

# Northwest Regional Office CLEAN WATER PROGRAM

Application Type Renewal NPDES PERMIT FACT SHEET Application
Facility Type Industrial INDIVIDUAL INDUSTRIAL WASTE (IW)
Major / Minor AND IW STORMWATER Authorizat

Application No. PA0239283

APS ID 997469

Authorization ID 1280483

		Applicant and	Facility Information	
Applicant Name	White	hall Specialties, Inc.	Facility Name	Whitehall Specialties
Applicant Address	2850 l	Perry Highway	Facility Address	2850 Perry Highway
	Slippe	ry Rock, PA 16057	_	Slippery Rock, PA 16057
Applicant Contact	Domin	iic Galassi	Facility Contact	Dominic Galassi
Applicant Phone	(724)	923-4215	Facility Phone	(724) 923-4215
Client ID	33047	5	Site ID	551655
SIC Code	2022		Municipality	Scott Township
SIC Description	Manuf Proces	acturing - Cheese, Natural and ssed	County	Lawrence County
Date Application Rec	eived	June 27, 2019	EPA Waived?	Yes
Date Application Acc	epted	July 16, 2019	If No, Reason	
Purpose of Application			<u>-</u>	tewaters associated with the production of

#### **Summary of Review**

Act 14 - Proof of Notification was submitted and received.

A Part II Water Quality Management permit is not required at this time.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

- I. OTHER REQUIREMENTS:
  - A. Right of Way
  - B. Solids Handling
  - C. NPDES Permit Supersedes WQM Permits
  - D. Modification of Revocation of Permit for changes to BAT or BCT

#### SPECIAL CONDITIONS:

II. N/A

There are no open violations in efacts associated with the subject Client ID (330475) as of 10/1/2021.

Approve	Deny	Signatures	Date
Х		Stephen A. McCauley	10/1/2021
^		Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	10/1/2021
		Justin C. Dickey	10/1/2021
Х		Justin C. Dickey, P.E. / Environmental Engineer Manager	10/1/2021

Discharge, Receiving Waters a	nd Water Supply Information	n					
Outfall No. 001		Design Flow (MGD)	0.01				
Latitude 41° 00' 22.32"		Longitude	-80° 10' 23.69"				
Quad Name		Quad Code					
Wastewater Description: <u>IV</u>	V Process Effluent without EL	G					
	d Tributary to the Rock Creek (CWF)	Stream Code	N/A (trib to 34032)				
NHD Com ID 12621983	, ,	RMI	N/A (0.43)				
Drainage Area 0.44 mi <sup>2</sup>	30	Yield (cfs/mi²)	0.119				
<u> </u>		Q <sub>7-10</sub> Basis	calculated				
Florestion (ft)		Slope (ft/ft)	0.0439				
Mataul - IN-		Chapter 93 Class.	CWF				
		Existing Use Qualifier	-				
		Exceptions to Criteria	-				
	ttaining Llag(a)						
Cause(s) of Impairment -	3 ( /						
Source(s) of Impairment -							
TMDL Status -		Maria					
<del></del>							
Background/Ambient Data	Da	ta Source					
pH (SU)	<u> </u>						
Temperature (°C)	<u>-</u>						
Hardness (mg/L)	<u>-</u>						
Other:	<u>-</u> _						
Nearest Downstream Public W	/ater Supply Intake Pe	nnsylvania American Water	Company - Ellwood City				
PWS Waters Connoquen	essing Creek	Flow at Intake (cfs)	27.6				
PWS RMI 0.2		Distance from Outfall (mi)	20.6				

## **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.

Narrative: This Fact Sheet details the determination of draft NPDES permit limits for an existing discharge of 0.01 MGD of treated Industrial Waste from an imitation cheese manufacturing facility in Scott Township, Lawrence County.

Treatment permitted under WQM Permit 3704201 consists of: A grinder pump station, a dual train sequential batch reactor, and UV light disinfection.

# NPDES Permit Fact Sheet Whitehall Specialties

This facility is currently collecting its sanitation/clean-in-place process wastewaters, sanitary wastewaters, boiler blowdown, and water softener regeneration in a holding tank which is pumped and hauled off site daily.

#### 1. Streamflow

The  $Q_{7-10}$  low flow was determined by calculating the yieldrate of the nearest downstream gage station:

Slippery Rock Creek at Wurtemburg, PA:  $Q_{7-10}$ : 47.5 cfs USGS Streamstats USGS Gage no. 03106500 (1971-2008) Drainage Area: 398 sq. mi. USGS Streamstats

Yield Rate: <u>0.119</u> cfsm (calculated)

The  $Q_{7-10}$  low flow for the receiving stream at Outfall 001 was determined by using the calculated yieldrate above and the Drainage Area.

Unnamed Tributary to the Slippery Yieldrate: <u>0.119</u> cfsm from above

Rock Creek at Outfall 001: Drainage Area: 0.44 sq. mi. USGS Streamstats

% of stream allocated: 100% Basis: No nearby discharges

 $Q_{7-10}$ : <u>0.052</u> cfs calculated

2. Wasteflow: Outfall 001

Permitted discharge flow: 0.01 MGD = 0.015 cfs

Average discharge flow: N/A MGD = N/A cfs (For IW discharges, the flow to use in modeling

is the average flow during production or

operation - since there has not been a discharge in some time, the permitted flow will be retained)

in some time, the permitted flow will be retained)

Runoff flow period: 12 hours Basis: Runoff flow set in previous NPDES Permits

24 hour flow = 0.01 MGD x 24/12 = 0.02 MGD = 0.03 cfs

The calculated stream flow is greater than 3 parts to the discharge flow. In accordance with the SOP, since this is an existing discharge, and there is more than 3 parts stream flow (Q7-10) to 1 part effluent (design flow), no treatment requirements will be required from document number 391-2000-014, titled, "Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers", dated April 12, 2008.

Flow will be required to be monitored as authorized under Chapter 92a.61, and as recommended in the SOP.

#### 3. Parameters:

The following parameters were evaluated: pH, Total Suspended Solids, Fecal Coliform, Phosphorus, NH<sub>3</sub>-N, CBOD<sub>5</sub>, Dissolved Oxygen, and Total Residual Chlorine.

a. <u>pH</u>

Between 6.0 and 9.0 at all times

Basis: Application of Chapter 95.2 technology-based limits. The measurement frequency was

<u>previously set to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations"</u>

(362-0400-001), and will be retained.

b. Total Suspended Solids

Basis: The previous mass loading limitations for TSS were based on federal natural cheese

making effluent standards. Since there has not been a discharge in recent years to

## recalculate the loading, the previous limitations will be retained.

C.	Fecal Coliform				
	05/01 - 09/30:	200/100ml 1,000/100ml	(monthly avera	-	ic mean)
	10/01 - 04/30:	2,000/100ml 10,000/100ml	(monthly avera	ige geometr	ric mean)
	Basis:	Application of Ch	napter 92a47 ted	chnology-ba	ased limits
d.	Total Phosphorus	<u>s</u>			
	☐ Li	mit necessary due	e to:		
		_	lake, pond, or in	mpoundmer	nt
	⊠ Li	mit not necessary			
	Ва				vious monitoring for Total Phosphorus will P, based on Chapter 92a.61.
e.	Total Nitrogen				
	The previous mor 92a.61.	nitoring for Total N	litrogen will be r	etained in a	ccordance with the SOP, based on Chapter
f.	NO <sub>2</sub> -NO <sub>3</sub> , Fluorid	e, Phenolics, Sulfa	ates, Chlorides,	and TDS	
	Nearest Downstr	eam potable wate	r supply (PWS):	PA Amer	rican Water Company - Ellwood City
	Distance do	wnstream from the	point of discha	rge: <u>20.6</u>	miles (approximate)
		mits necessary ts needed			
	Ba	asis: <u>Significant o</u>	dilution available	<u>9</u>	
g.	Ammonia-Nitroge	en (NH <sub>3</sub> -N)			
	Median dis	scharge pH to be υ	ısed: <u>7.5</u>	Standard	Units (S.U.)
				Basis:	Default value used in the absence of data
	С	Discharge tempera	ture: <u>25°C</u>	(default va	alue used in the absence of data)
	Median	stream pH to be υ	ısed: <u>7.0</u>	Standard	Units (S.U.)
				Basis:	Default value used in the absence of data
		Stream Tempera	ture: <u>20°C</u>	(default va	alue used for CWF modeling)
	Background	d NH₃-N concentra	ation: <u>0.1</u>	mg/l	

Basis: <u>Default value.</u>

Calculated Summer NH3-N limits: 25.0 mg/l (monthly average)

> 50.0 mg/l (instantaneous maximum)

Calculated Winter NH<sub>3</sub>-N limits: 25.0 mg/l (monthly average)

> 50.0 mg/l (instantaneous maximum)

WQ modeling resulted in the NH3-N limits above (see Attachment 2), which are the same as Result:

the previous permit. The winter limits are calculated as three times the summer limits, but since the summer limits are technology-based, the winter limits will also be technologybased. The previous permit did not require any monitoring or limitations for NH3-N. Per the SOP, and to collect discharge data on NH3-N from this facility (if/when it discharges),

monitoring for NH3-N will be added to this renewal.

#### h. CBOD<sub>5</sub>

Median discharge pH to be used: 7.5 Standard Units (S.U.)

Basis: Default value used in the absence of data

Discharge temperature: 25°C (default value used in the absence of data)

Median stream pH to be used: 7.0 Standard Units (S.U.)

Basis: Default value used in the absence of data

20°C Stream Temperature: (default value used for CWF modeling)

Background BOD concentration: 2.0 mg/l

> Basis: Default value

Calculated CBOD5 Summer limits: 25.0 mg/l (monthly average)

> 50.0 mg/l (instantaneous maximum)

Calculated CBOD5 Winter limits: 25.0 mg/l (monthly average)

> mg/l (instantaneous maximum) 50.0

Result: WQ modeling resulted in the CBOB5 limits above (see Attachment 2), which are the same as the

previous permit. The winter limits are calculated as three times the summer limits, but since the summer limits are technology-based, the winter limits will also be technology-based.

The previous mass loading limitations are based on federal natural cheese making effluent standards. Since there has not been a discharge in recent years to recalculate the loading, the previous limitations will be retained.

#### i. Dissolved Oxygen (DO)

	3.0	mg/l	- minimum required due to discharge going to a drainage swale or ditch.
$\boxtimes$	<u>4.0</u>	mg/l	- minimum desired in effluent to protect all aquatic life.
	<u>5.0</u>	mg/l	- desired in effluent for Warm Water / Trout-Stocked Fisheries.
	6.0	mg/l	- desired in effluent for Cold Water Fisheries.
	<u>7.0</u>	mg/l	- required due to discharge going to a High Quality / Exceptional Value stream

The Dissolved Oxygen minimum of 4.0 mg/l will be retained with this renewal. The Discussion:

technology-based minimum is recommended by the WQ Model (see Attachment 2) and the

SOP based on Chapter 93.7, under the authority of Chapter 92a.61.

The measurement frequency was previously set to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001), and will be retained.

j.	Total R	esidual Chlorine (TRC)
	$\boxtimes$	No limit necessary
		TRC limits: mg/l (monthly average)
		mg/l (instantaneous maximum)
	Basis:	TRC limits are not required with this renewal. Monitoring for Ultraviolet (UV) intensity will be retained. The measurement frequency was increased from 1/week to 1/day as recommended in the SOP, based on Table 6-3 in the "Technical Guidance for the Development and Specification of Effluent Limitations" (362-0400-001).

## 4. Antibacksliding

Since all the permit limits in this renewal are the same or more restrictive than the previous NPDES Permit, anti-backsliding is not applicable.

#### 5. Attachment List:

Attachment 1 - WQ Modeling Printouts - Dry Reach
Attachment 2 - WQ Modeling Printouts - Perennial Reach

(The Attachments above can be found at the end of this document)

### **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 Re	quirements					
Parameter	Mass Units	(lbs/day) <sup>(1)</sup>		Concentrat	ions (mg/L)		Minimum <sup>(2)</sup>	Required
Farameter	Average Monthly	Daily Maximum	Minimum	Average Monthly	Daily Maximum	Instant. Maximum	Measurement Frequency	Sample Type
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/day	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	Report Inst Min	XXX	XXX	XXX	1/day	Grab
CBOD5	2.7	5.3	XXX	Report	Report	80	2/month	24-Hr Composite
TSS	2.8	4.6	XXX	Report	Report	85	2/month	24-Hr Composite
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
UV Intensity (μw/cm²)	XXX	XXX	XXX	Report	XXX	XXX	1/day	Measured
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite

Samples taken at the following location: <u>Outfall 001, after ultraviolet (UV) light disinifection.</u>

Flow is monitor only based on Chapter 92a.61. The limits for pH, CBOD5, and Total Suspended Solids are water quality-based on 40 CFR 405.62(b). The limits for Dissolved Oxygen are technology-based on Chapter 93.7. The limits for CBOD5 and Total Suspended Solids, are based on 40 CFR 405.62(b). The limits for Fecal Coliforms are technology-based on Chapter 92a.47. Monitoring for Total Nitrogen, Ammonia-Nitrogen, and Total Phosphorus is based on Chapter 92a.61.

## Attachment 1

## WQM 7.0 D.O.Simulation (Dry Reach)

SWP Basin St	ream Code			Stream Name	
20C	34032		SLIP	PERY ROCK CREI	EK
<u>RMI</u> 0.500	Total Discharge	E-146	<u>) Ana</u>	lysis Temperature (	<u>Analysis pH</u> 7.475
Reach Width (ft)	Reach De			Reach WDRatio	Reach Velocity (fps)
2.017	0.26			7.581	0.030
Reach CBOD5 (mg/L)	Reach Kc (		<u>R</u>	each NH3-N (mg/L)	
24.36	1.49 Reach Kr (			24.31 Kr Equation	1.018 Reach DO Goal (mg/L)
Reach DO (mg/L) 3.945	26.71	C 144		Owens	2
Reach Travel Time (davs)					_
1.030	TravTime	Subreach CBOD5	n Results NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.103	20.11	21.89	2.00	
	0.206	16.60	19.71	2.00	
	0.309	13.70	17.75	2.00	
	0.412	11.31	15.98	2.00	
	0.515	9.33	14.39	2.00	
	0.618	7.70	12.96	2.00	
	0.721	6.36	11.67	2.00	
	0.824	5.25	10.51	2.00	
	0.927	4.33	9.46	2.00	
	1.030	3.58	8.52	2.00	

Use values as inputs in Perennial Reach Model.

# 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	<b>✓</b>
D.O. Saturation	90.00%	Use Balanced Technology	✓
D.O. Goal	2		

						ut Dut	u 11Q1	11.1.19						
	SWP Basin	Strea Cod		Str	eam Name		RMI		vation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PW Withd (m	Irawal	Appl FC
	20C	340	032 SLIPF	ERY RO	CK CREEK		0.5	00	1180.00	0.44	0.00000	)	0.00	<b>V</b>
<del>.</del>					St	tream Da	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depth	Ten	<u>Tributary</u> np pH	Ter	<u>Strear</u> mp	<u>n</u> pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	;)	(°0	C)		
Q7-10 Q1-10 Q30-10	0.001	0.00 0.00 0.00	0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.0	00 2	0.00 7.	00	0.00	0.00	
					D	ischarge	Data						]	
			Name	Pe	rmit Numbe	Disc	Permitt Disc Flow (mgd	Dis Flo	c Res	Diserve Ter actor (°0	np	)isc pH		
		White	ehall - Dry	PA	0239283a	0.010	0.000	0.0	0000	0.000	25.00	7.50		
					P	arameter	Data							
				Paramete	r Name			Trib Conc	Stream Conc	Fate Coef				
					a aamaalii	(n	ng/L) (r	mg/L)	(mg/L)	(1/days)				
	-		CBOD5				25.00	2.00	0.00	1.50				
			Dissolved	Oxygen			4.00	2.00	0.00	0.00				
			NH3-N				25.00	0.00	0.00	0.70				

	SWP Basin	Strea Cod		Stre	eam Name		RMI	E	levation (ft)	Drainage Area (sq mi)	Slop (ft/f	Wit	⊃WS hdrawal mgd)	Apply FC
	20C	340	32 SLIPP	ERY RO	CK CREEK		0.0	00	1064.00	0.5	59 0.00	0000	0.00	<b>✓</b>
					St	ream Dat	a							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Dept		<u>Tributary</u> np p	Н	<u>Stre</u> Temp	<u>am</u> pH	
Jona.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	<b>;</b> )		(°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	0.0	0.00	0.	.00 2	0.00	7.00	0.00	0.00	
					Di	scharge	Data							
			Name	Per	rmit Number	Disc	Permitt Disc Flow (mgd	Di Fi	isc Res	serve T actor	Disc emp (°C)	Disc pH		
		1				0.000	0.000	0 0	.0000	0.000	25.00	7.00		
					Pa	arameter	Data							
			)	Paramete	r Name	С	onc (	Trib Conc	Stream Conc	Fate Coef				
	_					(m	ng/L) (r	ng/L)	(mg/L)	(1/days)				
			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

	SWP Basin Stream Code					Stream Name								
RMI		20C	3-	34032		SLIPPERY ROCK CREEK								
	Flow V	PWS With	Net Stream Flow	Disc Analysis Flow	10	Depth	Width	W/D Ratio	Velocity	Trav Time	Analysis Temp	Analysis pH		
	(cfs)	(cfs)	(cfs)	(cfs)	(ft/ft)	(ft)	(ft)		(fps)	(days)	(°C)			
Q7-1	0 Flow													
0.500	0.00	0.00	0.00	NA	0.04394	.266	2.02	7.58	0.03	1.030	24.86	7.47		
Q1-1	0 Flow													
0.500	0.00	0.00	0.00	NA	0.04394	NA	NA	NA	0.00	0.000	0.00	0.00		
Q30-	10 Flow	(												
0.500	0.00	0.00	0.00	NA	0.04394	NA	NA	NA	0.00	0.000	0.00	0.00		

#### Attachment 2

## WQM 7.0 Effluent Limits (Perennial Reach)

		Stream Code 34032		Stream Name SLIPPERY ROCK CREEK						
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)			
14.700	Whitehall - Wet	PA0239283b	0.010	CBOD5	3.58		-			
				NH3-N	8.52	17.04				
				Dissolved Oxygen			2			

Perennial Reach Model outputs are the same as the Dry Reach Model inputs, so the following values are protective:

CBOD5 = 25.0 mg/l

NH3-N = 25.0 mg/l

DO = 4.0 mg/l

## WQM 7.0 D.O.Simulation

SWP Basin St	ream Code			Stream Name	
20C	34032		SLIP	PERY ROCK CREEK	
- RMI	Total Discharge	Flow (mad	I) Ana	lysis Temperature (°C	) Analysis pH
14.700	0.010	140	-	20.903	7.057
Reach Width (ft)	Reach Dep			Reach WDRatio	Reach Velocity (fps)
4.496	0.369	9		12.191	0.052
Reach CBOD5 (mg/L)	Reach Kc (	1/days)	<u>R</u>	each NH3-N (mg/L)	Reach Kn (1/days)
2.29	0.085	5		1.54	0.750
Reach DO (mg/L)	Reach Kr (			Kr Equation	Reach DO Goal (mg/L)
7.116	19.27	6		6	
Reach Travel Time (days)		Subreach	Reculte		
1.502	Tra∨Time	CBOD5	NH3-N	D.O.	
	(days)	(mg/L)	(mg/L)	(mg/L)	
	0.150	2.26	1.37	8.11	
	0.300	2.23	1.23	8.11	
	0.451	2.20	1.10	8.11	
	0.601	2.17	0.98	8.11	
	0.751	2.14	0.88	8.11	
	0.901	2.11	0.78	8.11	
	1.051	2.08	0.70	8.11	
	1.202	2.05	0.62	8.11	
	1.352	2.03	0.56	8.11	
	1.502	2.00	0.50	8.11	

