pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

Application Type	**New**	Application No.	**PA0256005**
Facility Type	**Storm Water**	APS ID	**1048960**
Major / Minor	**Minor**	Authorization ID	**1371619**

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

Applicant and Facility Information

Applicant Name	**Say Core, Inc.**	Facility Name	**Say Core Portage Plant**
Applicant Address	132 Block Road	Facility Address	132 Block Road
	Portage, PA 15946-6905		Portage, PA 15946-6905
Applicant Contact	Barry L. Saylor	Facility Contact	Barry L. Saylor
Applicant Phone	(814) 736-8018	Facility Phone	(814) 736-8018
Client ID	207064	Site ID	611494
SIC Code	3273	Municipality	Portage Township
SIC Description	Manufacturing - Ready-Mixed Concrete	County	Cambria
Date Application Received	September 29, 2021	EPA Waived?	Yes
Date Application Accepted	November 11, 2021	If No, Reason	

Purpose of Application: New NPDES Permit Coverage of Stormwater Discharges Associated with Industrial Activities.

Summary of Review

Background

The Department received a new NPDES permit application from Say Core, Inc. on September 29, 2021 for coverage of its Say Core Portage Plant in Portage Township of Cambria County. Say Core Portage Plant operates as a pre-cast concrete plank manufacturing facility with an SIC Code 3273 (Manufacturing – Ready-Mixed Concrete). The facility was initially inspected on March 27, 2018 in response to a complaint. During the inspection concrete process water was observed discharging to the stream and the facility was recommended to submit an NPDES permit application.

Property and Operations

The Say Core Portage Plant has been in business for over 60 years; operations consist of the production and storage of precast concrete plank. The facility's property consists of 3,287,559 ft^2 of mostly compacted gravel and includes an office building, abandoned production facility, vehicle maintenance building, plank production building, concrete batch plant, sand and aggregate bulk storage bunker, aggregate storage areas, production water holding tanks, and plank storage area. The buildings do not contain floor drains. Spring Run, the facility's receiving stream, bisects the site. Concrete and metal waste piles are located near the batch plant and on the hill on the west side of the site. A large historic concrete waste pile remains on the hill from a previous property owner. Say Core mixes and pours concrete materials under roof in the production building. Two fuel tanks are located on a concrete pad on the south side of the production building.

Say Core's plank production building previously included two wastewater streams: water discharging from forms and cooling abrasion water used to cut concrete. Say Core has eliminated all industrial wastewater discharges observed during the March 2018 inspection. The cooling water and process water previously discharged from the production building are now

Approve	Deny	Signatures	Date
X		Lauren Nolfi, E.I.T. / Environmental Engineering Specialist	August 17, 2022
X		Michael E. Fifth, P.E. / Environmental Engineer Manager	September 2, 2022

Summary of Review

collected in two concrete tanks. A trench drain next to the production building and process water from the onsite batch plant also discharge to the two concrete tanks. Solids are settled out of the wastewater and disposed of as waste. The separated effluent is recycled back into the production building to be used in the saw blade cutting and concrete processes.

Say Core has not completed a Preparedness, Prevention and Contingency (PPC) Plan for its facility. A Part C condition in the NPDES Permit requires Say Core to develop and implement a PPC Plan in accordance with 25 Pa. Code § 91.34.

Outfalls

Say Core discharges stormwater through Outfalls 001, 002, 003, 004, 005, 007, 011, 013, and 014 to Spring Run, designated in 25 PA Code Chapter 93 as a Cold Water Fishery (CWF). The eight outfalls discharge stormwater runoff from truck traffic and bulk material delivery areas, plank storage areas, recycled product storage areas, vehicle maintenance and vehicle storage areas, office parking areas, and township road drainage areas. Several ditches throughout the site convey the runoff to Spring Run. Say Core's site plan is included in Attachment B to show stormwater flow at the facility and the outfall locations. A summary of the outfall locations, drainage areas and outfall photographs are included in Attachment C.

Outfall 007 was identified in the permit application as Outfall 004A and is renamed as Outfall 007 for clarification of the outfall's eFacts ID and to prevent confusion in eDMR. Outfalls 006, 010 and 012 were identified in the permit application, but determined during the most recent site inspection to discharge to other outfalls on the property. Outfall 006 discharges stormwater runoff the recycled product storage area on the hill and is represented by Outfall 007. Outfall 010 discharges stormwater from the vehicle maintenance and vehicle storage area and is represented by Outfall 011. Outfall 012 discharges stormwater from the office parking and township road drainage and is represented by Outfall 011. Outfalls 006, 010 and 012 are not included in the NPDES permit.

Public Participation

Say Core provided evidence of Act 14 municipal and county notifications to Portage Township and Cambria County on December 17, 2019.

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.

Conclusion

Draft permit issuance is recommended.

Discharge, Receiving Waters and Water Supply Information

Outfall No.	See Table 1	Design Flow (MGD)	Varies (Stormwater)
Latitude	See Table 1	Longitude	See Table 1
Quad Name	Ebensburg	Quad Code	1516
Wastewater Description:	Stormwater		
Receiving Waters	Spring Run (CWF)	Stream Code	46070
NHD Com ID	123718464	RMI	See Table 1
Drainage Area	See Table 1	Yield (cfs/mi^2)	See Table 1
Q_{7-10} Flow (cfs)	See Table 1	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	See Table 1	Slope (ft/ft)	
Watershed No.	18-E	Chapter 93 Class.	CWF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Impaired		
Cause(s) of Impairment	Metals, pH, Siltation		
Source(s) of Impairment	Acid Mine Drainage		
TMDL Status	Final, Tentative	Name	Kiskiminetas-Conemaugh River Watersheds TMDL,Spring Run (Cambria)
Nearest Downstream Public Water Supply Intake	Saltsburg Municipal Waterworks		
PWS Waters	Conemaugh River	Flow at Intake (cfs)	0.93
PWS RMI	0.5197	Distance from Outfall (mi)	73.5

Other Comments:

The USGS Stream Stats Data for the drainage area is displayed in Attachment A.

Outfall locations for the above-mentioned outfalls are displayed below in Table 1.

Table 1: Stormwater Outfall Locations

Outfall	Latitude	Longitude	RMI	Drainage Area (mi^2)	Q_{7-10} Flow (cfs)	Yield (cfs/mi^2)	Elevation (ft)
001	40º 23' 28.08"	-78º 39' 35.27"	1.21	2.12	0.17	0.0802	1692
002	40º 23' 31.84"	-78º 39' 30.33"	1.31	2.09	0.168	0.0804	1706
003	40º 23' 31.30"	-78º 39' 32.14"	1.29	2.09	0.168	0.0804	1706
004	40º 23' 33.25"	-78º 39' 32.61"	1.33	2.09	0.168	0.0804	1706
005	40º 23' 33.14"	-78º 39' 32.46"	1.32	2.09	0.168	0.0804	1706
007	40º 23' 35.98"	-78º 39' 33.74"	1.38	2.06	0.166	0.0806	1712
011	40º 23' 39.57"	-78º 39' 30.42"	1.45	2.04	0.164	0.0804	1717
013	40º 23' 44.73"	-78º 39' 23.89"	1.60	2.00	0.161	0.0805	1724
014	40º 23' 41.72"	-78º 39' 30.58"	1.48	2.03	0.163	0.0803	1711

Compliance History	
Summary of DMRs:	Say Core Portage Plant was not previously covered under an NPDES permit.
Summary of Inspections:	An inspection was conducted on March 27, 2018 by the permit engineer and local water quality specialist in response to a complaint. During the inspection concrete process water discharges were observed and the facility was recommended to submit an NPDES permit application, to ensure materials are stored with adequate cover, to enact good housekeeping practices to prevent the contamination of stormwater, and to label all materials. DEP's Waterways and Wetlands Program issued Say Core a violation on July 3, 2018 for failure to obtain Chapter 105 permitting and to address several Chapter 105 permit issues. The local water quality specialist conducted another inspection on March 27, 2019 and DEP's Clean Water Program issued Say Core a violation on April 30, 2019 for the failure to submit an NPDES permit application and discharging without an NPDES permit. Say Core responded to the Notice of Violations on May 22, 2019 but did not submit an NPDES permit application until September 29, 2021. The facility was most recently inspected on March 30, 2022 by the permit engineer, permitting section chief and local water quality specialist. No violations were noted. During the inspection the following observations were made: - Some outfalls are representative of the same stormwater as other outfalls so may not have to be sampled; - Say Core proposed constructing several diversion swales/ ditches to convey the stormwater to an outfall that can by sampled; - Say Core proposed installing filter socks at the outfall locations to help reduce total suspended solids in discharge; - No floor drains are located in either of the maintenance buildings; - White deposits observed in Spring Run near Outfall 011 and Outfall 004; - The facility is no longer discharging industrial wastewater. The cooling water and process water that previously discharged from the production building now enters two concrete tanks. The client has no open violations.

Development of Effluent Limitations

Outfall No.	001	**Design Flow (MGD)**	Varies
Latitude	40º 23' 28.08"	**Longitude**	-78º 39' 35.27"
Wastewater Description:	Stormwater runoff from 53,368 sq. ft. drainage area including truck traffic and bulk material delivery.		

Outfall No.	002	**Design Flow (MGD)**	Varies
Latitude	40º 23' 31.84"	**Longitude**	-78º 39' 30.33"
Wastewater Description:	Stormwater runoff from 68,945 sq. ft. of plank storage area.		

Outfall No.	003	**Design Flow (MGD)**	Varies
Latitude	40º 23' 31.30"	**Longitude**	-78º 39' 32.14"
Wastewater Description:	Stormwater runoff from 29,240 sq. ft. of recycled product storage and plank storage areas.		

Outfall No.	004	**Design Flow (MGD)**	Varies
Latitude	40º 23' 33.25"	**Longitude**	-78º 39' 32.61"
Wastewater Description:	Stormwater runoff from 35,820 sq. ft. of plank storage area.		

Outfall No.	005	**Design Flow (MGD)**	Varies
Latitude	40º 23' 33.14"	**Longitude**	-78º 39' 32.46"
Wastewater Description:	Stormwater runoff from 107,175 sq. ft. of plank storage area.		

Outfall No.	007	**Design Flow (MGD)**	Varies
Latitude	40º 23' 35.98"	**Longitude**	-78º 39' 33.74"
Wastewater Description:	Stormwater runoff from 187,045 sq. ft. of plank storage area.		

Outfall No.	011	**Design Flow (MGD)**	Varies
Latitude	40º 23' 39.57"	**Longitude**	-78º 39' 30.42"
Wastewater Description:	Stormwater runoff from 122,397 sq. ft. plank storage area and runoff from Outfalls 010 and O12.		

Outfall No.	013	**Design Flow (MGD)**	Varies
Latitude	40º 23' 44.73"	**Longitude**	-78º 39' 23.89"
Wastewater Description:	Stormwater runoff from 141,478 sq. ft. of township road drainage and vehicle storage area.		

Outfall No.	014	**Design Flow (MGD)**	Varies
Latitude	40º 23' 41.72"	**Longitude**	-78º 39' 30.58"
Wastewater Description:	Stormwater runoff from 33,348 sq. ft. of office parking and storage area.		

Outfall 007 was identified in the permit application as Outfall 004A and is renamed as Outfall 007 for clarification of the outfall's eFacts ID and to prevent confusion in eDMR. Outfalls 006, 010 and 012 were identified in the permit application, but determined during the most recent site inspection to discharge to other outfalls on the property. Outfall 006 discharges stormwater runoff from 54,788 sq. ft. of recycled product storage area on the hill and is represented by Outfall 007. Outfall 010 discharges stormwater from 352,708 sq. ft. of vehicle maintenance and vehicle storage area and is represented by Outfall 011. Outfall 012 discharges stormwater from 33,177 sq. ft. of office parking and township road drainage and is represented by Outfall 011. Outfalls 006, 010 and 012 are not included in the NPDES permit.

Stormwater Sampling Data

Stormwater effluent data reported in the application are compared to EPA's Multi-Sector General Permit benchmark values while considering site specific conditions such as stream flow and location to determine if the actual discharge concentrations of various pollutants in stormwater warrant further controls. If there is insufficient data available, or if pollutant levels are excessive, monitoring for specific pollutants and/or a SWPPP may be required in the permit. DEP's Permit Writers' Manual recommends that monitoring of stormwater runoff be established if there is evidence that the stormwater may be contaminated with pollutants of interest to observe the impact of the facility's BMPs on stormwater effluent quality.

Stormwater data in the NPDES permit application submittal from September 2021 is summarized in Table 3 below. Stormwater samples were collected only from Outfalls 002, 004, 007, and 010 and considered representative of the other eight outfalls. Table 2 summarizes the sampled outfalls, the outfalls considered represented by the sampled outfalls, and any existing BMPs in the outfall drainage areas.

Table 2: Stormwater Outfall Application Sampling

Outfall	Sampling Completed	Representative Outfall	Treatment?	Treatment or BMPs in Drainage Area
001		004	X	Compost Filter Sock
002	X		X	Compost Filter Sock
003		002	X	Compost Filter Sock
004	X			Ditch #7
005		002	X	Compost Filter Sock
007	X			Ditch #8
006		04A		Ditch #5
010	X		X	Compost Filter Sock
011		010	X	Ditch #11
012		010		None
013		002		None
014		002		None

Stormwater data in the NPDES permit application submittal from September 2021 is summarized in Table 3 below. The samples were reportedly collected prior to Say Core's use of concrete settling tanks. Reported analytical results submitted with the NPDES permit application showed elevated concentrations of chemical oxygen demand (COD), total suspended solids (TSS), aluminum, copper, manganese, lead, zinc, and iron. A summary of the maximum discharge concentrations reported in the permit application is shown in Table 3. Values that exceeded the MSGP benchmark values in Table 3 are highlighted in bold.

Table 3 - Application Discharge Concentrations ($^{mg}/_{L}$)

Parameter	2021 MSGP Benchmark	Outfall 002		Outfall 004		Outfall 007	Outfall 010
Sample Date		5/10/21	6/11/21	5/10/21	6/11/21	5/10/21	6/11/21
pH	6.0 – 9.0	7.38	7.66	8.22	8.38	7.18	7.64
Chemical Oxygen Demand (mg/L)	120	**211**	39.7	**128**	27.7	<15.0	**145**
Total Dissolved Solids (mg/L)	-	296	372	100	316	126	228
Oil and Grease (mg/L)	30	< 5.00	< 1.72	< 5.00	< 1.72	< 5.00	< 1.72
Total Suspended Solids (mg/L)	100	**820**	95.0	**5840**	**1220**	1.60	**109**
Aluminum (µg/L)	1100	**4280**	64.3	**58,100**	**2030**	<100	**283**
Barium (µg/L)	-	171	149	1620	105	42.1	202
Copper (µg/L)	5.19	**16.5**	4.46	**137**	**6.97**	<2.50	**9.10**
Manganese (µg/L)	-	316	33.9	4220	168	6.55	335
Lead (µg/L)	82	7.35	0.180	**119**	3.20	<0.100	1.63
Zinc (µg/L)	120	116	35.1	**269**	17.7	3.60	18.2
Iron (µg/L)	-	775	390	42,600	3660	<20	590

Based on the above pollutant discharge concentrations reported to the Department in the NPDES permit application and to ensure that adequate BMPs are in place and effective, the Department has included benchmark values from the EPA's Multisector General Permit document in Part C of the Draft Permit. Benchmark values for chemical oxygen demand and total suspended solids are included in the Draft Permit, since the samples exceeded the benchmark values for each

parameter at multiple outfalls and these parameters are considered to be pollutant indicators. The benchmark values are included in Table 5.

Technology-Based Limitations

Outfalls 001, 002, 003, 004, 005, 007, 011, 013, and 014 will be subject to the monitoring requirements in Appendix N of the PAG-03 General Stormwater Permit as a minimum requirement because the outfalls receive stormwater only. The SIC code for the site is 3273 and the corresponding appendix that would apply to the facility is Appendix N of the PAG-03. Appendix N reporting requirements are in Table 4 below. Along with the monitoring requirements, sector specific BMPs included in Appendix N of the PAG-03 will also be included in Part C of the Draft Permit.

Table 4: PAG-03 Appendix N Monitoring Requirements

Parameters	Average Monthly (mg/L)	Daily Maximum (mg/L)	Benchmark Values (mg/L)	Monitoring Requirements	
				Monitoring Frequency	Sample Type
pH (S.U.)	XXX	Monitor & Report	9.0	1/6 Months	Grab
Total Suspended Solids	XXX	Monitor & Report	100	1/6 Months	Grab
Total Aluminum	XXX	Monitor & Report	XXX	1/6 Months	Grab
Total Iron	XXX	Monitor & Report	XXX	1/6 Months	Grab

Water Quality-Based Limitations

Water quality analyses are typically performed under low-flow (Q_{7-10}) conditions. Stormwater discharges occur at variable rates and frequencies but not however during Q_{7-10} conditions. Since the discharges from Say Core are composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations are not proposed.

Total Maximum Daily Loads

The stormwater discharges from the Say Core Portage Plant are located within the Kiskiminetas-Conemaugh River Watersheds for which the Department has developed a TMDL. The TMDL was finalized on January 29, 2010 and establishes waste load allocations for the discharge of aluminum, iron and manganese within the Kiskiminetas-Conemaugh River Watersheds. Section 303(d) of the Clean Water Act and the U.S. Environmental Protection Agency's Water Quality Planning and Management Regulations (codified at Title 40 of the *Code of Federal Regulations* Part 130) require states to develop a TMDL for impaired water bodies. A TMDL establishes the amount of a pollutant that a water body can assimilate without exceeding the water quality criteria for that pollutant. TMDLs provide the scientific basis for a state to establish water quality-based controls to reduce pollution from both point and non-point sources in order to restore and maintain the quality of the state's water resources (USEPA 1991a). Stream reaches within the Kiskiminetas-Conemaugh River Watersheds are included in the state's 2008 Section 303(d) list because of various impairments, including metals, pH and sediment. The TMDL includes consideration for each river and tributary within the target watershed and its impairment sources. Stream data is then used to calculate minimum pollutant reductions that are necessary to attain water quality criteria levels. Target concentrations published in the TMDL were based on established water quality criteria of 0.750 $^{mg}/_{L}$ total recoverable aluminum, 1.5 $^{mg}/_{L}$ total recoverable iron based on a 30-day average and 1.0 $^{mg}/_{L}$ total recoverable manganese. The reduction needed to meet the minimum water quality standards is then divided between each known point and non-point pollutant source in the form of a watershed allocation. TMDLs prescribe allocations that minimally achieve water quality criteria (i.e., 100 percent use of a stream's assimilative capacity). Since only stormwater is discharged through the facility's outfalls, only monitor and report for aluminum, iron and manganese will be imposed at Outfalls 001, 002, 003, 004, 005, 007, 011, 013, and 014 based on the Kiskiminetas-Conemaugh River Watersheds TMDL.

Anti-Backsliding

Say Core was not previously covered under an NPDES permit. EPA's anti-backsliding regulation, 40 CFR 122.44(l) is not applicable to the Say Core Portage Plant.

Proposed Monitoring Requirements

The proposed effluent monitoring requirements for Outfalls 001, 002, 003, 004, 005, 007, 011, 013, and 014 are displayed in Table 5 below. A Part C condition is included in the Draft Permit requiring development and submission of a Corrective Action Plan in the event that stormwater discharge concentrations for a parameter exceeds the benchmark values identified below at the same outfall for two or more consecutive monitoring periods. These values are from EPA'S Multisector General Permit document and are not effluent limitations. Exceedance of the benchmark values is not a violation. EPA's 2021 Multi-Sector General Permit Benchmark Values are displayed in Attachment D.

If there are two or more consecutive exceedances of the benchmark value at the same outfall, a Corrective Action Plan must be conducted to evaluate site stormwater controls and BMPs. Benchmark monitoring is a feedback tool, along with routine inspections and visual assessments, for assessing the effectiveness of stormwater controls and BMPs. An exceedance of the benchmark provides permittees with an indication that the facility's controls may not be sufficiently controlling pollutants in stormwater. If Say Core is unable to consistently achieve the benchmark values, the Department may consider the imposition of effluent limitations in the future.

The sampling frequency will be 1/ month for all parameters so that sufficient data is generated to reliably compare sampling data with benchmark values.

Table 5: Proposed Monitoring Requirements – Outfalls 001, 002, 003, 004, 005, 007, 011, 013, and 014

Parameters	Maximum Daily (mg/L)	Benchmark Values (mg/L)	Monitoring Requirements	
			Monitoring Frequency	Sample Type
Total Suspended Solids	Monitor & Report	100	1/month	Grab
Chemical Oxygen Demand	Monitor & Report	120	1/month	Grab
Aluminum, total	Monitor & Report	-	1/month	Grab
Iron, total	Monitor & Report	-	1/month	Grab
Manganese, total	Monitor & Report	-	1/month	Grab
pH (S.U.)	Monitor & Report	6.0 – 9.0	1/month	Grab

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:

Attachments

Attachment A: StreamStats Reports

Attachment B: Say Core Site Plan

Attachment C: Summary of Outfalls and Photographs

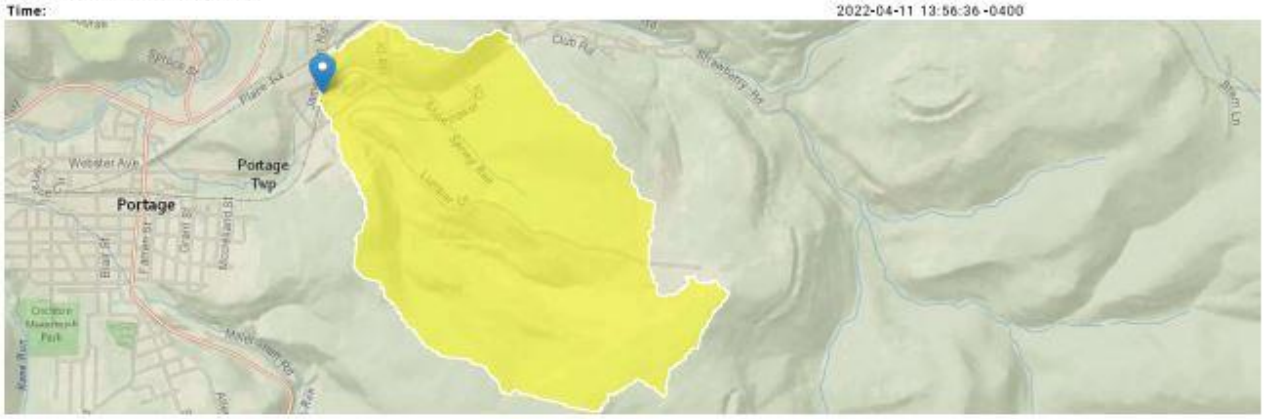
Attachment D: EPA 2021 Multi-Sector General Permit Benchmark Values

ATTACHMENT A:

StreamStats Reports for Outfalls 001, 002, 003, 007, 011, 013

StreamStats Report

Region ID:	PA
Workspace ID:	PA20220411175615871000
Clicked Point (Latitude, Longitude):	40.39556, -78.65668
Time:	2022-04-11 13:56:36 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2	square miles
ELEV	Mean Basin Elevation	2142	feet
PRECIP	Mean Annual Precipitation	48	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2	square miles	2.33	1720
ELEV	Mean Basin Elevation	2142	feet	898	2700
PRECIP	Mean Annual Precipitation	48	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

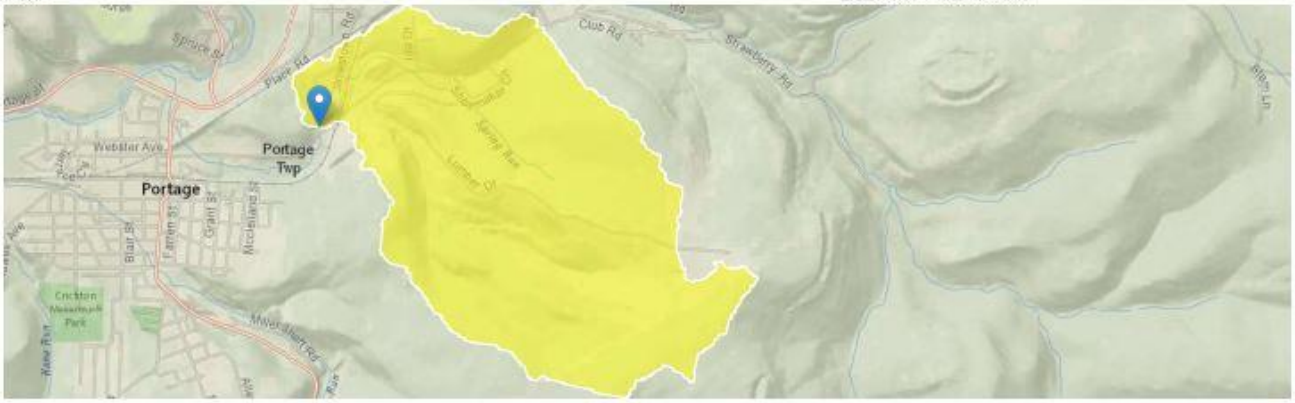
Statistic	Value	Unit
7 Day 2 Year Low Flow	0.336	ft^3/s
30 Day 2 Year Low Flow	0.496	ft^3/s
7 Day 10 Year Low Flow	0.161	ft^3/s
30 Day 10 Year Low Flow	0.213	ft^3/s
90 Day 10 Year Low Flow	0.31	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

StreamStats Report

Region ID:	PA
Workspace ID:	PA20220411154233554000
Clicked Point (Latitude, Longitude):	40.39229, -78.65913
Time:	2022-04-11 11:42:53 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.09	square miles
ELEV	Mean Basin Elevation	2125	feet
PRECIP	Mean Annual Precipitation	48	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.09	square miles	2.33	1720
ELEV	Mean Basin Elevation	2125	feet	898	2700
PRECIP	Mean Annual Precipitation	48	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.349	ft^3/s
30 Day 2 Year Low Flow	0.515	ft^3/s
7 Day 10 Year Low Flow	0.168	ft^3/s
30 Day 10 Year Low Flow	0.222	ft^3/s
90 Day 10 Year Low Flow	0.323	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

StreamStats Report

Region ID:	PA
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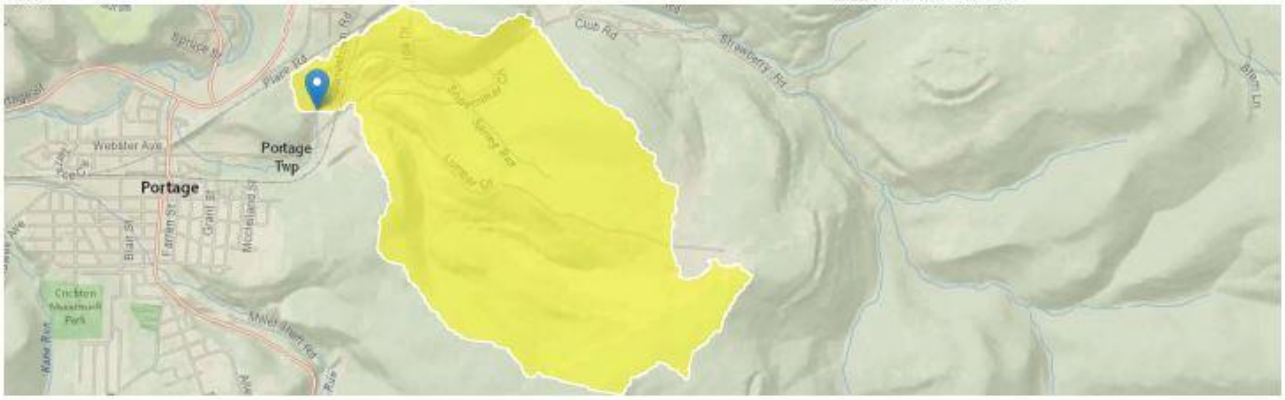

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.06	square miles
ELEV	Mean Basin Elevation	2130	feet
PRECIP	Mean Annual Precipitation	48	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.06	square miles	2.33	1720
ELEV	Mean Basin Elevation	2130	feet	898	2700
PRECIP	Mean Annual Precipitation	48	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.345	ft^3/s
30 Day 2 Year Low Flow	0.509	ft^3/s
7 Day 10 Year Low Flow	0.166	ft^3/s
30 Day 10 Year Low Flow	0.219	ft^3/s
90 Day 10 Year Low Flow	0.318	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

StreamStats Report

Region ID:	PA
Workspace ID:	PA20220411174749444000
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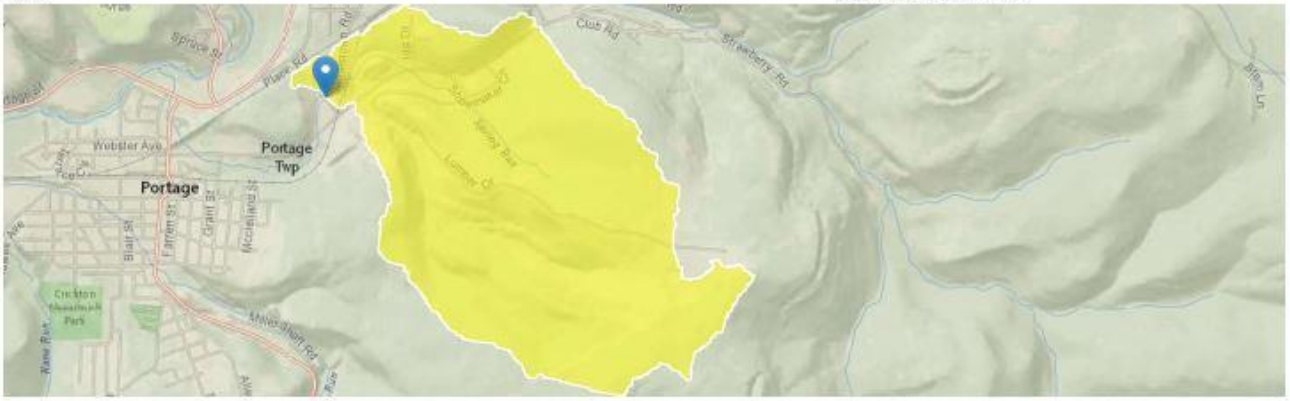

Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2.04	square miles
ELEV	Mean Basin Elevation	2134	feet
PRECIP	Mean Annual Precipitation	48	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2.04	square miles	2.33	1720
ELEV	Mean Basin Elevation	2134	feet	898	2700
PRECIP	Mean Annual Precipitation	48	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.342	ft^3/s
30 Day 2 Year Low Flow	0.504	ft^3/s
7 Day 10 Year Low Flow	0.164	ft^3/s
30 Day 10 Year Low Flow	0.217	ft^3/s
90 Day 10 Year Low Flow	0.316	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

StreamStats Report

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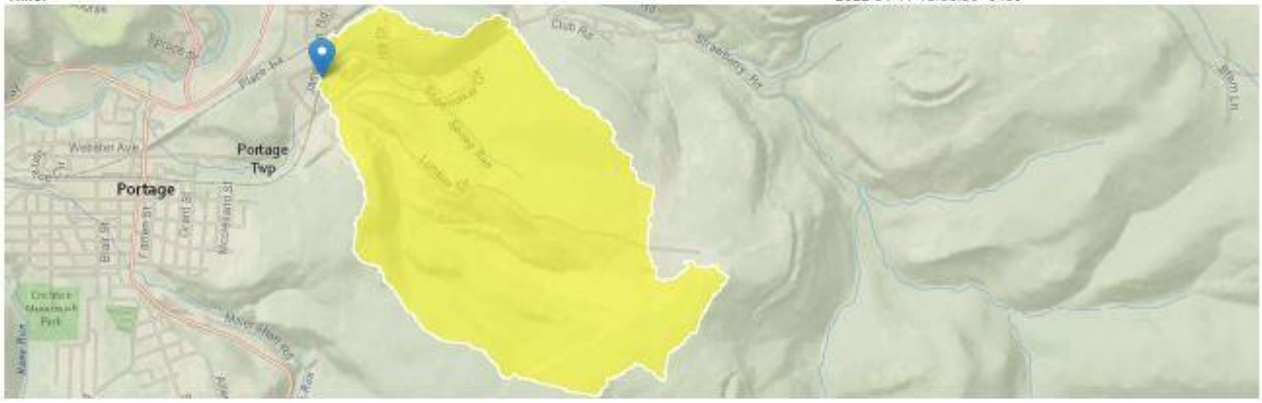


Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	2	square miles
ELEV	Mean Basin Elevation	2142	feet
PRECIP	Mean Annual Precipitation	48	inches

Low-Flow Statistics Parameters [Low Flow Region 3]

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	2	square miles	2.33	1720
ELEV	Mean Basin Elevation	2142	feet	898	2700
PRECIP	Mean Annual Precipitation	48	inches	38.7	47.9

Low-Flow Statistics Disclaimers [Low Flow Region 3]

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors.

Low-Flow Statistics Flow Report [Low Flow Region 3]

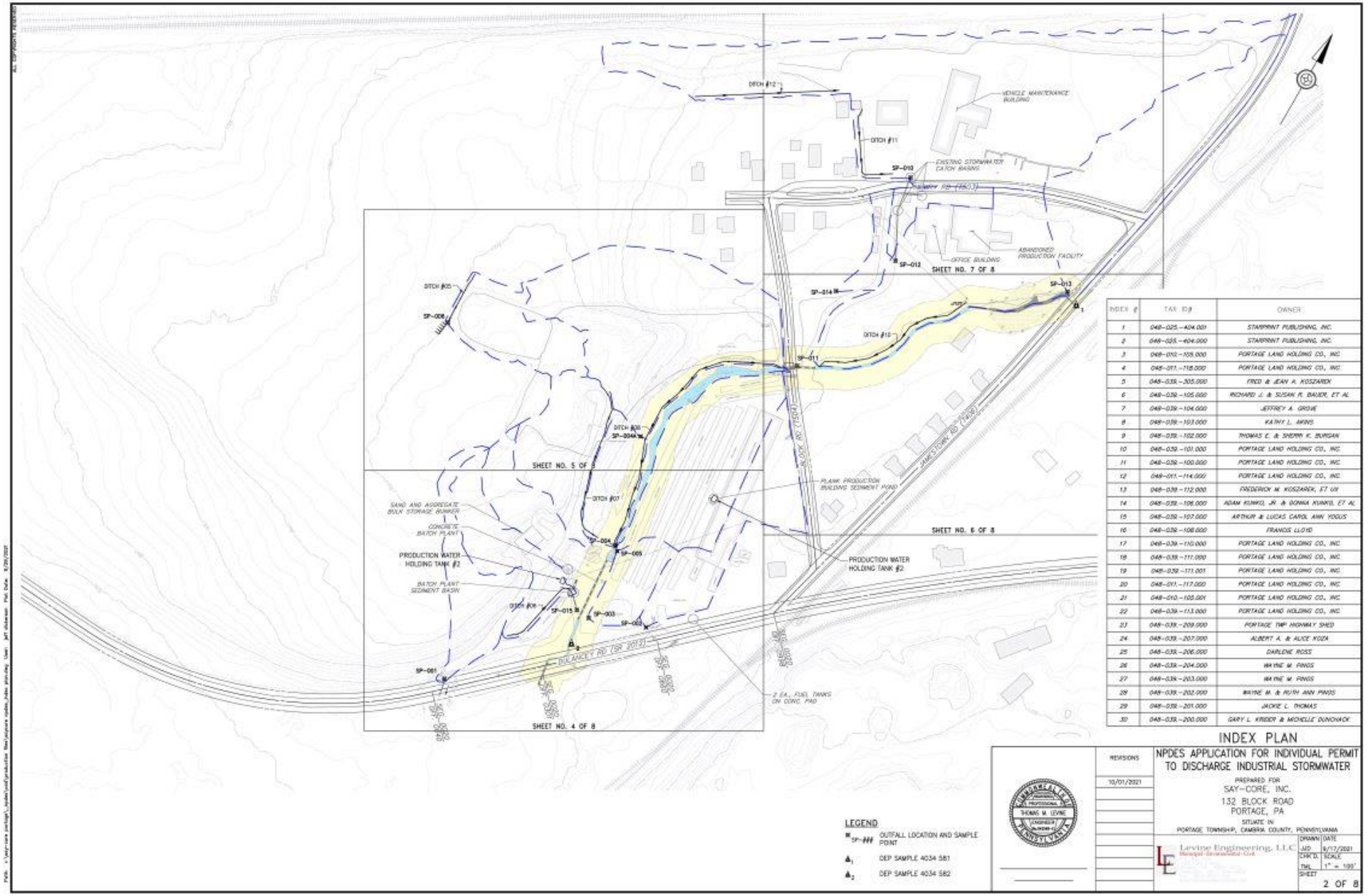
Statistic	Value	Unit
7 Day 2 Year Low Flow	0.336	ft^3/s
30 Day 2 Year Low Flow	0.496	ft^3/s
7 Day 10 Year Low Flow	0.161	ft^3/s
30 Day 10 Year Low Flow	0.213	ft^3/s
90 Day 10 Year Low Flow	0.31	ft^3/s

Low-Flow Statistics Citations

Stuckey, M.H.,2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p. (http://pubs.usgs.gov/sir/2006/5130/)

ATTACHMENT B:

Say Core Site Plan



INDEX #	TAX ID #	OWNER
1	048-025.-404.001	STAIRPRINT PUBLISHING, INC.
2	048-025.-404.000	STAIRPRINT PUBLISHING, INC.
3	048-010.-105.000	PORTAGE LAND HOLDING CO., INC.
4	048-011.-116.000	PORTAGE LAND HOLDING CO., INC.
5	048-039.-205.000	FRED & JEAN A. KOSZAREK
6	048-039.-105.000	RICHARD J. & SUSAN R. BAUER, ET AL
7	048-039.-104.000	JEFFREY A. GROVE
8	048-039.-103.000	KATHY L. AKINS
9	048-039.-102.000	THOMAS E. & SHERRI K. BURSIAN
10	048-039.-101.000	PORTAGE LAND HOLDING CO., INC.
11	048-039.-100.000	PORTAGE LAND HOLDING CO., INC.
12	048-011.-114.000	PORTAGE LAND HOLDING CO., INC.
13	048-039.-112.000	FREDERICK M. KOSZAREK, ET UX
14	048-039.-106.000	ADAM KUNKO, JR & DONNA KUNKO, ET AL
15	048-039.-107.000	ARTHUR & LUCAS CAROL ANN YOCUS
16	048-039.-108.000	FRANCIS LLOYD
17	048-039.-110.000	PORTAGE LAND HOLDING CO., INC.
18	048-039.-111.000	PORTAGE LAND HOLDING CO., INC.
19	048-039.-111.001	PORTAGE LAND HOLDING CO., INC.
20	048-011.-117.000	PORTAGE LAND HOLDING CO., INC.
21	048-010.-105.001	PORTAGE LAND HOLDING CO., INC.
22	048-039.-113.000	PORTAGE LAND HOLDING CO., INC.
23	048-039.-209.000	PORTAGE TWP HIGHWAY SHED
24	048-039.-207.000	ALBERT A. & ALICE KOZA
25	048-039.-206.000	DARLENE ROSS
26	048-039.-204.000	WAYNE M. PINOS
27	048-039.-203.000	WAYNE M. PINOS
28	048-039.-202.000	WAYNE M. & RUTH ANN PINOS
29	048-039.-201.000	JACKIE L. THOMAS
30	048-039.-200.000	GARY L. KRIDER & MICHELLE DUNCHACK

INDEX PLAN

LEGEND
- SP-### OUTFALL LOCATION AND SAMPLE POINT
- $\blacktriangle_1$ DEP SAMPLE 4034 581
- $\blacktriangle_2$ DEP SAMPLE 4034 582

REVISIONS
10/01/2021

NPDES APPLICATION FOR INDIVIDUAL PERMIT TO DISCHARGE INDUSTRIAL STORMWATER

PREPARED FOR
SAY-CORE, INC.
132 BLOCK ROAD
PORTAGE, PA

SITUATE IN
PORTAGE TOWNSHIP, CAMBRIA COUNTY, PENNSYLVANIA

THOMAS M. LEVINE
COMMONWEALTH OF PENNSYLVANIA

Levine Engineering, LLC
Municipal Environmental Civil

DRAWN	DATE
JJD	9/17/2021
CHK'D	SCALE
TML	1" = 100'
SHEET	
2 OF 8	

ATTACHMENT C:

Summary of Outfalls and Photographs

OUTFALL SP-001

OUTFALL SP-002

OUTFALL SP-004

OUTFALL SP-004A

OUTFALL SP-010

OUTFALL SP-011

OUTFALL SP-012

OUTFALL SP-013

OUTFALL SP-014

DRAINAGE CHANNEL SCHEDULE

DITCH ID. NO.	BOTTOM WIDTH (B) FEET	DEPTH (D) FEET	SIDE SLOPES (Z) Z:1	LINING TYPE	DRAINAGE AREA (ACRES)
05	0	0.67	12	GRASS LINED WITH NEOM	1.26
06	0	0.67	12	GRASS LINED WITH NEOM	1.19
07	3	1	2	R-5, RIPRAP	1.44
08	3	1	2	R-5, RIPRAP	6.03
10	0	0.67	12	GRASS LINED WITH NEOM	1.73
11	0	0.67	12	GRASS LINED WITH NEOM	2.23
12	0	0.67	12	GRASS LINED WITH NEOM	2.38

