pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0010961**
Facility Type	**Industrial**	APS ID	**1060911**
Major / Minor	**Minor**	Authorization ID	**1391893**

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

Applicant and Facility Information

Applicant Name	**SPS Technologies, LLC**	Facility Name	**SPS Technologies Jenkintown Facility**
Applicant Address	301 Highland Avenue	Facility Address	301 Highland Avenue
	Jenkintown, PA 19046-2630		Jenkintown, PA 19046
Applicant Contact	Charles Feeney	Facility Contact	Charles Feeney
Applicant Phone	(215) 572-3786	Facility Phone	(215) 572-3786
Client ID	77959	Site ID	111818
SIC Code	3452	Municipality	Abington Township
SIC Description	Manufacturing - Bolts, Nuts, Rivets, And Washers	County	Montgomery
Date Application Received	April 8, 2022	EPA Waived?	Yes
Date Application Accepted	May 5, 2022	If No, Reason	

Purpose of Application: NPDES permit renewal.

Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from Compliance Management International (consultant) on behalf of SPS Technologies (permittee) for permittee's Jenkintown Facility (facility) on April 8, 2022. The facility is a minor industrial waste facility without ELG (MIIW1). The stormwater runoff and treated groundwater are discharged into an UNT to Tacony Creek and Tacony Creek in state watershed 3-J, classified as WWF-MF. The current permit will expire on September 30, 2022. Renewal NPDES permit applications under Clean Water program are not covered by PADEP's PDG per 021-2100-001.

This fact sheet is developed in accordance with 40 CFR §124.56.

Changes in this renewal: $CBOD_5$ and Total Chromium is removed from all outfalls.

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.

Approve	Deny	Signatures	Date
√		Reza H. Chowdhury, E.I.T. / Project Manager	May 9, 2022
X		Pravin Patel Pravin C. Patel, P.E. / Environmental Engineer Manager	05/09/2022

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	008	Design Flow (MGD)	0
Latitude	40º 5' 52.52"	Longitude	-75º 8' 29.41"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.33
Drainage Area	3.16 mi^2	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	007	Design Flow (MGD)	0
Latitude	40º 5' 52.54"	Longitude	-75º 8' 29.41"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.33
Drainage Area	3.16 mi^2	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	006	Design Flow (MGD)	0
Latitude	40º 5' 52.54"	Longitude	-75º 8' 29.41"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.33
Drainage Area	3.16 mi^2	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	004	Design Flow (MGD)	0.12
Latitude	40º 5' 52.03"	Longitude	-75º 8' 21.9"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater, Groundwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.23
Drainage Area	3.16 mi^2	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	002	Design Flow (MGD)	0
Latitude	40º 5' 55.8"	Longitude	-75º 8' 16.2"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater		
Receiving Waters	UNT to Tacony Creek (WWF, MF)	Stream Code	02403
NHD Com ID	25599521	RMI	0.32
Drainage Area	1.14 mi^2	Yield (cfs/mi^2)	0.327
Q_{7-10} Flow (cfs)	0.373	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	227.6	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	009	Design Flow (MGD)	0
Latitude	40º 5' 52.80"	Longitude	-75º 8' 26.40"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Stormwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.27
Drainage Area	3.16 mi^2	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	104	Design Flow (MGD)	0
Latitude	40º 5' 52.03"	Longitude	-75º 8' 21.9"
Quad Name	Germantown	Quad Code	1844
Wastewater Description:	Groundwater		
Receiving Waters	Tacony Creek (WWF, MF)	Stream Code	02391
NHD Com ID	25599507	RMI	8.23
Drainage Area	3.16 mi^2 at 004	Yield (cfs/mi^2)	0.37
Q_{7-10} Flow (cfs)	1.17	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	222.59	Slope (ft/ft)	
Watershed No.	3-J	Chapter 93 Class.	WWF, MF
Existing Use	**WWF**	Existing Use Qualifier	Ch. 93
Exceptions to Use	None	Exceptions to Criteria	N/A
Assessment Status	Impaired		
Cause(s) of Impairment	DEWATERING, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS		
Source(s) of Impairment	URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		
TMDL Status	**None**	Name	**N/A**
Nearest Downstream Public Water Supply Intake	None between discharge points and PA-DE border.		
PWS Waters		Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	

Changes Since Last Permit Issuance: The groundwater cleanup system was taken off-line since 2018 and the permittee currently has no plan to restart the system. However, the treatment system hasn't been taken off completely yet and there is a possibility that the system may be in service in the future. The effluent limitations associated with this activity will still be included in the permit (at IMP 104) until the GWCU is completely removed from the facility and pipe discharging to outfall(s) are capped/removed.

