	1.5	1.2		1.3
	Aeration MLSS (centrifuge)	No. 1	1.5	1.1	1.2	1.2	1.2	1.0	1.1	1.1	1.3	1.3	1.2	1.2	1.2	1.3	1.3	1.2	1.3	1.2	1.3	1.3	1.0	6.0	1.0	1.0	1.0	1.0	1.0	1.1	0.9	1.0		1.1
	TSS	lb/day		400								166							120							260								236
	T8S	/bu		413								166							144							325								262
Influent	BODs	lb/day		205								750							173							302								357
	BODs	mg/l		212								749							207							377								386
	FLOW	pgu	0.1200	0.1160	0.1190	0.1210	0.1130	0.1120	0.1060	0.1230	0.1230	0.1200	0.1100	0.1000	0.1440	0.0700	0.0990	0.0990	0.1000	0.1030	0.1040	0.1160	0.1080	0.1010	0.0920	0.0960	0.1180	0.0860	0.1050	0.1190	0.1080	0.1490		0.1100
	DAY		-	7	6	4	3	9	-	×	6	2	-	12	2	4	15	2	12	18	2	8	21	22	23	24	52	82	27	28	58	8	_	AVE.

and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information	rsons 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	alties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. \$ 4904 (relating to unsworn falsification).
certify under penalty of law that this document and all attachments were prepared under my dire	submitted based on my inquiry of the person or persons who manage the system or those persons	complete. I am aware that there are significant penalties for submitting false information, includir

Check if there were no 🗌 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🦲 non-compliance incidents during the month (otherwise attach the appropriate forms).

Date:	Manager	Title:
Signature:	Prepared By: Jeffrey L. Grosser	Prepared By:
mitted 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 by plete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsificant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsificant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsificant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	inquiry of the person or persons who mat there are significant penalties for sul	mitted based on my i iplete. I am aware th
ALLY WINCH PERMITS OF IAM WISH WISH WISH WAS DEPORTED WINDS THE WIND WITH SUCCEPTURED THE SYSTEM DESIGNED TO ASSURE THAT QUALITIED PERSONNEL PROPERTY BATHER AND EVENTUAL PROPERTY OF THE PROPERTY BATHER AND EVENTUAL PROPERTY OF THE PROPERT	or raw triat trits document and an attach	any ander penany o

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

2015 Outfall No. 001 Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016 SEPT. NPDES Permit No. PA 0024457 County: Dauphin Halifax Area Water and Sewer Authority Halifax Borough 6-C Facility Name: Laboratories: Municipality: Watershed:

	Outside Temperature	(F Deg.)	66	67	94	70	71	70	72	67	72	68	68	67	68	54	62	64	63	64	52	90	55	56	53	57	48	54	90	65	70	72		63
	nents	(IODE				Tricing to the second s					of This statement of the statement of th														Section of the sectio									(Total)
	Weather/Comments											0.10	0.50		0.25						of the state of th			0.05							0.05	1.65		2.60
	FECAL	Q CFU/100 ml	L	845								5,200							3,700							25				4,600	95			750
	158	l/gm		9.6								12.1							7.1							26.1								13.7
RAMETERS	CBOD 5	l/gm		6.0								14.0							7.0							4.0								7.8
EFFLUENT PARAM	TRC	∥b/u	0.43	0.48	0.47	0.49	0.48	0.38	0.48	0.49	0.52	0.50	0.46	0.53	0.51	0.43	0.46	0.49	0.53	0.50	0.46	0.44	0.49	0.51	0.53	0.56	0.50	0.48	0.49	0.58	0.52	0.53		0.49
	D.O.	∥⁄8m	5.4	5.2	5.3	5.2	5.3	5.3	5.2	5.4	5.2	5.3	5.4	5.3	5.2	5.3	5.2	5,4	5.2	5.5	5,4	5.6	5.5	5.3	5.6	5.8	5.9	5.7	5.6	5.2	5.4	5.2		5,4
	Hď	SU	7.3	7.2	7.0	7.1	7.0	7.0	7.1	7.2	7.1	7.2	7.1	7.2	7.1	7.2	7.1	7.3	7.1	7.1	7.0	7.2	7.3	7.2	7.4	7.4	7.5	7,3	7.5	7.3	7.4	7.3		7.2
	FLOW	mgd	0.1200	0.1160	0.1190	0.1210	0.1130	0.1120	0.1060	0.1230	0.1230	0.1200	0.1100	0.1000	0.1440	0.0700	0.0990	0.0990	0.1000	0.1030	0.1040	0.1160	0.1080	0.1010	0.0920	0.0960	0.1180	0.0860	0.1050	0.1190	0.1080	0.1490		0.1100
	DAY		-	2	3	4	5	9	7	80	6	10	11	12	13	14	15	16	17	18	36	20	21	22	23	24	25	26	27	28	29	99	31	AVE.

nel properly se information fine and

l certify under pe gather and evalus submitted is to the imprisonment for	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 personn gather and evaluate 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 submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility o imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	sion in accordance with a system in or those persons directly respo cant penalties for submitting fals	designed to assure that qualified persont nsible for gathering the information. The information, including the possibility of
Prepared By:	Jeffrey L. Grosser	Signature:	erin de service de la companya de l
Title:	Manager	Date:	

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

	Facility Name:	Halifax Area Water	Halifax Area Water and Sewer Authority							SEPT	2015
	Municipality:	Hallfax Borough	County:	County: Dauphin	,					NPDES Permit No. PA 0024467	0024467
	Watershed:	J-9								This permit will expire on May 31, 2016	9 on May 31, 2016
										NATRO POR	arena militaria de la companya de l
	Check here if ti	here were no off-site re	Check here if there were no off-site removal events during the month	month							
	ī	Iquid Sewage Studge	Liquid Sewage Studge / Biosolids Hauled Off-site	ske	Dewatered	Dewatered Sewage Sludge / Biosolids Hauled Off-site	losolids Hauled Off	-site	Sewage	Sewage Sludge / Blosolids Dewatered	atered
Date	Gallons	% Solids	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	Solids X % Solids	= Dry Tons
			X 0.0000417				X 0.01		1		
			X 0.0000417				X 0.01				CONTRACTOR
			X 0.0000417				X 0.01				THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TO THE OWNER, THE PERSON NAMED IN COLUMN TO THE OWNER, THE OWN
			X 0.0000417				X 0.01				Consideration Commence of the
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
***************************************			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
Contribution			X 0.0000417				X 0.01				
-			X 0.0000417				X 0.01				The second secon
AND THE PROPERTY OF SECURITY O			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				The control of the co
-	The state of the s		X 0.0000417				X 0.01				
-			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01			AND THE PROPERTY OF THE PROPER	
-	0	in/Ain#	X 0.0000417				X 0.01				
			TOTAL	0.000			TOTAL	00'0		TOTAL	00'0