# 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	6		

					GOVERNMENT OF THE		szesz neszn novechekre							
	SWP Basin			Stre	eam Name		RMI	Ele	evation (ft)	Drainage Area (sq mi)	Slo (ft/	Witl	PWS hdrawal mgd)	Appl FC
	20C	340	32 SLIPP	ERY RO	CK CREEK		14.7	00	1064.00	0.5	9 0.00	0000	0.00	<b>~</b>
					St	ream Dat	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 p	H	<u>Stre</u> Temp	<u>am</u> pH	
- Corru.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	<b>;</b> )		(°C)		
17-10 11-10 130-10	0.119	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.	00 2	20.00	7.00	0.00	0.00	
					D	ischarge	Data							
			Name	Per	rmit Numbe	Disc	Permitt Disc Flow (mgd	Di:	sc Res	serve T actor	Disc emp (°C)	Disc pH		
		White	hall - Wet	PA	0239283b	0.010	0 0.00	00 0.	0000	0.000	25.00	7.50		
					P	arameter	Data							
			1	Paramete	ır Nama			Trib Conc	Stream Conc	Fate Coef				
				i ai airiele	1 IAGILIE	(m	ng/L) (r	mg/L)	(mg/L)	(1/days)				
	-		CBOD5				3.58	2.00	0.00	1.50				
			Dissolved	Oxygen			2.00	8.24	0.00	0.00				
			NH3-N				8.52	0.00	0.00	0.70				

	SWP Basin	Strea Cod		Str	eam Name		RMI	El	evation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	Witho	VS drawal gd)	Apply FC
	20C	340	32 SLIPP	ERY RO	CK CREEK		13.4	30	1058.00	309.00	0.00000	0	0.00	<b>~</b>
					St	ream Dat	ta							
Design Cond.	LFY	Trib Flow	Stream Flow	Rch Trav Time	Rch Velocity	WD Ratio	Rch Width	Rch Depti		<u>Tributary</u> np pH	Te	<u>Strear</u> mp	<u>m</u> pH	
Cond.	(cfsm)	(cfs)	(cfs)	(days)	(fps)		(ft)	(ft)	(°C	)	(%	C)		
Q7-10 Q1-10 Q30-10	0.119	0.00 0.00 0.00	0.00 0.00 0.00	0.000 0.000 0.000	0.000	0.0	0.00	0.	.00 2	0.00 7.	00	0.00	0.00	
					Di	scharge	Data							
			Name	Pe	rmit Number	Disc	Permitt Disc Flow (mgd	Di FI	sc Res	Dis erve Ten ctor (°C	np	Disc pH		
		÷				0.000	0.000	00 0.	.0000	0.000 2	25.00	7.00		
					Pa	arameter	Data							
			1	Paramete	r Name			Trib Conc	Stream Conc	Fate Coef				
				1 200207077849-5177		(m	ng/L) (r	mg/L)	(mg/L)	(1/days)				
			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 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
20C	34032	SLIPPERY ROCK CREEK

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
14.70	0 Whitehall - Wet	13.95	17.04	13.95	17.04	0	0
инз-и (	Chronic Allocati	ons					
RMI	Chronic Allocati  Discharge Name	ons Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction

## **Dissolved Oxygen Allocations**

		CBC	DD5	<u>NH</u>	<u>NH3-N</u>		d Oxygen	Critical	Percent
RMI	Discharge Name	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Reach	Reduction
14.70	Whitehall - Wet	3.58	3.58	8.52	8.52	2	2	0	0

# WQM 7.0 Hydrodynamic Outputs

	SW	P Basin	Strea	m Code		Stream Name							
		20C	3-	4032			SLIPF	ERY RO	CK CRE	EK			
RMI	Stream Flow	PWS With	Net Stream Flow	Disc Analysis Flow	*31	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												
14.700	0.07	0.00	0.07	.0155	0.00089	.369	4.5	12.19	0.05	1.502	20.90	7.06	
Q1-1	0 Flow												
14.700	0.04	0.00	0.04	.0155	0.00089	NA	NA	NA	0.04	1.827	21.28	7.08	
Q30-	10 Flow	,											
14.700	0.10	0.00	0.10	.0155	0.00089	NA	NA	NA	0.06	1.300	20.70	7.04	