

Southwest Regional Office CLEAN WATER PROGRAM

Application Type

Facility Type

Major / Minor

Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

 Application No.
 PA0205257

 APS ID
 827945

 Authorization ID
 1272297

Applicant and Facility Information							
Applicant Name	Greensboro Monongahela Township Joint Sewer Authority	Facility Name	Greensboro Monongahela Township Joint Sewer Authority STP				
Applicant Address	PO Box 342	Facility Address	Stony Hill Road				
	Greensboro, PA 15338		Greensboro, PA 15338				
Applicant Contact	Mr. William Monahan	Facility Contact	Mr. James Vance				
Applicant Phone	(724) 943-3000	Facility Phone	(412) 965-4061				
Client ID	87536	Site ID	443112				
Ch 94 Load Status	Existing Hydraulic and Organic Overload	Municipality	Monongahela Township				
Connection Status	Dept. Imposed Connection Prohibitions	County	Greene				
Date Application Rece	eived <u>May 6, 2019</u>	EPA Waived?	Yes				
Date Application Accepted May 7, 2019		If No, Reason					
Purpose of Application	Application for a renewal of an exis	sting NPDES permit for	the discharge of treated Sewage.				

Summary of Review

The applicant has applied for a renewal of an existing NPDES Permit, Permit No. PA0205257, which was previously issued by the Department on May 1, 2014. That permit expired on May 31, 2019.

Latitude and Longitude information for this facility was updated to accurately reflect the location of the STP/Outfall # 001.

WQM Permit No. 3091402 A-2, issued on May 19, 2009, approved construction of a STP with a design flow rate of 0.165 MDG. The existing treatment process consists of a three train activated sludge STP with aerobic digestion and UV disinfection.

The receiving stream, Monongahela River, is classified as a WWF, and is located in State Watershed No. 19-G.

The applicant has complied with Act 14 Notifications and no comments were received.

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.

Approve	Deny	Signatures	Date
Х		William C. Mitchell William C. Mitchell, E.I.T. / Project Manager	April 10, 2020
Х		Christopher Kriley Christopher Kriley, P.E. / Program Manager	April 10, 2020

Discharge, Receiving Waters and Water Supply Infor	mation	
Outfall No. 001	Design Flow (MGD)	0.165
Latitude 39° 47′ 58.00″	Longitude	-79° 54' 39.00"
Quad Name Masontown	Quad Code	2006
Wastewater Description: Sewage Effluent		
Receiving Waters Monongahela River (WWF)	Stream Code	37185
NHD Com ID <u>99417488</u>	RMI	83.4
Drainage Area4,447	Yield (cfs/mi²)	N/A
Q ₇₋₁₀ Flow (cfs) 480.0	Q ₇₋₁₀ Basis	US Army Corp of Engineers
Elevation (ft) 780	Slope (ft/ft)	N/A
Watershed No. 19-G	Chapter 93 Class.	_WWF
Existing Use	Existing Use Qualifier	
Exceptions to Use	Exceptions to Criteria	
Assessment Status Impaired		
Cause(s) of Impairment PCB; Chlordane		
Source(s) of Impairment Source Unknown		
TMDL Status Final	Name Monongahe	ela River TMDL
Background/Ambient Data	Data Source	
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		
Nearest Downstream Public Water Supply Intake		al Authority.
PWS Waters Monongahela River	Flow at Intake (cfs)	
PWS RMI	Distance from Outfall (mi)	

Changes Since Last Permit Issuance: NONE

Other Comments: The STP discharges indirectly to the Monongahela River which has an EPA Approved TMDL and is impaired by PCBs and Chlordane. No WLAs have been developed for this sewage discharge as neither PCB nor Chlordane is typically found in sewage, but instead found in legacy sediments. This sewage discharge is not expected to add to the impairment of the receiving stream.

	Tro	eatment Facility Summar	у	
Treatment Facility Na	me: Greensboro Mononga	hela Township Joint Sewer A	uthority STP	
WQM Permit No.	Issuance Date			
3091402 A-2	May 19, 2009			
	Degree of			Avg Annual
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)
		Activated Sludge with		
Sewage	Secondary	Solids Removal	UV Disinfection	0.070 - 2018
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal
, ,	,			Hauled to
				Franklin Twp.
		Existing Hydraulic and		WWTF,
0.165	280.0	Organic Overload	Aerobic Digestion	PA0046426

Changes Since Last Permit Issuance: NONE

Compliance History

Other Comments: An Operations Compliance Check Report for this facility was requested and will be included in the Fact Sheet Addendum.

Development of Effluent Limitations							
Outfall No. Latitude Wastewater D	001 39° 47' 58.00" escription: Sewage Effluent	Design Flow (MGD) Longitude	0.165 -79° 54' 39.00"				

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 ₅	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
CBOD5	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Total Suspended Solids	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)

Water Quality-Based Limitations

Comments: The discharge was previously modeled using WQAM63 to evaluate the $CBOD_{5}$, Ammonia Nitrogen and Dissolved Oxygen parameters. Because there have been no changes to the discharge or the receiving stream, the modeling results for those parameters are based on the previously approved pollution report which is attached to this fact sheet. It was unnecessary to remodel those three parameters using the current WQM 7.0 model because the same effluent results are computed for a single discharge scenario. The modeling results show technology based effluent limitations for $CBOD_{5}$ are appropriate. The modeling results also confirm that Ammonia-Nitrogen and Dissolved Oxygen limitations are not necessary to meet in-stream water quality criterion. The Total Suspended Solids, pH, Fecal Coliform, are not evaluated using WQAM63. The basis for those limitations is listed in the above table.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/L will be implemented based on the standard in 25 PA Code Chapter 93 and best professional judgment. This is applied for an activated sludge system.

Anti-Backsliding



Additional Considerations:

Ultraviolet (UV) disinfection is used therefore Total Residual Chlorine (TRC) limits are not applicable. Routine monitoring of UV intensity will be at the same monitoring frequency that is used for TRC.

For pH, Dissolved Oxygen (DO) and UV disinfection, a monitoring frequency 1/day has been imposed. In general, less frequent monitoring may be established only when the permittee demonstrates that there will be no discharge on days where monitoring is not required.

NPDES Permit Fact Sheet Greensboro Monongahela Township Joint Sewer Authority STP

Nutrient monitoring is required to establish the nutrient load from the waste water treatment facility and the impacts that load may have on the quality of the receiving stream(s). A 1/year monitor and report requirement for Total N & Total P has been added to the permit as per Chapter 92.a.61.

For existing discharges, if an average monthly warm period limit of 25 mg/L is acceptable, a year-round monitoring requirement for ammonia-nitrogen, at a minimum should be established. The monitoring requirements for Ammonia Nitrogen are consistent with CBOD₅, TSS, and Fecal Coliform and Table 6-3 of the Permits Writers Manual.

Mass loading limits are applicable for publicly owned treatment works. Current policy requires average monthly and average weekly mass loading limits be established for CBOD5 and TSS. Average monthly mass loading limits (lbs/day) are based on the formula: design flow (MGD) x concentration limit (mg/L) x conversion factor (8.34).

Please note that changes were made to the Average Monthly & Average Weekly Mass Effluent Limitations for CBOD5 and TSS. These changes were necessary to be consisted with rounding guidelines found in Chapter 5.C.2, Rounding-Off Mathematically Values, of the Department's Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001.

For POTWs with design flows greater than 2,000 GPD influent BOD₅ and TSS monitoring must be established in the permit, and the monitoring should be consistent with the same frequency and sample type as is used for other effluent parameters.

Monitoring frequency for the proposed effluent limits are based upon Table 6-3, Self-Monitoring Requirements for Sewage Dischargers, from the Departments Technical Guidance for the Development and Specification of Effluent Limitations.

Total Dissolved Solids (TDS) and its Major Constituents

Monitoring is not required for Chloride, Sulfate, and TDS, because the effluent concentration of TDS, as reported in the NPDES Permit application, does not exceed 1,000 mg/l.

Monitoring is required for Bromide, because the effluent concentration of Bromide, as reported in the NPDES Permit Application, exceeds 1 mg/l and the discharge flow exceeds 0.1 MGD.

Total Dissolved Solids (TDS) and its major constituents including sulfate, chloride, and bromide have emerged as pollutants of concern in several major watersheds in the Commonwealth. The conservative nature of these solids allows them to accumulate in surface waters and they may remain a concern even if the immediate downstream public water supply is not directly impacted. Bromide has been linked to formation of disinfection byproducts at increased levels in public water systems. As a consequence of actions associated with Triennial Review 13, the Environmental Quality Board has directed DEP to collect additional data. Facilities with design flows greater than or equal to 0.1 mgd are required to report at least one sample analyzed for these parameters with the NPDES Permit renewal application.

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.

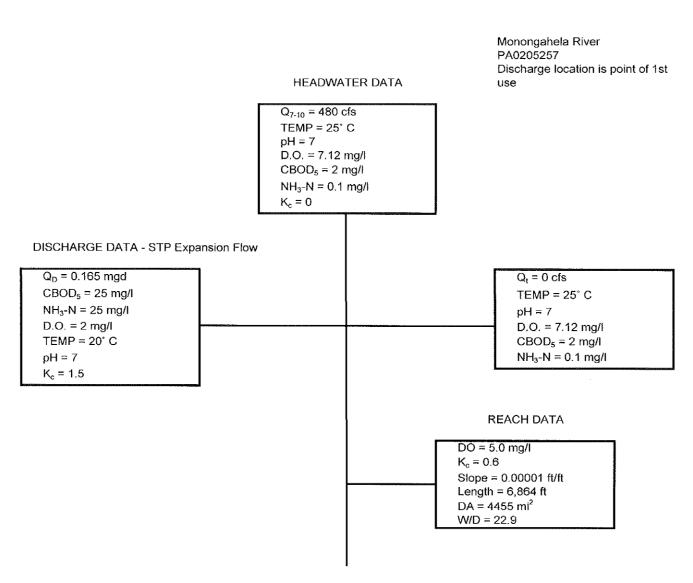
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

		Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units	(lbs/day) (1)		Concentrations (mg/L)				Required	
Parameter	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type	
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Metered	
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/day	Grab	
DO	XXX	XXX	4.0	XXX	XXX	XXX	1/day	Grab	
CBOD5	34.0	51.0	XXX	25.0	37.5	50	1/week	8-Hr Composite	
BOD5 Raw Sewage Influent	Report	Report Daily Max	XXX	Report	XXX	XXX	1/week	8-Hr Composite	
TSS	41.0	60.0	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	
UV Intensity (mW/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Measured	
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite	
Ammonia	Report	XXX	XXX	Report	XXX	XXX	1/week	8-Hr Composite	
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	8-Hr Composite	

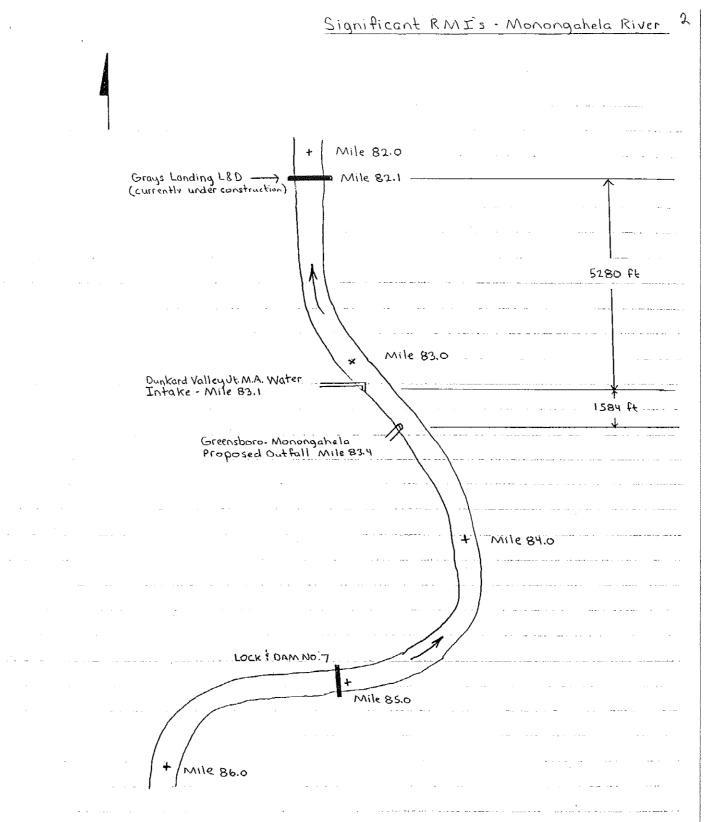
Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

	Effluent Limitations						Monitoring Requirements	
Parameter	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2)	Required
Parameter	Average Monthly	Weekly Average	Instantaneous Minimum	Average Monthly	Weekly Average	Instant. Maximum	Measurement Frequency	Sample Type
					Report			8-Hr
Bromide	Report	XXX	XXX	Report	Daily Max	XXX	1/week	Composite

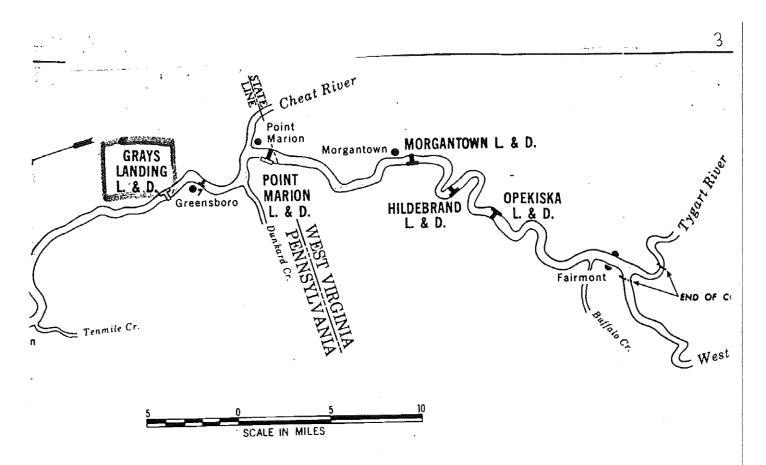
Compliance Sampling Location: Outfall # 001

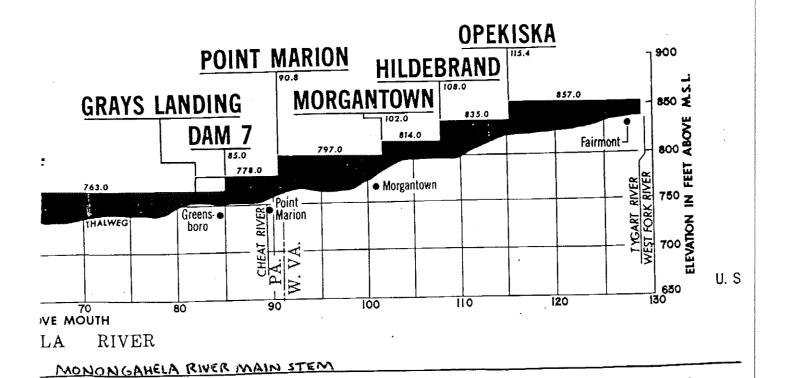


Grays landing Lock and Dam - End of Reach



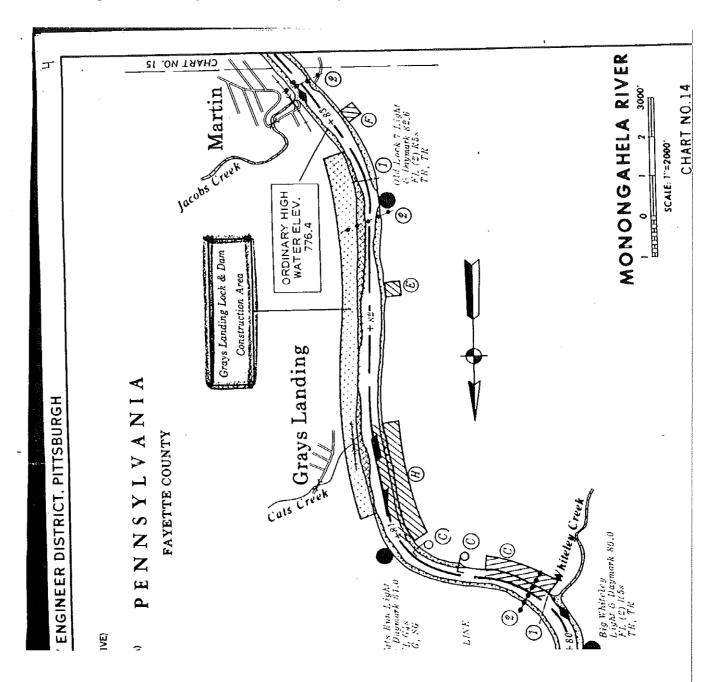
Note: Jacobs Creek enters the Mon. River at MP 83.16, The DA of Jacobs Creek was subtracted from the DA of the Mon R. at the Dunkard Valley Intake to determine the DA at the proposed outfall.





10

CENERAL PLAN AND PROFILE



Velocity Calculations

From the Monongahela River Main Stem Navigation System General Plan and Profile (enclosed), the depth of the river from the proposed outfall to the Grays landing Lock and Dam, once constructed is approximately 24 feet. According to the Masontown, PA topographic map, the average width of the river is approximately 550 feet.

Data from the Army Corp of Engineers indicates the Q₇₋₁₀ flow at L&D No. 7 is 480 cfs.

The equation Q=AV will determine the velocity at Q₇₋₁₀ conditions:

For existing plant:

Total Q = Stream Flow + Waste Flow = 480 cfs + 0.170 cfs = 480.17 cfs

480.17 cfs = (24 ft x 550 ft)V

V = 0.036 fps

For proposed plant expansion:

Total Q = Stream Flow + Waste Flow = 480 cfs + 0.256 cfs = 480.26 cfs

480.26 cfs = (24 ft x 550 ft) x V

V = 0.036 fps

Compute Travel Time From Point of Discharge to End of Reach

Travel time = distance/velocity

Travel time = 6864 ft / 0.036 ft per sec = 190,667 seconds = 2.21 days

Width to Depth Ratio Calculation:

Width ~ 550 feet

Depth ~ 24 feet

Width / Depth = 550 / 24 = 22.9

Default Data a. Stream Values 01-10/Q7-10 ratio..... .64 Q30-10/Q7-10 ratio..... 1.36 Temperature..... 25 pH...... 7 C-BOD5..... 2 D.O. Saturation (%)..... .85 D.O. Goal..... 5 9 Width/Depth ratio..... 22.9 KC...(Headwaters only!)...... 10 b. Discharge Values (30-day avgs.) C-BOD5..... 25 NH3-N..... 25 13 14 Effluent D.O...... 3 Effluent Temp..... 20 15 KC....: 1.5 Balanced Technology(1=y 0=no)..... 0 17

FILE: c:\wqam63\untitled.wqm Greensboro-Monongahela STP Warm Period STP Expansion

REACH # 1 Headwaters and Tributary data

No. of Reaches: 1

07~10 pHRh \mathbf{T} DO CBOD5 NH3-N (cfs) (c) (su) (mg/1) (mg/1) (mg/1)480.0000 7 7.12 HW 25 2 . 1 1 0.0000

(WQAM63.EXE) Release 1.2 07-09-2008 12:54:11

Stream Characteristics

Rh	Q7-10 (cfs)	T (c)	pH (su)		CBOD5 (mg/l)	NH3-N (mg/l)
1	480	25	7	7.12	2	.1

Q 1-10/Q 7-10 = .64Q 30-10/Q 7-10 = 1.36

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> DISCHARGE # 1 Discharger Data Q7-10 Design Conditions

Rh	FLOW (MGD)	Т (с)	pH (su)	DO (mg/l)	CBOD5 (mg/l)		KC (1/days)
1	0.1650	20	7	3	25	25	1.5

(WQAM63.EXE) Release 1.2 07-09-2008 12:54:42

REACH # 1 Reach Characteristics Rh RCH. RCH. DRAIN W/D KNLEN. AREA D.O. SL. (MI^2) GOAL (/D) (FT/FT) (FT.) 0.00001 6864 4455 22.9 5 . 6

FILE: c:\wqam63\untitled.wqm
Greensboro-Monongahela STP Warm Period STP Expansion

REACH # 1
Reach Characteristics

Rh

KR TT (/D) (Days)

1 0 2.21

(WQAM63.EXE) Release 1.2 07-09-2008 12:55:43

NH3-N Discharge Allocations at Q30-10 (Uniform)

DIS Q BASE. MULT. CRIT. PCT. NH3-N CONC. CONC. RCH. RED. CRIT. (mgd) (mg/l) (mg/l) (%) (mg/l)

1 0.1650 25.00 25.00 0 0 1.34

FILE: c:\wqam63\untitled.wqm
Greensboro-Monongahela STP Warm Period STP Expansion

NH3-N Discharge Allocations at Q1-10 (Uniform)

DIS Q BASE. MULT. CRIT. PCT. NH3-N CONC. CONC. RCH. RED. CRIT. (mgd) (mg/l) (mg/l) (%) (mg/l) 1 0.1650 50.00 50.00 0 0 6.77

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DO.	Allocations	(Uniform)
17.0.	ATTOCALTOIR	(OHTLUDE III)

DIS	0	NH	3-N	CB	SOD5	-CRIT.	PCT.
#	~	IND.	CUM.	IND.	CUM.	RCH.	REM.
		Conc.	Conc.	Conc.			
	(MGD)	(mg/1)	(mg/1)	(mg/1)	(mg/1)		(왕)
		-					
1	0.1650	25	25	25	25	0	0

FILE: c:\wqam63\untitled.wqm Greensboro-Monongahela STP Warm Period STP Expansion

```
(Total)Discharge =
                      .165 MGD
                                                       553.12
          = 25
                                   7
                                         Width
    Temp
                      рН
                                =
    CBOD-5 =
                      NH3-N
                                         Depth
                                                        24.15
              2.01
                                = .11
                     D.O. Goal = 5
                                         Velocity =
                                                         0.036
    D.O.
              7.12
           =
                                         W/D RATIO =
                                                       22.9
    KC'
              .002
                      KN
                                = .6
                       (O'CONNOR)
    KR
              .021
                                 Trvl Time: 2.21
            Dis. 1
                      Rch. 1
               Tr.Tm.
                        CBOD-5
                                NH3-N
                                         D.O.
                        (mg/1)
                                (mg/1)
                                         (mg/1)
               (Days)
               _ - - - - -
                        _ _ _ - - - --
                                -----
                                        _ _ _ _ _ _
                                        7.03
               0.221
                        2.01
                                0.10
                               0.10
                                        6.95
               0.442
                        2.01
               0.663
                        2.01
                                0.10
                                        6.88
               0.884
                        2.01
                                0.10
                                        6.80
                               0.10
                                        6.73
               1.105
                        2.01
               1.326
                        2.00
                               0.10
                                        6.65
                                        6.58
               1.547
                        2.00
                                0.10
               1.768
                        2.00
                                0.10
                                        6.50
               1.989
                        2.00
                                0.10
                                        6.43
                                              Turbulent mixing at Grays
                        2.00
                                0.10
                                        6.35
               2.210
                                              Landing Lock & Dam (and of
                                              reach) will ensure D.O. recovers.
                                                                 MA
                                              12:56:38
                              07-09-2008
(WQAM63.EXE) Release 1.2
                                                                  7-9.08
```

DISCHARGE CHARACTERISTICS

END OF REACH 1

(TOTAL) FLOW-MGD	
TEMPERATURE 20	
рН 7	2
DISSOLVED OXYGEN (mg/l):-1432.2	`.
C-BOD5 $(mg/1) \dots 2$	
NH3-N $(mg/1)$	
KC (1/Day)9	

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D.O. Allocations (Uniform)

DIS	Q	NH	3-N	CE	OD5	CRIT.	PCT.
#		IND.	CUM.	IND.	CUM.	RCH.	REM.
		Conc.	Conc.	Conc.	Conc.		
	(MGD)	(mg/1)	(mg/1)	(mg/1)	(mg/1)		(왕)
1	0.1650	25	25	25	25	0	0

(WQAM63.EXE) Release 1.2 07-09-2008 12:56:54

Effluent Limitations Display

DIS	Q	NH3-1	XOT N	. DISS	S. OXYGE	EN
#		1	30	C-BOD5	NH3-N	EFF.
	MGD	DAY	DAY	30-DAY	30-DAY	D.O.
1	.165	50	25	25	25	3

(WQAM63.EXE) Release 1.2 07-09-2008 12:57:03

MATER WATER WATER STREAM STREE DOO DO
ETER FEOW FLOW STAGE A1 25C SATUR STAGE A1 25C SATUR LAB CACO3 OT NFLT TOTAL CACO3 CA-TOT G-TOTAL
MBNT/STRE, WATER CADUCTO NO2-N NO3-N NO2-N NO2-N T AUK RESIDUE RESIDUE RESIDUE CAUNT T ORG CON
00010 00010 00000 00000 00000 00000 00000 00000 0000