Treatment Facility Summary

SPS Technologies, LLC is a metal fasteners manufacturing facility located at 301 Highland Avenue, Jenkintown, PA 19406, in Abington Township, Montgomery County. The facility discharges into UNT to Tacony Creek and Tacony Creek, designated as Warm Water Fishes and Migratory Fishes (WWF/MF) in state watershed 3-J. The SIC code for the industrial activity is 3452-Aerospace Fasteners Manufacturer.

Process wastewater, non-contact cooling water, stream condensate and floor cleaning water are treated on-site and discharged to sanitary sewer system at PWD's Northeast Plant. Sanitary sewers from the facility is also discharged to sanitary sewage for treatment at PWD's NE plant. All production wastewater from the facility is pre-treated and discharged via the Cheltenham Township's sewer line. The process runs batchwise, once per day. Wastewater runs through an oil/water separator, chromium reduction, metals precipitation, sand filtration, and pH adjustment. Water is discharged from midnight to 6 AM.

The stormwater from the facility is discharged to surface water under this permit through numerous outfalls. The outfalls are 002, 004, 006, 07, 008, and 009. The outfalls receive wastewater from various parts of the facility as briefly shown below:

Outfall 002: Drainage area 248,700 sq.ft. Receives stormwater from tank farm, boiler area parking, IWTP area parking on northeast side. Its 85% impervious.

Outfall 004: Drainage area 197,300 sq.ft. Receives stormwater from roof drains and driveways on south side, 85% impervious.

Outfall 006-008: Drainage area 265,700 sq.ft. Receives stormwater from parking lot on west side and roof drains. 85% impervious. Outfall 006 is representative of all three outfalls; however, all outfalls are subjected to stormwater BMPs and visual inspection.

Outfall 009: Drainage area 73,500 sq.ft. Receives stormwater from parking lot on west side and roof drains. Stormwater from this area is collected and passes through an OWS prior to discharge. 85% impervious.

Underground storage tanks leaked machining oils and chlorinated cleaning solvents resulted in removal of these and construction of the tank farm for the materials by 1984. Monitoring wells onsite showed contamination. An interceptor trench downgradient from the facility along Tacony Creek and a groundwater cleanup treatment system were installed by 1984. The treatment system was designed for 40-80 GPM. The recovered groundwater was pumped to an inground OWS. Water was pumped to 10- and 5-micron cartridge filters and then through two carbon filters (3,000 lbs. each) in series. Effluent from the carbon filters were discharged through Outfall 004 where it comingles with stormwater. All wastewater contributing to this outfall is collected and piped to an aerated pond prior to discharge through Outfall 004. An internal monitoring point (IMP 104) was created to characterize the treated groundwater effluent. Anticipated flow to this IMP is 0.12 MGD. The following effluent limitations were applied to this IMP in the existing permit:

Parameter	Effluent Concentration (mg/l)			Monitoring Frequency
	Average Monthly	Daily Maximum	Inst. Maximum	
pH (S.U.)	6.0 Inst. Minimum		9.0	1/Month
Oil and Grease	15	30	30	1/Month
1,2 – Dichloroethane	0.007	0.011	0.017	1/Month
Trichloroethylene	0.013	0.020	0.032	1/Month

These limits will be carried over in this renewal.

Sample results provided in the application form for outfalls 002, 004, 005, 006-008, and 009 with benchmarks are provided below:

Parameter	**Maximum Concentrations (mg/l) per Outfall Submitted in Permit Application**				**Benchmark Value (mg/L)**
	Outfall 002	**Outfall 004**	**Outfall 006-008**	**Outfall 009**	
Oil and Grease (mg/l)	<1.5	<1.5	<1.5	2.4	30
Biochemical Oxygen Demand (BOD5) (mg/l)	4.2	2.8	12	<2.0	30
Chemical Oxygen Demand (COD) (mg/l)	<25	<25	50	<25	120
Total Suspended Solids (TSS) (mg/l)	2.1	3.9	26	2.2	100
Total Nitrogen (mg/l)	1.9	0.17	0.52	3.4	-
Total Phosphorus (mg/l)	-	-	-	-	-
pH (S.U.)	7.55	7.64	7.85	7.7	-

The SIC code for this facility is 3452 which falls under PAG03 Appendix U-Fabricated Metal Products. The parameters as listed in Appendix U as well as other parameters believed to be present in the stormwater runoff were added historically in the permit will be carried over.

