Pennsylvania Department of Environmental Protection

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0239453**
Facility Type	**Industrial**	APS ID	**1138884**
Major / Minor	**Minor**	Authorization ID	**1529849**

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

Applicant and Facility Information

Applicant Name	**Intech Metals Inc.**	Facility Name	**Intech Metals**
Applicant Address	PO Box 506	Facility Address	7028 Ridgway Street Marys Road
	Ridgway, PA 15853-0506		Ridgway, PA 15853-6562
Applicant Contact	Keith Rogers	Facility Contact	
Applicant Phone	(814) 776-6150	Facility Phone	
Applicant Email	krogers@intechpm.com		
Client ID	5927	Site ID	456894
SIC Code	3399	Municipality	Ridgway Borough
SIC Description	Manufacturing - Primary Metal Products, Nec	County	Elk
Date Application Received	June 6, 2025	EPA Waived?	Yes
Date Application Accepted	September 24, 2025	If No, Reason	

Purpose of Application: Renewal of an NPDES Permit for the discharge of Industrial Wastewater

Summary of Review

The discharge consists of untreated non-contact cooling water and stormwater. The source water for the NCCW is from an on-site groundwater well.

The Intech Metals Facility manufactures stainless steel powdered metal parts. Facility operations include three sintering furnaces (two operating at similar temperatures and one high-temperature furnace for re-heat sintered parts), one dispatch oven (used to heat parts per customer request, with no coolant used), an evaporator, molding presses, machining, and tumbling processes.

The NCCW is used to cool the outer jackets of the two similar sintering furnaces and flows to an interior pit located inside the facility's press room. The high temperature furnace is cooled by a recycled coolant system that does not discharge, this system also cools one of the presses. The interior pit is connected to an exterior storm drain equipped with a debris collection sock. The storm drains cross under Route 120 and discharges to a roadside ditch, which is an Unnamed Tributary to Elk Creek.

Act 14 – Proof of Notification was submitted and received.

SPECTIAL CONDITIONS: NONE

There are NO open violations in WMS for the subject Client ID (5927) as of September 26, 2025.

Approve	Deny	Signatures	Date
X		Aeshah Shameseldin Aeshah Shameseldin / Project Manager	September 26, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	September 29, 2025

Summary of Review
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.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0015
Latitude	41º 25' 43.00"	Longitude	-78º 42' 43.00"
Quad Name	Ridgway	Quad Code	41078D6
Wastewater Description:	Untreated Non-Contact Cooling Water & Stormwater		
Receiving Waters	Unnamed Tributary to Elk Creek (CWF)	Stream Code	50459
NHD Com ID	102665463	RMI	2.0
Drainage Area	59.3 square miles	Yield (cfs/mi^2)	0.073
Q_{7-10} Flow (cfs)	4.32	Q_{7-10} Basis	Calculated
Elevation (ft)	1404	Slope (ft/ft)	---
Watershed No.	17-A	Chapter 93 Class.	CWF
Existing Use	---	Existing Use Qualifier	---
Exceptions to Use	---	Exceptions to Criteria	---
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status	Final	Name	Elk Creek TMDL (Elk County) 50459

Background/Ambient Data		Data Source
pH (SU)	7.0	Default
Temperature (°F)	68	Default
Hardness (mg/L)	100	Default
Other:	---	---

Nearest Downstream Public Water Supply Intake		Pennsylvania American Water Company - Clarion	
PWS Waters	Clarion River	Flow at Intake (cfs)	---
PWS RMI	33.3	Distance from Outfall (mi)	62

Comments: An inspection of the facility was conducted on February 6, 2024. The inspection report did not identify any violations.

Changes Since Last Permit Issuance: According to the report, the facility has undergone expansion and remodeling since its permit renewal in 2019, including an expansion of the warehouse space to the north and a furnace room to the east. During the renovations, the majority of interior drains were filled. However, during this inspection, one floor drain connected to the storm drain system was observed near the handwashing station.

Compliance History

DMR Data for Outfall 001 (from August 1, 2024, to July 31, 2025)

Parameter	JUL-25	JUN-25	MAY-25	APR-25	MAR-25	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24
Flow (MGD) Average Monthly	0.00158 93	0.00165 07	0.00187 69	0.00220 11	0.00183 63	0.00119 43	0.00111 34	0.00075 33	0.00129 83	0.00142 69	0.00098 78	0.00143 64
pH (S.U.) Daily Minimum	6.7	6.7	6.9	6.86	6.79	6.78	6.75	6.74	6.81	6.86	6.6	6.6
pH (S.U.) Daily Maximum	6.84	7.07	7.07	7.01	6.91	6.97	6.87	6.81	6.83	7.04	6.83	6.73

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .0015
Latitude 41º 25' 39.00" **Longitude** -78º 42' 43.00"
Wastewater Description: Untreated Non-Contact Cooling Water & Stormwater

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)

Comments: There are no ELGs apply to this facility.

Water Quality-Based Limitations

Thermal WQBELs were evaluated using the Department's "Thermal Discharge Limit Calculation Spreadsheet". The spreadsheet sets an upper temperature limit of 110°F to ensure the safety of the sampling personnel and anyone who may come into contact with the heated discharge at the point it enters the receiving water. If no more stringent WQBELs are calculated below the 110°F, the spreadsheet recommends applying an IMAX limit of 110°F.

The Thermal Analysis Spreadsheet (Attachment 1) did not recommend monitoring requirements or WQBELs for temperature. Therefore, an IMAX limit of 110°F will be included in this permit renewal.

Best Professional Judgment (BPJ) Limitations

Comments: A TMDL for Acid Mine Drainage (AMD) has been developed for the Elk Creek watershed. While the facility discharges to a segment of Elk Creek included in the TMDL, point source discharges are not addressed by the TMDL. In addition, this segment of Elk Creek is currently meeting its designated uses and was removed from Section 303 (d) list of impaired waters as noted in the 2014 Integrated Report. Therefore, monitoring for parameters associated with Acid Mine Drainage (Aluminum, Manganese, and Total Iron) will not be implemented in the permit.

Although this stream segment is currently listed as impaired for mercury, the subject facility is not expected to be a cause or source of the impairment and therefore, no monitoring for Mercury is required.

The facility's renewal application indicated that stormwater discharged through Outfall 001 meets "No Exposure" conditions. The Department's Inspection Report dated March 16,2019 confirmed that the facility meets a condition of "No Exposure". A review of the stormwater sampling results submitted with the renewal application shows that pollutants levels are well below the "No Exposure" benchmarks. As a result, no stormwater monitoring requirements will be implemented in the permit.

Table 1: No Exposure Benchmark Values

Parameter	Benchmark Values (mg/L)
pH (S.U.)	6.0 to 9.0
Total Suspended Solids (TSS)	≤ 30.0
Total Nitrogen	≤ 2.0
Total Phosphorus	≤ 1.0
Oil and Grease	≤ 5.0
Chemical Oxygen Demand (COD)	≤ 30.0
BOD5	≤ 10

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" (386-0400-001), SOPs and/or BPJ.

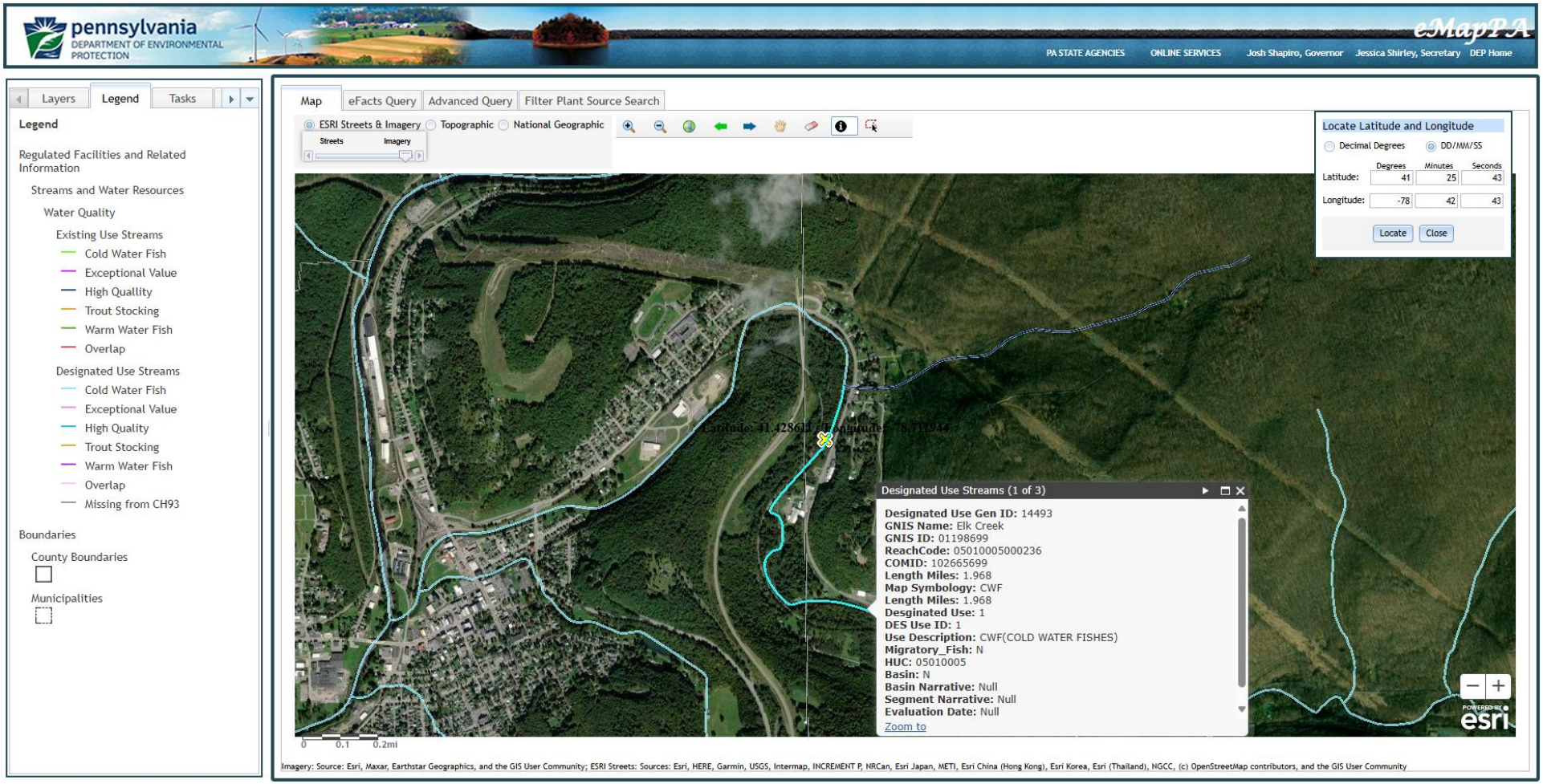
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

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	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
Temperature (ºF)	XXX	XXX	XXX	XXX	XXX	110.0	1/month	I-S

Compliance Sampling Location: at Outfall 001, Prior To Mixing with Any Other Waters.

Intech Metals – Google Earth Aerial Imagery

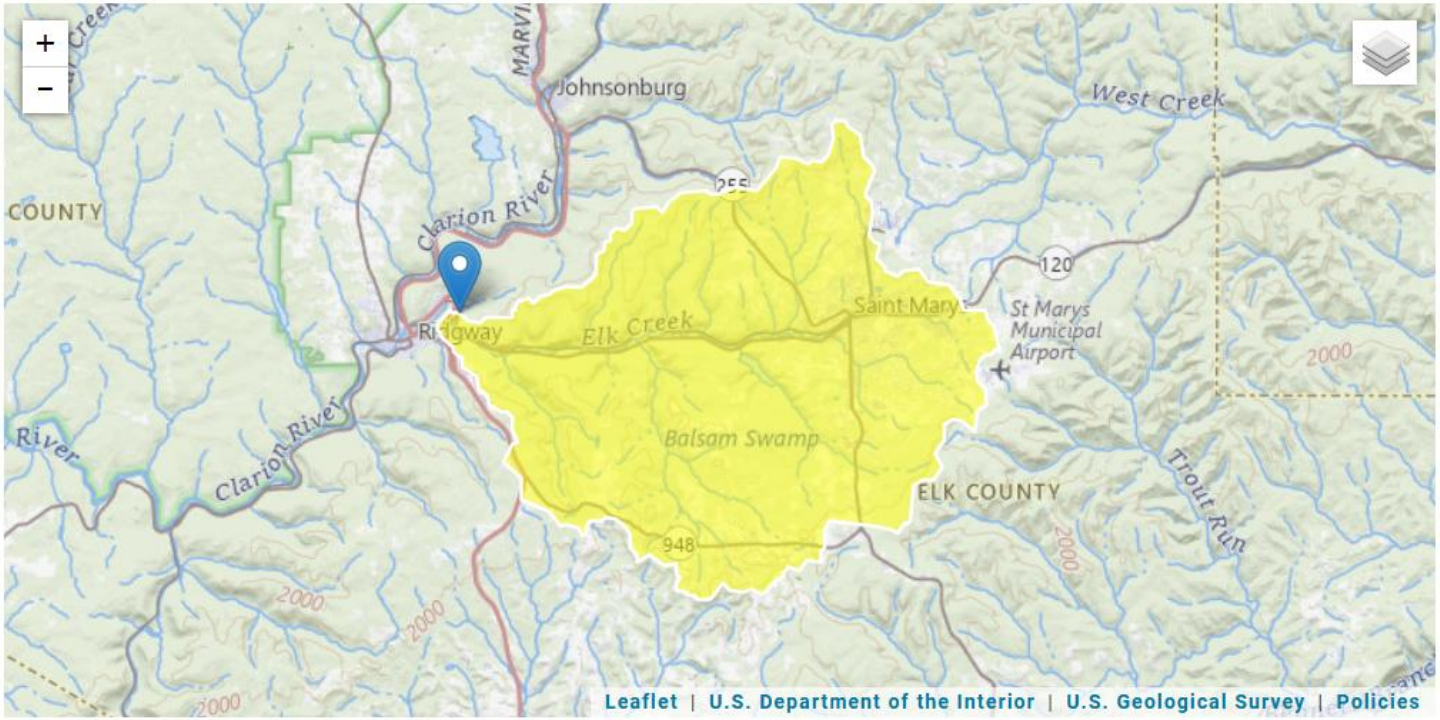
Receiving Stream & Outfall Location – eMap with Aerial Imagery



Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID:	PA
Workspace ID:	PA20250924173216723000
Clicked Point (Latitude, Longitude):	41.42864, -78.71174
Time:	2025-09-24 13:32:39 -0400



Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	59.3	square miles

Attachment 1

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Thermal Limits Spreadsheet
Version 1.0, April 2024

Instructions | *CWF Results* | RETURN TO INPUTS | PRINT TO PDF | PRINT CWF

Recommended Limits for Case 1 or Case 2

Semi-Monthly Increment	**CWF** Target Maximum Stream Temp. (°F)	**Case 1** Daily WLA (Million BTUs/day)	**Case 2** Daily WLA (°F)
Jan 1-31	38	N/A -- Case 2	110.0
Feb 1-29	38	N/A -- Case 2	110.0
Mar 1-31	42	N/A -- Case 2	110.0
Apr 1-15	48	N/A -- Case 2	110.0
Apr 16-30	53	N/A -- Case 2	110.0
May 1-15	56	N/A -- Case 2	110.0
May 16-31	60	N/A -- Case 2	110.0
Jun 1-15	64	N/A -- Case 2	110.0
Jun 16-30	68	N/A -- Case 2	110.0
Jul 1-31	72	N/A -- Case 2	110.0
Aug 1-15	71	N/A -- Case 2	110.0
Aug 16-31	71	N/A -- Case 2	110.0
Sep 1-15	67	N/A -- Case 2	110.0
Sep 16-30	61	N/A -- Case 2	110.0
Oct 1-15	56	N/A -- Case 2	110.0
Oct 16-31	52	N/A -- Case 2	110.0
Nov 1-15	47	N/A -- Case 2	110.0
Nov 16-30	42	N/A -- Case 2	110.0
Dec 1-31	40	N/A -- Case 2	110.0

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Thermal Limits Spreadsheet
Version 1.0, April 2024

Instructions | *Inputs* | CLEAR FORM | CALCULATE

Facility: **Intech Metals**

Permit No.: **PA0239453**

Stream Name: **Elk Creek**

Analyst/Engineer: **Shameseldin**

Stream Q7-10 (cfs)*: **4.3**

Outfall No.: **001**

Analysis Type*: **CWF**

Facility Flows

Semi-Monthly Increment	Intake (Stream) (MGD)*	Intake (External) (MGD)*	Consumptive Loss (MGD)*	Discharge Flow (MGD)
Jan 1-31		0.0015		0.0015
Feb 1-29		0.0015		0.0015
Mar 1-31		0.0015		0.0015
Apr 1-15		0.0015		0.0015
Apr 16-30		0.0015		0.0015
May 1-15		0.0015		0.0015
May 16-31		0.0015		0.0015
Jun 1-15		0.0015		0.0015
Jun 16-30		0.0015		0.0015
Jul 1-31		0.0015		0.0015
Aug 1-15		0.0015		0.0015
Aug 16-31		0.0015		0.0015
Sep 1-15		0.0015		0.0015
Sep 16-30		0.0015		0.0015
Oct 1-15		0.0015		0.0015
Oct 16-31		0.0015		0.0015
Nov 1-15		0.0015		0.0015
Nov 16-30		0.0015		0.0015
Dec 1-31		0.0015		0.0015

Stream Flows

Q7-10 Multipliers (Default Shown)	PMF	Seasonal Stream Flow (cfs)	Downstream Stream Flow (cfs)
3.2	1.00	13.82	13.83
3.5	1.00	15.12	15.12
7	1.00	30.24	30.24
9.3	1.00	40.18	40.18
9.3	1.00	40.18	40.18
5.1	1.00	22.03	22.03
5.1	1.00	22.03	22.03
3	1.00	12.96	12.96
3	1.00	12.96	12.96
1.7	1.00	7.34	7.35
1.4	1.00	6.05	6.05
1.4	1.00	6.05	6.05
1.1	1.00	4.75	4.75
1.1	1.00	4.75	4.75
1.2	1.00	5.18	5.19
1.2	1.00	5.18	5.19
1.6	1.00	6.91	6.91
1.6	1.00	6.91	6.91
2.4	1.00	10.37	10.37

Temperature

Ambient Stream Temperature (°F)*