OUTFALL LOCATIONS AND RECEIVING WATERS TABLE

OUTFALL / IMP. NO.	LATITUDE	LONGITUDE	RECEIVING WATERS			
			NAME OF RECEIVING WATERS	CH. 93 CLASS.	IMPAIRED ?	TMDL?
SP-001	N40° 23' 28.08"	W78° 39' 35.27"	PENNDOT CULVERT			
SP-002	N40° 23' 31.84"	W78° 39' 30.33"	PENNDOT ROADSIDE DITCH			
SP-003	N40° 23' 31.30"	W78° 39' 32.14"	SPRING RUN	CWF	YES	YES
SP-004	N40° 23' 33.25"	W78° 39' 32.61"	SPRING RUN	CWF	YES	YES
SP-004A	N40° 23' 35.98"	W78° 39' 33.74"	SPRING RUN	CWF	YES	YES
SP-005	N40° 23' 33.14"	W78° 39' 32.46"	SPRING RUN	CWF	YES	YES
SP-006	N40° 23' 35.97"	W78° 39' 41.24"	SPRING RUN	CWF	YES	YES
SP-010	N40° 23' 45.20"	W78° 39' 30.36"	PORTAGE TOWNSHIP STORM SEWER			
SP-011	N40° 23' 39.57"	W78° 39' 30.42"	PORTAGE TOWNSHIP ROAD			
SP-012	N40° 23' 43.17"	W78° 39' 29.38"	SPRING RUN	CWF	YES	YES
SP-013	N40° 23' 44.73"	W78° 39' 23.89"	SPRING RUN	CWF	YES	YES
SP-014	N40° 23' 44.73"	W78° 39' 23.89"	SPRING RUN	CWF	YES	YES
SP-015	N40° 23' 31.32"	W78° 39' 32.62"	SPRING RUN	CWF	YES	YES

DRAINAGE AREA DESCRIPTION TABLE

Outfall / IMP. No.	Drainage Area (SF)	% Impervious	DESCRIPTION OF MATERIALS/ACTIVITIES	NO EXPOSURE?
SP-001	53,368	20%	TRUCK TRAFFIC AND BULK MATERIAL DELIVERY	
SP-002	68,945	100%	PLANK STORAGE	
SP-003	29,240	100%	PLANK STORAGE	
SP-004	35,820	50%	PLANK STORAGE	
SP-004A	187,045	45%	PLANK STORAGE	
SP-005	107,175	100%	PLANK STORAGE	
SP-006	54,788	49%	RECYCLED PRODUCT STORAGE	
SP-010	352,708	70%	VEHICLE STORAGE	
SP-011	122,397	100%	VEHICLE STORAGE	
SP-012	18,547	100%	TOWNSHIP ROAD AND OFFICE	
SP-013	141,478	83%	PLANK STORAGE	
SP-014	14,802	100%	MATERIAL STORAGE	
SP-015	51,853	11%	TRUCK TRAFFIC AND BULK MATERIAL DELIVERY	

SUMMARY OF OUTFALLS AND PHOTOGRAPHS

REVISIONS
10/01/2021

NPDES APPLICATION FOR INDIVIDUAL PERMIT TO DISCHARGE INDUSTRIAL STORMWATER

PREPARED FOR
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Municipal Environmental Civil

DRAWN | DATE
JJD | 8/17/2021
CHK'D. | SCALE
TML | NO SCALE
SHEET
3 OF 8

ATTACHMENT D:

EPA 2021 Multi-Sector General Permit Benchmark Values

4.2.2.2 Summary of the 2021 MSGP Benchmark Thresholds

The Table 4-2 presents the 2021 MSGP's freshwater and saltwater benchmark thresholds. Sector-specific benchmark requirements are detailed in Part 8. Values match the original units found in the source documents, detailed in the corresponding section of the fact sheet.

Table 4-2 2021 MSGP Benchmark Thresholds

Pollutant		2021 MSGP Benchmark Threshold
Total Recoverable Aluminum (T)		1,100 µg/L
Total Recoverable Beryllium		130 µg/L
Biochemical Oxygen Demand (5-day)		30 mg/L
pH		6.0 – 9.0 s.u.
Chemical Oxygen Demand		120 mg/L
Total Phosphorus		2.0 mg/L
Total Suspended Solids (TSS)		100 mg/L
Nitrate and Nitrite Nitrogen		0.68 mg/L
Turbidity		50 NTU
Total Recoverable Antimony		640 µg/L
Ammonia		2.14 mg/L
Total Recoverable Cadmium	Freshwater[a]	1.8 µg/L
	Saltwater	33 µg/L
Total Recoverable Copper	Freshwater	5.19 µg/L
	Saltwater	4.8 µg/L
Total Recoverable Cyanide	Freshwater	22 µg/L
	Saltwater	1 µg/L
Total Recoverable Mercury	Freshwater	1.4 µg/L
	Saltwater	1.8 µg/L
Total Recoverable Nickel	Freshwater[a]	470 µg/L
	Saltwater	74 µg/L
Total Recoverable Selenium	Freshwater	1.5 µg/L for still/standing (lentic) waters 3.1 µg/L for flowing (lotic) waters
	Saltwater	290 µg/L
Total Recoverable Silver	Freshwater[a]	3.2 µg/L
	Saltwater	1.9 µg/L
Total	Freshwater[a]	120 µg/L

Pollutant		2021 MSGP Benchmark Threshold
Recoverable Zinc	Saltwater	90 µg/L
Total Recoverable Arsenic	Freshwater	150 µg/L
	Saltwater	69 µg/L
Total Recoverable Lead	Freshwater[a]	82 µg/L
	Saltwater	210 µg/L

[a] These pollutants are dependent on water hardness where discharged into freshwaters. The freshwater benchmark value listed is based on a hardness of 100 mg/L. When a facility analyzes receiving water samples for hardness, the operator must use the hardness ranges provided in Table 1 in Appendix J of the 2021 MSGP and in the appropriate tables in Part 8 of the 2021 MSGP to determine applicable benchmark values for that facility. Benchmark thresholds for discharges of these pollutants into saline waters are not dependent on receiving water hardness and do not need to be adjusted.