

Application Type	New
	Non-
Facility Type	Municipal
Major / Minor	Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

PA0293008
1083840
1431603

Applicant and Facility Information

Applicant Name	National Association Church of God	Facility Name	Church of God Campground
Applicant Address	410 Campground Road	Facility Address	410 Campground Road
	West Middlesex, PA 16159-2814		West Middlesex, PA 16159-2814
Applicant Contact	Arnetta Bailey	Facility Contact	
Applicant Phone	(765) 621-9669	Facility Phone	
Client ID	58575	Site ID	450369
Ch 94 Load Status		Municipality	Shenango Township
Connection Status		County	Mercer
Date Application Receiv	vedMarch 3, 2023	EPA Waived?	Yes
Date Application Accep	ted March 28, 2023	If No, Reason	
Purpose of Application	New NPDES Permit for an existing d	ischarge of treated sev	vage.

Summary of Review

This facility is a campground with primary summertime use, with a peak week of occupancy in the month of August.

The facility has an active WQM Permit for a two-cell lagoon and chlorination system, but never obtained a NPDES Permit for the discharge to the Department's knowledge.

There are currently no open violations listed in EFACTS for this client (5/22/2023). CWY 7/7/2023

Sludge use and disposal description and location(s): No records of sludge removal documented from the lagoons.

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		Adam J. Pesek Adam J. Pesek, E.I.T. / Project Manager	May 22, 2023
х		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	7/7/2023

Discharge, Receiving Waters	and Water Supply Inforn	nation	
Outfall No. 001		Design Flow (MGD)	0.025
Latitude <u>41° 8' 51.00"</u>		Longitude	-80° 27' 18.00"
Quad Name Sharon East		Quad Code	0902
Wastewater Description: 1	reated domestic sewage		
	ed Tributary to Shenango	Streem Code	25024
Receiving Waters <u>River</u> NHD Com ID 1300335	505	Stream Code	35921
		RMI	0.2
	0.88 mi ² (perennial)	Yield (cfs/mi ²)	0.02212 (perennial)
	56 (perennial)	Q7-10 Basis	USGS #03104760
Elevation (ft) <u>920</u>		Slope (ft/ft)	0.02249
Watershed No. 20A		Chapter 93 Class.	WWF
Exceptions to Use		Exceptions to Criteria	
· · · · · · · · · · · · · · · · · · ·	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	
Background/Ambient Data		Data Source	
pH (SU)	7.0	Default	
Temperature (°C)	25	Default (WWF)	
Hardness (mg/L)			
Other: NH ₃ -N	0.1	Default	
Nearest Downstream Public \		Pennsylvania American Water	· · ·
PWS Waters Shenango	River	Flow at Intake (cfs)	16.2
PWS RMI 5.1		Distance from Outfall (mi)	14.75

Changes Since Last Permit Issuance:

Other Comments:

	Tre	eatment Facility Summa	ary	
Freatment Facility Na	me: Church of God Campg	round		
WQM Permit No.	Issuance Date			
4371407	6/06/1971			
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Lagoon	Tablet Chlorination	0.025
Hydraulic Capacity	Organic Capacity			Biosolids
(MGD)	(lbs/day)	Load Status	Biosolids Treatment	Use/Disposa
0.25	425			None

Changes Since Last Permit Issuance:

Other Comments: Treatment consists of a primary and secondary lagoon, tablet chlorinator, and chlorine contact tank.

Development of Effluent Limitations

Outfall No.	001		Design Flow (MGD)	0.025
Latitude	41º 8' 51.00"		Longitude	-80º 27' 18.00"
Wastewater D	escription:	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
CROD	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)
Total Suspended	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
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)
E. Coli	Report (No./100 ml)	IMAX	-	92a.61

Comments: Monitoring for E. Coli is placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Water Quality-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Model
Ammonia Nitrogen	3.4	Average Monthly	WQM 7.0 Ver 1.1

Comments: In accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits," a seasonal multiplier of "3" will be applied to ammonia nitrogen during the winter period.

TRC was not modeled as there is approximately 0.8 miles or dry/intermittent stream before perennial conditions and it is believed chlorine residual will be reacted by that point.

Best Professional Judgment (BPJ) Limitations

Comments: A dissolved oxygen daily minimum limit of 4.0 mg/l, a TRC MAX limit 1.6 mg/l and monitoring for total nitrogen and total phosphorus will be placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits."