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all eites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SITE 3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	With the Table State of the State St
DEP Permit Number:	101607	27198	Monte or an indicate the company of the contract of the contra
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	THE STREET STREET, STR
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	

^{*} See Instructions for explanation

based on my inquiry of the 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). 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 gather and evaluate the information submitted

Signature:	Date:	
Jeffrey L. Grosser	Manager	
Prepared By:	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Hallfax Area Water and Sewer Authority

Halifax Borough Municipality:

ပ္ Watershed:

This permit will expire on May 31, 2016

NPDES Permit No. PA 0024457

Outfall No. 001

2015

OCTOBER

(centrifuge) Mo 2 No 2 No 1 1.3 2.1 2.0 1.1 2.0 1.2 2.0 1.0 2.0 2	l j ul	Infl	lfu	Influent			•				Process Control
1.3 2.1 No. 2 1.3 2.1 2.0 1.1 2.0 1.8 1.2 2.1 1.9 1.2 2.0 2.0 1.0 2.1 2.0 1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.2 2.0 1.1 2.2 2.2 1.1 2.2 2.2 1.1 2.3 2.2 1.1 2.3 2.2 1.1 2.3 2.2 1.1 2.3 2.2 1.0 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.1 2.3 1.1 1.2 2.4 1.0 1.1 2.3 1.1 1.2 2.4 1.1 1.2 2.5 2.0 1.1 2.3 1.1 1.2 2.2 1.1 1.2 2.2 1.1 1.2 2.3 1.2 1.1 2.3 2.2 1.1 2.3 2.2 1.1 2.3 2.2 1.1 2.3 2.2 </th <th>FLOW BOD₆ BOD₆ TSS T3</th> <th>BOD₆ TSS</th> <th>TSS</th> <th></th> <th>ř</th> <th>TSS</th> <th>Aeration (centri</th> <th>MLSS fuge)</th> <th>Aerati m</th> <th>on DO g/I</th> <th>Sludge Wasted</th>	FLOW BOD ₆ BOD ₆ TSS T3	BOD ₆ TSS	TSS		ř	TSS	Aeration (centri	MLSS fuge)	Aerati m	on DO g/I	Sludge Wasted
1.3 2.1 2.0 1.1 2.0 1.8 1.2 2.1 1.9 1.1 2.0 2.0 1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.2 2.2 1.1 2.2 2.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.2 1.0 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.0 1.2 2.3 1.1 1.2 2.3 1.2 1.1 2.3 2.1 1.2 2.3 1.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.2 1.1 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.3 2.4 1.1 2.3 2.4 <th>mgd mg/l lb/day mg/l lb/day</th> <th>lb/day mg/l</th> <th>l/gm</th> <th></th> <th>ip/qi</th> <th>3.7</th> <th>No. 1</th> <th>No. 2</th> <th>No. 1</th> <th>No. 2</th> <th>gallons</th>	mgd mg/l lb/day mg/l lb/day	lb/day mg/l	l/gm		ip/qi	3.7	No. 1	No. 2	No. 1	No. 2	gallons
1.1 2.0 1.8 1.2 2.1 1.9 1.1 2.1 2.0 1.0 2.1 2.0 1.0 2.3 2.1 1.0 2.3 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.1 2.2 2.2 1.1 2.2 2.2 1.1 2.3 2.1 1.1 2.3 2.1 1.0 2.3 1.0 1.1 2.3 1.1 1.1 2.3 1.1 1.1 2.3 1.1 1.2 2.4 1.1 1.2 2.5 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.3 1.0 2.5 2	105 93	93 169	169		149	П	1.1	1.3	2.1	2.0	1,600
1.2 2.1 1.2 2.0 1.0 2.0 1.0 2.3 1.0 2.3 1.0 2.4 2.0 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.0 2.4 2.1 1.1 2.2 2.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 1.0 1.1 2.3 1.1 1.2 2.4 1.0 1.1 2.3 2.1 1.2 2.4 1.2 1.1 2.5 2.0 1.1 2.3 2.1 1.2 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.3 2.4 1.1 2.5 2.3 1.	0.0970						1.1	1.1	2.0	1.8	1,600
1.2 2.0 2.0 1.0 1.0 1.0 2.4 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	0.1080						1.1	1.2	2.1	1.9	800
1.1 2.1 2.0 1.0 2.0 2.1 1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.4 2.0 1.1 2.2 2.0 1.1 2.2 2.0 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 1.0 1.2 2.3 1.0 1.1 2.3 2.0 1.1 3.3 2.1 1.1 2.3 2.3 2.1 1.1 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3 3.3	0.0930						1.1	1.2	2.0	2.0	800
1.0 2.0 2.1 1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.4 2.0 1.1 2.2 2.2 1.1 2.2 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 1.0 1.2 2.3 1.0 1.1 2.3 1.0 1.2 2.3 1.0 1.1 2.3 2.4 1.1 2.3 2.1 1.1 2.3 2.4 1.1 2.3 2.1 1.1 2.5 2.3 2.1 1.1 3.3 2.1 1.1 3.3 2.1 1.1 4.3 2.1 1.1 5.3 2.1 1.1 5.3 2.1 1.1 5.3 2.1 1.1 7.3 2.1 1	0.0970						1.1	1.1	2.1	2.0	1,600
1.0 2.1 2.0 1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.4 2.1 1.1 2.2 2.1 1.1 2.2 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.0 1.2 2.3 1.1 1.2 2.3 1.1 1.2 2.3 2.1 1.2 2.3 2.1 1.2 2.3 2.1 1.2 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.3 2.4 1.1 2.5 2.3 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 <td>0.0930</td> <td></td> <td></td> <td></td> <td>Total Control of the Control of the</td> <td>1</td> <td>1.0</td> <td>1.0</td> <td>2.0</td> <td>2.1</td> <td>1,600</td>	0.0930				Total Control of the	1	1.0	1.0	2.0	2.1	1,600
1.0 2.3 2.1 1.0 2.4 2.0 1.0 2.4 2.0 1.1 2.2 2.0 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 1.0 1.1 2.3 1.0 1.2 2.4 1.0 1.1 2.3 2.1 1.2 2.4 1.0 1.1 2.3 2.1 1.2 2.3 1.0 1.1 2.3 2.1 1.2 2.4 2.1 1.1 2.3 2.1 1.2 2.4 2.1 1.1 2.3 2.1 1.2 2.5 2.2 1.1 2.3 2.1 1.2 2.5 2.3 1.0 2.5 2.3 1.1 2.3 2.1 1.1 2.5 2.3 2.1 1.1 2.3 2.1 1.2 2.4 2.1 1.3 2.5 2.3 1.0 1.4 2.5 2.3 1.0 1.5 2.5 2.3 1.0 1.6 2.5 2.3 2.1 1.7 2.5 2.3 2.1 1.8 2.9 2.1 1.9 2.0 2.3 2.1 1.1 2.2 2.3 2.1 1.1 2.2 2.3 2.1 1.1 2.5 2.3 2.1						7	1.0	1.0	2.1	2.0	1,600
1.0 2.4 2.0 1.0 2.5 2.2 1.0 2.4 2.1 1.1 2.2 2.0 1.1 2.3 2.1 1.1 2.3 2.1 1.0 2.4 1.0 1.1 2.3 2.1 1.0 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.2 2.3 1.1 1.2 2.3 1.1 1.2 2.3 2.1 1.2 2.3 2.1 1.2 2.3 2.1 1.2 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.3 2.4 1.1 2.5 2.3 1.1 2.3 2.3 1.1 2.3 2.3 <td>0.1050 181 159 142 124</td> <td>159 142</td> <td>142</td> <td></td> <td>124</td> <td>1</td> <td>1.0</td> <td>1.0</td> <td>2.3</td> <td>2.1</td> <td>400</td>	0.1050 181 159 142 124	159 142	142		124	1	1.0	1.0	2.3	2.1	400
1.0 2.5 2.2 1.0 2.4 2.1 1.1 2.2 2.0 1.1 2.2 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.0 2.4 1.0 1.1 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.2 2.3 1.1 1.2 2.3 1.1 1.2 2.3 2.1 1.2 2.3 2.1 1.2 2.3 2.1 1.1 2.5 2.2 1.2 2.3 2.1 1.1 2.5 2.2 1.0 2.5 2.2 1.0 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.2 2.3 2.3 1.1 2.3 2.3 1.1 2.3 2.3 1.1 2.3 2.3 <td>0.1250</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1.0</td> <td>1.0</td> <td>2.4</td> <td>2.0</td> <td>1,600</td>	0.1250					1	1.0	1.0	2.4	2.0	1,600
1.0 2.4 2.1 1.0 2.2 2.0 1.1 2.1 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.0 2.4 1.0 1.0 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.4 1.2 1.3 2.3 1.1 1.4 2.3 2.1 1.7 2.3 2.1 1.1 2.3 2.1	0.1010					\neg	1.0	1.0	2.5	2.2	800
1.0 2.2 2.0 1.1 2.1 2.1 1.1 2.2 2.2 1.1 2.3 2.1 1.1 2.3 2.2 1.0 2.4 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.1 2.3 1.1 1.2 2.3 1.1 1.2 2.3 1.1 1.2 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.1 2.5 2.2 1.0 2.5 2.4 1.1 2.5 2.4 1.1 2.5 2.4 1.1 2.5 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 1.1 2.3 2.4 <td>0.0950</td> <td></td> <td></td> <td></td> <td></td> <td>П</td> <td>1.0</td> <td>1.0</td> <td>2.4</td> <td>2.1</td> <td>800</td>	0.0950					П	1.0	1.0	2.4	2.1	800
1.1 2.1 2.1 2.1 1.1 1.1 2.2 2.2 2.2 2.2	0.1020						1.3	1.0	2.2	2.0	1,300
1.1 2.2 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.0 2.4 1.0 1.0 2.3 1.0 1.0 2.3 1.0 1.1 2.3 1.0 1.2 2.4 1.2 1.2 2.4 1.2 1.2 2.2 1.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.3 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.3 2.1	0.0940						4.	1.1	2.1	2.1	1,800
1.1 2.3 2.1 1.1 2.2 2.0 1.1 2.3 2.2 1.0 2.4 1.0 1.1 2.3 1.0 1.1 2.3 1.1 1.2 2.3 1.1 1.2 2.3 1.1 1.2 2.3 2.1 1.1 2.5 2.3 1.0 2.5 2.3 1.1 2.3 2.1 1.1 2.5 2.3 2.1 1.1 2.5 2.3 2.1							1.3	1.1	2.2	2.2	2,000
1.1 2.2 2.0 1.0 2.4 1.0 1.0 2.3 2.2 1.0 2.3 1.0 1.1 2.3 1.1 1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.4 1.2 1.2 2.4 1.2 1.2 2.4 1.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.3 1.0 2.5 2.3 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.3 2.1 1.1 2.5 2.3 2.1 1.1 2.5 2.3 2.1	0.0960 723 579 288 231	579 288	288		231		1.2	1.1	2.3	2.1	2,000
1.1 2.3 2.2 1.0 2.4 1.0 1.1 2.2 1.1 1.1 2.3 1.0 1.2 2.3 1.0 1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.2 1.2 1.1 2.3 2.1 1.1 2.3 2.1 1.1 2.5 2.1 1.1 2.5 2.1 1.1 2.5 2.1 1.1 2.5 2.1 1.1 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3	0.0920					7	1.2	1.1	2.2	2.0	2,000
1.0 2.4 1.0 1.0 2.3 1.0 1.1 2.2 1.1 1.2 2.3 1.1 1.2 2.4 1.2 1.2 2.4 1.2 1.2 2.5 2.0 1.1 2.3 2.1 1.2 2.4 2.1 1.1 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.4 1.1 2.5 2.3 1.1 2.5 2.4 1.1 2.5 2.3 1.1 2.5 2.3 1.1 2.5 2.3	0.0820						1.2	1.1	2.3	2.2	800
1.0 2.3 1.0 1.1 2.2 1.1 1.2 2.3 1.0 1.2 2.3 1.1 1.2 2.4 1.2 1.2 2.5 2.0 1.1 2.3 2.1 1.2 2.4 2.1 1.1 2.5 2.1 1.0 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.4 2.1 1.0 2.5 2.3	0.0910						1.3	1.0	2.4	1.0	800
1.1 2.2 1.1 1.0 2.3 1.0 1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.3 2.1 1.1 2.3 2.1 1.2 2.4 2.1 1.0 2.5 2.3 1.0 2.5 2.3 1.1 2.5 2.4 2.1 1.1 2.5 2.4 2.1 1.0 2.5 2.3	0.0880						1.2	1,0	2.3	1.0	2,400
1.0 2.3 1.0 1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.5 2.0 1.1 2.3 2.1 1.2 2.4 2.1 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.5 2.4 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.5 2.4 2.1	0.0820						1.3	1.1	2.2	1,1	2,000
1.1 2.3 1.1 1.2 2.4 1.2 1.2 2.5 2.0 1.1 2.3 2.1 1.2 2.3 2.1 1.2 2.4 2.1 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.5 2.4 1.0 2.5 2.3							1.2	1.0	2.3	1.0	2,000
1.2 2.4 1.2 1.2 1.2 1.2 1.2 1.1 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.0920 461 354 176 135	354 176	176		135	П	1.2	1.1	2.3	1.1	1,600
1.2 2.5 1.2 1.1 2.3 2.1 1.2 2.3 2.1 1.2 2.4 2.1 1.1 2.5 2.4 1.0 2.5 2.4 1.1 2.5 2.4	0.0980					1	1.3	1.2	2.4	1.2	2,400
1.2 2.3 2.1 1.1 2.3 2.1 1.2 2.4 2.1 1.1 2.5 2.2 1.0 2.5 2.3 1.1 2.5 2.4 1.1 2.5 2.4	0.0980						1.3	1.2	2.2	1.2	800
1.1 2.3 2.1 1.2 2.3 2.2 1.2 2.4 2.1 1.1 2.5 2.2 1.0 2.5 2.4 1.1 2.5 2.4 1.1 2.3 1.9	0.0940						1.3	1.2	2.5	2.0	800
1.2 2.4 2.1 1.1 2.5 2.2 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.3 1.9	0.0940						1.3	1,1	2.3	2.1	2,400
1.2 2.4 2.1 1.1 2.5 2.2 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.3 1.9	0.0760						1.4	1.2	2.3	2.2	2,400
1.1 2.5 2.2 1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.3 1.9						П	1.4	1.2	2.4	2.1	2,400
1.0 2.5 2.3 1.0 2.5 2.4 1.1 2.3 1.9	0.1420 151 179 100 118	179 100	100		118		1.4	1.1	2.5	2.2	2,400
1.0 2.5 2.4	0.1020						1.4	1.0	2.5	2.3	1,600
1.1 2.3 1.9							1.4	1.0	2.5	2.4	800
	0.0965 324 273 175 152	273 175	175		152		1.2	1.1	2.3	1.9	1,545

