

Minor

Southwest Regional Office CLEAN WATER PROGRAM

Application Type Renewal
NonFacility Type Municipal

Major / Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0041114

APS ID 779718

1213176

Authorization ID

plicant Name	The K	(iski School	Facility Name	The Kiski School
plicant Address	1888	Brett Lane	Facility Address	1888 Brett Lane
	Saltsk	ourg, PA 15681-8951		Saltsburg, PA 15681-8951
licant Contact	Mr. Ja	ames Good	Facility Contact	Same as Applicant
icant Phone	724.4	22.6824	Facility Phone	Same as Applicant
t ID	7842		Site ID	244403
Load Status	Not O	verloaded	Municipality	Loyalhanna Township
ection Status			County	Westmoreland
Application Rece	eived	January 10, 2018	EPA Waived?	Yes
Application Acce	pted	_ January 11, 2018	If No, Reason	

Summary of Review

The applicant has applied for a renewal of NPDES Permit No. PA0041114, which was previously issued by the Department on June 27, 2013. That permit expired on June 30, 2018.

WQM Permit No. 6569424, issued on December 5, 1969, authorized construction of the plant to treat an average design flow of 0.04 mgd. The existing treatment process consists of activated sludge, final clarification and chlorination.

The receiving stream, Kiskiminetas River, is classified as a WWF and is located in State Watershed No. 18-C.

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		/s/ William C. Mitchell, E.I.T. / Project Manager	October 29, 2019
Х		/s/ Christopher Kriley, P.E. / Program Manager	October 29, 2019

Discharge, Receiving Waters and Water Supply In	formation
Outfall No. 001	Design Flow (MGD) 0.04
Latitude 40° 29.0′ 13.00″	Longitude -79° 27.00′ 16.00″
Quad Name Saltsburg	Quad Code 1510
Wastewater Description: Sewage Effluent	
Receiving Waters Kiskiminetas River (WWF)	Stream Code 42816
NHD Com ID 125292357	RMI 27.0
Drainage Area <u>1672.0</u>	Yield (cfs/mi²) 0.06579
	US Arm Corp. of Eng. Est.,
	Min. Release from Conemaugh River Res. &
Q ₇₋₁₀ Flow (cfs) 110.0	Q ₇₋₁₀ Basis Loyalhanna Lake & Dam
Elevation (ft)	Slope (ft/ft) 0.0001
Watershed No. 18-C	Chapter 93 Class. WWF
Existing Use	Existing Use Qualifier
Exceptions to Use	Exceptions to Criteria
Assessment Status Impaired	
Cause(s) of Impairment Metals, pH, Siltation, S	Suspended Solids
Source(s) of Impairment Abandoned Mine Drain	
TMDL Status Final	Kiskiminetas-Conemaugh River
TMDL Status Final	Name Watersheds TMDL
Pagkground/Ambient Date	Data Source
Background/Ambient Data pH (SU)	Data Source
Temperature (°F)	
Hardness (mg/L)	
Other:	
Other:	
Nearest Downstream Public Water Supply Intake	Buffalo Township MA, Freeport Plant
PWS Waters Allegheny River	Flow at Intake (cfs) 2900
PWS RMI 29.4	Distance from Outfall (mi)
	. ,

Changes Since Last Permit Issuance: NONE

Other Comments: The discharge is to the Kiskiminetas-Conemaugh River Watersheds that has a Final TMDL and is impaired by metals and pH. This sewage discharge is not expected to contribute to the stream impairment for which abandoned mine drainage is source of such impairment. A 1/year monitor and report requirement for Iron, Manganese, and Aluminum is established in the permit to verify that the sewage discharge is not contributing to the impairment. The same sample type for these parameters is used as for the other main parameters in the permit such as CBOD₅, and TSS. They are to be specified as Daily Max Reporting. The monitoring frequency is yearly for plants rated less than 0.499 MGD.

Treatment Facility Summary								
Treatment Facility N	ame: Kiski School STP (The))						
WQM Permit No.	Issuance Date							
6569424	December 5, 1969							
	Degree of			Avg Annual				
Waste Type	Treatment	Process Type	Disinfection	Flow (MGD)				
Sewage	Secondary	Activated Sludge	Chlorination					
Hydraulic Capacity	Organic Capacity			Biosolids				
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposal				
0.04	68.0	Not Overloaded		Regional WWT				

Changes Since Last Permit Issuance: None

Compliance History

Operations Compliance Check Summary Report

Facility: The Kiski School

NPDES Permit No.: PA004114

Compliance Review Period: 10/14 - 10/19

Inspection Summary: No inspections found

Violation Summary: No violations found

Open Violations by Client ID: No open violations for Client ID

Enforcement Summary: No enforcement found

DMR Violation Summary:

NON COMPLIANCE DATE	NON COMPLIANCE TYPE	PARAMETER	SAMPLE VALUE	PERMIT VALUE	UNIT OF MEASURE	STATISTICAL BASE CODE
03/26/2019	Violation of permit condition	Fecal Coliform	8166	2000	CFU/100 ml	Geometric Mean
03/26/2019	Violation of permit condition	Fecal Coliform	27550	10000	CFU/100 ml	Instantaneous Maximum
02/28/2019	Violation of permit condition	Fecal Coliform	20460	10000	CFU/100 ml	Instantaneous Maximum
10/25/2017	Violation of permit condition	Fecal Coliform	2420	1000	CFU/100 ml	Instantaneous Maximum
10/25/2017	Violation of permit condition	Fecal Coliform	913	200	CFU/100 ml	Geometric Mean

Compliance Status:

Facility has not been inspected since 2014. Will plan on inspection in near future. Permit issuance is recommended.

Completed by: John Murphy

Completed date: 10/15/19

Development of Effluent Limitations								
Outfall No. Latitude Wastewater D	001 40° 29' 13.00" escription: Sewage Effluent	Design Flow (MGD) Longitude	.04 -79° 27' 16.00"					

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
CBOD₅	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)
рН	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

The discharge was previously modeled using WQM6.3 to evaluate CBOD₅, Ammonia Nitrogen and Dissolved Oxygen parameters and there have been no changes to the discharge or the receiving stream. Therefore, it is not necessary 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 CBOD5 are appropriate. The modeling results also confirm that Ammonia-Nitrogen and Dissolved Oxygen limitations are not necessary to meet instream water quality criterion.

The Average Monthly and Instantaneous Maximum Total Residual Chlorine (TRC) effluent limitations imposed in the previous NPDES permit were 1.4 mg/l and 3.3 mg/l, respectively. At that time, those values were considered BAT limitations per the SWRO's TRC Implementation for Sewage Facilities Planning Section Interim Guidance, dated June 20, 1995 for an existing minor facility having a design flow <= 0.1 mgd permitted before July 1995. An average monthly limitation of 0.5 mg/l for TRC is now a regulatory standard under 92a.48(b)(2) and will be imposed. Please see the attached TRC_CALC Model, which used the recommended in-stream and discharge chlorine demand default values of 0.3 mg/l and 0 mg/l.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/l will be imposed based on the standard in 25 PA Code Chapter 93 and best professional judgment.

Anti-Backsliding



Additional Considerations:

For existing discharges, a year-round monitoring requirement for Ammonia-Nitrogen will be established. The monitoring requirement for Ammonia-Nitrogen will be 2/month.

NPDES Permit No. PA0041114

NPDES Permit Fact Sheet The Kiski School STP

For pH, Dissolved Oxygen (DO) and Total Residual Chlorine (TRC), 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.

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.

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.

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.

		Monitoring Requirements						
Parameter	Mass Units	(lbs/day) (1)		Concentrat	ions (mg/L)		Minimum (2)	Required
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	0.04	Report Daily Max	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	xxx	1/day	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	Report	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Total Iron	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab
Total Manganese	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001

TRC EVAL								
Input appropri	ate values ir	n A3:A9 and D3:D9						
110	= Q stream	n (cfs)	0.5	= CV Daily				
0.04	4 = Q discha	rge (MGD)	0.5	= CV Hourly				
30	e no. samı	oles	1	= AFC_Partia	al Mix Factor			
0.3	= Chlorine	Demand of Stream	1	= CFC_Partia	al Mix Factor			
(Chlorine	Demand of Discharge	15	= AFC_Crite	ria Compliance Time (min)			
0.8	= BAT/BPJ	l Value	720	= CFC_Crite	ria Compliance Time (min)			
(= % Facto	r of Safety (FOS)		=Decay Coef				
Source	Reference	AFC Calculations		Reference	CFC Calculations			
TRC	1.3.2.iii	WLA afc =		1.3.2.iii	WLA cfc = 552.855			
PENTOXSD TRO		LTAMULT afc =		5.1c	LTAMULT cfc = 0.581			
PENTOXSD TRO	3 5.1b	LTA_afc=	211.309	5.1d	LTA_cfc = 321.404			
8		F#0	11:3.0-1	1-1:				
Source PENTOXSD TRO	G 5.1f		nt Limit Calcu AML MULT =					
PENTOXSD TRO			IMIT (mg/l) =		BAT/BPJ			
TENTOXOD TIX	5 0.1g		.MIT (mg/l) =		BATIBLE			
WLA afc		AFC_tc)) + [(AFC_Yc*Q		e(-k*AFC_tc))	·			
		AFC_Yc*Qs*Xs/Qd)]*(1-						
LTAMULT afc		(cvh^2+1))-2.326*LN(cvh^2	(+1)^0.5)					
LTA_afc	wla_afc*LTA	AWIOLI_atc						
WLA_cfc	(.011/e(-k*	CFC_tc) + [(CFC_Yc*Qs	*.011/Qd*e	(-k*CFC_tc))				
		CFC_Yc*Qs*Xs/Qd)]*(1-		(,				
LTAMULT_cfc		(cvd^2/no_samples+1))-2.3		2/no_samples+	1)^0.5)			
LTA_cfc	wla_cfc*LTA	AMULT_cfc						
AML MULT EXP(2.326*LN((cvd^2/no_samples+1)^0.5)-0.5*LN(cvd^2/no_samples+1))								
AINE MOET	AVG MON LIMIT MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT)							
		AVG MON LIMIT MIN(BAT_BPJ,MIN(LTA_afc,LTA_cfc)*AML_MULT) INST MAX LIMIT 1.5*((av_mon_limit/AML_MULT)/LTAMULT_afc)						

Collection Report - Modeling Information

PA 0041114 School name changed in past to The Kisti School

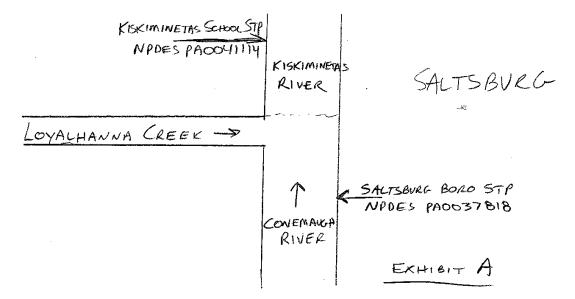
THE KISKIMINETAS SPRINGS SCHOOL HAS APPLIED FOR A RENEWAL OF NPDES PERMIT PAOOUITY. NPDES PERMIT PACO 41114 AUTHORIZES A DISCHARGE OF O. OYMGO FROM THE KISKIMINETAS SPRINGS SCHOOL STP TO THE KISKIMINETAS RIVER.

NPDES PERMIT PACOY/114 ISSUED ON JULY 22, 1980 IMPOSED SECONDARY EFFLUENT LIMITATIONS ON THIS DISCHARGE. THE SECONDARY EFFLUENT LIMITATIONS WERE STATED TO BE BASED ON THE FACT THAT THE KISKIMINETAS RIVER WAS ACID MINE AFFECTED.

