

Application Type New  
Facility Type Storm Water  
Major / Minor Minor

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

Application No. PA0245259  
APS ID 1028726  
Authorization ID 1336592

**Applicant and Facility Information**

Applicant Name	<u>Silicon Power Corp</u>	Facility Name	<u>Silicon Power</u>
Applicant Address	<u>280 Great Valley Parkway</u> <u>Malvern, PA 19355-1313</u>	Facility Address	<u>280 Great Valley Parkway</u> <u>Malvern, PA 19355-1313</u>
Applicant Contact	<u>Harshad Mehta</u>	Facility Contact	<u>William Hiltner</u>
Applicant Phone	<u>(610) 407-4700</u>	Facility Phone	<u>(610) 407-4700</u>
Client ID	<u>358157</u>	Site ID	<u>557289</u>
SIC Code	<u>3674</u>	Municipality	<u>Malvern Borough</u>
SIC Description	<u>Manufacturing - Semiconductors And Related Devices</u>	County	<u>Chester</u>
Date Application Received	<u>November 30, 2020</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>New Stormwater permit application</u>		

**Summary of Review**

The applicant requests issuance of an individual NPDES permit for the discharge of industrial stormwater from Silicon Power Corporation.

The facility in Malvern, PA receives and sets semiconductor chips in ceramic or epoxy inside a protective package. They also test and sort semiconductors. All operations are conducted indoors.

Outfalls 001 & 002 discharging stormwater from the site.

Outfall 001 collects stormwater from the building, parking lot and landscaped areas.

Outfalls 002 collect stormwater from the leased buildings and overflow parking lot

Based on the review, the SIC code associated with the facility operation is 3674. According to the Stormwater General Permit, appendix J is applicable.

For Outfall 001: TSS and Oil and Grease are required to be monitored. Based on the sample analysis pH and COD are also included.

Outfall 002: TSS and Oil and Grease are required to be monitored. Based on the sample analysis pH and COD are also included.

Monitoring frequency is established as semi-annual consistent with the General Permit requirement.

Approve	Deny	Signatures	Date
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	February 22, 2021
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	02/24/2021

**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.



**Development of Effluent Limitations**

**Outfall No.** 002 **Design Flow (MGD)** \_\_\_\_\_  
**Latitude** 40° 3' 38.05" **Longitude** -75° 32' 19.36"  
**Wastewater Description:** Stormwater

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

For Outfall 001: TSS and Oil and Grease are required to be monitored as per the Stormwater General Permit, appendix J. Based on the sample analysis pH, COD and TSS are also included.

Outfall 002: TSS and Oil and Grease are required to be monitored Stormwater General Permit, appendix J. Based on the sample analysis pH, COD and TSS are also included.

**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
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
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

**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 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
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
Total Nitrogen	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab