

Application Type Amendment  
Facility Type Industrial  
Major / Minor Minor IW

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

Application No. PA0013463  
APS ID 1088971  
Authorization ID 1440668

**Applicant and Facility Information**

Applicant Name	<u>U.S. Steel Corporation</u>	Facility Name	<u>U.S. Steel Fairless Hills Facility</u>
Applicant Address	<u>400 Middle Drive</u> <u>Fairless Hills, PA 19030</u>	Facility Address	<u>400 Middle Drive</u> <u>Fairless Hills, PA 19030</u>
Applicant Contact	<u>Brian Lasko</u>	Facility Contact	<u>Michael Benner</u>
Applicant Phone	<u>(412) 433-5917</u>	Facility Phone	<u>(215) 736-4574</u>
Client ID	<u>80062</u>	Site ID	<u>260845</u>
SIC Code	<u>3312</u>	Municipality	<u>Falls Township</u>
SIC Description	<u>Manufacturing - Blast Furnaces And Steel Mills</u>	County	<u>Bucks</u>
Date Application Received	<u>November 16, 2022</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u></u>	If No, Reason	<u>PCBs TMDL, 316 (b)</u>
Purpose of Application	<u>Permit Modification.</u>		

**Summary of Review**

The applicant requests modification of the National Pollutant Discharge Elimination System (NPDES) permit as a results of sales of some of their assets to North Point Fairless Hill LLC, (Northpoint) , and then Northpoint which ultimately transferred some of the asset to Morrisville Municipal Authority (MMA). All dischargers are continued to discharge the wastewater thru same previously permitted outfalls into Delaware River. U. S. Steel is requesting that applicable outfalls be removed from their NPDES permit and approved per new property ownership. USS also requested to add internal monitoring Point MP 102 to their permit for the non-contact cooling water and stormwater from the U. S. Steel galvanizing operation as they are currently discharging through outfall 002, which is now part of Northpoint permit.

The current NPDES permit which was issued on November 10, 2021 approves the discharge of process wastewater, noncontact cooling water, sewage wastewater, and stormwater from the USS facility through several outfalls to Biles Creek and Delaware River Estuary (Zone 2).

The U.S. Steel-Fairless Hills (USS) began its operation in 1952 and was fully integrated steel mill. The facility has been downsized and various processes have been eliminated in the past decade. The applicant (USS) currently operates continuous galvanizing line. The active processes at the plant includes alkaline cleaning, cold forming temper mill and hot coating continuous galvanizing. USS also has a sewage treatment plant for their sewage treatment and also from leased areas and customers of USS Industrial Park.

On December 23, 2020, U. S. Steel sold the Real Estate assets and utilities including cooling water intake structures (CWIS) to NP Falls Township Industrial, LLC (Northpoint). U. S. Steel continues to own and operate the Galvanize Line and Finishing Mill Treatment Plant (FMTP). After the sale to Northpoint, majority of the water infrastructure assts were transferred to Morrisville Municipal Authority (MMA), who now owns and operates the CWIS, Sewage Treatment Plant, Terminal Treatment Plant (TTP), Potable Treatment Plant as well as water distribution systems. The Department is working with U. S. Steel, Northpoint, and MMA to separate the current NPDES permit into their own respective permits.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	11/9/2023
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	11/9/2023

### Summary of Review

#### Outfall Descriptions and Current Property Ownership

Existing Permit PA0013463 includes the following 7 outfalls, to be separated based on the current ownership

- 002 Noncontact cooling water from U. S. Steel galvanizing operation and stormwater runoff from U.S. Steel Galvanize Process area (this wastestream is monitored at MP102 of this permit), Mazza Iron & Steel, GMA, Covanta, and FMTP area – Transfer Ownership to NorthPoint, except as noted below
- 003 Process wastewater, sewage wastewater, and Fairless Energy – Transfer to MMA (Note that wastewater contributing to Outfall 003 is monitored at internal monitoring points.)
- 004 Stormwater from eastern portion of Site and discharge from stormwater basins adjacent to Air Products property & Kinder Morgan properties - Transfer Ownership to NorthPoint
- 008 Stormwater Runoff (north yard and main gate area and other non-U. S. Steel properties) - Transfer Ownership to NorthPoint
- 009 Stormwater Runoff (wire mill area) - Transfer Ownership to NorthPoint
- 010 Intake Screen Discharge Water – Transfer Ownership to MMA
- 011 (“C Well”) Intake Screen Discharge Water - Transfer Ownership to NorthPoint

Due to tidal conditions at Outfall 003, effluent monitoring is not possible and wastewater that discharges through Outfall 003 is monitored at internal monitoring points, as follows:

- 103 Treated Industrial / Process Wastewater from TTP - Transfer Ownership to MMA
- 203 Treated Sewage Wastewater from STP - Transfer Ownership to MMA
- 303 Stormwater Runoff - Transfer Ownership to NorthPoint
- 403 Treated Industrial / Process Wastewater from FMTP – discharges will be redirected to TTP and those discharges will be authorized under the MMA pretreatment Program

U.S. Steel is also proposing to add an additional Outfall 102 (Monitoring Point 102) for the non-contact cooling water from the U.S. Steel galvanizing operation, and stormwater discharges from the U S. Steel Galvanize Process Area, prior to joining the other discharges through Outfall 002. Non-contact cooling water flows are not metered but are estimated to be within range of 1.9 to 3.2 MGD. All other outfalls are requested to be removed from NPDES Permit PA0013463.

This permit modification for PA0013463 includes addition of Monitoring Point 102 and removing all other outfalls from the U.S. Steel NPDES permit. Outfalls 003, 010 and Monitoring Point MP 103, MP 203, MP 403 will be transferred to MMA and will be included in their NPDES permit PA0245300. Outfall 002, Outfall 004, Outfall 008, Outfall 009 and Outfall 011 will be transferred to NorthPoint and will be included in their NPDES permit PA0245402.

As the Monitoring Point MP 102 receives non-contact cooling water from the U. S. Steel galvanizing operation, and stormwater from the U. S. Steel Galvanize Process Area, we have included effluent limits for pH, Temperature and Oil & Grease in the NPDES permit. We have included semi-annual monitoring requirements for all the metals which are in the current NPDES permit for Outfall 002 and are based on Appendix B for Primary Metals from General Permit PAG-03 and historical sample data for those metals in the stormwater. We have added semi-annual monitoring for Total Nitrogen and Total Phosphorus and is consistent with new PAG-03 requirements. We have also included annual monitoring of wet weather PCBs to evaluate contribution of wet weather PCBs from USS operations at Outfall 002 and have included annual monitoring of dry weather PCBs. The NPDES permit includes Part C Permit condition VIII for Cooling Water Intake Structure.

#### 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-

**Summary of Review**

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 8' 26.52"</u>	Longitude	<u>-74° 43' 57.58"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Noncontact Cooling Water (NCCW), Stormwater</u>			
Receiving Waters	<u>Delaware River (WWF, MF)</u>	Stream Code	<u>00002</u>
NHD Com ID	<u>25486170</u>	RMI	<u>127.4100</u>
Drainage Area	_____	Yield (cfs/mi <sup>2</sup> )	_____
Q <sub>7-10</sub> Flow (cfs)	_____	Q <sub>7-10</sub> Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>
Background/Ambient Data		Data Source	
pH (SU)	_____	_____	
Temperature (°F)	_____	_____	
Hardness (mg/L)	_____	_____	
Other:	_____	_____	
Nearest Downstream Public Water Supply Intake			
PWS Waters	_____	Flow at Intake (cfs)	_____
PWS RMI	_____	Distance from Outfall (mi)	_____

**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 102, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	2/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	XXX	110	2/month	I-S
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Dissolved Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 102, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Nickel	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
PCBs Dry Weather Analysis (pg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
PCBs Wet Weather Analysis (pg/L)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Compliance Sampling Location: MP 102