Compliance History

DMR Data for Outfall 002 (from April 1, 2021 to March 31, 2022)

Parameter	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21
pH (S.U.) Daily Maximum				7.55						7.42		
CBOD5 (mg/L) Daily Maximum				4.20						15		
COD (mg/L) Daily Maximum				< 25						53		
TSS (mg/L) Daily Maximum				2.1						11		
Oil and Grease (mg/L) Daily Maximum				< 1.5						2.6		
Nitrate-Nitrite (mg/L) Daily Maximum				1.9						0.27		
Total Aluminum (mg/L) Daily Maximum				< 0.15						1.0		
Total Chromium (mg/L) Daily Maximum				< 0.0016						0.0075		
Total Copper (mg/L) Daily Maximum				0.019						0.24		
Total Iron (mg/L) Daily Maximum				0.097						2.1		
Total Lead (mg/L) Daily Maximum				< 0.0071						0.017		
Total Zinc (mg/L) Daily Maximum				0.044						0.16		

DMR Data for Outfall 004 (from April 1, 2021 to March 31, 2022)

Parameter	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21
pH (S.U.) Daily Maximum				7.64						6.95		
CBOD5 (mg/L) Daily Maximum				2.80						3.0		
COD (mg/L) Daily Maximum				< 25						32		
TSS (mg/L) Daily Maximum				3.9						2.1		
Oil and Grease (mg/L) Daily Maximum				< 1.5						1.7		

Nitrate-Nitrite (mg/L) Daily Maximum				0.17						< 0.040		
Total Aluminum (mg/L) Daily Maximum				< 0.15						< 0.15		
Total Chromium (mg/L) Daily Maximum				< 0.0016						< 0.0016		
Total Copper (mg/L) Daily Maximum				< 0.012						< 0.012		
Total Iron (mg/L) Daily Maximum				0.060						0.32		
Total Lead (mg/L) Daily Maximum				< 0.0071						< 0.0071		
Total Zinc (mg/L) Daily Maximum				0.0077						0.013		

DMR Data for Outfall 006 (from April 1, 2021 to March 31, 2022)

Parameter	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21
pH (S.U.) Daily Maximum				7.85						7.11		
CBOD5 (mg/L) Daily Maximum				12						< 1.5		
COD (mg/L) Daily Maximum				50						< 25		
TSS (mg/L) Daily Maximum				26						350		
Oil and Grease (mg/L) Daily Maximum				< 1.5						< 1.5		
Nitrate-Nitrite (mg/L) Daily Maximum				0.52						3.5		
Total Aluminum (mg/L) Daily Maximum				< 0.15						< 0.15		
Total Chromium (mg/L) Daily Maximum				0.011						< 0.0016		
Total Copper (mg/L) Daily Maximum				0.030						< 0.012		
Total Iron (mg/L) Daily Maximum				0.17						0.073		
Total Lead (mg/L) Daily Maximum				0.0089						< 0.0071		
Total Zinc (mg/L) Daily Maximum				0.26						0.0047		

DMR Data for Outfall 009 (from April 1, 2021 to March 31, 2022)

Parameter	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21
pH (S.U.) Daily Maximum				7.7						6.87		
CBOD5 (mg/L) Daily Maximum				< 2.0						59		
COD (mg/L) Daily Maximum				< 25						190		
TSS (mg/L) Daily Maximum				2.2						110		
Oil and Grease (mg/L) Daily Maximum				2.4						3.3		
Nitrate-Nitrite (mg/L) Daily Maximum				3.4						0.95		
Total Aluminum (mg/L) Daily Maximum				< 0.15						1.4		
Total Chromium (mg/L) Daily Maximum				< 0.0016						0.029		
Total Copper (mg/L) Daily Maximum				< 0.012						0.17		
Total Iron (mg/L) Daily Maximum				0.13						1.6		
Total Lead (mg/L) Daily Maximum				< 0.0071						0.10		
Total Zinc (mg/L) Daily Maximum				0.013						0.48		

Inspection report:

August 30, 2017: CEI conducted. No violations were cited. Recommended to provide caps/lids on the totes stored outside.

