

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0022608
APS ID 1062866
Authorization ID 1395438

Applicant and Facility Information

Applicant Name	<u>Molded Fiber Glass Company</u>	Facility Name	<u>Molded Fiber Glass Tray</u>
Applicant Address	<u>6175 US Highway 6</u> <u>Linesville, PA 16424-5921</u>	Facility Address	<u>6175 US Highway 6</u> <u>Linesville, PA 16424-5921</u>
Applicant Contact	<u>George Rusnak</u> <u>(grusnak@moldedfiberglass.com)</u>	Facility Contact	<u>George Rusnak</u> <u>(grusnak@moldedfiberglass.com)</u>
Applicant Phone	<u>(814) 683-4500, ext. 263</u>	Facility Phone	<u>(814) 683-4500, ext. 263</u>
Client ID	<u>36972</u>	Site ID	<u>473</u>
SIC Code	<u>3089</u>	Municipality	<u>Pine Township</u>
SIC Description	<u>Manufacturing - Plastics Products, NEC</u>	County	<u>Crawford</u>
Date Application Received	<u>May 4, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 9, 2022</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of an existing NPDES Permit for an existing discharge of Industrial Waste-related wastewaters.</u>		

Summary of Review

Act 14 - Proof of Notification was submitted and received.

This facility is subject to ELGs based on 40 CFR 463 Subpart C - Finishing Water.

A Part II Water Quality Management permit is not required at this time.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:	SPECIAL CONDITIONS:
A. Right of way	II. Chemical Additives
B. Solids handling	III. Requirements Applicable to Stormwater Outfalls
C. NPDES Permit Supersedes WQM Permits	
D. Modification or Revocation for changes to BAT or BCT	
E. Temperature	

There are no open violations in efacts associated with the subject Client ID (36972) as of 4/7/2023.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	4/7/2023
X		Chad W. Yurisic Chad W. Yurisic, P.E. / Environmental Engineer Manager	4/19/2023

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.04745</u>
Latitude	<u>41° 39' 16.00"</u>	Longitude	<u>-80° 24' 29.00"</u>
Quad Name	<u>-</u>	Quad Code	<u>-</u>

Wastewater Description: NCCW, process wastewater, boiler blowdown, reverse osmosis backwash, miscellaneous wastewater (from oil water separator) and stormwater associated with industrial activities.

Receiving Waters	<u>Unnamed Tributary to the Pymatuning Reservoir (Shenango River)</u>	Stream Code	<u>N/A</u>
NHD Com ID	<u>130030907</u>	RMI	<u>N/A</u>
Drainage Area	<u>-</u>	Yield (cfs/mi ²)	<u>-</u>
Q ₇₋₁₀ Flow (cfs)	<u>-</u>	Q ₇₋₁₀ Basis	<u>-</u>
Elevation (ft)	<u>-</u>	Slope (ft/ft)	<u>-</u>
Watershed No.	<u>20-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 Attaining Use(s)

Cause(s) of Impairment -

Source(s) of Impairment -

TMDL Status - Name -

Background/Ambient Data	Data Source
pH (SU) <u>-</u>	<u>-</u>
Temperature (°C) <u>-</u>	<u>-</u>
Hardness (mg/L) <u>-</u>	<u>-</u>
Other: <u>-</u>	<u>-</u>

Nearest Downstream Public Water Supply Intake	<u>DCNR Tuttle Point Pymatuning</u>
PWS Waters <u>Pymatuning Reservoir</u>	Flow at Intake (cfs) <u>-</u>
PWS RMI <u>-</u>	Distance from Outfall (mi) <u>5.0</u>

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.

All sanitary wastewater is discharged to the Linesville Borough STP.

Outfall 001 receives wastewaters from the finished parts washer, non-contact cooling water, and parking lot stormwater runoff. The flow from Outfall 001 goes to a series of small ponds/marshes prior to entering the Unnamed Tributary to the Pymatuning Lake (Shenango River).

Existing treatment permitted under WQM Permit Number 2090201 consists of: An Oil/Water Separator and carbon absorption prior to Outfall 001.

The finish parts wash water is the only IW process wastewater discharged from this facility. This facility is subject to the ELGs below based on 40 CFR 463 Subpart C - Finishing Water.

Parameter	Monthly Avg (mg/l)	Daily Max (mg/l)
TSS	37	130
pH	6.0 - 9.0 at all times	

No modeling was performed since the majority of the non-stormwater discharges are non-contact cooling water (NCCW). The technology-based limits generally given for NCCW will protect the receiving stream (see below).

Parameter	Minimum	Average Monthly	Maximum	Instant. Maximum
Flow (MGD)	Report	XXX	XXX	XXX
pH (S.U.)	6.0 Inst Min	XXX	XXX	9.0
Oil and Grease	XXX	15.0	XXX	30.0

The discharge also contains Reverse Osmosis (RO) backwash. The limits below have been determined to be Best Practical Control Technology (BPT) for backwash wastewater from water treatment plants:

Parameter	Monthly Avg (mg/l)	Daily Max (mg/l)
TSS	30	60
Iron, Total	2.0	4.0
Aluminum, Total	4.0	8.0
Manganese, Total	1.0	2.0
Flow	Monitor	
pH	6.0 - 9.0 at all times	
TRC	0.5	1.0

Similar to the previous renewal, since TRC is not added to the well water used at the facility, no monitoring/limits are necessary.

The previous permit review determined that aluminum, iron, and manganese are found at discharge concentrations far below the BPT limits and water quality criteria, so no monitoring or limits will be added.

Appendix S of the PAG-03 NPDES General Stormwater Permit has semi-annual monitoring requirements for Total Nitrogen, Total Phosphorus, pH, Total Suspended Solids, and Total Zinc. Zinc is not used as a plating on molds or parts at this facility so there is no reason to expect it to be present, especially in stormwater. Total Zinc will remain to be omitted from the permit. Since the Total Nitrogen and Total Phosphorus sampling shows that the discharge concentrations were low (near No Exposure Certification levels), the monitoring will not be included with this renewal.

Since there are no internal monitoring points for the individual waste streams, the most stringent limits for any of the single waste streams is being applied at the combined discharge at Outfall 001.

Similar to the previous renewal, based on the discharge quality, quantity, and location, this discharge is not expected to have an impact on any threatened or endangered mussels in the area.

Chemical Additives (Used in the last 2 years):

Chemical Name	Outfall No.	Purpose	Usage Frequency	Max Usage Rate	Units
PCT 5300M	001	Boiler water treatment	Daily (if needed)	8.26	lbs/day
PCT 5410	001	Boiler water treatment	Daily (if needed)	7.27	lbs/day
PCT 5718	001	Boiler water treatment	Daily (if needed)	5.54	lbs/day

Chemical Additives (Approval Requested - all on Approved List):

Chemical Name	Outfall No.	Purpose	Usage Frequency	Max Usage Rate	Units
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Compliance History

DMR Data for Outfall 001 (from February 1, 2022 to January 31, 2023)

Parameter	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22	JUL-22	JUN-22	MAY-22	APR-22	MAR-22	FEB-22
Flow (MGD) Average Monthly	0.0048	0.0019	0.0025	0.0040	0.0038	0.0062	0.0071	0.0047	0.0055	0.0053	0.0067	0.0077
Flow (MGD) Daily Maximum	0.0072	0.0071	0.0059	0.0096	0.0080	0.0111	0.0172	0.0056	0.0050	0.0072	0.0156	0.0250
pH (S.U.) Instantaneous Minimum	6.9	6.7	7.6	7.8	7.4	6.7	6.7	7.0	6.8	6.6	6.8	6.7
pH (S.U.) Instantaneous Maximum	7.1	7.5	7.6	7.9	7.9	7.9	7.4	7.8	6.9	6.7	7.1	7.2
TSS (mg/L) Average Monthly	< 5.0	< 5.0	5.0	6.3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
TSS (mg/L) Daily Maximum	< 5.0	< 5.0	5.0	7.5	< 5.0	< 5.0	< 5.0	5.0	< 5.0	< 5.0	< 5.0	< 5.0
Oil and Grease (mg/L) Average Monthly	< 6.0	< 6.0	< 5.5	7.5	< 6.0	< 5.5	< 6.3	< 5.0	< 5.0	< 5.0	< 5.3	< 5.3

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	Report Daily Max	XXX	XXX	XXX	XXX	1/day	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	60.0	60	2/month	Grab
Oil and Grease	XXX	XXX	XXX	15.0	XXX	30	2/month	Grab

Compliance Sampling Location: Outfall 001 (prior to mixing with any other waters)

Flow is monitor only based on Chapter 92a.61, pH is based on 40 CFR 463 Subpart C - Finishing Water, the limits for Total Suspended Solids (TSS) are technology-based due to the Reverse Osmosis (RO) backwash water. The Oil and Grease limits are technology-based due to the Non-Contact Cooling Water (NCCW) waste stream.