

Application Type Renewal  
Facility Type Storm Water  
Major / Minor Minor

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

Application No. PA0056545  
APS ID 1037365  
Authorization ID 1351585

**Applicant and Facility Information**

Applicant Name	<u>Loparex</u>	Facility Name	<u>Loparex Malvern Facility</u>
Applicant Address	<u>2400 Continental Boulevard</u> <u>Malvern, PA 19355-2326</u>	Facility Address	<u>2400 Continental Boulevard</u> <u>Malvern, PA 19355-2326</u>
Applicant Contact	<u>Kim Seal</u>	Facility Contact	<u>Kim Seal</u>
Applicant Phone	<u>(484) 527-2063</u>	Facility Phone	<u>(484) 527-2008</u>
Client ID	<u>146617</u>	Site ID	<u>465644</u>
SIC Code	<u>2671</u>	Municipality	<u>Tredyffrin Township</u>
SIC Description	<u>Manufacturing - Paper Coated and Laminated, Packaging</u>	County	<u>Chester</u>
Date Application Received	<u>April 21, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit renewal application to discharge industrial stormwater</u>		

**Summary of Review**

Applicant requests renewal of an NPDES permit to discharge stormwater to an unnamed tributary to Little Valley Creek. Since the receiving stream is designated as exceptional value, an individual permit is required.

Facility produces siliconized films in a manufacturing building. Raw materials include plastic resins, silicone, and film. The processes utilized in the manufacture of these products are blown film extrusion and silicone coating. There are no industrial exposures to stormwater. There have been no changes to the facility's operations during the last permit term.

There are three outfalls associated with the site. Outfall 001 discharges runoff collected from the paved loading area and the roof of the storage shed. The discharge is piped to the unnamed tributary near the southwest end of the facility. Outfall 002 discharges piped runoff from the roof of the manufacturing plant. Outfall 003 discharges runoff from the office roof and portions of the parking lot.

Review of dmrs shows no discharge concentrations above the benchmark values. Concentrations of Zinc are reported as higher than the criteria. No concerns regarding other parameters.

Current permit includes semiannual monitoring for pH, CBOD5, COD, TSS, Oil and Grease, TKN, Total Phosphorus, Total Iron and Total Zinc. According to the General Permit (PAG03), appendix E (SIC Code 2671) applies to the stormwater discharges from this type of facilities. Current effluent requirements are appropriate and recommend continuing to the new permit.

Approve	Deny	Signatures	Date
X		<i>Sara Abraham</i> Sara Reji Abraham, E.I.T. / Project Manager	June 3, 2021
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	06/04/2021

**Summary of Review**

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:

Tredyffrin Township	-	May 19, 2021
Chester County	-	April 9, 2021

Permit Conditions:

- A. Stormwater Outfalls
- B. BMPs
- 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.	<u>001</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 3' 11.56"</u>	Longitude	<u>-75° 30' 9.45"</u>
Quad Name	<u>Malvern</u>	Quad Code	<u>1841</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>UNT to Little Valley Creek (EV)</u>	Stream Code	<u>01004</u>
NHD Com ID	<u>25980352</u>	RMI	<u>0.3</u>
Watershed No.	<u>3-F</u>	Chapter 93 Class.	<u>EV</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, pathogens, polychlorinated biphenyls (pcbs), siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers</u>		
TMDL Status	<u>Final</u>	Name	<u>Valley and Little Valley Creeks</u>

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 2' 55.83"</u>	Longitude	<u>-75° 30' 30.02"</u>
Quad Name	<u>Malvern</u>	Quad Code	<u>1841</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Unnamed Tributary to Little Valley Creek (EV)</u>	Stream Code	<u>01004</u>
NHD Com ID	<u>25980378</u>	RMI	<u>0.2</u>
Watershed No.	<u>3-F</u>	Chapter 93 Class.	<u>EV</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, metals, polychlorinated biphenyls (pcbs), siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers</u>		
TMDL Status	<u>Final</u>	Name	<u>Valley and Little Valley Creeks</u>

**Discharge, Receiving Waters and Water Supply Information**

Outfall No.	<u>003</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 2' 53.96"</u>	Longitude	<u>-75° 30' 29.76"</u>
Quad Name	<u>Malvern</u>	Quad Code	<u>1841</u>
Wastewater Description: <u>Stormwater</u>			
Receiving Waters	<u>Unnamed Tributary to Little Valley Creek (EV)</u>	Stream Code	<u>01004</u>
NHD Com ID	<u>25980378</u>	RMI	<u>0.31</u>
Watershed No.	<u>3-F</u>	Chapter 93 Class.	<u>EV</u>
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>cause unknown, flow regime modification, habitat alterations, metals, polychlorinated biphenyls (pcbs), siltation</u>		
Source(s) of Impairment	<u>habitat modification - other than hydromodification, source unknown, urban runoff/storm sewers</u>		
TMDL Status	<u>Final</u>	Name	<u>Valley and Little Valley Creeks</u>

Compliance History

DMR Data for Outfall 001 (from April 1, 2020 to March 31, 2021)

Parameter	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20
pH (S.U.) Daily Maximum				E						7.19		
CBOD5 (mg/L) Daily Maximum				E						4.9		
COD (mg/L) Daily Maximum				E						93		
TSS (mg/L) Daily Maximum				E						16		
Oil and Grease (mg/L) Daily Maximum				E						10.1		
TKN (mg/L) Daily Maximum				E						< 1		
Total Phosphorus (mg/L) Daily Maximum				E						0.24		
Total Iron (mg/L) Daily Maximum				E						0.11		
Total Zinc (mg/L) Daily Maximum				E						0.021		

DMR Data for Outfall 002 (from April 1, 2020 to March 31, 2021)

Parameter	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20
pH (S.U.) Daily Maximum				E						7.25		
CBOD5 (mg/L) Daily Maximum				E						4.9		
COD (mg/L) Daily Maximum				E						56		
TSS (mg/L) Daily Maximum				E						8		
Oil and Grease (mg/L) Daily Maximum				E						< 3.8		
TKN (mg/L) Daily Maximum				E						2		

**NPDES Permit Fact Sheet**  
**Loparex Malvern Facility**

**NPDES Permit No. PA0056545**

Total Phosphorus (mg/L) Daily Maximum				E							0.23		
Total Iron (mg/L) Daily Maximum				E							0.088		
Total Zinc (mg/L) Daily Maximum				E							0.023		

**DMR Data for Outfall 003 (from April 1, 2020 to March 31, 2021)**

Parameter	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20
pH (S.U.) Daily Maximum				E						7.41		
CBOD5 (mg/L) Daily Maximum				E						2.4		
COD (mg/L) Daily Maximum				E						35		
TSS (mg/L) Daily Maximum				E						< 5		
Oil and Grease (mg/L) Daily Maximum				E						4.8		
TKN (mg/L) Daily Maximum				E						< 1		
Total Phosphorus (mg/L) Daily Maximum				E						0.23		
Total Iron (mg/L) Daily Maximum				E						0.045		
Total Zinc (mg/L) Daily Maximum				E						0.023		

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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**Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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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 003, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> 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	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
COD	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TKN	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab