pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northcentral Regional Office
CLEAN WATER PROGRAM

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

Application Type	**Renewal**	Application No.	**PA0111945**
Facility Type	**Industrial**	APS ID	**1027814**
Major / Minor	**Minor**	Authorization ID	**1335017**

Applicant and Facility Information

Applicant Name	**Ward Manufacturing LLC**	Facility Name	**Ward Manufacturing Blossburg Foundry**
Applicant Address	117 Gulick Street Blossburg, PA 16912-1001	Facility Address	105 Tabor Street Blossburg, PA 16912
Applicant Contact	Trisha Chase	Facility Contact	Trisha Chase
Applicant Phone	(570) 638-2131	Facility Phone	(570) 638-2131
Client ID	262070	Site ID	244770
SIC Code	3321	Municipality	Blossburg Borough
SIC Description	Manufacturing - Gray And Ductile Iron Foundries	County	Tioga
Date Application Received	November 24, 2020	EPA Waived?	Yes
Date Application Accepted	December 2, 2020	If No, Reason	

Purpose of Application: Renewal of existing NPDES permit.

Summary of Review

The above applicant has submitted a renewal application for various discharges of stormwater and industrial wastewater (non-contact cooling water) from their gray and malleable iron foundry operations in Blossburg Borough, Tioga County. The operations consist of 3 plants, all of which are permitted as one site since they are contiguous and adjacent to each other. The facilities have an SIC code Group 33 (Primary Metals Industry Facilities), subject to the stormwater requirements of the Appendix B of the Department's General NPDES Permit for Discharges of Stormwater Associated with Industrial Facilities. The facility has an updated PPC Plan. The discharges are to Johnson Creek and the Tioga River. The once through non-contact cooling water consists of a combination of intake water from Johnson Creek, well water, and public water. No chemical additives are used in the non-contact cooling process. A more complete description of all outfalls can be found within this fact sheet.

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		*Chad A. Fabian* Chad A. Fabian / Project Manager	November 17, 2021
X		*Nicholas W. Hartranft, P.E.* Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	November 23, 2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	005, 006, 007, 010	Design Flow (MGD)	n/a (stormwater)
Quad Name	Blossburg	Quad Code	2-15.1
Wastewater Description:	Stormwater		
Receiving Waters	Johnson Creek	Stream Code	31443
NHD Com ID	57353265	RMI	<0.5
Drainage Area	n/a	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	1.09	Q_{7-10} Basis	Previously determined from stream delineation
Elevation (ft)	1320	Slope (ft/ft)	n/a
Watershed No.	4-A	Chapter 93 Class.	CWF-MF
Existing Use	CWF-MF	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	none
Assessment Status	Impaired		
Cause(s) of Impairment	Metals, pH		
Source(s) of Impairment	Abandoned Mine Drainage, Abandoned Mine Drainage		
TMDL Status	Final	Name	Tioga River
Nearest Downstream Public Water Supply Intake	New York state border approximately 25 miles downstream on the Tioga River		

Changes Since Last Permit Issuance: Stormwater outfall 004 has been eliminated since it does not function as a discharge point anymore. Water that previously discharged from 004 now goes to 301.

Other Comments:

-The TMDL is for metals and pH associated with Acid Mine Drainage (AMD). Page 7 of the respective TMDL specifically excludes the discharges at the facility from a Waste Load Allocation (WLA) since they do not contribute to the metals and pH impairment of the watershed. However, these stormwater outfalls do have metals and pH monitoring 1/6 months.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	008, 009, 101, 201, 301	Design Flow (MGD)	008 & 009: (stormwater) 101: 1.67 MGD 201: 0.04 MGD 301: 1.71 MGD
Latitude	41º 40' 22.23"	Longitude	-77º 4' 10.66"
Quad Name	Blossburg	Quad Code	
Wastewater Description:	Outfalls 008 and 009: stormwater Outfalls 101, 201, 301: non-contact cooling water and stormwater		
Receiving Waters	Tioga River	Stream Code	30990
NHD Com ID	57353265	RMI	40
Drainage Area	n/a	Yield (cfs/mi^2)	n/a
Q_{7-10} Flow (cfs)	5.56	Q_{7-10} Basis	Previously determined using stream gage data
Elevation (ft)	1350	Slope (ft/ft)	n/a
Watershed No.	4-A	Chapter 93 Class.	CWF-MF
Existing Use	CWF-MF	Existing Use Qualifier	none
Exceptions to Use	none	Exceptions to Criteria	none
Assessment Status	Impaired		
Cause(s) of Impairment	Metals, pH		
Source(s) of Impairment	Abandoned Mine Drainage, Abandoned Mine Drainage		
TMDL Status	Final	Name	Tioga River
Nearest Downstream Public Water Supply Intake	NY State border approximately 25 miles downstream on Tioga River		

Changes Since Last Permit Issuance: None
Other Comments:

-Internal Monitoring Points (IMP) 101 and 201 are non-contact cooling water. IMP 101 consists of non-contact cooling water for Plant 1 operations consisting of heat treat furnaces, cupola, air compressors, channel furnace, and core machines. IMP 101 also has some stormwater tied into it through under pavement stormwater sewers. It would be impracticable to separate the two under the current site configuration.