Anti-Backsliding

N/A

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	Minimum ⁽²⁾	Required		
Parameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	Report Daily Max	xxx	XXX	XXX	xxx	1/week	Measured
pH (S.U.)	xxx	xxx	6.0 Daily Min	xxx	9.0 Daily Max	xxx	1/day	Grab
DO	ХХХ	xxx	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	xxx	xxx	xxx	0.5	xxx	1.6	1/day	Grab
CBOD5	ххх	XXX	xxx	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	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
E. Coli (No./100 ml)	ХХХ	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	ххх	xxx	xxx	xxx	Report Daily Max	xxx	1/year	Grab
Ammonia Nov 1 - Apr 30	ххх	xxx	xxx	3.4	XXX	6.8	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	10.2	XXX	20.4	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001 (after disinfection)

Input Data WQM 7.0

	SWP Basin			Stre	eam Name		RMI		ation t)	Drainage Area (sq mi)		ope :/ft)	PWS Withdrawal (mgd)	Apply FC
	20A	359	921 Trib 35	5921 to SI	nenango Riv	/er	1.00	90 9	920.00	0.0	01 0.0	0000	0.0	0 🗸
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> p p	н	<u>s</u> Temp	<u>Stream</u> p pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10	0.001	0.00	0.00	0.000	0.000	0.0	0.00	0.00	2	0.00	7.50	0.	.00 0.0	0
Q1-10		0.00	0.00	0.000	0.000									
Q30-10		0.00	0.00	0.000	0.000									
		Discharge Data												
			Name	Per	mit Numbe	Disc	Permitte Disc Flow (mgd)	Disc Flow	Res Fa	erve T ctor	Disc emp (ºC)	Diso pH		
		Ch of	God CG	PA	0293008	0.025				0.000	20.00) 7	7.50	
					Pa	arameter	Data							
				Paramete	. Nausa				tream Conc	Fate Coef				
			6	aramete	rivame	(m	ıg/L) (n	ng/L) (mg/L)	(1/days)				
			CBOD5				25.00	0.00	0.00	1.50	1			
			Dissolved	Oxygen			4.00	8.24	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

	SWP Basin	Strea Coc		Stre	am Name		RMI	Ele	evation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
	20A	359	921 Trib 35	5921 to Shenango River			0.200 825.0		825.00	0.88	0.00000	0.00	\checkmark
					S	tream Da	ta						
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	n Ten	<u>Tributary</u> np pH	Tem	<u>Stream</u> p pH	
Conu.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	:)	(°C)	
27-10	0.001	0.00	0.00	0.000	0.000	0.0	0.00	0.	00 2	0.00 7.5	50 0	0.00 0.00)
ຊ1-10		0.00	0.00	0.000	0.000								
230-10		0.00	0.00	0.000	0.000								

Input Data WQM 7.0

	Dis	charge D	ata					
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reser Fact	ve T or	Disc emp (°C)	Disc pH
Ch of God CG	PA02393008	0.0250	0.0000	0.0000) 0.0	000	20.00	7.50
	Pa	rameter D	ata					
Do	ameter Name	Dis Co			eam onc	Fate Coef		
Pa	ameter Name	(mg	g/L) (mg	/L) (m	g/L) (1/days)		
CBOD5		1	2.33	2.00	0.00	1.50		
Dissolved O	ygen		5.58	7.54	0.00	0.00		
NH3-N		1	7.73 (0.10	0.00	0.70		

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	SW	'P Basin	Strea	m Code				Stream	Name			
		20A	3	5921			Trib 359	21 to Sh	nenango l	River		
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Tra∨ Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
1.000	0.00	0.00	0.00	.0387	0.02249	.415	.88	2.12	0.11	0.460	20.00	7.50
Q1-1	0 Flow											
1.000	0.00	0.00	0.00	.0387	0.02249	NA	NA	NA	0.00	0.000	0.00	0.00
Q30-	10 Flow	(
1.000	0.00	0.00	0.00	.0387	0.02249	NA	NA	NA	0.00	0.000	0.00	0.00

WQM 7.0 Hydrodynamic Outputs

WQM 7.0 Modeling Specifications

Parameters	D.O.	Use Inputted Q1-10 and Q30-10 Flows	✓
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	2		

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20A 35921 Trib 35921 to Shenango River Dissolved Oxygen Allocations CBOD5 NH3-N Dissolved Oxygen Critica	
Dissolved Oxygen Allocations <u>CBOD5</u> <u>NH3-N</u> Dissolved Oxygen	
	Percent
RMI Discharge Name Baseline Multiple Baseline Multiple Baseline Multiple React (mg/L) (mg/L) (mg/L) (mg/L) (mg/L) (mg/L)	Reduction

	WQM	7.0	D.O.Simulation
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SWP Basin	<u>Stream Code</u>			Stream Name	
20A	35921		Trib 35	921 to Shenango River	
RMI	Total Discharge	Flow (mgd	<u>) Ana</u>	lysis Temperature (°C)	Analysis pH
1.000	0.02	5		20.000	7.500
Reach Width (ft)	Reach De	pth (ft)		Reach WDRatio	Reach Velocity (fps)
0.880	0.41	5		2.121	0.106
Reach CBOD5 (mg/L)	Reach Kc	<u>(1/days)</u>	R	each NH3-N (mg/L)	Reach Kn (1/days)
24.94	1.50			24.94	0.700
Reach DO (mg/L)	<u>Reach Kr (</u>			Kr Equation	<u>Reach DO Goal (mg/L)</u>
4.011	24.60	00		Owens	2
<u>Reach Travel Time (days</u> 0.460	i <u>)</u> TravTime (days)	Subreach CBOD5 (mg/L)	n Results NH3-N (mg/L)	D.O. (mg/L)	
	0.046		24.14	3.86	
	0.092		23.38	3.98	
	0.138	20.27	22.64	4.18	
	0.184	18.92	21.92	4.39	
	0.230	17.66	21.23	4.60	
	0.276	16.48	20.55	4.80	
	0.322	15.38	19.90	5.00	
	0.368	14.35	19.27	5.18	
	0.414	13.40	18.66	5.36	
	0.460	12.50	18.07	5.52	

<u>P Basin S</u> 20A Name	<mark>35921</mark> Permit Number	Disc Flow (mgd)	<u>Stream Nam</u> Trib 35921 to Shenar Parameter	_	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum
	Permit	Disc Flow		Effl. Limit 30-day Ave.	Maximum	Minimum
Name		Flow	Parameter	30-day Ave.	Maximum	Minimum
				(mg/c)	(ing/L)	(mg/L)
Ch of God CG	PA0293008	0.025	CBOD5	25		
			NH3-N	25	50	
			Dissolved Oxygen			4

WQM 7.0 Effluent Limits

	SWF Basir			Stre	am Name		RMI	Ele	evation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
	20A	359	921 Trib 3	5921 to Sł	nenango Ri	iver	0.20)0	825.00	0.88	0.00000	0.00	\checkmark
					S	tream Da	ta						
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Tra∨ Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Ten	<u>Tributary</u> 1p pH	Tem	<u>Stream</u> p pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)	(°C)	
Q7-10	0.022	0.00	0.00	0.000	0.000	0.0	0.00	0.0	00 2	5.00 7.0	00 00	0.00 0.00	E
ຊ1-10		0.00		0.000	0.000								
Q30-10		0.00	0.00	0.000	0.000								

Input Data WQM 7.0

	Dis	charge D	ata					
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reser Facto	ve T or	Disc Temp (°C)	Disc pH
Ch of God CG	PA02393008	0.0250	0.0000	0.000) 0.0	000	20.00	7.50
	Pai	ameter D	ata					
Pa	ameter Name	Dis Co (mg	nc Cor	nc C	eam onc g/L) (Fate Coef 1/days)		
CBOD5				1.00	0.00	1.50		
Dissolved O	kygen		5.52 7	7.54	0.00	0.00		
NH3-N		1	8.07 (0.03	0.00	0.70		

Input	Data	WQM	7.0
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	SWF Basir			Stre	am Name		RMI	Elev: (f		Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
	20A	359	921 Trib 35	5921 to Sh	ienango Ri	ver	0.00)1	820.00	0.91	0.00000	0.0	0 🗸
<u>9</u>					S	tream Da	ta						
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributary</u> p pH	Tem	<u>Stream</u> p pH	
Conta.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)	
Q7-10	0.022	0.00	0.00	0.000	0.000	0.0	0.00	0.00	25	5.00 7.0	00 0	0.0 0.0	0
Q1-10		0.00	0.00	0.000	0.000								
Q30-10		0.00	0.00	0.000	0.000								

	Dis	scharge D	ata				
Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
. 1		0.0000	0.0000	0.0000	0.00	0 0.00	7.00
	Pa	rameter D	ata				
	Parameter Name	Dis Co				ate Coef	
	arameter Name	(mg	ı/L) (mg	I/L) (m	g/L) (1/a	days)	
CBOD5		2	5.00 2	2.00	0.00	1.50	
Dissolved	Oxygen		3.00 8	8.24	0.00	0.00	
NH3-N		2	5.00 0	0.00	0.00	0.70	

	SW	P Basin	Strea	m Code				Stream	Name				
		20A	35921		Trib 35921 to Shenango River								
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Tra∨ Time	Analysis Temp	Analysis pH	
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)		
Q7-1	0 Flow												
0.200	0.02	0.00	0.02	.0387	0.00476	.324	4.1	12.66	0.04	0.278	21.67	7.26	
Q1-1	0 Flow												
0.200	0.01	0.00	0.01	.0387	0.00476	NA	NA	NA	0.04	0.299	21.22	7.32	
Q30-	10 Flow	v											
0.200	0.03	0.00	0.03	.0387	0.00476	NA	NA	NA	0.05	0.261	22.03	7.23	

WQM 7.0 Hydrodynamic Outputs

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	✓
WLA Method	EMPR	Use Inputted W/D Ratio	
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	✓
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	5		

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		V	VQM 7.	.0 Wast	eload	Allo	catio	ns		
	SWP Basin	Stream	m Code			Stream	Name			
	20A	35	921		Trib 359	921 to Sh	ienango	River		
NH3-N	Acute Alloca	tions	5							
RMI	Discharge N	ame	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterio (mg/L)	n V	ltiple VLA ng/L)	Critical Reach	Percent Reductio	n
0.2	00 Ch of God CG		10.78	14.24	10.	78	14.24	0	0	
NH3-N	Chronic Allo	catio	ns							
RMI	Discharge Nar		Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multi Wl (mg	A	Critical Reach	Percent Reduction	
0.2	00 Ch of God CG		1.49	2.49	1.	49	2.49	0	0	-
Dissolv	ed Oxygen A	lloca	tions							
			<u>c</u>	BOD5	<u>NH3</u>	<u>-N</u>	Dissolv	ed Oxygen	Oritical	Descent
RMI	Discharge Nam		e Baselir (mg/L	New Street and Street	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	own - Statestern - Stateste	Critical Reach	Percent Reduction
			(ing/c	·/ ((ingre)	(ing/L)	((1119/2)		

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SWP Basin St	ream Code			Stream Name	
20A	35921		Trib 35	921 to Shenango Rive	r
RMI	Total Discharge	Flow (mgc	l) <u>Ana</u>	lysis Temperature (°C)	Analysis pH
0.200	0.02	5		21.674	7.263
Reach Width (ft)	<u>Reach De</u>	<u>pth (ft)</u>		Reach WDRatio	Reach Velocity (fps)
4.102	0.32	4		12.661	0.044
Reach CBOD5 (mg/L)	Reach Kc (1/days)	R	each NH3-N (mg/L)	Reach Kn (1/days)
8.65	1.42	Barrow at		1.66	0.796
Reach DO (mg/L)	<u>Reach Kr (</u>			Kr Equation	<u>Reach DO Goal (mg/L)</u>
6.196	22.31	8		Owens	5
<u>Reach Travel Time (days)</u>		Subreach	Results		
0.278	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.028	8.29	1.63	6.91	
	0.056	7.94	1.59	7.31	
	0.083	7.61	1.56	7.54	
	0.111	7.29	1.52	7.54	
	0.139	6.98	1.49	7.54	
	0.167	6.69	1.46	7.54	
	0.195	6.41	1.42	7.54	
	0.222	6.14	1.39	7.54	
	0.250	5.88	1.36	7.54	
	0.278	5.64	1.33	7.54	

WQM 7.0 D.O.Simulation

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		a <u>m Code</u> 35921	2	<u>Stream Nam</u> Trib 35921 to Shenar			
RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
0.200	Ch of God CG	PA02393008	0.025	CBOD5	12.5		
				NH3-N	2.49	4.98	
				Dissolved Oxygen			5.52

WQM 7.0 Effluent Limits

Co = Ct*e(k)(t) $Co = 2.49*e^{(0.7)(0.46)}$ Co = 3.436 mg/l