

Southwest Regional Office CLEAN WATER PROGRAM

Application Type
Renewal
NonFacility Type
Major / Minor
Minor

NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0253081

APS ID 1037857

Authorization ID 1353072

		Applicant a	nd Facility Information	
Applicant Name	Univer	sal Electric Bus LLC	Facility Name	Universal Electric Bus
Applicant Address	168 G	eorgetown Road	Facility Address	168 Georgetown Road
	Canon	sburg, PA 15317-5611		Canonsburg, PA 15317-5611
pplicant Contact	Richar	d Graf	Facility Contact	Richard Graf
pplicant Phone	(724) 3	55-5338	Facility Phone	(724) 355-5338
lient ID	243678	3	Site ID	653292
n 94 Load Status	Not Ov	erloaded	Municipality	Cecil Township
onnection Status	No Lim	itations	County	Washington
ate Application Rece	eived	May 4, 2021	EPA Waived?	Yes
ate Application Acce	pted	May 5, 2021	If No, Reason	

Summary of Review

The permittee is currently using the eDMR system for reporting.

No changes to the discharge quality or quantity were proposed as part of this renewal.

There is one open violation currently in EFACTS for this permittee as of 03/30/2022, for Operator Certification – failure to submit annual system fee. Violation dated 12/20/2021.

Sludge use and disposal description and location(s): Sludge hauled offsite to the Clairton STP, owned by the Clairton Municipal Authority.

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
X		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Civil Engineer Trainee	March 30, 2022
Х		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	March 31, 2022

ischarge, Receiving V	Vaters and Water Supply In	nformation	
Outfall No. 001		Design Flow (MGD)	.006
Latitude 40° 18'		Longitude	-80° 8' 9.23"
	nsburg	Quad Code	40080C2
Wastewater Description	on: Sewage Effluent		
Receiving Waters	Chartiers Creek (WWF)	Stream Code	36777
NHD Com ID	99691624	RMI	24.5
Drainage Area	143	Yield (cfs/mi²)	0.1
Q ₇₋₁₀ Flow (cfs)	14.3	Q ₇₋₁₀ Basis	Default
Elevation (ft)	942	Slope (ft/ft)	
Watershed No. 2	20-F	Chapter 93 Class.	_WWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairme	nt (PCBS), TOTAL DISS TURBIDITY, TURBID ACID MINE DRAINAGE	D BIPHENYLS (PCBS), POLYCHLOI SOLVED SOLIDS (TDS), TOTAL DIS DITY GE, ACID MINE DRAINAGE, ACID N INE DRAINAGE, ACID MINE DRAIN	SSOLVED SOLIDS (TDS), MINE DRAINAGE, ACID MINE
Source(s) of Impairme		INE DRAINAGE, SOURCE UNKNOW	
., .		Chartiers Cr	eek,Chartiers Creek
TMDL Status	Final, Final	Name Watershed	
Background/Ambient	Data	Data Source	
pH (SU)	7.0	Default	
Temperature (°F)	20	Default	
Hardness (mg/L)	100	Default	
Other:	0.1	Default	
Nearest Downstream	Public Water Supply Intake		
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance: None.

Other Comments: None.

Treatment Facility Summary Treatment Facility Name: Universal Electric Bus **WQM Permit No. Issuance Date** 3606401 T-1 June 30, 2020 3606401 July 27, 2006 Degree of **Avg Annual** Flow (MGD) **Waste Type Treatment Process Type** Disinfection Secondary With Ammonia Reduction Extended Aeration Ultraviolet 0.006 Sewage **Hydraulic Capacity Organic Capacity Biosolids** (MGD) (lbs/day) **Load Status Biosolids Treatment Use/Disposal** Not Overloaded

Changes Since Last Permit Issuance: None.

Other Comments: None.

Compliance History

DMR Data for Outfall 001 (from October 1, 2020 to September 30, 2021)

