

Attachment 9: Sources and Uses for CWSRF FFY 2022 Capitalization Grant Application

2022 CWSRF Capitalization Grant Application - Base

2022 CWSRF Capitalization Grant Application - General Supplemental

2022 CWSRF Capitalization Grant Application - Emerging Contaminants

6/1/22

FUNDS CHART: 2022 GRANT APPLICATION - ALL FUNDS

6/1/2022

	TOTAL	4% ADMIN	2% Tech Assistance	PROGRAM
FEDERAL BASE GRANT FUNDS	45,833,000	1,833,320		43,999,680
20% MATCHING STATE FUNDS	9,166,600	0		9,166,600
TOTAL	<u>54,999,600</u>	<u>1,833,320</u>		<u>53,166,280</u>
Minimum Principal Forgiveness				4,583,300
Maximum Principal Forgiveness				13,749,900
WRRDA Principle Forgiveness				13,749,900
Minimum Green				4,583,300
BIL TOTAL (Appropriation FFY 2022-2023)		4% ADMIN	2% Tech Assistance	PROGRAM
GENERAL SUPPLEMENTAL	70,500,000	2,820,000	1,410,000	66,270,000
BIL STATE MATCH REQUIREMENT	7,050,000	-	-	7,050,000
TOTAL	<u>77,550,000</u>	<u>2,820,000</u>	<u>1,410,000</u>	<u>73,320,000</u>
EMERGING CONTAMINANTS	3,704,000 *	-	-	3,704,000
TOTAL	<u>81,254,000</u>	<u>2,820,000</u>	<u>1,410,000</u>	<u>77,024,000</u>
BIL Gen Sup Principal Forgiveness Requirement				34,545,000
Minimum Green Goal				7,050,000
BIL Emerge Conts Principal Forgiveness Requirement				3,704,000

* For FFY2022, PENNVEST expects to transfer the entire CWSRF-EC grant to DWSRF-EC unless projects are identified before 3/31/2023 or another date identified by PENNVEST.

BASE GRANT CHART 1: PROJECTED BINDING COMMITMENTS - FY 2022

6/1/2022

Equivalency Project	Categorical Green or Business Case Green	PROJECT NAME	Project Number	TOTAL	Loan \$ Amount	Principal Forgiveness \$ Amount	Green \$ Amount	BINDING	Board Meeting Date
				ASSISTANCE \$ AMOUNT				COMMITMENT DATE (see note below)	
		Armstrong Conservation District Armsdale							
Non Equivalency	Green Infrastructure	Green Infrastructure	71453	\$385,400	\$192,700	\$192,700	\$385,400	1/19/2023	1/19/2022
Equivalency	Green Infrastructure	Wyoming Valley Sanitary Authority (Split)	72830	\$12,962,218	\$12,962,218	\$0	\$12,962,218	4/26/2022	10/20/2021
Non Equivalency	Green Infrastructure	Wyoming Valley Sanitary Authority (Split) A/E	77105	\$1,165,507	\$1,165,507	\$0	\$1,165,507	4/26/2022	10/20/2021
Equivalency		City of Philadelphia ¹	71451	\$14,819,835	\$20,960,000	\$0	\$0	4/14/2022	1/19/2022
		City of DuBois - Wastewater Recovery Facility Project ²	75388	\$1,000,000	\$57,566,897	\$4,433,103	\$0	1/19/2023	1/19/2022
Non Equivalency		Meadville Area Sewer Authority	pending	\$20,000,000	\$20,000,000	\$0	\$0	7/20/2023	7/20/2022
Equivalency		Onlot Program		\$1,000,000	\$1,000,000	\$0	\$0		
		PROGRAM ADMIN.		\$1,833,320					
TOTALS				\$53,166,280	\$113,847,322	\$4,625,803	\$14,513,125		

PF Minimum Requirement
PF Maximum Requirement

\$4,583,300 \$4,583,300
\$13,749,900

NOTE: Effective 7/1/2005 Binding Commitment is defined as Settlement Date

Equivalency Total³ \$53,922,218

¹ - \$14,819,835 of the \$20,960,000 project cost is being applied under the Base Cap Grant Application

² - \$1,000,000 of the \$62,000,000 project cost is being applied under the Base Cap Grant Application

³ - Must be greater than or equal to \$53,166,280. Federal Amount for Equivalency.

