pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0056561**
Facility Type	**Storm Water**	APS ID	**1010625**
Major / Minor	**Minor**	Authorization ID	**1304216**

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

Applicant and Facility Information

Applicant Name	**Armstrong Engineering Associates, Inc.**	Facility Name	**Romansville Shop**
Applicant Address	1845 West Strasburg Road	Facility Address	1845 West Strasburg Road
	Coatesville, PA 19320-4814		Coatesville, PA 19320-4814
Applicant Contact	Eric Nicholas	Facility Contact	Tyler Beckwith
Applicant Phone	(610) 486-0767	Facility Phone	(610) 486-0767
Client ID	305360	Site ID	456338
SIC Code	3567	Municipality	West Bradford Township
SIC Description	Manufacturing - Industrial Furnaces And Ovens	County	Chester
Date Application Received	January 24, 2020	EPA Waived?	Yes
Date Application Accepted		If No, Reason	
Purpose of Application	Permit Renewal		

Summary of Review

The applicant requests renewal of an NPDES permit to discharge stormwater from an existing technology company specializing in fabrication of process heat transfer equipment.

There are two outfalls located on this site (001 and 002). Outfall 001 flows to the north side of the property towards Broad run, a designated Exceptional Value, Migratory Fishes (EV, MF) stream under Chapter 93. Outfall 002 flows to the south side of the property towards an unnamed tributary to West Branch Brandywine Creek a designated Warm Water Fishes, Migratory Fishes (WWF, MF) stream under Chapter 93.

According to the application and the Operations report, the facility is in compliance with the permit requirements.

Based on the review of the previous records, the facility had difficulties in stormwater sample collection as the majority of stormwater generated at the site does not reach sampling points due to large overland flows. Most stormwater infiltrates into ground surface during wet weather events. Only a significant wet weather event generates stormwater sufficient for the collection of a stormwater sample at the two outfall locations. Based on the unique circumstances of the facility layout and the infrequent nature of the discharge, annual stormwater monitoring requirement is continued in the new permit. Previous fact sheet states that correspondence from DEP in 1999 advised that the intent of the 30-minute grab was to acquire a characteristic sample of any sediment or particulates that may have accumulated on the site. If no stormwater runoff leaves the site within the first 30 minutes of a storm event, then sample should be collected as soon as sufficient volume does leave the property, to provide a representative sample of the typical runoff.

Monitoring requirement for the appropriate stormwater parameters Oil and Grease, BOD5, COD, TSS, Total Nitrogen, Total Phosphorus and pH are included in the new permit. These parameters are consistent with the current permit application requirement. Benchmark values for TSS, COD, BOD5 and Oil & Grease are included in Part C of the permit.

Approve	Deny	Signatures	Date
X		Sara Reji Abraham, E.I.T. / Project Manager *Sara Reji Abraham*	03-23-2020
X		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	03-23-2020

Summary of Review

This discharge is identified in Summary Table 15 of the report on the Christina River Basin TMDL for Low Flow Conditions, approved by EPA but industrial stormwater-only discharges were indicated to be not affected by the TMDLs and waste load was not allocated.

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.

Act 14 Notifications:

East Bradford Township - January 22, 2020
Chester County - January 22, 2020

Permit Conditions:

A. Stormwater Outfalls
B. Best Management Practices
C. Routine Inspections
D. PPC Plan
E. Stormwater Monitoring
F. Acquire Necessary Property Rights
G. Proper Sludge Disposal

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0
Latitude	39º 57' 18.60"	Longitude	-75º 43' 52.82"
Quad Name	Unionville	Quad Code	1940
Wastewater Description:	Stormwater		
Receiving Waters	Broad Run (EV, MF)	Stream Code	00089
NHD Com ID	26106552	RMI	4.36
Watershed No.	3-H	Chapter 93 Class.	EV, MF
Assessment Status	Attaining Use(s)		
TMDL Status	Final	Name	Christina River Basin

Discharge, Receiving Waters and Water Supply Information

Outfall No.	002	Design Flow (MGD)	0
Latitude	39º 56' 56.52"	Longitude	-75º 44' 14.25"
Quad Name	Unionville	Quad Code	1940
Wastewater Description:	Stormwater		
Receiving Waters	Unnamed Tributary to West Branch Brandywine Creek (WWF, MF)	Stream Code	00117
NHD Com ID	26106612	RMI	1.1200
Watershed No.	3-H	Chapter 93 Class.	WWF, MF
Assessment Status	Attaining Use(s)		
TMDL Status	Final	Name	Christina River Basin

Compliance History

DMR Data for Outfall 001 (from February 1, 2019 to January 31, 2020)

Parameter	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19
pH (S.U.) Daily Maximum		7.01										
CBOD5 (mg/L) Daily Maximum		24										
COD (mg/L) Daily Maximum		1.0										
TSS (mg/L) Daily Maximum		29.0										
Oil and Grease (mg/L) Daily Maximum		< 2.5										
TKN (mg/L) Daily Maximum		2.53										
Total Phosphorus (mg/L) Daily Maximum		0.15										
Dissolved Iron (mg/L) Daily Maximum		0.05										

DMR Data for Outfall 002 (from February 1, 2019 to January 31, 2020)

Parameter	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19
pH (S.U.) Daily Maximum		6.93										
CBOD5 (mg/L) Daily Maximum		4.6										
COD (mg/L) Daily Maximum		2.2										
TSS (mg/L) Daily Maximum		53.0										
Oil and Grease (mg/L) Daily Maximum		< 1.8										
TKN (mg/L) Daily Maximum		< 0.30										
Total Phosphorus (mg/L) Daily Maximum		0.1										
Dissolved Iron (mg/L) Daily Maximum		0.06										

Proposed Effluent Limitations and Monitoring Requirements

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		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab

Proposed Effluent Limitations and Monitoring Requirements

Outfall 002, 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		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
BOD5	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/year	Grab