

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0060518  
APS ID 572695  
Authorization ID 1322733

**Applicant and Facility Information**

Applicant Name	<u>Hallstead &amp; Great Bend Borough Susquehanna County JSA</u>	Facility Name	<u>Hallstead Great Bend Joint Sewer Authority</u>
Applicant Address	<u>PO Box 747 Great Bend, PA 18821-0747</u>	Facility Address	<u>Sewer Authority Great Bend, PA 18821-0747</u>
Applicant Contact	<u>Bret Jennings</u>	Facility Contact	<u>Corey Rudock</u>
Applicant Phone	<u>(570) 879-2994</u>	Facility Phone	<u>(570) 879-2994</u>
Client ID	<u>63184</u>	Site ID	<u>252188</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Great Bend Borough</u>
Connection Status	<u>No Limitations</u>	County	<u>Susquehanna</u>
Date Application Received	<u>August 7, 2020</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>August 7, 2020</u>	If No, Reason	<u>Significant CB Discharge</u>
Purpose of Application	<u>The application is for a renewal of an NPDES permit for an existing discharge of treated Sewage.</u>		

**Summary of Review**


The Authority is requesting the renewal of NPDES Permit No. PA0060518 to discharge up to 0.5 MGD of treated sewage from the POTW into the Susquehanna River, a warm water fishes (WWF) receiving stream located in State Water Plan watershed 4-E. Per the Department's current existing use list, the receiving water does not have an existing use classification that is more protective than the designated use. The discharge is not expected to affect public water supplies.

The Hallstead-Great Bend Joint Sewer Authority's Sanitary Sewer System serves customers in Great Bend Borough, Great Bend Township, & Hallstead Borough. The WWTP became operational in December 1987. The permit is being renewed with the same effluent limits as the previous permit since conditions have not changed at the treatment plant after it was upgraded and expanded to treat a design flow of 0.5 MGD. Water Quality modeling recommended the addition of Zinc monitoring which will be added to the Draft Permit.

On December 29, 2010, the U.S. Environmental Protection Agency established the Chesapeake Bay Total Maximum Daily Load (TMDL). The TMDL is a historic and comprehensive "pollution diet" to restore clean water in the Chesapeake Bay and the region's streams, creeks, and rivers. Section 2 of Pennsylvania's Phase 3 Chesapeake Bay Watershed Implementation Plan (Phase 3 WIP) describes Pennsylvania's strategy for reducing nutrients to the Chesapeake Bay from wastewater facilities. The supplement to the Phase 3 WIP provides an update on Chesapeake Bay TMDL implementation activities for point sources and DEP's current implementation strategy for wastewater. The document is updated periodically to reflect changes due to Department of Environmental Protection's (DEP's) permit actions as well as changes to strategies in managing the wastewater sector's allocated loads under the TMDL.

The current Phase 3 Watershed Implementation Plan Wastewater Supplement - Revised, December 17, 2019 associated to Hallstead is:

Table 2: Significant Facilities Not in the TMDL.

Approve	Deny	Signatures	Date
X		 Bernard Feist, P.E. / Environmental Engineer	August 12, 2020
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	8-17-20

Summary of Review

NPDES Permit No.	Facility	TN Cap Load (lbs/yr)	TP Cap Load (lbs/yr)	Sector
PA0060518	Hallstead-Great Bend Joint Sewer Authority	9,741	1,218	Sewage

Other associated notes from the Phase 3 WIP Wastewater Supplement Revised, December 17, 2019 related to Hallstead are:

- Hallstead-Great Bend Joint Sewer Authority (PA0060518) will be upgrading to a design flow of 0.5 MGD. This facility was originally a non-significant discharger (0.35 MGD). A permit has been issued with Cap Loads of 9,741 lbs/yr TN and 1,218 lbs/yr TP. This facility was previously considered non-significant, and so its load will be moved from the Non-Significant sector to the Significant Sewage sector.

This was approved during the last Permit Cycle and the Permit Part C explanation will remain unchanged.

The applicant utilizes Ultra-Violet disinfection but the TRC limit will remain in case used. This is also explained in Part C of the Permit.

The WMS Report query "Water Management System Inspections" was run. On 05/21/2020 an Administrative/File Review was done with No Violations noted.

The WMS "Open Violations by Client Report" was run and there are No Open Violations.

The Existing Permit expires on October 31, 2020 and the renewal was submitted August 7, 2020.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.5
Latitude	41° 58' 17.76"	Longitude	-75° 44' 56.19"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Susquehanna River (WWF)	Stream Code	6685
NHD Com ID	43488179	RMI	335
Drainage Area	2,100	Yield (cfs/mi <sup>2</sup> )	0.084
Q <sub>7-10</sub> Flow (cfs)	176.4	Q <sub>7-10</sub> Basis	USGS gage sta. 01531500
Elevation (ft)	858	Slope (ft/ft)	.009
Watershed No.	4-E	Chapter 93 Class.	WWF
Existing Use	na	Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	MERCURY, METALS		
Source(s) of Impairment	SOURCE UNKNOWN		
TMDL Status	Final	Name	Susquehanna River PCB
Nearest Downstream Public Water Supply Intake	Binghamton Water Authority		
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	17

DFLOW Results

All available data from Apr 1, 1993 through Mar 31, 2018 are included in analysis.  
Climatic year defined as Apr 1 - Mar 31.

Gage	Period	Days in +	Zero/Mis+	Percentile	Excur per+	7Q10
01531500 - Susquehanna River at Towanda, PA	1992/04/01 - 2018/04/01	9,496	0/0	0.17%	0.92	6.60E+02

Double-click on biological flow value for excursion analysis

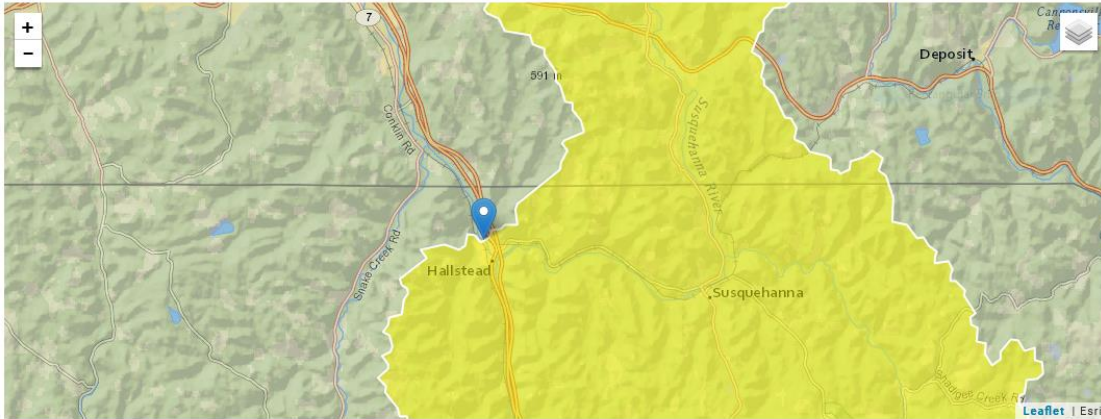
Q<sub>7-10</sub> LowFlowYield (cfs/mi<sup>2</sup>)= 660/7,797 = 0.085

STATION.--01531500 SUSQUEHANNA RIVER AT TOWANDA, PA  
 LOCATION.--Lat 41° 45'55", long 76° 26'28", Bradford County, Hydrologic Unit 02050106, on right bank at Bridge Street in Towanda, and 1.8 mi upstream from Towanda Creek.  
 DRAINAGE AREA.--7,797 square miles.  
 PERIOD OF RECORD.--October 1913 to current year. Gage-height records collected at same site from October 1892 to September 1913 are contained in reports of U.S. Weather Bureau.

Outfall 001 RMI 335 - Elev 858 ft

Clicked Point (Latitude, Longitude):  
Time:

41.97190, -75.74947  
2020-08-11 15:59:10 -0400



Low-Flow Statistics Parameters [100 Percent (2100 square miles) Low Flow Region S]

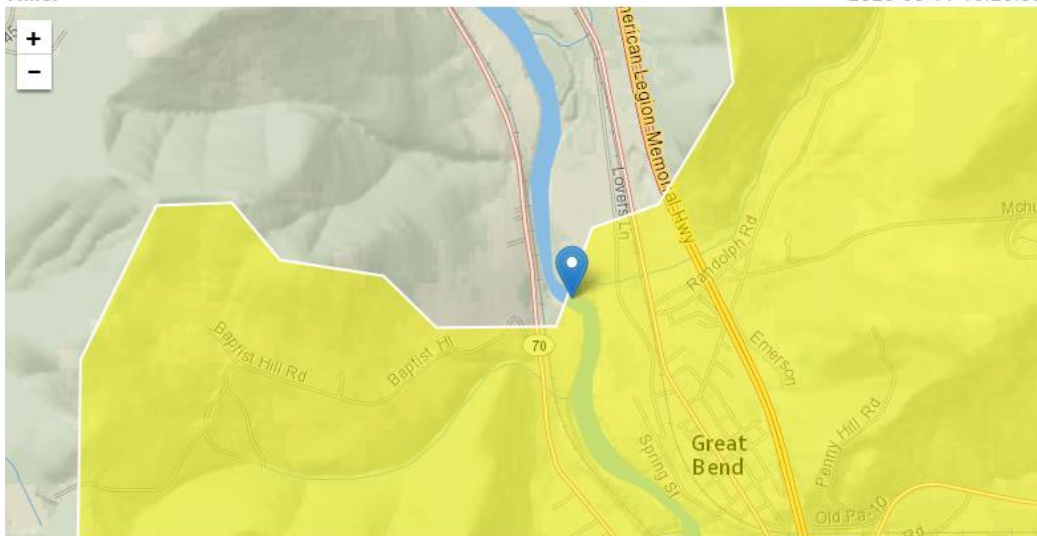
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2100	square miles	4.84	982

$Q_{7-10} \text{ Flow (cfs)} = 2100 \text{ mi}^2 * 0.085 \text{ cfs/mi}^2 = \mathbf{178.5 \text{ cfs at Outfall 001}}$

.....  
RMI 334 - Elev 856 @ Trowbridge Creek Trib

Clicked Point (Latitude, Longitude):  
Time:

41.98093, -75.75451  
2020-08-11 16:20:38



Low-Flow Statistics Parameters [100 Percent (2110 square miles) Low Flow Region S]

Parameter Code	Parameter Name	Value	Units
DRNAREA	Drainage Area	2120	square miles

Treatment Facility Summary				
Treatment Facility Name: Hallstead Great Bend Joint Sewer Authority				
WQM Permit No.		Issuance Date		
5807402		1/15/08		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Activated Sludge	UV	0.5
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.5	1,500	Not Overloaded	Activated Sludge	Other WWTP

**Development of Effluent Limitations**

Outfall No.	001	Design Flow (MGD)	.5
Latitude	41° 58' 19.70"	Longitude	-75° 44' 54.95"
Wastewater Description:	Sewage Effluent		

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

Comments: UV utilized - TRC 1.6 IMAX if used

**Water Quality-Based Limitations**

A "Reasonable Potential Analysis" determined the following parameters were candidates for limitations:

The following limitations were determined through water quality modeling (output files attached):

Analysis Results WQM 7.0

Hydrodynamics | **NH3-N Allocations** | D.O. Allocations | D.O. Simulation | Effluent Limitations

RMI	Discharge Name	Permit Number	Disc Flow (mgd)
335.00	Hallstead	PA0060518	0.5000

Parameter	Effluent Limit 30 Day Average (mg/L)	Effluent Limit Maximum (mg/L)	Effluent Limit Minimum (mg/L)
CBOD5	25		
NH3-N	25	50	
Dissolved Oxygen			3

Record: 14 | 1 of 1 | No Filter | Search

TRC EVALUATION			
Input appropriate values in A3:A9 and D3:D9		Hallstead	
178.5	= Q stream (cfs)	0.5	= CV Daily
0.5	= Q discharge (MGD)	0.5	= CV Hourly
30	= no. samples	1	= AFC_Partial Mix Factor
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)
0	= % Factor of Safety (FOS)		= Decay Coefficient (K)
Source	Reference	AFC Calculations	CFC Calculations
TRC	1.3.2.iii	WLA_afc = 73.634	1.3.2.iii WLA_cfc = 71.780
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373	5.1c LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 27.438	5.1d LTA_cfc = 41.730
Source	Effluent Limit Calculations		
PENTOXSD TRG	5.1f	AML MULT = 1.231	
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500	BAT/BPJ
		INST MAX LIMIT (mg/l) = 1.635	

TOXICS SCREENING ANALYSIS  
WATER QUALITY POLLUTANTS OF CONCERN  
VERSION 2.7

CLEAR FORM

Facility: **Hallstead** NPDES Permit No.: **PA0060518** Outfall: **001**  
 Analysis Hardness (mg/L): **100** Discharge Flow (MGD): **0.5** Analysis pH (SU): **7**  
 Stream Flow, Q<sub>7-16</sub> (cfs): **179**

Parameter	Maximum Concentration in Application or DMRs (µg/l)	Most Stringent Criterion	Candidate for PENTOXSD Modeling?	Most Stringent WQBEL (µg/l)	Screening Recommendation
Total Dissolved Solids	326000	500000	No		
Chloride	75500	250000	No		
Bromide	20	N/A	No		
Sulfate	42600	250000	No		
Total Aluminum		750			
Total Antimony		5.6			
Total Arsenic		10			
Total Barium		2400			
Total Beryllium		N/A			
Total Boron		1600			
Total Cadmium		0.271			
Total Chromium		N/A			
Hexavalent Chromium		10.4			
Total Cobalt		19			
Total Copper	< 8	9.3	No		
Free Available Cyanide		5.2			
Total Cyanide		N/A			
Dissolved Iron		300			
Total Iron		1600			
Total Lead	< 16	3.2	Yes	344	No Limits/Monitoring
Total Manganese		1000			
Total Mercury		0.05			
Total Nickel		52.2			
Total Phenols (Phenolics)		5			
Total Selenium		5.0			
Total Silver		3.8			
Total Thallium		0.24			
Total Zinc	136	119.8	Yes	1265	Monitor
Total Molybdenum		N/A			

Comments: Zinc Monitoring will be added monthly this permit cycle

Analysis Results ✕

**Effluent Limits**

Hydrodynamics    Wasteload Allocations    **Effluent Limits**

RMI	Name	Permit Number	Disc Flow (mgd)			
335	Hallstead	PA0060518	0.5000			
Parameter		Effluent Limit (µg/L)	Governing Criterion	Max. Daily Limit (µg/L)	Most Stringent	
					WQBEL (µg/L)	WQBEL Criterion
▶	LEAD	16	INPUT	24.963	344.156	CFC
	ZINC	136	INPUT	212.182	1264.762	AFC



Hallstead%20Toxics  
%20Screening%20Ar



TRC\_CALC\_Hallstea  
d.xls



Hallstead  
Application.pdf

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	XXX	XXX	1.6	1/day	Grab
CBOD5	104.3	166.7	XXX	25.0	40.0	50	1/week	8-Hr Composite
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
TSS	125.1	187.7	XXX	30.0	45.0	60	1/week	8-Hr Composite
TSS Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Nitrate-Nitrite (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Nitrogen (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation



Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Ammonia (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
TKN	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
TKN (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/week	8-Hr Composite
Total Phosphorus (lbs)	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Total Phosphorus (lbs) Effluent Net	Report Total Mo	XXX	XXX	XXX	XXX	XXX	1/month	Calculation
Zinc	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Monthly	Annual	Monthly	Monthly Average	Maximum	Instant. Maximum		
Total Nitrogen (lbs) Effluent Net	XXX	9741 Total Annual Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Nitrogen (lbs)	XXX	Total Annual Report	XXX	XXX	XXX	XXX	1/year	Calculation
Ammonia (lbs)	XXX	Total Annual Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Phosphorus (lbs) Effluent Net	XXX	1218 Total Annual Report	XXX	XXX	XXX	XXX	1/year	Calculation
Total Phosphorus (lbs)	XXX	Total Annual Report	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance History

DMR Data for Outfall 001 (from July 1, 2019 to June 30, 2020)

Parameter	JUN-20	MAY-20	APR-20	MAR-20	FEB-20	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19
Flow (MGD) Average Monthly	0.263	0.338	0.312	0.320	0.353	0.316	0.337	0.324	0.270	0.236	0.252	0.266
Flow (MGD) Daily Maximum	0.327	0.612	0.350	0.359	0.463	0.401	0.451	0.594	0.327	0.266	0.284	0.443
pH (S.U.) Minimum	6.3	6.6	6.3	6.2	6.7	6.8	6.6	6.4	6.6	6.5	6.5	6.5
pH (S.U.) Instantaneous Maximum	6.9	7.0	7.0	7.3	7.3	7.1	7.0	7.0	7.0	7.0	6.9	7.0
TRC (mg/L) Instantaneous Maximum	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG	GG
CBOD5 (lbs/day) Average Monthly	6.5	7.7	7.8	7.9	8.5	9.3	8.7	7.5	6.8	5.7	6.2	6.6
CBOD5 (lbs/day) Weekly Average	7.4	8.7	8.4	8.3	10.5	12.2	11.3	8.2	7.9	5.9	6.7	7.1
CBOD5 (mg/L) Average Monthly	< 3.0	< 3.0	< 3.0	< 3.0	< 3.1	< 3.6	< 3.0	< 3.0	< 3.0	< 3.0	3.0	< 3.0
CBOD5 (mg/L) Weekly Average	< 3.0	< 3.0	< 3.0	< 3.0	3.2	4.5	< 3.0	< 3.0	< 3.0	< 3.0	3.01	< 3.0
BOD5 (lbs/day) Raw Sewage Influent   Average Monthly	338	372	271.0	337	328	327	318	295	303	305	296	378
BOD5 (lbs/day) Raw Sewage Influent   Daily Maximum	370	406	324.0	361	394	394	362	330	350	352	422	509
BOD5 (mg/L) Raw Sewage Influent   Average Monthly	157	144	106.0	129	121	126	113	120	135	160	144	172
TSS (lbs/day) Average Monthly	11.3	15.8	12.9	18.7	14.0	18.1	15.0	12.5	11.3	9.5	10.8	24.6
TSS (lbs/day) Raw Sewage Influent   Average Monthly	455	456	313.0	535	472	468	592	632	436	301	282	421