BASE GRANT CHART 2: FY 2022 PAYMENT SCHEDULE

PROJECTED INCREASES TO CWSRF ACH ACCT

6/1/2022

YEAR/FED. QTR	PAYMENT DATE	CWSRF AMOUNT	CWSRF CUM. AMOUNT
2023/1	10/1/2022	0	0
2023/2	1/1/2023	0	0
2023/3	4/1/2023	0	0
2023/4	7/1/2023	43,999,680	43,999,680
2024/1	9/1/2023	0	43,999,680
2024/2	1/1/2024	0	43,999,680
2024/3	4/1/2024	0	43,999,680
2024/4	7/1/2024	0	43,999,680
2025/1	9/1/2024	0	43,999,680
2025/2	1/1/2025	0	43,999,680
2025/3	4/1/2025	0	43,999,680
2025/4	7/1/2025	0	43,999,680

BIL GENERAL SUPPLEMENTAL CHART 1: PROJECTED BINDING COMMITMENTS - FY 2022

6/1/2022

Equivalency Project	Categorical Green or Business Case Green	PROJECT NAME	Project Number	TOTAL ASSISTANCE \$		Principal Forgiveness \$ Amount	Green \$ Amount	BINDING COMMITMENT DATE (see note below)	Board Meeting Date
				AMOUNT	Loan \$ Amount				
Equivalency	Green Infrastructure	Lancaster County Conservation District	72828	\$515,813	\$0	\$515,813	\$515,813	7/23/2022	7/23/2021
Equivalency		Halifax Area Water and Sewer Authority- Halifax Township Sanitary Sewer Extension	75389	\$17,107,000	\$6,519,652	\$10,587,348	\$0	1/19/2023	1/19/2022
Equivalency	Green Infrastructure	Somerset County Conservation District - Joe Walker Manure Storage ¹	72833	\$602,264.00	\$0	\$682,638	\$682,638	4/20/2023	4/20/2022
Equivalency	Green Infrastructure	Luzerne County Conservation District - Kevin Drasher Manure Storage	72834	\$630,000.00	\$0	\$630,000	\$630,000	4/20/2023	4/20/2022
Equivalency		Pittsburgh Water and Sewer Authority (Split) A/E	77104	\$7,995,000	\$7,995,000	\$0	\$0	4/6/2022	10/20/2021
Equivalency		Freeport LTCP Phase II	71453	\$11,000,000	\$0	\$11,000,000	\$0	1/19/2023	1/19/2022
Equivalency		South Centre Township	pending	\$10,999,900	\$2,856,535	\$8,143,365	\$0	7/20/2023	7/20/2022
Equivalency		Shamokin Coal Township Joint Sewer Authority Pittsburgh Water and Sewer Authority	pending	\$2,985,836	\$0	\$2,985,836	\$0	7/20/2023	7/20/2022
Equivalency		(Split) ² 2% Technical Assistance PROGRAM ADMIN.	71452	\$17,770,000 \$1,410,000 \$2,820,000	\$28,282,000	\$0		4/6/2022	10/20/2021
TOTALS				\$73,320,000	\$45,653,187	\$34,545,000	\$1,312,638		
				\$73,320,000					
						\$34,545,000			
						\$7,050,000			

NOTE: Effective 7/1/2005 Binding Commitment is defined as Settlement Date

Equivalency Total \$53,267,736

¹ - \$602,264 of the \$682,638 project costs is being applied to the BIL General Supplemental Program Application

² - \$17,770,000 of the \$28,282,000 project costs is being applied to the BIL General Supplemental Program Application

BIL GENERAL SUPPLEMENTAL CHART 2: FY 2022 PAYMENT SCHEDULE

PROJECTED INCREASES TO CWSRF ACH ACCT

6/1/2022

YEAR/FED. QTR	PAYMENT DATE	CWSRF AMOUNT	CWSRF CUM. AMOUNT
2022/1	10/1/2021	0	0
2022/2	1/1/2022	0	0
2022/3	4/1/2022	0	0
2022/4	7/1/2022	66,270,000	66,270,000
2023/1	9/1/2022	0	66,270,000
2023/2	1/1/2023	0	66,270,000
2023/3	4/1/2023	0	66,270,000
2023/4	7/1/2023	0	66,270,000
2024/1	9/1/2023	0	66,270,000
2024/2	1/1/2024	0	66,270,000
2024/3	4/1/2024	0	66,270,000
2024/4	7/1/2024	0	66,270,000

BIL EMERGING CONTAMINANTS CHART 1: PROJECTED BINDING COMMITMENTS - FY 2022

6/1/2022

Equivalency Project	Categorical Green or Business Case Green	PROJECT NAME	Project Number	TOTAL ASSISTANCE \$ AMOUNT	Loan \$ Amount	Principal Forgiveness \$ Amount	Green \$ Amount	BINDING COMMITMENT DATE (see note below)	Board Meeting Date
		Transfer to Drinking Water BIL EC PROGRAM ADMIN.		\$3,704,000	\$0	\$3,704,000	\$0		
				\$0	\$0	\$0	\$0		
TOTALS				\$3,704,000	\$0	\$3,704,000	\$0		

PF Requirement

\$3,704,000

NOTE: Effective 7/1/2005 Binding Commitment is defined as Settlement Date

Equivalency Total

** For FFY2022, PENNVEST expects to transfer the entire CWSRF-EC grant to DWSRF-EC unless projects are identified before 3/31/2023 or another date identified by PENNVEST. DEP and PENNVEST have identified \$43,700,000 in Drinking Water eligible BIL DWSRF Emerging Contaminant projects*

BIL EMERGING CONTAMINANTS CHART 2: FY 2022 PAYMENT SCHEDULE

PROJECTED INCREASES TO CWSRF ACH ACCT

6/1/2022

YEAR/FED. QTR	PAYMENT DATE	CWSRF AMOUNT	CWSRF CUM. AMOUNT
2023/1	10/1/2022	0	0
2023/2	1/1/2023	0	0
2023/3	4/1/2023	0	0
2023/4	7/1/2023	3,704,000	3,704,000
2024/1	9/1/2023	0	3,704,000
2024/2	1/1/2024	0	3,704,000
2024/3	4/1/2024	0	3,704,000
2024/4	7/1/2024	0	3,704,000
2025/1	9/1/2024	0	3,704,000
2025/2	1/1/2025	0	3,704,000
2025/3	4/1/2025	0	3,704,000
2025/4	7/1/2025	0	3,704,000