and belief, true, accurate, and 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 gather and evaluate the information alsification). subrr

Check if there were no 🔲 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

nitted based on my plete, I am aware th	inquiry of the person or persons who manage the system or those persons directly responst there are significant penalties for submitting false information, including the possib	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 splete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn fine and imprisonment for knowing violations.
Prepared By:	Prepared By: Jeffrey L. Grosser	Signature:
Title:	Manager	Date:

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

	2015	Outfall No. 001	(piration	
	OCTOBER	0024457	e 180 days prior to ex	This permit will expire on May 31, 2016
	Month	NPDES Permit No. PA 0024457	Renewal application due 180 days prior to expiration	This permit will exp
OVINO THIS INTO THE THIRD	er Authority	County: Dauphin		
•	Hallfax Area Water and Sewer Authority	Halifax Borough	Q-Q	
	Facility Name:	Municipality:	Watershed:	Laboratories;

	Outside Temperature	(F Deg.)	53	52	48	52	54	46	90	57	63	52	50	46	50	54	46	44	46	40	29	42	46	50	50	44	56	40	36	52	56	50	34	48
	nents	(1001)								A CONTRACTOR OF THE PROPERTY O				Antibolish and the second seco							The section of the se													(Total)
	Weather/Comments				0.75	0.25	0.20					0.30		0.10		0.05		- Anders de constitución de la c		0.10	THE RESERVOIS OF THE PROPERTY						0.25		AND THE RESERVE AND THE PROPERTY OF THE PROPER	0.10	1.20	0.10		3.40
	FECAL	Q CFU/100 m/	L							12							50							2							9			12
	TSS	l/gm	28.1							15.5							8.0							11.5							8.0			14.2
TERS	CBOD 5	l/gm	6.0							7.0							3.0							3.0							3.0			4.4
EFFLUENT PARAMETERS	TRC	l/gm	0.69	0.41	0.48	0.44	0.46	0.50	0.52	0.50	0,49	0,47	0.48	0.68	0.52	0.50	0.51	0.49	0.50	0.41	0.44	0.48	0.45	0.49	0.46	0.47	0,44	0.42	0.48	0.47	0.49	0.48	0,45	0.49
	D.O.	l/gm	5,4	5.5	5.0	5.2	5.4	6.0	6.1	5.8	6.0	5.6	5.8	5.4	5,3	5.2	5,4	5,4	5.2	5.4	5.2	5.1	5,4	5,8	5.7	5.5	5.6	5.8	6.0	6.1	6.3	6.5	6.4	5.6
	Hd	ns	7.2	7.3	7.1	7.0	7.2	7.0	7.2	7.1	7.3	7.4	7.4	7.3	7.3	7.4	7.3	7,4	7.3	7.5	7.3	7,4	7.3	7,3	7.2	7.5	7.4	7.5	7.3	7.2	7.1	7.3	7.2	7.3
	FLOW	pāш	0.1060	0.0970	0.1080	0:0930	0.0970	0.0930	0.1010	0.1050	0.1250	0.1010	0.0950	0.1020	0.0940	0.0950	0.0960	0.0920	0.0820	0.0910	0.0880	0.0820	0.0890	0.0920	0.0980	0.0980	0.0940	0.0940	0.0760	0.0860	0.1420	0.1020	0.0790	0.0965
	DAY		-	2	က	4	2	9		ω .	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	/7	28	29	99	3.1	AVE.

properly nformation ine and

l 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 p gather and evaluate 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 am aware that there are significant penalties for submitting false information, including the possibility of finimprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). Prepared By: Jeffrey L. Grosser Manager	vstem designed to assure that qualified personnel presponsible for gathering the information. The ing false information, including the possibility of fi		
l certify under penalty of law that this document and all attachments w gather and evaluate the information submitted based on my inquiry of submitted is to the best of my knowledge and belief, true, accurate, an imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to Prepared By: Jeffrey L. Grosser Title:	vere prepared under my direction or supervision in accordance with a sy the person or persons who manage the system or those persons directly d complete. I am aware that there are significant penalties for submittin unsworn falsification).	Signature:	Date:
I certify under pe gather and evalu submitted is to the imprisonment for Prepared By:	analty of law that this document and all attachments wate the information submitted based on my inquiry of he best of my knowledge and belief, true, accurate, and knowing violations. See Pa. C.S. § 4904 (relating to	Jeffrey L. Grosser	Manager
	I certify under pe gather and evalu submitted is to th imprisonment fon	Prepared By:	Title:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL

	Facility Name:	Halifax Area Water	Halifax Area Water and Sewer Authority							OCTOBER	2015
	Municipality:	Halifax Borough	County:	County: Dauphin						NPDES Permit No. PA 0024467	1 0024457
	Watershed:	ပု	Para de la company							This permit will expire on May 31, 2016	e on May 31, 2016
											Restrict and server comment are selected as a selected as
	Check here if the	here were no off-site re	Check here if there were no off-site removal events during the month	month							
	3	Iquid Sewage Studge	Liquid Sewage Studge / Blosolids Hauled Off-site	site	Dewatered	Dewatered Sewage Sludge / Blosolids Hauled Off-site	osolids Hauled Off	-site	Sewage	Sewage Sludge / Blosolids Dewatered	vatered
Date	Gallons	spilos %	X Conv. Factor	= Dry Tons	Tons dewatered sludge	X % Solids	X 0.01	= Dry Tons	Tons dewatered	Spilos % X	= //0/ /0/0
			X 0.0000417				X 0.01		1		
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				The second secon
			X 0.0000417				X 0.01			-	And Complete State and Complete
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
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AND DESCRIPTION OF THE PERSON			X 0.0000417				X 0.01				
A PROPERTY OF PERSONS			X 0.0000417				X 0.01				
- Control of the Cont			X 0.0000417				X 0.01				
- Constitution of Constitutions			X 0.0000417				X 0.01				
Constitution (Constitution of Constitution of			x 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01			AND AND PROPERTY OF LABOR AND ADDRESS OF THE PROPERTY OF THE P	
			X 0.0000417				X 0.01			***************************************	
	0	i0/AlG#	X 0.0000417				X 0.01		***************************************		
			TOTAL	0.000			TOTAL	0.00		TOTAL	00.0

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all eltes where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	SIE3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	
County:	Lancaster	Dauphin	THE STATE OF THE PROPERTY OF T
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	White the latest and the state of the state
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	THE STREET OF TH
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	
		The state of the s	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED OF TAXABLE PARTY AND ADDRESS

^{*} See Instructions for explanation

based on my inquiry of the 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). 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 gather and evaluate the information submitted

Signature:	Date:	
Jeffrey L. Grosser	Manager	
Prepared By:	Title:	

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Hallfax Area Water and Sewer Authority

Hailfax Borough 6-C Municipality: Watershed:

Outfall No. 001 NPDES Permit No. PA 0024467 This permit will expire on May 31, 2016

2015

NOVEMBER

Month

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												And the second s								AND THE RESIDENCE AND THE PROPERTY OF THE PROP	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	And the second s	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	AND THE REAL PROPERTY OF THE P									
Process Control	Sludge	suolleo	000	200	1,600	1,600	1,600	1,200	800	800	2,400	2.400	1,600	1,600	1.600	800	800	1.600	1,600	1.600	009	2,400	800	800	2,000	2,000	2,000	1,800	2,400	800	800		1,440
Proces	on DO	No 2	23	2.5	2.2	2.2	2.3	2.2	2.1	2.4	2.3	2.2	2.2	2.3	2.3	2.1	2.3	2.2	2.1	2.3	2.1	2.1	2.0	2.1	2.1	2.3	2.1	2.1	2.9	2.3	2.5	2.4	2.2
***************************************	Aeration DO mg/l	No 1	23	2.0	2.3	2.3	2.4	2.3	2.4	2.3	2.4	2.4	2.4	2.3	2.4	2.4	2.4	2.2	2.3	2.4	2.2	2.4	2.3	2.3	2.4	2.3	2.2	2.0	2.4	2.5	2.2	2.4	2.3
	n MLSS fuge)	No. 2	10	11	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1,2	1.2	1.1	1.1	1.2	1.7	1,4	4.1	1.3	1.3	1.2
	Aeration MLSS (centrifuge)	No. 1	14	13	1.2	1.3	1.4	1.4	1.3	1.3	1.4	1.5	1.5	1.4	1.4	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.8	1.8	1.6
	TSS	/b/day					191							151							245					82							167
	TSS	l/bu					252							188							260					134							209
Influent	BODs	lb/day					83							151							136					31	***************************************						100
	BODs	l/gm					110							189							144					51							124
	FLOW	pgm	0.0910	0.1080	0.0910	0.0880	0.0910	0.1110	0.1070	0.1000	0.0910	0.0880	0.0980	0.0960	0.0940	0.0750	0.0880	0.0880	0.0850	0.0860	0.1130	0.1300	0.0820	0.1040	0.1010	0.0730	0.0790	0.0770	0.0840	0.1010	0.0750	0.0760	0.0924
	DAY		-	2	ဗ	4	2	0	\ <u>\</u>	0	P	2		12	2	4	2	9	2	18	9	200	7	77	3.5	#7	67	818	/7	28	58	8	 AVE.