The non-contact cooling water is a combination of a surface water intake from Johnson Creek, well water, and public water. Since the design capacity of the existing intake structure on Johnson Creek is less than 2 MGD, the facility is not subject to the intake requirements in 40 CFR Section 316(b) Subpart J.

-IMP 201 is for non-contact cooling water used for the Plant 2 air compressors. No stormwater is included within IMP 201 sampling.

-IMP 301 is the stormwater from a section of Plant 2 before it joins with IMP 201.

-101, 201, 301, along with stormwater from nearby public roads and a public park area flow into a 30” underground pipe that leads to the Tioga River. Therefore, no sampling is performed at the outfall location to the Tioga River since it has potential outside interference.

-Stormwater outfall 005 qualifies as a representative sampling point for the stormwater fraction of 101, providing for equivalent stormwater sampling without containing any of the non-contact cooling water from IMP 101.

- The TMDL is for metals and pH associated with Acid Mine Drainage (AMD). Page 7 of the respective TMDL specifically excludes the discharges at the facility from a Waste Load Allocation (WLA) since they do not contribute to the metals and pH impairment of the watershed. However, these stormwater outfalls do have metals and pH monitoring 1/6 months.

Compliance History	
Summary of DMRs:	A review of the eDMRs shows no effluent violations have occurred in the past 12 months. Stormwater sampling shows relatively low levels of all parameters tested.
Summary of Inspections:	The last inspection was performed via telephone on 4/3/2020. No violations were found during the records inspection.

Water Quality Based Effluent Limitations

On March 10, 2010, Jared Dressler (DEP Water Pollution Biologist 2), determined that the Tioga River qualified for a 25 PA Code §95.5 exemption from water quality standards. The Tioga River, at the point of the existing discharges, still qualifies for the respective water quality standards exemption and is not expected to improve in the upcoming permit term. Therefore, no water quality limitations were analyzed for the non-contact cooling water discharges to the Tioga River.

A temperature monitoring requirement in the existing permit will remain to make sure the public safety temperature of 110ºF is maintained at areas assessable to the public.

The stormwater discharges are subject to the Appendix B requirements of the Department's General NPDES Permit for Discharges of Stormwater Associated with Industrial Facilities including the following Appendix B effluent parameters and benchmark:

Parameter	Monitoring Requirements		Benchmark Values
	Minimum Measurement Frequency	Sample Type	
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	100
Total Suspended Solids (TSS) (mg/L)	1 / 6 months	Grab	X
Total Aluminum (mg/L)	1 / 6 months	Grab	X
Total Zinc (mg/L)	1 / 6 months	Grab	X
Total Copper (mg/L)	1 / 6 months	Grab	X
Total Iron (mg/L)	1 / 6 months	Grab	X

Technology Based Effluent Limitations

None.

Best Professional Judgement (BPJ) Considerations

The Department recommends removing the following existing parameters from all stormwater discharges at the facility which are no longer a part of Appendix B of the Department's General NPDES Permit for Discharges Associated with Industrial Facilities: Chemical Oxygen Demand (COD), Oil and Grease, Total Arsenic, Total Cadmium, and Total Chromium. The Department recommends maintaining the existing pH monitoring requirements for all discharges to demonstrate that the outfalls are not a contributing factor to the existing pH impairment of the Tioga River.

Proposed Effluent Limitations and Monitoring Requirements

Outfall 005, 006, 007, 010 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	Average Monthly	Daily Maximum	Instant. Maximum		
pH	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

The above outfalls are to Johnson Creek. The above monitoring requirements have been updated to represent the existing aforementioned Appendix B parameters of the Department's General Permit for Discharges Associated with Industrial Facilities. The above existing pH monitoring will be maintained to demonstrate that the outfalls are not a contributing factor to the existing pH impairment of the Tioga River

Proposed Effluent Limitations and Monitoring Requirements

Outfall 008, 009, and 301 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	Average Monthly	Daily Maximum	Instant. Maximum		
pH	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

The above outfalls are to the Tioga River. The above monitoring requirements have been updated to represent the existing aforementioned Appendix B parameters of the Department's General Permit for Discharges Associated with Industrial Facilities. The above existing pH monitoring will be maintained to demonstrate that the outfalls are not a contributing factor to the existing pH impairment of the Tioga River.

Proposed Effluent Limitations and Monitoring Requirements

Outfall 101 & 201, Effective Period: Permit Effective Date through Permit Expiration Date

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD) Instream Monitoring	Report	Report	XXX	XXX	XXX	XXX	1/day	Metered
pH (S.U.) Instream Monitoring	XXX	XXX	6.0	XXX	9.0	XXX	2/month	Grab
Temperature (deg F) (ºF) Instream Monitoring	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/week	In-Situ

The above IMPs eventually discharge to the Tioga River. The above proposed sampling frequencies are the same as in the existing permit.

Part C Special Conditions

The existing Part C.V. condition will remain. The condition states “Thermal discharges may not exceed 110ºF (43.3ºC) at any point accessible to the general public.”

It is recommended the permit be drafted as described above.