Pennsylvania Department of Environmental Protection

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0040321**
Facility Type	**Industrial**	APS ID	**1122130**
Major / Minor	**Minor**	Authorization ID	**1500324**

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

Applicant and Facility Information

Applicant Name	**ABB Installation Products, Inc.**	Facility Name	**ABB Installation Products - Perkasie Plant**
Applicant Address	45 Griffin Road South	Facility Address	1501 West Park Avenue
	Bloomfield, CT 06002-1353		Perkasie, PA 18944
Applicant Contact	Melody Christopher	Facility Contact	Melody Christopher
Applicant Phone	(860) 969-8934	Facility Phone	(860) 969-8934
Client ID	346710	Site ID	458559
SIC Code	3625	Municipality	East Rockhill Township
SIC Description	Manufacturing - Relays and Industrial Controls	County	Bucks
Date Application Received	September 4, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Renewal of NPDES Permit to discharge treated groundwater.

Summary of Review

The applicant requests renewal of a National Pollutant Discharge Elimination System (NPDES) permit to discharge 43,000 gpd of treated groundwater from the groundwater remediation system into UNT to East Branch Perkiomen Creek from the ABB Installation Products – Perkasie Plant (formerly known as Thomas and Betts Perkasie Plant) located in East Rockhill Township, Bucks County.

In 1979, after detecting trichloroethylene (TCE) in one of the municipal water supply wells for the nearby Borough of Sellersville, it was found that two wells on the Ansley Electronics Corporation (predecessor to Thomas and Betts) property were contaminated by TCE. The source of contamination was identified as a drum storage area on the Ansely property. The drums were removed from the storage area. In addition, three monitoring wells and a countercurrent air stripper were installed at the site. The two original wells were used to lower the water table to control further movement of the contaminated groundwater off-site and to recover the groundwater for treatment to remove Volatile Organic Compounds (VOCs) prior to discharge.

Initial reports indicated that under static conditions, the direction of the groundwater flow at the site was predominately to the north. With the two recovery wells operating, the flow direction at the south property line continues to the northerly; however, the groundwater at the western property boundary of the site shifts to almost due east causing the flow direction to be northeasterly as the groundwater leaves the site.

The treatment at the site consists of two recovery wells (Well Nos. 4 and 6) producing a combined rate of 43,200 gpd. Groundwater is pumped from onsite wells 4 and 6 through bag filter for sediment removal. The recovered groundwater is then pumped to a countercurrent air stripper where VOCs, mainly TCE and 1,1,1 Trichloroethylene, are removed. There is an optional carbon polish system in place that can be used in the event the air stripper malfunctions or needs repair/maintenance. The treated water is then discharged into an unnamed tributary (UNT) (intermittent) to East Branch

Approve	Deny	Signatures	Date
X		Ketan Thaker Ketan Thaker / Project Manager	1/10/2025
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	1/10/2025

Summary of Review

Perkiomen Creek. The Outfall is located in the Borough of Perkasie. The ABB Installation Products, Inc., only operates groundwater recovery and treatment system at the site., which is currently owned by Servpro, a fire and water cleanup and restoration firm.

The effluent is generally in compliance with permit limits. Effluent limits will remain the same for this permit renewal.

Act-14 Notification to East Rockhill Township on August 27, 2024.
Act-14 Notification to Perkasie Borough on August 27, 2024.
Act-14 Notification to Bucks County Planning Commission on August 27, 2024.

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)	.043
Latitude	40Âº 22' 35.10"	Longitude	-75Âº 18' 16.18"
Quad Name	Quakertown	Quad Code	1543
Wastewater Description:	Groundwater Cleanup Discharge		
Receiving Waters	Unnamed Tributary to East Branch Perkiomen Creek (TSF, MF)	Stream Code	01270
NHD Com ID	25992408	RMI	0.87
Drainage Area		Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)		Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	3-E	Chapter 93 Class.	TSF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, SILTATION		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status		Name	

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

Nearest Downstream Public Water Supply Intake			
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Compliance History

DMR Data for Outfall 001 (from November 1, 2023 to October 31, 2024)

Parameter	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23
Flow (GPD) Average Monthly	6825	7638	8513	8602	9232	9645	9876	10191	9527	9986	9689	8543
pH (S.U.) Instantaneous Minimum	7.83	8.46	8.38	8.36	8.16	8.11	8.01	8.69	6.94	7.18	7.39	7.46
pH (S.U.) Instantaneous Maximum	7.79	8.49	8.39	8.35	8.14	8.14	7.98	8.67	7.02	7.12	7.43	7.47
1,1,1-Trichloroethane (mg/L) Industrial Influent Instantaneous Maximum		0.019			0.016			0.016			0.021	
1,1,1-Trichloroethane (mg/L) Instantaneous Maximum		0.0003			0.00024			0.00024			0.00024	
Tetrachloro-ethylene (mg/L) Industrial Influent Instantaneous Maximum		0.00062			0.0012			0.0012			0.0014	
Tetrachloro-ethylene (mg/L) Instantaneous Maximum		0.0003			0.00025			0.00025			0.00025	
Trichloroethylene (mg/L) Average Monthly	0.00031	0.00031	0.00038	0.00043	0.00064	0.00071	0.00099	0.0011	0.00031	0.00031	0.00031	0.00031
Trichloroethylene (mg/L) Industrial Influent Instantaneous Maximum		1.1			1.2			1.2			1.4	
Trichloroethylene (mg/L) Instantaneous Maximum	0.00031	0.00031	0.00038	0.00043	0.00064	0.00071	0.00099	0.0011	0.00031	0.00031	0.00031	0.00031

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	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
1,1,1-Trichloroethane	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
1,1,1-Trichloroethane Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Tetrachloro-ethylene	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Tetrachloro-ethylene Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Trichloroethylene Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
Trichloroethylene	XXX	XXX	XXX	0.003	XXX	0.036	1/month	Grab