Existing limits

Outfall 002:

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	1/6 months	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 004:

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	1/6 months	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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		
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 006, 007, and 008:

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	1/6 months	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

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		
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Outfall 009:

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	1/6 months	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chemical Oxygen Demand (COD)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Nitrate-Nitrite as N	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Chromium, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

IMP 104:

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		
Flow (MGD) Internal Monitoring Point	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.) Internal Monitoring Point	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
Oil and Grease Internal Monitoring Point	XXX	XXX	XXX	15	30	30	1/month	Grab
1,2-Dichloroethane Internal Monitoring Point	XXX	XXX	XXX	0.007	0.011	0.017	1/month	Grab
Trichloroethylene Internal Monitoring Point	XXX	XXX	XXX	0.013	0.020	0.032	1/month	Grab

Removal of some parameters:

The DMR data shows that Total Chromium is consistently non-detected from all outfalls and below most stringent water quality criteria. It is no longer pollutant of concern and may be removed from monitoring from all outfalls. In addition, there is no industrial activities that has a potential to contribute to biochemical oxygen demand on the discharge; therefore, $CBOD_5$ may also be removed. It should be noted that even though there are some other pollutants that are non-detect and below most stringent criteria, they were not removed since they are listed in PAG03 Appendix U as minimum parameters to be monitored under a general permit.

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) (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	1/6 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
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 002

Other Comments:

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 004, 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	1/6 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
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 004

Other Comments:

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 006, 007, and 008, 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	1/6 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
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 006.

Other Comments: Outfall 006 is representative of Outfalls 006, 007, and 008.

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 009, 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	1/6 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
Nitrate-Nitrite	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Zinc	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: At Outfall 009

Other Comments:

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.

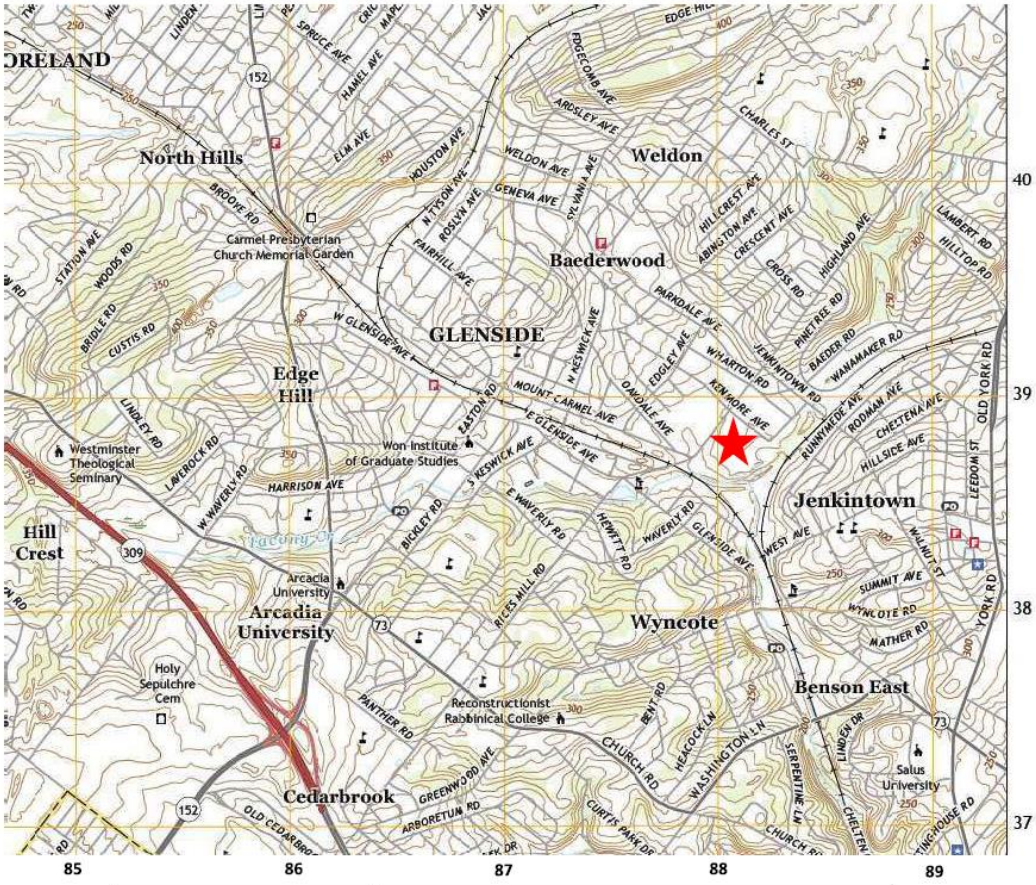
Outfall 104, Effective Period: Permit Effective Date through Permit Expiration Date.