TSS (lbs/day) Raw Sewage Influent   Daily Maximum	547	578	483.0	643	573	649	1189	1605	639	360	464	1022
TSS (lbs/day) Weekly Average	12.8	19.6	14.1	20.0	17.5	24.4	18.8	13.7	13.1	9.8	11.9	55.9
TSS (mg/L) Average Monthly	5.25	6.1	< 5.0	7.1	< 5.0	6.9	5.3	< 5.0	< 5.0	< 5.0	5.2	< 10.9
TSS (mg/L) Raw Sewage Influent   Average Monthly	210	177	124.0	206	174	183	193	264	189	158	135	185
TSS (mg/L) Weekly Average	6.0	8.0	< 5.0	7.5	5.0	9.0	6.0	< 5.0	< 5.0	< 5.0	6.0	23.5
Fecal Coliform (CFU/100 ml) Geometric Mean	< 1.0	< 31.8	< 5.2	1.3	< 1.0	< 1	< 1.0	< 1.2	< 1.0	1.2	< 2.4	3.1
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	1.0	172.3	1986.3	3.1	< 1.0	< 1	1	2.0	< 1.0	2	6.3	7.5
Nitrate-Nitrite (mg/L) Average Monthly	4.45	5.46	7.6	6.21	4.8	5.2	6.5	6.36	4.47	4.55	7.28	3.04
Nitrate-Nitrite (lbs) Total Monthly	289	450	597	5.3	404	420	568	485	314	267	469	209
Total Nitrogen (mg/L) Average Monthly	5.841	6.465	8.749	7.573	6.03	6.427	7.555	7.278	5.372	< 5.607	8.68	4.244
Total Nitrogen (lbs) Effluent Net   Total Monthly	379	534	686	613	507	521	660	555	376	< 329	559	291
Total Nitrogen (lbs) Total Monthly	379	534	686	613	507	521	660	555	376	< 329	559	291
Total Nitrogen (lbs) Effluent Net   Total Annual										5876		
Total Nitrogen (lbs) Total Annual										5876		
Ammonia (mg/L) Average Monthly	< 0.103	< 0.1	< 0.109	< 0.1	< 0.115	< 0.121	< 0.1	< 0.104	< 0.341	< 0.168	0.19	< 0.391
Ammonia (lbs) Total Monthly	< 0.2	< 8.0	< 9.0	< 8.0	< 9.0	< 10	< 9.0	< 8	< 23	< 10	12	< 27
Ammonia (lbs) Total Annual										192		
TKN (mg/L) Average Monthly	1.39	1.007	1.15	1.363	1.23	1.225	1.052	0.919	0.898	< 1.059	1.4	1.203

TKN (lbs) Total Monthly	90	84.0	90	110	102	101	92	70	62	< 62	90	82
Total Phosphorus (mg/L) Average Monthly	1.384	< 0.205	< 0.237	0.633	0.709	0.758	0.757	0.876	0.387	0.623	1.266	0.793
Total Phosphorus (lbs) Effluent Net   Total Monthly	87	< 17.0	< 19.0	51	58	62	64	66	26	37	82	54
Total Phosphorus (lbs) Total Monthly	87	< 17.0	< 19.0	51	58	62	64	66	26	37	82	54
Total Phosphorus (lbs) Effluent Net   Total Annual										388		
Total Phosphorus (lbs) Total Annual										388		