

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

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

Application No. PA0053261
APS ID 541258
Authorization ID 1462917

Applicant and Facility Information

Applicant Name	<u>Linde Gas And Equipment Inc.</u>	Facility Name	<u>Linde Inc.</u>
Applicant Address	<u>175 East Park Drive</u> <u>Tonawanda, NY 14150</u>	Facility Address	<u>90 Commerce Way</u> <u>Stockertown, PA 18083-7050</u>
Applicant Contact	<u>Mark Stevko</u>	Facility Contact	<u>Mark Stevko</u>
Applicant Phone	<u>610-714-9637</u>	Facility Phone	<u>610-714-9637</u>
Client ID	<u>187149</u>	Site ID	<u>525539</u>
SIC Code	<u>2813</u>	Municipality	<u>Stockertown Borough</u>
SIC Description	<u>Manufacturing - Industrial Gases</u>	County	<u>Northampton</u>
Date Application Received	<u>November 22, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 22, 2023</u>	If No, Reason	<u></u>
Purpose of Application	<u>RENEWAL OF EXISTING NPDES PERMIT.</u>		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge non-contact cooling water (NCCW) and stormwater to Bushkill Creek, a High Quality – Cold Water Fishes/Migratory Fish –(HQ-CWF/MF) designated receiving stream in state water plan basin 01-F (Jacoby – Bushkill Creeks). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

This facility produces oxygen, nitrogen, and argon by a cryogenic air process and there are no process wastewaters; therefore, this facility is considered a Minor IW Facility without ELG. The SIC code for this facility is 2813 (Inorganic chemical manufacturing) and falls under aAppendix F of the PAG-03 general permit.

The previous permit fact sheet suggests the receiving water is approximately 600ft away. Because of this, Bushkill Creek will still be used to model the outfall for all limitation calculations.

Permittee did not list drainage areas on the renewal application for Outfall 001 or Outfall 002. The drainage areas listed in the previous permit will be retained. The drainage area for Listed drainage area for Outfall 002 was 286,625 sf last permit. The Outfall 001 drainage area is assumed to be similar according to topo~~graphic maps~~ graphs submitted in the application.

Outfall 001 discharges non-contact cooling water from IMP101 and stormwater. Outfall 002 is stormwater only.

Outfall IMP101 is consists of non-contact cooling water from the chemical process. The applicant states this water discharges not directly to Bushkill Creek, but infiltrates into the shallow groundwater system along a swale and flows to Bushkill Creek. The M~~maximum~~ discharge from outfall-001AIMP 101 is 0.185 MGD~~mgd~~ and average flow is 0.0164 MGD~~4mgd~~. Outfall IMP101 drains into Outfall 001.

Approve	Deny	Signatures	Date
X		William Hon (s) William Hon / Environmental Engineer Trainee	August 7, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Acting Engineer Manager	8-15-24

Summary of Review

~~Outfall 001 also discharges the non-contact cooling water from IMP101 but also will discharge stormwater and has similar values for flow. Outfall 002 is an intermittent discharge and is stormwater only.~~

For Outfall 001 and 002, the latest PAG-03 Appendix F sampling requirements are included in the permit. The permittee must sample semi-annually for pH, COD, TSS, NO₂+NO₃-N, Total Phosphorus, Total Lead, Total Zinc, Total Iron and Total Aluminum. Appendix F of the PAG-03 permit includes benchmark values for COD (120 mg/L), pH (9.0 S.U) , NO₂+NO₃-N (3.0 mg/L) and TSS (100 mg/L). ~~These benchmark values are included as IMAX limitations in this renewal. All outfalls are located on the west side of the property and flow downslope to Bushkill Creek.~~

The Stormwater Pollution Prevention plan and PPC plan is approved and has been in place since September 2019. This plan was approved when this facility was named Praxair, Inc. The previous permit was amended in 2019 to update the name change to Linde, Inc.

This facility ~~has uses~~ 1 chemical additive: GenGard GN8144. This is added daily at a max of 120ppm into ~~outfall 001A~~IMP 101 and 001 and serves as a corrosion inhibitor. The permittee attached the SDS to the application and is on the DEP approved chemical additive list.

There is one representative USGS stream gauge in this ~~vicinity, but~~vicinity but is not actively taking discharge data. The state-wide default low flow yield (LFY) of 0.1 cfs/mi² was used to model the discharge. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats. Stream flow, Q7-10 for modeling purposes is 3.02cfs and was found by multiplying the drainage area (30.2mi²) by the LFY.

The permit is being renewed with the same effluent limits as the previous permit for Outfall 001. All modeling performed resulted in the same or less stringent limitations than the current permit. Modeling inputs for WQM and TMS are listed below.