TOM PROCH, DEPT AQUATIC BIOLOGIST, STATED THAT THE KISKIMINETAS RIVER WAS STILL ACID MINE AFFECTED AND THAT THE FLOW RATIO BETWEEN THE CONEMAULT RIVER AND LOYALHANNA CREEK DETERMINES TO WHAT EXTENT THE KISKIMINETAS RIVER COULD SUPPORT AQUATIC LIFE, IT WAS HIS OPINION THAT AN INVERTABRATE AQUATIC COMMUNINTY PROBABLY DOES NOT EXIST AT THIS SITE, HOWEVER, FISH COULD BE PRESENT AT TIMES DUE TO THEIR MOBILITY. THEREFORE, A POINT OF FIRST USE WILL BE CONSIDERED TO EXIST AT THE DISCHARGE POINT

PAOO41114

THE SALTS BURG BORD STP (NPDES PA 0037818)
DISCHARGES APPROXIMATELY 2200 ST UVSTREAM
OF THE KISKIMINETAS SPRINGS SCHOOL STP. THE
SALTSBURG BORD STP DISCHARGES TO THE
CONEMAUGH RIVER. (REFER TO EXHIBIT A BELOW)



SINCE THE POSSIBILITY EXISTS THAT THESE DISCHARGES

COULD FNIERACT AND CREATE A D.O. CRITERIA

VIOLATION, THEY WILL BE EVALUATED CONCURRENTLY.

MODEL AND REACH INFORMATION

DRAINAGE AREA CONEMAUCH RIVER = 1373 SQM'

DRAINAGE AREA SALTSBURF BORD STP = 1373 SQM'

DRAINAGE AREA LOYALHANNA (REEK = 299 SQM'

DRAINAGE AREA KISKIMINETAS SPRINGS SCHOOL STP = 1373+299 = 1672m12

BULLETIN 12 INDICATES THAT BOTH THE CONEMAUCH RIVER AND LOYALITANNA CREEK ARE HIGHLY REGULATED.

LOYALHANNA CREEK IS REGULATED BY LOYALHANNA LAKE & DAM. THE MINIMUM RELEASE FROM LOYALHANNA LAKE/RESEXVOIR IS 10CFS FROM LEWIS KWETT & U.S. ARMY CORP of ENGRS.

THE MINIMUM RELEASE FROM THE CONEMAUCH RIVER RESERVOIR IS 100 CFS. OBTAINED FROM THE U.S. ARMY CORPS OF ENGRS, LEWIS KWETT

COMPUTE W/D RATIOS

Q = 100 CFS WIDTH = 300 ft WIDE From TOPO MAP

DEPTH = 2.0 ft AS PER DISCUSSION WITH DEPT PERSONNEL

FAMILIAL WITH KISKIMINETAS & CONEMAUCH RIVERS

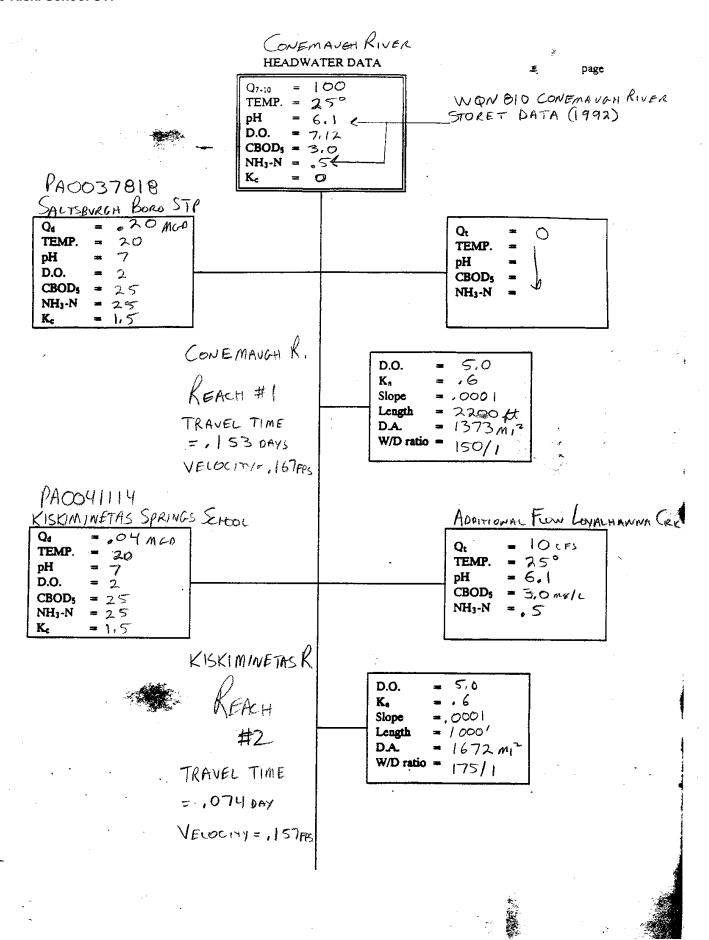
W/D & CONEMAUCH RAT SALTSBURG BORD STP = 300/2.0 = 150 TO 1

VELOCITY = .167 FPS TRAVEL TIME = .153 DAYS

Q = 110 CFS WIDTH = 350 ft WIDE DEPTH = 2.0 ft

W/D & KISKIMINETAS R. AT SCHOOL STP = 350/2 = 175 TO 1

VELOCITY = .157 TRAVEL TIME = .074 DAYS



SALTSBURG BORG STP PAGG37818 FILE:

HEADWATERS AND TRIBUTARY DATA

NO. OF REACHES : 2

RH	07-10	T	PH	OG	CBOD5	NH3-N
	(CFS)	(C)		(MG/L)	(MG/L)	(MG/L)
	**** *** **** ****					**** **** **** **** ****
НМ	100	25	6.1	7.54	3	.5
1	0					
2	10	25	6.1	7.54		.5

STREAM CHARACTERISTICS

RCH	07-10 CFS	T (C)	PH	DO MG/L	CBOD5 MG/L	NH3-N MG/L
****	***					***** ***** ***** ****
1	100	25	6.1	7.54	3	.5
2	110	25	6.1	7.54	3	

0.1-10/0.7-10 = .640.30-10/0.7-10 = 1.36 SALTSBURG BORO STP PA0037818 FILE:

DISCHARGER DATA Q7-10 DESIGN CONDITIONS

RH	Q MGD	(C)	PH	DO MG/L	CBOD5 MG/L	NH3-N MG/L	KC	
****	**** **** **** ****			···· ··· ··· ··· ··· ···	***** ***** **** ***** ****		WIII P-74 P-74 FINN	
1	. 2	20	7	2	25	25	1.5 NPDES	818 LE00 W
2	.04	20	7	2	25	25	1.5 NADES	PA0041114

		REACH	l CHARAC	rerist:	ICS .	
RH			RCH.	RCH.	DRAIN	
	D.O.	KN	St.	LEN.	AREA	W/D
	GOAL.	(/D)	(FT/FT)	(FT.)	(MI^2)	
	*****			*****	1966 MIN 1966 Abov Apla mays	
1	5	. 6	1E-04	2200	1373	150
2	5		1F-04	1000	1472	175

SALTSBURG BORO STP PA0037818 FILE:

REACH CHARACTERISTICS

RH KR TT (/D) (DAYS)

1 0 .153 \ BASED ON Q = VA
2 0 .074 \ SOLVED FOR U WITH KNOWN Q AND A

NH3-N DISCHARGE ALLOCATIONS AT 030-10

DIS	Q	IND.	ALL. CONC.	CRIT. RCH.	PCT. RED.	
	(MGD)	(MG/L)	(MG/L)		(%)	
**** ****	ma	***************************************				
1	. 2	25	25	O	0	
2	. 04	25	25	0	O	

SALTSBURG BORD STP PA0037818 FILE: SALTSBURG STP.WQM6.3

NH3-N DISCHARGE ALLOCATIONS AT Q1-10

DIS	Q	IMD.	ALL.	CRIT.	PCT,
		CONC.	CONC.	RCH.	RED.
	(MGD)	(MG/L)	(MG/L)		(%)
4000 State plant					-
1	. 2	50	50	O	0
2	. 04	50	50	0	0

€,

MULTIPLE DISCHARGE LIMITATIONS (TOTAL) DISCHARGE = .2 MGD

DIS. 1 RCH. 1 TRVL TIME: 153

TR.TM. (DAYS)	CBOD-5 (MG/L)	NH3-N (MG/L)	D.O. (MG/L)
***************************************	*** *** *** *** *** ***	***************************************	
.015	3.07	.57	7.51
.031	3.06	.56	7.5
.046	3.06	.55	7.48
.061	3.06	.55	7.47
.077	3.06	.54	7.46
.092	3.06	.53	7.45
.107	3.05	.52	7.44
.122	3,05	.52	7.44
.138	3.05	.51	7.43
.153	3.Ó5	. 5	7.42

D.D. CONTINUES TO SAC KR RATE LOW 1185 EXISTING DISCHARLE PENFORM KR SENSITIVITY ANALYSIS DOUBLE KR RATE TO 3.7

SALTSBURG BORO STP PA0037818 FILE: SALTSBURG STP.WQM6.3

MULTIPLE DISCHARGE LIMITATIONS

(TOTAL) DISCHARGE = .24 MGD

TEMP = 25 PH = 6.1 CBOD-5= 3.06 NH3-N= .52 D.O. = 7.43 KC'= .031 KN= .6 D.O.GOAL = 5 KR= 1.793 (O'CONNOR)

DIS. 2 RCH. 2 TRVL TIME: .074

TR.TM. (DAYS)	CBOD-5 (MG/L)	NH3-N (MG/L)	D.O. (MG/L)
***** **** **** ****	**** **** **** **** **** ****	**** *** *** ***	#1# **** CON 1800 ****
7E-03	3.06	.51	7.42
.015	3.05	. 51	7.42
.022	3.05	.51	7.42
.03	3.05	. 5	7.41
.037	3.05	.5	7.41
.044	3.05	. 5	7.41
.052	3.05	.5	7.4
.059	3.05	. 5	7.4

See ABOVE

€

\$U/4 0.00 xU /.07

REACH CHARACTERISTICS

RH

(7D) (DAYS)

1 3.7 .153
2 3.6 .074

EXISTING DISCHARGES

SALTSBURG BORO STP PA0037818 FILE: SALTSBURG STP.WQM6.3

> MULTIPLE DISCHARGE LIMITATIONS (TOTAL) DISCHARGE = .2 MGDTEMP = 25PH = 6.1CBOD-5= 3.07 NH3-N= .58 D.O. = 7.52KC'= .033 D.O.GOAL = 5KN= .6 KR= 3.7 (USR DEF.) DIS. 1 RCH. 1 TRVL TIME: .153 D.O. TR. TM. CBOD-5 NH3-N (MG/L) (DAYS) (MG/L) (MG/L) ~... _____ D.O. RECOVERY 3.07 . 57 7.53 .015 3.06 . 56 7.54 .031 7.54 .046 3.06 . 55 7.54 .061 3.06 . 55 7.54 3.06 . 54 **.** 077 7.54 .092 3.06 .53 7.54 .52 . 107 3.05 7.54 .122 3.05 .52

MULTIPLE DISCHARGE LIMITATIONS (TOTAL) DISCHARGE = .24 MGD PH = 6.1TEMP = 25CBOD-5= 3.06 NH3-N= .52 D.O. = 7.54D.O.GOAL = 5KN= .6 KC' = .031(USR DEF.) KR = 3.6RCH. 2 TRVL TIME: 074 DIS. 2 TR.TM. CBOD-5 NH3-N D.O. (MG/L) (DAYS) (MG/L) (MG/L) ----.... 7.54 7E-03 3.06 7.54 .015 3.05 .51 7.54 .022 3.05 .03 .5 7.54 3.05 .5 7.54 .037 3.05 .5 7.54 .044 3.05 .5 7.54 .052 3.05 .5 7.54 .059 3.05 .067 .5 7.54 3.05 .074 3.05 .5 7.54

SALTSBURG BORO STP PA0037818 - FILE: SALTSBURG STP.WQM6.3

EFFLUENT LIMITATIONS DISPLAY

DIS	()	MH3-N	TOX.	DIS	ss. oxye	3EN	
#		1.	30	C-BOD5	NH3-N	EFF	• ' 4
	MGD	DAY	DAY	30-DAY	30-DAY	$\mathbf{D} \cdot \mathbf{C}$) ₁₁
							·····
1 .	.2	50	25	25	25	2	SALTSBURG STP
73	04	50	25	25	25	40	KISKIMINETAS SPRINUS SCHOOL

SINCE SECONDARY EFFLUENT LIMITATIONS APPLY FOR SUMMER, NO Need TO RUN WINTER MODELING.