Parameter	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20
Flow (MGD)												
Average Monthly	0.00280	0.00183	0.00253	0.00271	0.00106	0.00107	0.00129	0.00094	0.00220	0.00243	0.00405	0.00273
pH (S.U.)												
Instantaneous												
Minimum	7.0	7.1	7.0	7.0	7.1	6.3	7.0	7.1	7.0	6.8	7.0	7.0
pH (S.U.)												
Instantaneous												
Maximum	7.3	7.3	7.3	7.4	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.3
DO (mg/L)												
Instantaneous												
Minimum	6.5	5.0	6.0	6.2	6.1	4.3	6.0	6.7	6.4	6.4	6.2	6.0
CBOD5 (mg/L)												
Average Monthly	2.0	2.0	2.0	2.0	2.0	3.5	2.0	2.0	2.0	2.0	8.7	2.0
CBOD5 (mg/L)												
Instantaneous												
Maximum	2.0	2.0	2.0	2.0	2.0	5.0	2.0	2.0	2.0	2.0	15.4	2.0
TSS (mg/L)												
Average Monthly	5.0	5.0	5.0	5.0	5.0	5.0	6.0	5.0	5.0	5.0	15.0	5.0
TSS (mg/L)												
Instantaneous												
Maximum	5.0	5.0	5.0	5.0	5.0	5.0	7.0	5.0	5.0	5.0	25.0	5.0
Fecal Coliform												
(No./100 ml)												
Geometric Mean	1	1	1	1	1	1	1	3	1	1	177	1
UV Transmittance (%)												
Average Monthly	80	79	80	80	80	71	79	80	80	80	78	78
Total Nitrogen (mg/L)												
Daily Maximum										1.75		
Ammonia (mg/L)												
Average Monthly	0.4	0.5	0.9	0.9	0.3	0.8	1.3	0.9	0.8	0.7	7.2	0.5
Ammonia (mg/L)												
Instantaneous												
Maximum	0.6	0.5	0.9	1.0	0.3	1.1	2.1	1.4	1.3	1.1	9.7	0.7
Total Phosphorus												
(mg/L)												
Daily Maximum										0.7		

	Development of Effluent Limitations									
Outfall No.	001		Design Flow (MGD)	.006						
Latitude	40° 18' 9.00"		Longitude	-80° 8' 17.00"						
Wastewater D	Description:	Sewage Effluent	<u> </u>							

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-	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)

Comments: None.

Water Quality-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Model
Ammonia Nitrogen			
May 1 - Oct 31	20	Average Monthly	WQM 7.1b
Ammonia-Nitrogen			
Nov 1 - Apr 30	Report	Average Monthly	WQM 7.1b

Comments: Comments: Existing Ammonia limits are believed to be water quality-based originating from an old Dry Streams Manual. WQM 7.1.1 modeling does not indicate the need for such stringent limits but the existing limits will remain due to anti-backsliding provisions and the ability of the permittee to meet the existing limits.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/L was implemented in the last permit cycle based on the standard in 25 PA Code Chapter 93 and best professional judgment. This limitation will be retained.

For pH, UV, and Dissolved Oxygen (DO) the previously imposed monitoring frequency of "3/week" will be increased to "5/week" in accordance with the Department SOP for New and Reissuance Sewage Individual NPDES Permit Applications (Revised February 3, 2022).

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.

			Effluent L	imitations			Monitoring Re	quirements
Parameter	Mass Units	(lbs/day) (1)		Concentrat	Minimum (2)	Required		
Farameter	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	5/week	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	5/week	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	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)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
UV Transmittance (%)	XXX	XXX	XXX	Report	XXX	XXX	5/week	Measured
Total Nitrogen	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Daily Max	XXX	XXX	1/year	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Other Comments: Dry streams policy applied for limits on Ammonia-Nitrogen

Dry Streams Criteria Pages 1-5

	SWP Basir			Stre	eam Name		RMI		evation (ft)	Draina Area (sq m	а	Slope (ft/ft)	PW Withd (mg	rawal	Apply FC
	12A	123	354 Trib 12	2354 to Ju	ıniata River		0.1	20	920.00		0.23 0	.00000		0.00	~
					St	ream Dat	a								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributa np	<u>iry</u> pH	Tem	Strean np	<u>n</u> pH	
Cona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	;)		(°C)		
Q7-10 Q1-10 Q30-10	0.001	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 2	0.00	7.50	Ü	0.00	0.00	
	Discharge Data														
			Name	Pei	mit Number	Disc	Permitt Disc Flow (mgd	Dis Flo	sc Res	serve actor	Disc Temp (°C)		sc H		
		Univ	Elec Bus	PA	0253081	0.006	0.00	30 0.0	0060	0.000	20.0	00	7.50		
					Pa	rameter l	Data								
			,	Paramete	r Name			Trib Conc	Stream Conc	Fate Coe					
				urumete	i ivaliic	(m	g/L) (r	ng/L)	(mg/L)	(1/day	/s)				
			CBOD5			1	25.00	0.00	0.00	1.	.50				
			Dissolved	Oxygen			4.00	8.24	0.00	0.	.00				
			NH3-N			İ	25.00	0.00	0.00	0.	.70				

					шр	at Date	u vv Q	VI 7 .U						
	SWP Basin	Strea Cod		Stre	eam Name		RM		ation ft)	Drainage Area (sq mi)		ope (:/ft)	PWS Withdrawa (mgd)	Appl I FC
	12A	123	354 Trib 12	2354 to Ju	ıniata River		0.0	01	875.00	0.	26 0.0	00000	0.	00 🔽
					St	ream Dat	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributary) DH	<u>S</u> Temp	<u>stream</u> ph	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.001	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.00) 2	0.00	7.50	0.	00 0	00
					Di	scharge	Data							
			Name	Per	mit Number	Existing Disc Flow (mgd)	Permit Disc Flow (mgc	Flow	Res / Fa	erve ctor	Disc Γemp (°C)	Disc pH		
		2				0.000	0 0.00	00.00	000	0.000	25.00	7	.00	
					Pa	rameter	Data							
)	Paramete	r Name				Stream Conc	Fate Coef				
				5 1000000000000000000000000000000000000		(m	ng/L) (mg/L) ((mg/L)	(1/days)	ĺ			
			CBOD5				25.00	2.00	0.00	1.50)			
			Dissolved	Oxygen			3.00	8.24	0.00	0.00)			
			NH3-N				25.00	0.00	0.00	0.70)			

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	Name			
		12A	1	2354			Trib 12	2354 to .	Juniata Ri	iver		
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow		Depth	Width	W/D Ratio	Velocity	Tra∨ Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
0.120	0.00	0.00	0.00	NA	0.07162	.254	1.4	5.5	0.03	0.272	20.00	7.50
Q1-1	0 Flow											
0.120	0.00	0.00	0.00	NA	0.07162	NA	NA	NA	0.00	0.000	0.00	0.00
Q30-	10 Flow	t .										
0.120	0.00	0.00	0.00	NA	0.07162	NA	NA	NA	0.00	0.000	0.00	0.00

WQM 7.0 Modeling Specifications

Parameters	D.O.	Use Inputted Q1-10 and Q30-10 Flows	✓
WLA Method	Simulation	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		

WQM 7.0 D.O.Simulation

SWP Basin Str	eam Code			Stream Name	
12A	12354		Trib 1	2354 to Juniata River	
<u>RMI</u>	Total Discharge	Flow (mgd) Ana	ysis Temperature (°C)	Analysis pH
0.120	0.006	3		20.000	7.500
Reach Width (ft)	Reach Dep	oth (ft)		Reach WDRatio	Reach Velocity (fps)
1.400	0.254	1		5.503	0.027
Reach CBOD5 (mg/L)	Reach Kc (<u>1/days)</u>	<u>R</u>	each NH3-N (mg/L)	Reach Kn (1/days)
24.40	1.500)		24.40	0.700
Reach DO (mg/L)	Reach Kr (<u>1/days)</u>		Kr Equation	Reach DO Goal (mg/L)
4.103	24.10	4		Owens	2
Reach Travel Time (days)		Subreach	Reculte		
0.272	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.027	23.42	23.93	3.92	
	0.054	22.48	23.48	3.90	
	0.082	21.58	23.04	3.96	
	0.109	20.72	22.60	4.06	
	0.136	19.89	22.18	4.17	
	0.163	19.09	21.76	4.30	
	0.191	18.33	21.35	4.42	
	0.218	17.60	20.95	4.55	
	0.245	16.89	20.55	4.67	
	0.272	16.22	20.16	4.79	

WQM 7.0 Effluent Limits

	SWP Basin 12A	Stream Code 12354		Stream Name Trib 12354 to Juniata River	
RMI	Name	Permit Number	Disc Flow (mgd)		
0.120	Univ Elec Bu	PA0253081	0.006		

	SWP Basin	Strea Cod		Stre	eam Name		RMI		evation (ft)	Drainag Area (sq mi		ope t/ft)	PW Withdr (mg	awal	Apply FC
	20F	367	777 CHAR	TIERS C	REEK		25.63	30	875.00	139	.00 0.0	00000		0.00	✓
					St	ream Dat	a								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	<u>Tributar</u> np	∉ pH	Tem	<u>Stream</u> p	<u>1</u> pH	
Conu.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 2	5.00	7.00	(1)	0.00	0.00	
					Di	scharge I	Data								
			Name	Per	mit Number	Disc	Permitte Disc Flow (mgd)	Dis Flo	c Res	erve ctor	Disc Temp (°C)	Di: P			
		Univ	Elec Bus	PAC	253081	0.0060	0.006	0.0	0060	0.000	20.00	0	7.50		
					Pa	rameter l	Data								
			1	⊃arametei	r Name	C	onc C	Frib Conc ng/L)	Stream Conc (mg/L)	Fate Coef (1/days	Υ				
	_		OBODE							10.300000000000000000000000000000000000					
			CBOD5 Dissolved	Ovvden			16.22 4.79	2.00 7.54	0.00						
			DISSUIVEU	Cxygen			7.13	1.54	0.00	0.0	U				

	SWP Basin			Stre	eam Name		RMI		vation (ft)	Drainage Area (sq mi)		ft/ft)	PW Withdr (mg	awal	Apply FC
	20F	36	777 CHAR	TIERS CI	REEK		23.00	00	855.00	154.	.00 0.	00000		0.00	~
ST.					St	ream Dat	a								
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Tem	Tributary	<u>/</u> oH	Tem	Stream np	рН	
oona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C)		(°C	;)		
Q7-10 Q1-10 Q30-10	0.100	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000 0.000 0.000	0.0	0.00	0.0	00 2	5.00	7.00	9	0.00	0.00	
					Di	scharge	Data						- i		
			Name	Per	mit Number	Existing Disc	Permitte Disc Flow (mgd)	Dis Flo	c Res		Disc Temp (°C)		sc H		
						0.000	0.000	0.0	0000	0.000	25.0	0	7.00		
					Pa	rameter	Data								
			1	Paramete	r Name	С	onc C	Conc	Stream	Fate Coef					
	_					(m	ıg/L) (n	ng/L)	(mg/L)	(1/days))				
			CBOD5				25.00	2.00	0.00	1.50	0				
			Dissolved	Oxygen			3.00	8.24	0.00	0.0	0				
			NH3-N				25.00	0.00	0.00	0.70	0				

WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code				Stream	<u>Name</u>			
		20F	3	6777			CH	ARTIER:	S CREEK			
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	Reach Slope	Depth	Width	W/D Ratio	Velocity	Reach Trav Time	Analysis Temp	Analysis pH
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)	
Q7-1	0 Flow											
25.630	13.90	0.00	13.90	.0093	0.00144	.826	60.26	72.95	0.28	0.575	25.00	7.00
Q1-1	0 Flow											
25.630	8.90	0.00	8.90	.0093	0.00144	NA	NA	NA	0.22	0.738	24.99	7.00
Q30-	10 Flow	,										
25.630	18.90	0.00	18.90	.0093	0.00144	NA	NA	NA	0.33	0.484	25.00	7.00

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		

Reach Reduction

0

0

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20F	36777	CHARTIERS CREEK

(mg/L) (mg/L)

16.22

16.22

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
25.63	30 Univ Elec Bus	11.08	40.32	11.08	40.32	0	0
H2-14	Chronic Allocati	Baseline	Baseline	Multiple	Multiple	Critical	Percent
RMI	Discharge Name	Criterion (mg/L)	WLA (mg/L)	Criterion (mg/L)	WLA (mg/L)	Reach	Reduction

(mg/L) (mg/L)

20.16 4.79

4.79

20.16

25.63 Univ Elec Bus

WQM 7.0 D.O.Simulation

SWP Basin St	ream Code			Stream Name	
20F	36777		CI	HARTIERS CREEK	
<u>RMI</u>	Total Discharge	Flow (mgd	l) <u>Ana</u>	lysis Temperature (°C	Analysis pH
25.630	0.006	3		24.997	7.000
Reach Width (ft)	Reach Dep	oth (ft)		Reach WDRatio	Reach Velocity (fps)
60.256	0.826	56		72.950	0.279
Reach CBOD5 (mg/L)	Reach Kc (<u>1/days)</u>	<u>R</u>	each NH3-N (mg/L)	Reach Kn (1/days)
2.01	0.005			0.11	1.028
Reach DO (mg/L)	Reach Kr (Kr Equation	Reach DO Goal (mg/L)
7.538	3.092	2		Tsivoglou	5
Reach Travel Time (days)		Subreach	Results		
0.575	TravTime	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.058	2.01	0.11	7.54	
	0.115	2.01	0.10	7.54	
	0.173	2.01	0.10	7.54	
	0.230	2.01	0.10	7.54	
	0.288	2.01	0.10	7.54	
	0.345	2.01	0.10	7.54	
	0.403	2.00	0.10	7.54	
	0.460	2.00	0.10	7.54	
	0.518	2.00	0.10	7.54	
	0.575	2.00	0.10	7.54	

WQM 7.0 Effluent Limits

		<u>n Code</u> 777		Stream Name	- 1)		
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)
 25.630	Univ Elec Bus	PA0253081	0.006	CBOD5	16.22		
				NH3-N	20.16	40.32	
				Dissolved Oxygen			4.79