pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0232441**
Facility Type	**Industrial**	APS ID	**980567**
Major / Minor	**Minor**	Authorization ID	**1251347**

NPDES PERMIT FACT SHEET INDIVIDUAL INDUSTRIAL WASTE (IW) AND IW STORMWATER

Applicant and Facility Information

Applicant Name	**Cedar Springs Trout Hatchery**	Facility Name	**Cedar Springs Trout Hatchery**
Applicant Address	207 Trout Lane	Facility Address	207 Trout Lane
	Mill Hall, PA 17751-8940		Mill Hall, PA 17751-8940
Applicant Contact	James Tomalonis	Facility Contact	
Applicant Phone	(570) 726-3737	Facility Phone	
Client ID	119495	Site ID	774151
SIC Code	0273	Municipality	Porter Township
SIC Description	Agriculture - Aniimal Aquaculture	County	Clinton
Date Application Received	November 2, 2018	EPA Waived?	Yes
Date Application Accepted	November 6, 2018	If No, Reason	

Purpose of Application: Renewal of existing NPDES permit

Summary of Review

The above permittee has submitted an individual NPDES renewal application for the discharge of industrial wastewater from 4 existing outfalls at the Cedar Springs Trout Hatchery located in Porter Township, Clinton County. All discharges go to Cedar Run or Cedar Spring (a tributary to Cedar Run), classified as an High Quality-Cold Water Fishes (HQ-CWF) stream according to the Department's Chapter 93 regulations. The facility is unable to use the Department's recently developed general permit (PAG-11) for CAAP (Concentrated Aquatic Animal Production) facilities since the receiving stream is classified as high quality.

The hatchery is divided into four different locations that span approximately a 1.75 mile stretch of Cedar Run and Cedar Springs. Each of the four locations has a discharge. There is a map within the application that shows the various locations of the hatchery operations. See the below report for the outfall characteristics and a determination of effluent limitations. Unless otherwise specified, all applicable Department SOPs were followed during the review of the application.

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
		Chad A. Fabian / Project Manager	October 30, 2019
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001 (Main Hatchery)	Design Flow (MGD)	2.16
Latitude	41º 3' 6.63"	Longitude	-77º 31' 9.82"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Aquaculture Discharge from fish hatchery		
Receiving Waters	Unnamed Tributary to Cedar Run (Cedar Springs)	Stream Code	22448
NHD Com ID	67176770	RMI	0.5100
Drainage Area	n/a (Spring)	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	0.1	Q_{7-10} Basis	BPJ
Elevation (ft)	736	Slope (ft/ft)	n/a (Spring)
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	HQ-CWF, MF	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	None		
Source(s) of Impairment	None		
TMDL Status	None	Name	n/a
Nearest Downstream Public Water Supply Intake	Near Milton, PA approximately 75 miles downstream on W. Branch Susquehanna River.		

Changes Since Last Permit Issuance: None
Other Comments: The stream is intermittent prior to a spring which supplies water to the raceways at the above hatchery location. Therefore, for modeling purposes, the above $Q_{7,10}$ was used.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002 (Lamey's Outfall)	Design Flow (MGD)	2.88
Latitude	41° 3' 20.40"	Longitude	77° 30' 55.67"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Fish hatchery wastewater		
Receiving Waters	Unnamed Tributary to Cedar Run (Cedar Springs)	Stream Code	22448
NHD Com ID	67176770	RMI	0.1600
Drainage Area	3.6	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	2.02	Q_{7-10} Basis	USGS Streamstats
Elevation (ft)	700	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	HQ-CWF, MF	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	none	Name	
Nearest Downstream Public Water Supply Intake	Near Milton, PA approximately 75 miles downstream on W. Branch Susquehanna River.		

Changes Since Last Permit Issuance: None

Discharge, Receiving Waters and Water Supply Information

Outfall No.	003 (Fox Hollow)	Design Flow (MGD)	2.16
Latitude	41° 3' 36.37"	Longitude	77° 30' 53.05"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Fish hatchery wastewater		
Receiving Waters	Cedar Run	Stream Code	22442
NHD Com ID	67176514	RMI	2.7
Drainage Area	12	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	4.95	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	685	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	Same	Existing Use Qualifier	n/a
Exceptions to Use	none	Exceptions to Criteria	none
Assessment Status	n/a		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	None	Name	n/a
Nearest Downstream Public Water Supply Intake	Near Milton, PA approximately 75 miles downstream on W. Branch Susquehanna River.		

Changes Since Last Permit Issuance: None

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	004 (Strouses)	Design Flow (MGD)	4.46
Latitude	41° 4' 1.75"	Longitude	77° 30' 22.85"
Quad Name	Beech Creek	Quad Code	1025
Wastewater Description:	Fish hatchery wastewater		
Receiving Waters	Cedar Run	Stream Code	22442
NHD Com ID	67176362	RMI	2.0400
Drainage Area	12.8	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	5.09	Q_{7-10} Basis	USGS Streamstats
Elevation (ft)	660	Slope (ft/ft)	n/a
Watershed No.	9-C	Chapter 93 Class.	HQ-CWF, MF
Existing Use	Same	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	none
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	n/a		
Source(s) of Impairment	n/a		
TMDL Status	none	Name	n/a
Nearest Downstream Public Water Supply Intake	Near Milton, PA approximately 75 miles downstream on W. Branch Susquehanna River.		

Changes Since Last Permit Issuance: None

Compliance History	
Summary of DMRs:	The facility utilizes the eDMR system. A review of the past 24 months of results show that no effluent violations have occurred.
Summary of Inspections:	The last inspection was performed by John Springer (Water Quality Specialist, DEP) on 2/8/2019. No violations were found during the inspection. No impacts on the receiving stream were observed during the inspection.

Water Quality-Based Limitations

The application requires sampling for parameters in pollutant group 1 of the respective renewal application. Therefore, a "Reasonable Potential Analysis" was not performed since no toxics are required to be sampled nor are any introduced at the facility. Additionally, WQM modeling was not performed based on non-detect sampling results for NH_3-N (0.56 mg/l detection limit) and BOD_5 (3.0 mg/l detection limit).

Temperature

In accordance with the *Implementation Guidance Temperature Criteria* (DEP ID: 391-2000-017), if the discharge may involve thermally-elevated cooling or process waters, effluent limits for temperature (ºF) or heat load (million BTUs/day) may be required. This also applies to any source where the Department of Environmental Protection (DEP) determines that temperature limits are necessary to achieve water quality standards. However, given that this facility does not contain

any process where heat or heat wastes are intentionally introduced, no effluent limits or monitoring for temperature will be required at this time.

Technology Based Effluent Limitations

Per the Department's SOP for establishing effluent limitations for individual industrial permits, the limits and monitoring requirements contained in the PAG-11 General Permit for aquaculture discharges should be considered applicable standards for use in individual aquaculture NPDES permits.

The parameters and monitoring frequencies for the respective PAG-11 are as follows:

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass	Concentrations			Minimum (1) Measurement Frequency	Required Sample Type
	Average Monthly	Minimum	Maximum Daily	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	1/week	Estimated (4)
BOD_5 (mg/l) (2)	XXX	XXX	10	XXX	1/quarter	Grab
Total Suspended Solids (mg/l) (2)	XXX	XXX	20	XXX	1/quarter	Grab
Total Nitrogen (mg/l) (2), (3)	XXX	XXX	20	XXX	1/quarter	Grab
Ammonia-Nitrogen (mg/l)	XXX	XXX	Report	XXX	1/quarter	Grab
Total Phosphorus (mg/l)	XXX	XXX	Report	XXX	1/quarter	Grab
pH (S.U.)	XXX	6.0	XXX	9.0	1/week	Grab
Dissolved Oxygen (mg/l)	XXX	6.0	XXX	XXX	1/week	Grab

Footnotes

(1) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.

(2) For BOD_5, Total Suspended Solids and Total Nitrogen, the specified effluent limitations are "net" limitations. The permittee shall monitor and report influent and effluent results for these parameters and subtract influent concentrations from effluent concentrations in order to demonstrate compliance.

(3) Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrite-Nitrogen (NO_2-N) and Nitrate-Nitrogen (NO_3-N) concentrations in the same sample.

(4) To estimate effluent flow rate, use any accurate measurement technique based on a technical evaluation of the sources contributing to the discharge. The use of a flow meter or similar technology to measure flow rate is preferred.

Anti-Backsliding

No limitation established in the previous permit has been relaxed or removed within this permit.

Existing NPDES Permit Limitations and Monitoring Frequencies

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass	Concentrations				
	Average Monthly	Minimum	Maximum Daily	Instant Max	Minimum (1) Measurement Frequency	Required Sample Type
Flow (MGD)	Report	XXX	XXX	XXX	1/month	Estimated (4)
BOD_5 (mg/l) (2)	XXX	XXX	10	XXX	1/year	Grab
Total Suspended Solids (mg/l) (2)	XXX	XXX	20	XXX	1/quarter	Grab
Total Nitrogen (mg/l) (2), (3)	XXX	XXX	20	XXX	1/year	Grab
Ammonia-Nitrogen (mg/l)	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus (mg/l)	XXX	XXX	Report	XXX	1/quarter	Grab
pH (S.U.)	XXX	6.0	XXX	9.0	1/month	Grab
Dissolved Oxygen (mg/l)	XXX	6.0	XXX	XXX	1/month	Grab

Best Professional Judgement (BPJ)

Within the respective NDPES renewal application, the applicant requested less frequent monitoring than the above existing frequencies. Footnote B.2 on page 7 of the Department's PAG-11 for Aquatic Animal Production Facilities states the following:

"For parameters in Part A I.A that are subject to weekly monitoring, the permittee may reduce monitoring to 1/month (once per month) following two consecutive years of monitoring that reveals no violations of effluent limitations. For parameters in Part A. I.A that are subject to quarterly monitoring, the permittee may reduce monitoring to 1/6 months (once every 6 months) following two consecutive years of monitoring that reveals no violations of effluent limitations."

Since no effluent violations have occurred in the past 2 consecutive years, it is recommended that all of the existing quarterly sampling frequencies be changed to 1/6 months, which is consistent with the above footnote. It is recommended all other existing sampling frequencies be maintained.

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.

Outfalls 001-004, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/month	Grab
DO	XXX	XXX	6.0 Daily Min	XXX	XXX	XXX	1/month	Grab
BOD_5 (2)	XXX	XXX	XXX	10	XXX	XXX	1/year	Grab
TSS (2)	XXX	XXX	XXX	20.0	XXX	XXX	1/6 months	Grab
Total Nitrogen (2), (3)	XXX	XXX	XXX	20.0	XXX	XXX	1/year	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/6 months	Grab

Compliance Sampling Location: Outfalls 001-004.

Other Comments:

-The applicable footnotes in the above table can be found on page 5 of this fact sheet.
-Net effluent limitations may be used for BOD5, TSS, and Total Nitrogen. Net effluent results are not a requirement. Whether or not the permittee performs influent sampling to determine net effluent results is at the sole discretion of the permittee.