ritify 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 gather and evaluate the information	nomined 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C. S. 4004 (relating to unsuran falseficación)
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Check if there were no 🔲 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

mitted based on my inplete. I am aware th	mitted based on my inquiry of the person or persons who manage the system or those persons directly responsible to a manage that there are significant penalties for submitting false information, including the possib	omitted 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 beliang the manage the system or those persons directly responsible for gathering the information. The information submitted is to the best of my knowledge and beliang the manage that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsifican
Prepared By:	Prepared By: Jeffrey L. Grosser	Signature:
Title:	Мападет	Date:

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Outfall No. 001 2015 Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016 NOVEMBER NPDES Permit No. PA 0024457 County: Dauphin Hallfax Area Water and Sewer Authority Halifax Borough 6-C Facility Name: Municipality: Laboratories: Watershed:

	Outside Temperature	(F Deg.)	54	46	42	24	48	90	282	48	34	50	54	52	54	42	44	36	36	46	56	44	40	44	42	32	28	20	37	48	C.V	200	200	44
	Weather/Comments	(inches Precipitation)										0.05	0.30	0.10	0.20				A CONTRACTOR OF THE PROPERTY O	The second secon	0.25	0.35						MARKET ALTERNATION OF THE PROPERTY OF THE PROP		THE RESERVE OF THE PROPERTY OF	0.40		THE PARTY OF THE P	1.35 (Total)
	FECAL	Q CFU/100 ml	L				420							380		TO SECURITY OF THE PERSON OF T					410					56		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWN						246
The second secon	TSS	l/bm					6.5							9.5							7.5					5.0								7.1
TERS	CBOD 5	l/gm					3.0							3.0							3.0					3.0								3.0
EFFLUENT PARAMETERS	TRC	l/gm	0.52	0.49	0.45	0.47	0.52	0.48	0.40	0.46	0.47	0.46	0.47	0.48	0.49	0.47	0.44	0.45	0.49	0.48	0.53	0.45	0.46	0.50	0.47	0.46	0.45	0.58	0.56	0.51	0.45	0.44		0.48
	0.0.	l/gm	6.5	6.3	6.5	6.6	6.5	6.3	6,4	6.6	6.7	6.5	9.9	6.5	9'9	6.7	6.6	6.4	6.2	6.4	6.3	6.4	6.5	6.6	6.7	6.4	6.9	6.2	6.2	6.3	6.4	6.6		6.5
	품	SU	7.3	7.2	7.3	7.4	7.2	7.1	7.3	7.2	7.4	7.3	7.4	7.3	7.2	7.4	7.5	7.3	7.4	7.3	7.4	7.6	7.4	7.2	7.3	7.5	7.5	7.6	7.2	7.1	7.2	7.4		7.3
	FLOW	mgd	0.0910	0.1080	0.0910	0.0880	0.0910	0.1110	0.1070	0.1000	0.0910	0.0880	0.0980	0.0960	0.0940	0.0750	0.0890	0.0890	0.0850	0.0860	0.1130	0.1300	0.0820	0.1040	0.1010	0.0730	0.0790	0.0770	0.0840	0.1010	09200	0.0760		0.0924
	DAY			2	ဇ	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	AVE.

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l 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 personn gather and evaluate 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 submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility or imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification). Prepared By: Jeffrey L. Grosser Manager Date:	a system designed to assure that qualified personn etly responsible for gathering the information. The litting false information, including the possibility o		
l certify under penalty of law that this document and all attachm gather and evaluate the information submitted based on my inqu submitted is to the best of my knowledge and belief, true, accura imprisonment for knowing violations. See Pa. C.S. § 4904 (relat Prepared By: Jeffrey L. Grosser Title:	ents were prepared under my direction or supervision in accordance with ity of the person or persons who manage the system or those persons direct, and complete. I am aware that there are significant penalties for subming to unsworn falsification).	Signature:	Date:
I certify under pe gather and evalus submitted is to the imprisonment for Prepared By:	malty of law that this document and all attachm ate the information submitted based on my inqu ie best of my knowledge and belief, true, accura r knowing violations. See Pa. C.S. § 4904 (relat	Jeffrey L. Grosser	Manager
	I certify under pe gather and evalux submitted is to th imprisonment for	Prepared By:	Title:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

Halifax Area Water and Sewer Authority

Facility Name:

	Facility Name:	Halifax Area Water	Halifax Area Water and Sewer Authority							NOVEMBER	2015
	Municipality:	Halifax Borough	County:	County: Dauphin	ı +				•	NPDES Permit No. PA 0024457	0024457
	Watershed:	ပ္-မွ							•	This permit will expire on May 31, 2016	on May 31, 2016
									,	Color The and the contract of	
	Check here if	there were no off-site r	Check here if there were no off-site removal events during the month	month							
		Liquid Sewage Sludge	Liquid Sewage Studge / Biosolids Hauled Off-site	site	Dewaterec	1 Sewage Sludge / E	Dewatered Sewage Sludge / Blosolids Hauled Off-site	-site	Sewage S	Sewage Sludge / Biosolids Dewatered	atered
Date	Gellons	spilos %	X Conv. Factor	= Dry Tons	Tons dewatered sludge	spilos % X	X 0.01	= Dry Tons	Tons dewetered	And incinerated On-site	= Dry Tons
			X 0.0000417				X 0.01		1		
			X 0.0000417				10.0 X			Married Control of the Control of th	
			X 0.0000417				X 0.01				
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Termore Gibralian			X 0.0000417				X 0.01			SANTI TAN TITURA TITUTANI TITURA SANTA	
			X 0.0000417				X 0.01			PROFESSIONAL TRANSPORTATION AND SECURITION AND SECURITIONS AND	Parameter de la company de
			X 0.0000417				X 0.01				A THE PROPERTY OF THE PROPERTY
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			X 0.0000417				X 0.01				
	_		× 000047				XXX		The state of the s		TANAMAN STATES OF THE PROPERTY AND ADDRESS OF THE PARTY O

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

	SITE 1	SITE 2	STE3
Site Name:	Kline's Septic	Harrisburg Sewer Plant	The destruction of the second contract of the
Municipality	Salunga	Harrisburg	The state of the s
County:	Lancaster	Dauphin	
DEP Permit Number:	101607	27198	
Type of Material*	Liquid Biosolids	Liquid Biosolids	
Dry Tons Disposal:	0	0	
Gallons Disposed:	0	0	
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	The state of the s

^{*} See instructions for explanation

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 gather and evaluate the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).

	Signature:	Date:
•		
	Jeffrey L. Grosser	Manager
	Prepared By:	Title:

SUPPLEMENTAL REPORT - INFLUENT & PROCESS CONTROL

Facility Name: Halifax Area Water and Sewer Authority

Hallfax Borough 6-C Municipality: Watershed:

2016 Outfall No. 001 This permit will expire on May 31, 2016 NPDES Permit No. PA 0024457

DECEMBER

Month

And designation to the first of										Manager and the Company of the Compa							AND THE PROPERTY OF THE PROPER		and the second control of the second	THE RESERVE OF THE PROPERTY OF					THE PROPERTY PROPERTY IN THE PROPERTY OF THE P	And the control of th				And the state of t	THE RESERVE OF THE PROPERTY OF			
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE				AND THE RESIDENCE OF THE PERSON OF THE PERSO			AND THE REAL PROPERTY AND THE PROPERTY A													AND THE RESERVE OF THE PROPERTY OF THE PROPERT														
Process Control	Sludge Wasted	gallons	2,400	2,000	2,400	2,400	800	800	2,600	2,000	2,000	2,000	2,000	800	800	2,000	2,000	2,000	1,600	1,200	1,200	800	2,000	2,000	2,000	2,000	1,200	800	800	2,200	909	2,400	2,400	1,684
Proces	00 uc	No. 2	2.4	2.4	2.2	2.1	2.0	2.2	2.0	2.1	2.3	2.2	2.4	2.4	2.4	2.4	2.1	2.4	2.2	2.3	2.2	2.4	2.5	2.6	2.3	2.5	2.4	2.5	2.6	2.1	2.3	2.2	2.6	2.3
	Aeration DO mg/l	No. 1	2.5	2.3	2.2	2.2	2.3	2.4	2.2	2.3	2.5	2.4	2.4	2.3	2.4	2.5	2.0	2.4	2.4	2.5	2.4	2.5	2.4	2.5	2.3	2.3	2.4	2.2	2.3	2.3	2.5	2.4	2.9	2.4
	MLSS fuge)	No. 2	1.4	4.1	1.4	1.5	1.5	1.5	1.4	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.1	1.2	1.2	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.4	1.3	1.4	1.2	1.3
	Aeration MLSS (centrifuge)	No. 1	1.9	1.9	2.0	2.0	2.0	2.0	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.8	1.9	1.9	1.8	1.9	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	1.6	1.9	1.8	1.9
	TSS	lb/day			152							138							165					159							154			154
	TSS	∥⁄bu			154							188							208					210							158			184
Influent	BODs	lb/day			175							139							105					158							161			147
	BODs	l/6m			178							189							132					208							165			174
	FLOW	mgd	0.0920	0.1080	0.1180	0.1060	0.0780	0.0870	0.0910	0.0870	0.0820	0.0880	0.0910	0.0950	0.0860	0.1140	0.1070	0.1000	0.0950	0.1150	0.0850	0.0800	0.0850	0.0910	0:0930	0.1150	0.1030	0.0940	0.1140	0.1080	0.1170	0.1430	0.1210	9660:0
	DAY		-	7	က	4	ŧΩ	9	7	8	6	5	=	12	13	4	13	18	17	18	18	2	2,	22	23	24	52	92	27	82	82	င္က	31	AVE.

e and belief, true, accurate, and r and evaluate the information falsification). l certify under penalty of law that this document and all attachments subm

Check if there were no 🔲 biosolids removed from the plant, 🗀 hauled-in municipal wastes received, 🗀 hauled-in residual wastes received, or 🗀 non-compliance incidents during the month (otherwise attach the appropriate forms).

Date:	Manager	Title:
Signature:	Prepared By: Jeffrey L. Grosser	Prepared By:
nitted 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 plete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn	inquiry of the person or persons who manage the sy hat there are significant penalties for submitting false	mitted based on my iplete. I am aware th
inity and primery of the first that the december of the personal property gainer in the contract of the personal property gainer and the personal p	or the tild the comment and an attachments were	and amen bounds

SUPPLEMENTAL REPORT - DAILY EFFLUENT MONITORING

Outfall No. 001 2015 Renewal application due 180 days prior to expiration This permit will expire on May 31, 2016 DECEMBER NPDES Permit No. PA 0024457 Month County: Dauphin Halifax Area Water and Sewer Authority Halifax Borough 6-C Facility Name: Laboratories: Municipality: Watershed:

	Outside Temperature	(F Deg.)	40	42	40	41	28	26	32	34	36	42	46	50	44	56	54	57	50	38	34	33	39	46	49	62	52	48	54	37	38	42	45	43
	Weather/Comments (Inches Precipitation)		0.25	0.45	0.50	0.10				of the company of the contract		0.10		ATTENDED TO THE PROPERTY OF TH		er den er	0.30		AND THE RESEARCH WINDOWS TO THE RESEARCH TO THE RESEARCH THE PROPERTY OF THE P	0.30	ALTER AND THE PROPERTY OF THE		AND THE PROPERTY OF THE PROPER	0.25	0.05	0.25			0.30	0:30	0.65	0.15	0.10	4.05 (Total)
	FECAL	Q CFU/100 ml			so.							30							12					12							240			22
	138	l/gm			5.0							5.0							5,0					7.5							5.0			5.5
TERS	CBOD 5	l/gm			3.0							8.0							3.0					3.0							3.0			4.0
EFFLUENT PARAMETERS	TRC	mg/l	0.47	0.52	0.50	0.56	0.49	0,46	0.56	0.52	0.50	0.51	0.49	0.48	0,49	0.53	0.50	0.44	0.53	0.50	0.48	0.49	0.47	0.54	0.52	0.48	0.46	0.51	0.49	0.57	0.47	0.42	0.50	0.50
	D.O.	l/bm	6.8	6.7	6.5	6.3	6.2	6.4	6.1	6.3	6.5	6.3	6.2	6.3	6,2	6.3	6.1	6.3	6.1	6.3	6,4	6.5	6.3	6.6	6.1	5.6	5.7	5.5	5.6	7.0	7.1	6.9	6.2	6.3
	Hď	SU	7.2	7.3	7.0	7.0	7.0	7.1	7.1	7.3	7.4	7.2	7.1	7.0	7,1	7.4	7.2	7.1	7.1	7.2	7,1	7,0	7.1	7.4	7.1	7.2	7.1	7.0	7.4	7.1	7.2	7,1	6'9	7.1
	FLOW	pbu	0.0920	0.1080	0.1180	0.1060	0.0780	0.0870	0.0910	0.0870	0.0820	0.0880	0.0910	0.0950	0.0860	0.1140	0.1070	0.1000	0.0950	0.1150	0.0850	0.0800	0.0850	0.0910	0.0930	0.1150	0.1030	0.0940	0.1140	0.1080	0.1170	0.1430	0.1210	0.0996
	DAY			2	င	4	5	9	7	ထ	6	10	11	12	13	44	3	16	17	18	19	20	21	22	23	24	25	26	27	28	29	99	31	AVE.

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I certify under r gather and evalt submitted is to t imprisonment fi	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 gather and evaluate 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 insubmitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fining rise knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	accordance with a system designed to assure that qualified personnel lose persons directly responsible for gathering the information. The inmalties for submitting false information, including the possibility of fi
Prepared By:	Jeffrey L. Grosser	Signature:
Title:	Manager	Date:

SEWAGE SLUDGE / BIOSOLIDS PRODUCTION AND DISPOSAL SUPPLEMENTAL REPORT

	Facility Name:	Hallfax Area Water	Halifax Area Water and Sewer Authority							DECEMBER	2015
	Municipality:	Halifax Borough	County	County: Dauphin	1 1					NPDES Permit No. PA 0024457	.0024457
	Watershed:	Q-9								This permit will expire on May 31, 2016	9 on May 31, 2016
	Check here if	Chack here if there were no off-site removal events during the month	moval events during the	month							
		Liquid Sewage Studge / Biosolids Hauled Off-site	/ Biosolids Hauled Off	site	Dewatered	1 Sewage Sludge / E	Dewatered Sewage Sludge / Blosolids Hauled Off-site	site	Sewage	Sewage Sludge / Blosolids Dewatered	atered
Date	Gellons	spilos %	X Conv. Factor	= Dry Tons	Tons dewatered sludge	Solids X	X 0.01	= Dry Tons	Tons dewatered	A Solids	= Dry Tone
		**************************************	X 0.0000417				X 0.01		1		\perp
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			X 0.0000417				X 0.01				
			X 0.0000417				X 0.01				
12/4/15		2.2	X 0.0000417	0.505			X 0.01				A STATE OF THE PARTY OF THE PAR
12/4/15		2.4	X 0.0000417	0.550			X 0.01				
12/4/15	5,500	1.7	X 0.0000417	0.390			X 0.01				-
			X 0.0000417				X 0.01			Manual Control of the	
			X 0.0000417				X 0.01			Military (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	AND THE PERSON OF THE PERSON O
			X 0.0000417				X 0.01			- Company of the Comp	
			X 0.0000417				V 0 04	W. Strate		The state of the s	

SEWAGE SLUDGE/BIOSOLIDS AND INCINERATOR ASH DISPOSAL AND BENEFICIAL USE INFORMATION (Identify all sites where sewage sludge/biosolids or ash were disposed or land applied)

X 0.0000417

18,500

	SITE 1	SITE 2	SITE
Site Name:	Kline's Septic	Harrisburg Sewer Plant	
Municipality	Salunga	Harrisburg	Allentin delinitativa del necesario del como de la como
County:	Lancaster	Dauphin	PARTITION AND AND ADDRESS OF THE PARTITION OF THE PARTITI
DEP Permit Number:	101607	27198	ALTERNATION OF THE PROPERTY OF
Type of Material*	Liquid Biosolids	Liquid Biosolids	A CONTRACTOR OF THE PROPERTY O
Dry Tons Disposal:	О	1.444905	
Gallons Disposed:	0	16,500	The second secon
Type of Disposal/Use:*	Sewer Plant	Sewer Plant	
Hauler Name:	Kline's Septic	Kline's Septic	postatoro en structoro de destación de comismo de comis
			Assessment of the second of

^{*} See Instructions for explanation

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 gather and evaluate 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 am aware

ig violations. See Pa. C.S. § 4904 (relating to unsworn faisification).	Signature:	Date:
that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See Pa. C.S. § 4904 (relating to unsworn falsification).	Jeffrey L. Grosser	Manager
that there are sig	Prepared By:	Title:

HAWAS	Δ		Influent		Eff	Sludge		
Month	-	Flow	BOD	#	CBOD	Gallons	%	DT
	1	0.0774	223	136	4.5	18000	2	1.476
	2	0.0691	185	101	5.6	6000	1.8	0.45
	3	0.0976	171	142	4.9	0		
	4	0.1123	211	199	4.5	24000	2.3	2.277
	5	0.121	329	347	4.8	0		
	6	0.129	495	513	14	0		
	7	0.1264	293	317	5.2	18000	1.9	1.426
	8	0.1181	177	171	4.5	48000	2.1	4.128
	9	0.11	386	357	7.8	0		
	10	0.0985	324	273	4.4	0		
	11	0.0924	124	100	3	0		
	12	0.0996	174	147	4	16500	2.1	1.445
avg			258	233.6	5.6	10875	2.03	
						130500		11.202