STORET	RETRIEVAL	STORET RETRIEVAL DATE 91/03/2	13/21		PGM≈INVENT							PAGE: 9	
/TYPA/A	/TYPA/AMBNT/STREAM	¥.					WONO703 39 47 15.0 079 LOCK-0059 PENNSYL 0HIO RIVER MONONGAHELA RIV 21PA 77041	079 NNSY NNSY NNSY NNSY NNSY DEPT	S0703 .0 1 SB0R0 G	03072550 REENE 50200 HQ 05020005038 0000.100 GFF	038 0000	. 100 OFF	
6	PARA	PARAMETER		MEDIUM	R R K	NUMBER	MEAN	VARIANCE	STAN DEV MAXIMUM		MINIMUM		END DATE
0102	CACMICA	0.00	7 / PO	¥A LEK	¥		. 2000000			ώ ci	u u		87/08/17 86/08/05
01034	CHROMIUM	CR, TOT	UG/L	WATER	FO.	o o	. 2600000	0005000	.0848530	ယ် 4	и. <u>4</u>	86/08/05	87/08/17
01042	COPPER	101,03	1/9n	WATER	,	-	14.00000			4	4		88/06/14
					101 101	4 የህ	26.80000	533.3300.3	23.09400	0 0	ō 5	86/08/05	88/02/10
01045	HON	101.11	UG/L	WATER		28	1004,700		715.6600	4080	290		88/06/14
01051	01051 LEAD	PB.101	1/5n	WATER	¥	ហ	4.020000		.0450910	4	4		88/06/14
5010	MANGNESE	A LOT	7/5/1 06/1	WATER		ന	239.6000	9828.800 9	99.14100	318.0	90.0		88/06/14
)	2 1 1	¥	y m	33.33300		14 , 43400	တ္တ တိ	ກ ເຊ ເວ	87/08/17	88/05/14
0		,		1	101	រោ	43.80000		22.79700	80	25		88/06/14
28010	ZINC	101,N2	UG/L	WATER	×	നഭ	32.00000	372,0000	19.28700	946	2 9	86/08/05	88/02/10
					TOT	Ω v	23.20000		18.19900	5 4	5 5		88/06/14
01105	ALCMINUM	ALUMINUM AL, TOT	UG/L	WATER		ហ	580.8000		424.9700	1310	200		88/06/14
9 9 9	rec con	MIN TO	/ TOOML	WA LEK	×	- 60 -	30,00000	262740.0	512.5800	85	0 8	86/02/20	88/01/19
					TOT	25	258.4000		448.2900	1700	2 %		88/01/19
32730	PHENOLS	TOTAL		WATER		24	0000000		.0000000	0	0		88/01/19
4 4 6 0 4	GAMMAR		NO/FIX				333300	3333400	5773500	81.10			87/11/03
46037		DAMSEL	NO/FT2	WATER		າຕ	2.000000		1.000000	റെ		86/11/21	87/11/03
46087		FLY	NO/FT2	WATER		ო	504.3300		267.4400	710	202		87/11/03
46095		SNAIL	NO/FT2	WATER		rs	5.333300		5.131600	11			87/11/03
46106	OLIGOCHI	AQ E WRM	ND/FT2	WATER	:	C1 -	640.0000	55778.00.3	236.1700	807	473		87/11/03
					¥	- (1000.000			1000	1000		86/11/21
46142	46142 POLYCENT	CADDIS	NO/FT2	WATER	2	უ (r)	6.333300	9.333400	3.055.100	000 000 000 000 000 000 000 000 000 00	4 	86/11/21	87/11/03
46570	CAL HARD	CA MG	MG/L	WATER	59	24	102.1600		37.21500	173	4		87/12/03
70508	70508 T ACDITY	HOT-MG/L	CACD3	WATER		24	10.08300		24.84400	118	0		87/12/03
71900	MERCURY	HG, TOTAL	UG/L	WATER	¥	- ;	1.000000			0.0	0.1		86/08/05
82079	F	SAMPLE	UPDA I ED	WATER WATER		ო ი ი	883410.0	35127000 5	5926.800	890103	870721	86/01/07	88/06/14
• • •)		¥	; -	000000		200	, -			07/17/03
					101	24	12.81300	370.6100 19.25100	19, 25100	94.0	0		87/12/03