pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0040321**
Facility Type	**Industrial**	APS ID	**1007005**
Major / Minor	**Minor**	Authorization ID	**1297629**

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	131 Phoenix Crossing	Facility Address	1501 West Park Avenue
	Bloomfield, CT 06002		Perkasie, PA 18944
Applicant Contact	Melody Christopher	Facility Contact	Melody Christopher
Applicant Phone	(860) 969-5306	Facility Phone	(860) 969-5306
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	July 19, 2019	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	Permit renewal		

Summary of Review

The applicant requests renewal of a National Pollutant Discharge Elimination System (NPDES) permit to discharge 43,000 gpd of treated groundwater inti UNT to East Branch of Perkiomen Creek from the groundwater remediation system at ABB Installation Products, Inc. (former Thomas and Betts Perkasie Plant) located in East Rockhill Township, Bucks County. On December 20, 2018 the NPDES permit was transferred from Thomas & Betts Corp. to ABB Installation Products, Inc.

The facility, 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.

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 5) producing a combined rate of 43,200 gpd. The recovered groundwater is then pumped through a bag filter for sediment removal and then to air stripping tower where

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

Summary of Review

VOCs, mainly TCE and 1,1,1 Trichloroethylene, are removed. The treated water is then discharged into an unnamed tributary (UNT) (intermittent) to East Branch Perkiomen Creek. Fouling of the air stripping tower caused a treatment failure and effluent exceedances were registered in 2018 and early 2019. A complete rehabilitation was performed in March 2019 to restore the system to original operating condition. The complete restoration of the air stripping tower has resulted in the effluent being in-compliance with all limits since it was placed back in operation. As the sample analysis for untreated groundwater show elevated level of some VOCs, the groundwater remediation must continue until sampling data show no contamination in the groundwater. Effluent limits for all the parameters will remain the same in this permit renewal.

Act-14 Notifications to East Rockhill Township, Borough of Perkasie and Bucks County Planning Commission on July 9, 2019.

permit

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		Quad Code	
Wastewater Description:	Groundwater Cleanup Discharge		
Receiving Waters	Unnamed Tributary to East Branch Perkiomen Creek (TSF, MF)	Stream Code	
NHD Com ID	25992408	RMI	
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)	

Treatment Facility Summary				
Treatment Facility Name: ABB Installation Products - Perkasie Plant				
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Industrial			No Disinfection	
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
		Not Overloaded		

Compliance History

DMR Data for Outfall 001 (from November 1, 2018 to October 31, 2019)

Parameter	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18
Flow (GPD) Average Monthly	8098	6303	3124	5944	7647	9512	10308	115		6042	11444	7448
pH (S.U.) Instantaneous Minimum	8.61	8.31	7.89	8.61	8.28	8.28	7.23	7.93		7.42	7.43	8.16
pH (S.U.) Instantaneous Maximum	8.39	8.38	8.13	8.49	8.31	8.17	7.17	7.84		7.42	7.43	8.16
1,1,1-Trichloroethane (mg/L) Industrial Influent Instantaneous Maximum		< 0.00025			< 0.03			E				
1,1,1-Trichloroethane (mg/L) Influent Instantaneous Maximum											< 0.01475	
1,1,1-Trichloroethane (mg/L) Instantaneous Maximum		< 0.00025			< 0.00024			26.4			0.00041	
Tetrachloro-ethylene (mg/L) Industrial Influent Instantaneous Maximum		< 0.0025			< 0.0020			< 1.96				
Tetrachloro-ethylene (mg/L) Influent Instantaneous Maximum											< 0.000001	
Tetrachloro-ethylene (mg/L) Instantaneous Maximum		< 0.00025			< 0.00025			1.415			0.0202	
Trichloroethylene (mg/L) Average Monthly	0.00031	< 0.00031	< 0.00025	< 0.00031	< 0.00031	0.00031	0.0017	0.006		4.050	1.124	0.0386

Trichloroethylene (mg/L) Industrial Influent Instantaneous Maximum		2.1			< 1.91			2000				
Trichloroethylene (mg/L) Influent Instantaneous Maximum											0.943	
Trichloroethylene (mg/L) Instantaneous Maximum	0.00031	< 0.00031	< 0.00025	< 0.00031	< 0.00031	0.00031	0.00169	< 0.006		4.050	1.124	0.0386

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	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 Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab
1,1,1-Trichloroethane	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	XXX	XXX	XXX	0.003	XXX	0.036	1/month	Grab
Trichloroethylene Industrial Influent	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab