

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0100889
APS ID 1066463
Authorization ID 1401405

Applicant and Facility Information

Applicant Name	<u>Erie City Water Authority Erie County</u>	Facility Name	<u>Erie City WTP</u>
Applicant Address	<u>240 W 12th Street</u> <u>Erie, PA 16501-1706</u>	Facility Address	<u>2530 West 4th Street</u> <u>Erie, PA 16505</u>
Applicant Contact	<u>Craig Palmer</u>	Facility Contact	<u>Dave Motherwell</u>
Applicant Phone	<u>(814) 870-8038</u>	Facility Phone	<u>(814) 870-8066</u>
Client ID	<u>43493</u>	Site ID	<u>262466</u>
SIC Code	<u>4941</u>	Municipality	<u>Erie City</u>
SIC Description	<u>Trans. & Utilities - Water Supply</u>	County	<u>Erie</u>
Date Application Received	<u>June 29, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of an NPDES permit for an existing discharge of industrial wastewater from a Water Treatment Plant.</u>		

Summary of Review

Act 14 Proof of Notification was received.

Facility not subject to ELGs.

There are no open violations in WMS for the subject Client ID (43493) as of 6/6/2023

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		Jordan A. Frey, E.I.T. Jordan A. Frey, E.I.T. / Project Manager	June 6, 2023
		(Vacant) / Environmental Engineer Manager	Okay to Draft JCD 4/15/2024

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>2</u>
Latitude	<u>42° 6' 56.30"</u>	Longitude	<u>-80° 8' 39.85"</u>
Quad Name	<u>Swanville</u>	Quad Code	<u>42080A2</u>
Wastewater Description: <u>IW Process Effluent without ELG</u>			
Receiving Waters	<u>Lake Erie – Presque Isle Bay</u>	Stream Code	<u>62245</u>
NHD Com ID	<u>123926163</u>	RMI	<u>0.0</u>
Drainage Area	<u>0.68</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.07</u>	Q ₇₋₁₀ Basis	<u>Default</u>
Elevation (ft)	<u>574</u>	Slope (ft/ft)	<u>---</u>
Watershed No.	<u>15_A</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u>7.0</u>	Default	<u></u>
Temperature (°F)	<u>25</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Erie Water Works</u>		
PWS Waters	<u>Lake Erie (Chestnut and West)</u>	Flow at Intake (cfs)	<u>N/A</u>
PWS RMI	<u>0.0</u>	Distance from Outfall (mi)	<u>0.0</u>

Changes Since Last Permit Issuance: None.

Other Comments:

Wastewater from drinking water treatment process is discharged to the municipal sanitary sewer. This permit is maintained in case the treatment plant is unable to receive wastewater from this facility. Discharges normally include construction/maintenance, accidental discharges, or wasting of treated drinking water, and occur only sporadically.

Water Quality Management Permit 2570203 authorizes treatment for up to 2.0 MGD of potable water filter backwash wastewater using primary settling and detention. *DEP is anticipating a WQM permit amendment application to address current operating procedures as some of the permitted facilities are not operable. DEP anticipates that the application will demonstrate compliance through proper operation of the facilities currently in operation.* JCD

The Total Residual Chlorine (TRC) limit has been retained since it was set in 1995 as a Best Available Technology (BAT) limit, and has posed no problems to date, so will continue to be retained in this permit. DEP's Toxics Management Spreadsheet (TMS) modeling recommends water quality-based sampling for Total Arsenic, Total Cadmium, Total Copper, Total Lead, Total Thallium, and Total Zinc; Total Lead has a limit recommended by TMS.

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.

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		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0	XXX	1/week	Grab
TRC	XXX	XXX	XXX	0.26	XXX	0.42	1/day	Grab
TSS	XXX	XXX	XXX	30.0	60.0	75	1/week	8-Hr Composite
Total Aluminum	XXX	XXX	XXX	4.0	8.0	10	1/week	8-Hr Composite
Total Cadmium (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	8-Hr Composite
Total Copper (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	8-Hr Composite
Total Iron	XXX	XXX	XXX	2.0	4.0	5	1/week	8-Hr Composite
Total Lead (ug/L)	XXX	XXX	XXX	4.44	6.93	11.1	1/week	8-Hr Composite
Total Manganese	XXX	XXX	XXX	1.0	2.0	2.5	1/week	8-Hr Composite
Total Thallium (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	8-Hr Composite
Total Zinc (ug/L)	XXX	XXX	XXX	Report	Report	XXX	1/week	8-Hr Composite

Compliance Sampling Location: At the effluent weir of the diversion chamber.

Other Comments: The limits for pH are technology-based on Chapter 95.2. The limits for Total Residual Chlorine (TRC) are technology-based on previous sampling. The limits for Total Suspended Solids, Aluminum, Iron, and Manganese are technology-based on potable water treatment backwash wastewater from the NPDES Permit Writers’ Manual. Sampling for Total Arsenic, Total Cadmium, Total Copper, Total Lead, Total Thallium, and Total Zinc are Water Quality-based (WQBELs), calculated by DEP’s Toxics Management Spreadsheet (TMS). The effluent limit for Total Lead was also recommended by TMS.