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		
Flow (MGD) Internal Monitoring Point	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.) Internal Monitoring Point	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
Oil and Grease Internal Monitoring Point	XXX	XXX	XXX	15	30	30	1/month	Grab
1,2-Dichloroethane Internal Monitoring Point	XXX	XXX	XXX	0.007	0.011	0.017	1/month	Grab
Trichloroethylene Internal Monitoring Point	XXX	XXX	XXX	0.013	0.020	0.032	1/month	Grab

Compliance Sampling Location: At IMP 104. To be monitored at pipe discharging to spray pond.

Other Comments:

Tools and References Used to Develop Permit	
☐	WQM for Windows Model (see Attachment)
☐	Toxics Management Spreadsheet (see Attachment)
☐	TRC Model Spreadsheet (see Attachment)
☐	Temperature Model Spreadsheet (see Attachment)
☐	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
☐	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
☐	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
☐	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
☐	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
☐	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
☐	Pennsylvania CSO Policy, 385-2000-011, 9/08.
☐	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
☐	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
☐	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
☐	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
☐	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
☐	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
☐	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
☐	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
☐	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
☐	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
☐	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
☐	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
☐	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
☐	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
☐	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
☐	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
☐	Design Stream Flows, 391-2000-023, 9/98.
☐	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
☐	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
☐	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
☐	SOP:
☐	Other:



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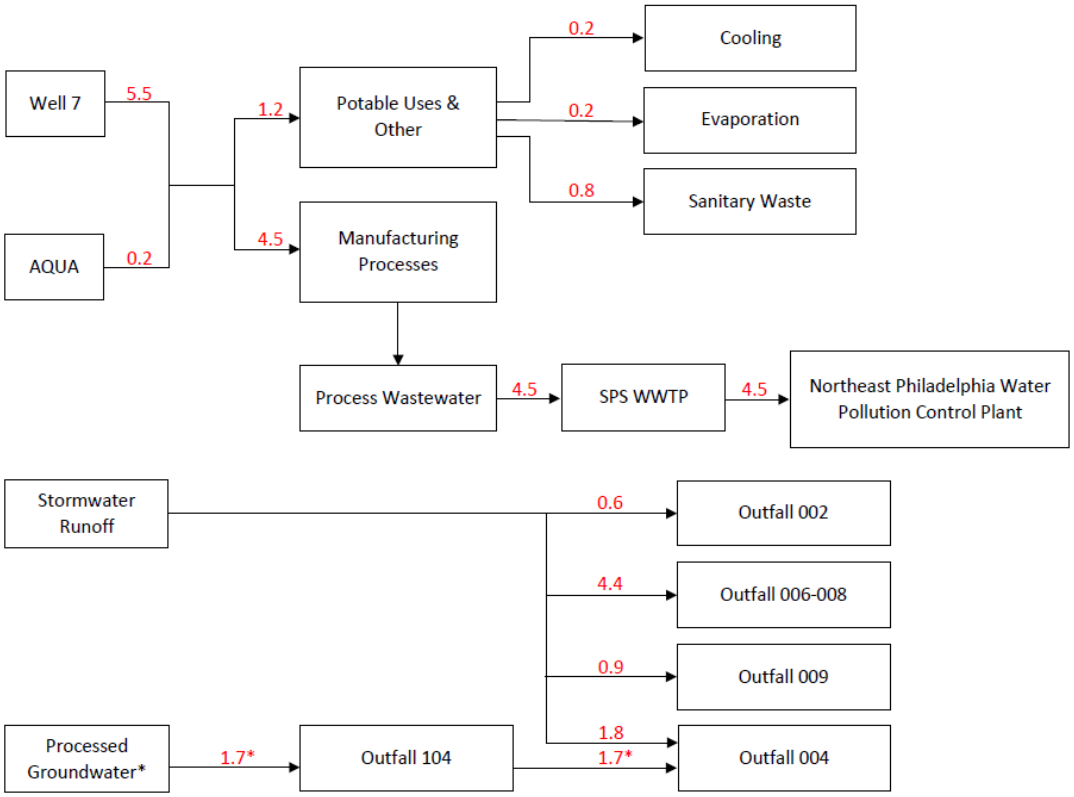
DRAWING NAME: **TOPOGRAPHIC**	FIGURE NUMBER: **1**
SCALE: **1:24,000**	DATE: **NOVEMBER 2021**

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.18

SPS TECHNOLOGIES
NPDES PERMIT RENEWAL 2022
WASTEWATER & STORMWATER FLOW DIAGRAM



*Processed groundwater has not been discharged from Outfall 104/004 since 2018.
Flow is in average million gallons per month
Sample point for each outfall near where flow enters creek