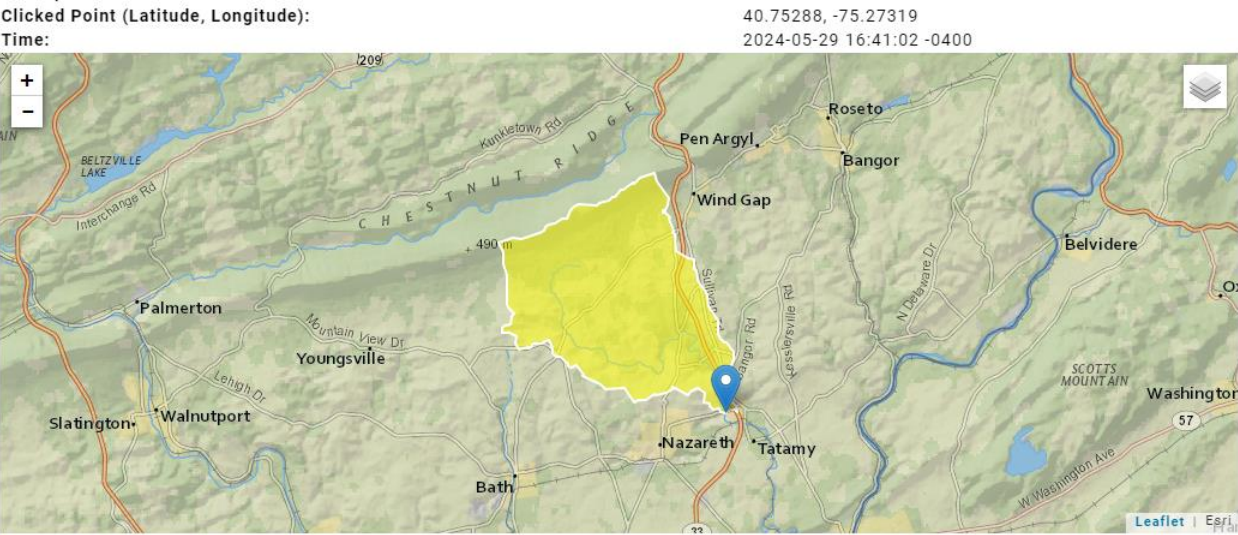
This facility has had 3 inspections over the past 5 years, the latest one on January 1, 2023, with no violations noted. A WMS Open Violations report was run with no results. There are no violations that would warrant the withholding of the issuance of this permit.

Modeling Inputs:

PT 1 @ Outfall 001

RMI: 9.371

Summary of Review

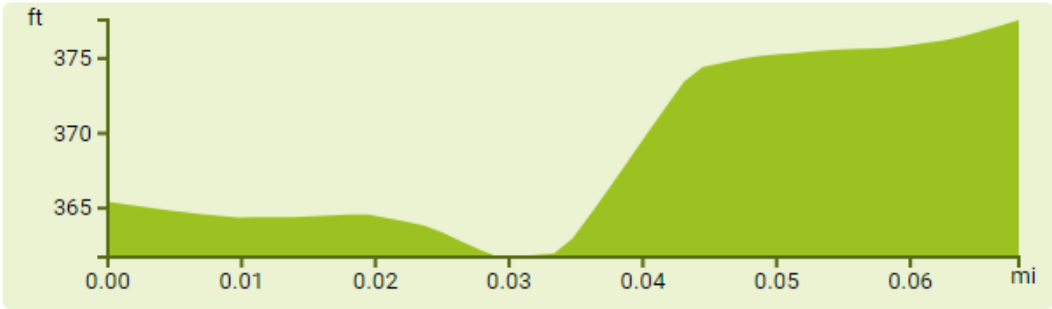


+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	0.57	percent
DRNAREA	Area that drains to a point on a stream	30.2	square miles

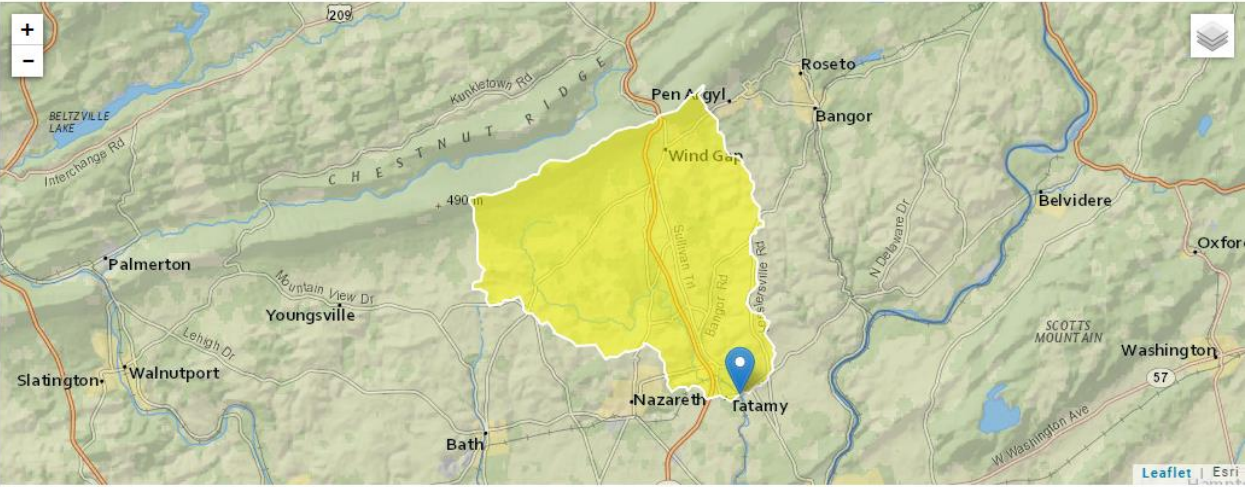
Elevation profile



PT2 2 Miles downstream from outfall
RMI: 6.87

Summary of Review

Clicked Point (Latitude, Longitude): 40.74192, -75.24959
Time: 2024-05-29 16:58:20 -0400



+ Collapse All

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
CARBON	Percentage of area of carbonate rock	6.31	percent
DRNAREA	Area that drains to a point on a stream	51.2	square miles

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.

