

Application Type Renewal
 Facility Type Storm Water
 Major / Minor Minor

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

Application No. PA0276375
 APS ID 1148658
 Authorization ID 1546223

Applicant and Facility Information

Applicant Name	<u>Air Products & Chemicals Inc.</u>	Facility Name	<u>Gardner Cryogenics A Division Of Air Products And Chemicals Inc.</u>
Applicant Address	<u>801 Broad Street</u> <u>Emmaus, PA 18049-3600</u>	Facility Address	<u>801 Broad Street</u> <u>Emmaus, PA 18049-3600</u>
Applicant Contact	<u>Edward Zanders</u>	Facility Contact	<u>Edward Zanders</u>
Applicant Phone	<u>(610) 266-3739</u>	Facility Phone	<u>(610) 266-3739</u>
Client ID	<u>62388</u>	Site ID	<u>845306</u>
SIC Code	<u>3443</u>	Municipality	<u>Emmaus Borough</u>
SIC Description	<u>Manufacturing - Fabricated Plate Work (Boiler Shops)</u>	County	<u>Lehigh</u>
Date Application Received	<u>October 20, 2025</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>October 22, 2025</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of a NPDES Permit for Stormwater Associated with Industrial Activity</u>		

Summary of Review

The applicant is requesting renewal of a NPDES permit to discharge Stormwater Associated with Industrial Activity to Tributary 03576 of Leibert Creek, a HQ-CWF, MF (High Quality – Cold Water Fishes, Migratory Fishes) designated receiving stream in State Water Plan Basin 02-C (Lower Lehigh River). As per the Department's current existing use list, the receiving stream segment does not have an existing use classification that is more protective than its designated use.

Tributary 03576 of Leibert Creek is impaired for its existing use of Recreation due to pathogens. It is also impaired for its existing use of Aquatic Life due to urban runoff/storm sewers.

Gardner Cryogenics – A division of Air Products and Chemicals, Inc. fabricates pressure vessels, skid-mounted process systems, and cryogenics. All fabrication occurs indoors. Potential activity that may come in contact with stormwater includes temporary raw material storage.

The outdoor area of the facility has the following activities/storage:

- Shipping and Receiving
- Liquid Nitrogen and Liquid Argon Tanks

Indoors, the facility has the following activities:

- Offices
- Paint and Chemical Storage
- Paint Booth
- Main Manufacturing Building
- Abrasive Blasting Area (Unused Abrasive Blast Media Storage)

Approve	Deny	Signatures	Date
X		<i>Melanie Macioce</i> Melanie Macioce / Environmental Engineering Trainee	October 23, 2025
X		<i>Edward Dudick</i> Edward Dudick, P.E. / Environmental Engineer Manager	October 24, 2025

Summary of Review

The facility is categorized by SIC code 3443 (Manufacturing – Fabricated Plate Work – Boiler Shops). The facility falls under Appendix U monitoring requirements of the PAG-03 General Permit. The following pollutants will be monitored:

- 1) Total Nitrogen will be a calculation that is reported.
- 2) Total Phosphorous will be a grab sample that is reported.
- 3) pH will be a grab sample with a benchmark value of 9.0.
- 4) Total Suspended Solids will be a grab sample with a benchmark value of 100 mg/L.
- 5) Oil and Grease will be a grab sample with a benchmark value of 30 mg/L.
- 6) Nitrate + Nitrite-Nitrogen will be a grab sample with a benchmark value of 3.0 mg/L.
- 7) Total Aluminum will be a grab sample that is reported.
- 8) Total Iron will be a grab sample that is reported.
- 9) Total Zinc will be a grab sample that is reported.

All values will be measured as an IMAX once every six months.

Stormwater first falls into stormwater catch basins. It then leaves the site via 2 outfalls. Outfall 001 is on the southwest portion of the site and is 48% impervious. Outfall 002 is on the Northeast Portion of the site and is 100% impervious.

Outfall 001 is exposed to parking lot, roof drains, gravel area and material storage. Outfall 002 will be exposed to parking lot and roof drains.

The BMPs for the site are as follows: BMPs include routine inspection of catch basins and general housekeeping practices such as catch basin clean-out, conducting industrial operations indoors, regular garbage pickup and disposal and following procedures during unloading/loading materials.

Stormwater will be discharged from both outfalls. However, Outfall 001 will be the representative Outfall. The results from Outfall 002 would likely be no worse than Outfall 001. The reasoning from the permittee is described below:

“Outfall #001 covers the largest amount of area for the site. In addition, similar industrial activities are being conducted, consistent control measures are being implemented, and uniform materials are being used throughout the facility. Therefore, the Storm Water runoff will contain similar concentrations for each parameter being tested”.

PPC Plan implementation and completion of an annual inspection and compliance evaluation are required under the permit.

There are no open violations for this client that would warrant withholding the issuance of this permit.

Some of this information was generated from the USGS Application – StreamStats. This site is currently not being updated.

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.	<u>001</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 31' 42.57"</u>	Longitude	<u>-75° 30' 6.15"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Tributary 03576 to Leibert Creek (HQ-CWF, MF)</u>	Stream Code	<u>03576</u>
NHD Com ID	<u>26295629</u>	RMI	<u>0.596</u>
Drainage Area	<u>0.74</u>	Yield (cfs/mi ²)	<u>-</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.074</u>	Q ₇₋₁₀ Basis	<u>-</u>
Elevation (ft)	<u>388.21</u>	Slope (ft/ft)	<u>0.022</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>

Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>PATHOGENS, SILTATION</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u></u>	Name	<u></u>

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

Nearest Downstream Public Water Supply Intake	<u>Emmaus Borough Water System</u>		
PWS Waters	<u>Little Lehigh Creek</u>	Flow at Intake (cfs)	<u>34</u>
PWS RMI	<u>7.88</u>	Distance from Outfall (mi)	<u>2.516</u>

Changes Since Last Permit Issuance: N/A

Other Comments: N/A

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 31' 49.15"</u>	Longitude	<u>-75° 30' 0.35"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Tributary 03567 to Leibert Creek (HQ-CWF, MF)</u>	Stream Code	<u>03576</u>
NHD Com ID	<u>26295629</u>	RMI	<u>0.392</u>
Drainage Area	<u>0.72</u>	Yield (cfs/mi ²)	<u>-</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.072</u>	Q ₇₋₁₀ Basis	<u>-</u>
Elevation (ft)	<u>388.43</u>	Slope (ft/ft)	<u>0.007</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>-</u>	Existing Use Qualifier	<u>-</u>
Exceptions to Use	<u>-</u>	Exceptions to Criteria	<u>-</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>PATHOGENS, SILTATION</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	
pH (SU)	<u>-</u>		<u>-</u>
Temperature (°F)	<u>-</u>		<u>-</u>
Hardness (mg/L)	<u>-</u>		<u>-</u>
Other:	<u>-</u>		<u>-</u>
Nearest Downstream Public Water Supply Intake	<u>Emmaus Borough Water System</u>		
PWS Waters	<u>Little Lehigh Creek</u>	Flow at Intake (cfs)	<u>34</u>
PWS RMI	<u>7.88</u>	Distance from Outfall (mi)	<u>2.312</u>

Changes Since Last Permit Issuance: N/A

Other Comments: N/A