CWSRF INTENDED USE PLAN 2022 Allocation - Sources and Uses - ALL FUNDS									
6/1/2022									
		ASSISTANCE AMOUNT	APPROVAL DATE	LOAN TO BE REPAID	PRINC FORGIVENESS	STATUS	SETTLEMENT DATE	Type	
SOURCES:									
	AWARDED TITLE VI FUNDS (awarded through 2021)	\$1,784,482,297.00							
	STATE MATCH (through 2021 grant)	\$356,647,297.00							
	STATE CONTRIBUTION IN EXCESS OF MATCH	\$2,492,856.00							
	ARRA CWSRF GRANT (awarded)	\$176,912,530.00							
	BIL TOTAL (Appropriation FFY 2022-2023)	\$74,204,000.00							
	GENERAL SUPPLEMENTAL	\$70,500,000.00							
	EMERGING CONTAMINANTS	\$3,704,000.00							
	BIL STATE MATCH REQUIREMENT	\$7,050,000.00							
**	2022 Grant Application (application)	\$45,833,000.00							
**	2022 State Match (application)	\$9,166,600.00							
	LEVERAGED FUNDS	\$0.00							
	IN EXCESS OF CAPITALIZATION GRANTS	\$0.00							
	IN EXCESS OF STATE MATCH	\$0.00							
	TOTAL TRANSFERRED FROM DWSRF TO CWSRF	\$20,000,000.00							
	TOTAL PRINC/INTEREST/INV INCOME(thru 03/31/2022)	\$2,398,140,046.49							
SOURCE TOTAL:		\$4,874,928,626.49							
USES:									
	TOTAL TRANSFERRED TO DWSRF ¹	\$77,419,786.00	See Comment						
	WIFTA TRANSFER TO DWSRF FROM CWSRF ²	\$90,685,658.00							
	ADMINISTRATIVE (cumulative thru 2022 grant)	\$55,855,212.00							
	Administration (estimated in 2022)	\$1,833,320.00							
	BIL Allowance 4% Supplemental	\$2,820,000.00							
	BIL Allowance 2% Supplemental	\$1,410,000.00							
	BIL Allowance 4% Emerging Contaminants	\$0.00							
	BIL Allowance 2% Emerging Contaminants	\$0.00							
339503	On-Lot (Approved thru 3/31/22)	\$20,306,313.00							
LOAN	Project Name	AMOUNT	APPROVAL DATE	LOAN TO BE REPAID	PRINC FORGIVENESS	STATUS	SETTLEMENT DATE	Type	
72828	Lancaster County Conservation District	\$515,813.00	23-Jul-21	\$0.00	\$515,813.00	Loan Closing	23-Jul-22	NPS	BIL SPF
72829	Wyoming Valley Sanitary Authority	\$2,795,652.00	23-Jul-21	\$2,795,652.00	\$0.00	Declined	23-Jul-22	NPS	
71451	City of Philadelphia	\$20,960,000.00	23-Jul-21	\$16,301,250.00	\$0.00	Disbursement	14-Apr-22	NPS	BASE PF
75385	Pittsburgh Water and Sewer Authority	\$23,970,000.00	23-Jul-21	\$16,158,784.00	\$0.00	Disbursement	10-Feb-22	212	
75383	Freedom Township Water and Sewer Authority	\$1,535,538.00	23-Jul-21	\$1,369,481.00	\$0.00	Disbursement	26-Jan-22	212	
72407	Lackawanna River Basin Sewer Authority	\$2,326,900.00	23-Jul-21	\$2,326,900.00	\$0.00	Disbursement	30-Sep-21	212	
72830	Wyoming Valley Sanitary Authority (Split)	\$14,127,725.00	20-Oct-21	\$12,962,218.00	\$0.00	Disbursement	26-Apr-22	NPS	BASE PF
77105	Wyoming Valley Sanitary Authority (Split) A/E		20-Oct-21	\$1,165,507.00	\$0.00	Disbursement	26-Apr-22	NPS	BASE PF
72831	Armstrong Conservation District Armsdale Green Infrastructure	\$385,400.00	20-Oct-21	\$192,700.00	\$192,700.00	Loan Closing	20-Oct-22	NPS	BASE PF
75382	Greater Johnstown Water Authority	\$7,055,000.00	20-Oct-21	\$7,055,000.00	\$0.00	Disbursement	10-Mar-22	212	
71452	Pittsburgh Water and Sewer Authority (Split)	\$36,277,000.00	20-Oct-21	\$28,282,000.00	\$0.00	Disbursement	06-Apr-22	212	BIL SPF
77104	Pittsburgh Water and Sewer Authority (Split) A/E		20-Oct-21	\$7,995,000.00	\$0.00	Disbursement	06-Apr-22	212	BIL SPF
71453	Freepport LTCP Phase II	\$11,000,000.00	19-Jan-22	\$0.00	\$11,000,000.00	Loan Closing	19-Jan-23	212	BIL SPF
75388	City of DuBois - Wastewater Recovery Facility Project	\$62,000,000.00	19-Jan-22	\$57,566,897.00	\$4,433,103.00	Loan Closing	19-Jan-23	212	BASE PF
75389	Halifax Area Water and Sewer Authority- Halifax Township Sanitary Sewer Extension	\$17,107,000.00	19-Jan-22	\$6,519,652.00	\$10,587,348.00	Loan Closing	19-Jan-23	212	BIL SPF
75386	NUTMSA MultiMunicipal Sewer Line Extensions	\$10,229,112.00	19-Jan-22	\$10,229,112.00	\$0.00	Loan Closing	19-Jan-23	212	
75387	Cecil Township Municipal Authority Village of Lawrence Sewage Facilities	\$13,876,149.00	19-Jan-22	\$13,876,149.00	\$0.00	Loan Closing	19-Jan-23	212	
78024	GSI in Packer Park, South Philly, Overbrook, Lawndale, and Holmesburg	\$8,670,000.00	19-Jan-22	\$8,670,000.00	\$0.00	Loan Closing	19-Jan-23	NPS	
78025	GSI in South Philly, Saunders Park, Fairmount, and Harrowgate	\$6,825,000.00	19-Jan-22	\$6,825,000.00	\$0.00	Loan Closing	19-Jan-23	NPS	
72832	Penn Township- Harrison Park/ Dolly Drive	\$2,226,427.00	20-Apr-22	\$2,226,427.00	\$0.00	Loan Closing	20-Apr-23	NPS	

New projects added since 2021 Grant Application

CWSRF INTENDED USE PLAN 2022 Allocation - Sources and Uses - ALL FUNDS											
6/1/2022											
		ASSISTANCE AMOUNT	APPROVAL DATE	LOAN TO BE REPAID	PRINC FORGIVENESS	STATUS	SETTLEMENT DATE	Type			
72833	Somerset County Conservation District - Joe Walker Manure Storage	\$682,638.00	20-Apr-22	\$0.00	\$682,638.00	Loan Closing	20-Apr-23	NPS	BIL SPF		
72834	Luzerne County Conservation District - Kevin Drasher Manure Storage	\$630,000.00	20-Apr-22	\$0.00	\$630,000.00	Loan Closing	20-Apr-23	NPS	BIL SPF		
Pending Approval	Meadville Area Sewer Authority	\$20,000,000.00	20-Jul-22	\$20,000,000.00	\$0.00	Pending Approval	20-Jul-23	212	BASE PF		
Pending Approval	South Centre Township	\$10,999,900.00	20-Jul-22	\$2,856,535.00	\$8,143,365.00	Pending Approval	20-Jul-23	212	BIL SPF		
Pending Approval	Shamokin Coal Township Joint Sewer Authority	\$2,985,836.00	20-Jul-22	\$0.00	\$2,985,836.00	Pending Approval	20-Jul-23	212	BIL SPF		
Pending Approval	FFY2022, PENNVEST expects to transfer the entire CWSRF-EC grant to DWSRF-EC unless projects are identified before 3/31/2023 or another date identified by PENNVEST.	\$3,704,000.00	19-Oct-22	\$0.00	\$3,704,000.00	Pending Approval	19-Oct-23	212	BIL EC		
Pending Approval	\$32.9 million estimate for projects to be approved at July Board Meeting.	\$31,106,835.38	20-Jul-22	\$23,711,486.38	\$7,395,349.00	Pending Approval	20-Jul-23				
Pending Approval	\$98.22 million for projects to be approved at October Board Meeting. Of the \$98.22 million PENNVEST is actively identifying projects to allocate \$1.85 million as BIL Emerging Contaminants PF	\$96,370,060.38	19-Oct-22	\$88,974,711.38	\$7,395,349.00	Pending Approval	19-Oct-23				
TOTAL USES:		4,859,494,626.49		4,158,728,094.74	436,993,422.16						
NET REVENUE:		0.00									
Foot notes											
¹ - Transfers reflect \$48,862,688 in FY 02-03, \$8,577,098 in FY 04-05, and \$20,000,000 in FY 20-21											
² - \$90,685,658 transferred under the Water Infrastructure Fund Transfer ACT (WIFTA)											

CWSRF INTENDED USE PLAN 2022 Allocation - Sources and Uses - ALL FUNDS

6/1/2022

ASSISTANCE AMOUNT APPROVAL DATE

SOURCES:

AWARDED TITLE VI FUNDS (awarded through 2021)	1,784,482,297.00	
STATE MATCH (through 2021 grant)	356,647,297.00	
STATE CONTRIBUTION IN EXCESS OF MATCH	2,492,856.00	
ARRA CWSRF GRANT (awarded)	176,912,530.00	
BIL TOTAL (Appropriation FFY 2022-2023)	74,204,000.00	
GENERAL SUPPLEMENTAL	70,500,000.00	
EMERGING CONTAMINANTS	3,704,000.00	
BIL STATE MATCH REQUIREMENT	7,050,000.00	
2022 Grant Application (application)	45,833,000.00	
2022 State Match (application)	9,166,600.00	
LEVERAGED FUNDS	0.00	
IN EXCESS OF CAPITALIZATION GRANTS	0.00	
IN EXCESS OF STATE MATCH	0.00	
TOTAL TRANSFERRED FROM DWSRF TO CWSRF	20,000,000.00	
TOTAL PRINC/INTEREST/INV INCOME(thru 03/31/2022)	2,398,140,046.49	
SOURCE TOTAL:		4,874,928,626.49

USES:

Section 212 Projects:		
Projects Financed thru 4/30/2022 (non-ARRA)	3,780,620,724.95	
ARRA projects	267,826,352.06	
		4,086,136,813.01
Section 319 Projects:		
NPS (less on-lot, brownfield, ARRA)	285,438,207.68	
NPS - ARRA	31,576,828.83	
On-Lot - NPS activity goal	20,306,313.00	
Brownfields - NPS Activity Goal	78,535,592.21	415,856,941.72
Upcoming Projections	127,476,895.76	127,476,895.76
Transfers to DWSRF		
Transfers to DWSRF from CWSRF	77,419,786.00	
WIFTA transfer to DWSRF from CWSRF	90,685,658.00	168,105,444.00
Administrative Allowance		
From Federal Grants Previously Awarded (thru 2021)	55,855,212.00	
From Estimated Administrative Expenditures in 2022	1,833,320.00	57,688,532.00
BIL Allowances		
BIL Allowance 4% Supplemental	2,820,000.00	
BIL Allowance 2% Supplemental	1,410,000.00	
BIL Allowance 4% Emerging Contaminants	0.00	
BIL Allowance 2% Emerging Contaminants	0.00	4,230,000.00
USES TOTAL:		4,859,494,626.49

NET BALANCE REMAINING (future loan repayments)

15,434,000.00

Partnership For Delaware Estuary Investment	-7,934,000.00	
Small Project Initiative (SPI) CW Allocation	-7,500,000.00	
Net		0.00

CHART 5 - BENEFITS 2022
6/1/2022

		Base CWSRF Grant Project Descriptions
LOAN #	PROJECT_TITLE	BENEFITS
72831	Armstrong Conservation District - Armsdale Green Infrastructure	Uncontrolled stormwater from the Armstrong Conservation District's 14.8-acre property contributes to increased levels of sediment and nutrients being discharged into an unnamed tributary to Cowanshannock Creek, and within a mile to the Allegheny River. The project proposes replacing existing concrete sidewalks with roughly 2,850 square feet of pervious pavers; constructing 5 rain gardens, 560 feet of a vegetative swale, and up to 1,000 feet of multi-function riparian buffer to promote infiltration; installing 16 rain barrels to collect roof runoff water; planting 20 trees and up to 1.5 acres of native vegetative plantings; and removing a 3-inch abandoned gas line. Stormwater volume and quality treatment will be facilitated through the construction of green infrastructure and appropriate Best Management Practices. The project will reduce Total Suspended solids by 2,632 pounds per year, Total Phosphorus by 10 pounds per year, and Total Nitrogen by 9 pounds per year, all of which are currently discharging in an uncontrolled manor into an unnamed tributary to Cowanshannock Creek.
72830	Wyoming Valley Sanitary Authority (Split)	Uncontrolled stormwater contributes to sediment and nutrient pollution. The Wyoming Valley Sanitary Authority is required to meet pollutant reduction goals for sediment and nutrients in the Authority's MS4 Regional Chesapeake Bay Pollutant Reduction Plan, which they are administering on behalf of 31 municipalities located in Luzerne County and in the Chesapeake Bay. Restoration of 3,375 feet of Abrahams Creek, restoration of 3,200 feet of Gardner Creek, restoration of 400 feet of Mill Creek, restoration of 1,700 feet of Newport Creek, restoration of 2,054 feet of Spring Run and Solomon Creek, restoration of 5,450 feet of Warrior Creek, construction of a 0.33 acre rain garden, construction of a 0.32 acre rain garden, restoration of an existing 7.7 acre stormwater basin, restoration of an existing 2.4 acre stormwater basin, and restoration of an existing 8 acre stormwater basin. This project implements projects included in the Authority's approved pollution reduction plan, which will reduce siltation and nutrient pollution from reaching local waterways. Engineering costs have been funded under a seperate funding agreement.

<p>77105</p>	<p>Wyoming Valley Sanitary Authority (Split) A/E</p>	<p>Uncontrolled stormwater contributes to sediment and nutrient pollution. The Wyoming Valley Sanitary Authority is required to meet pollutant reduction goals for sediment and nutrients in the Authority's MS4 Regional Chesapeake Bay Pollutant Reduction Plan, which they are administering on behalf of 31 municipalities located in Luzerne County and in the Chesapeake Bay. This project funds engineering costs to design and oversee restoration of 3,375 feet of Abrahams Creek, restoration of 3,200 feet of Gardner Creek, restoration of 400 feet of Mill Creek, restoration of 1,700 feet of Newport Creek, restoration of 2,054 feet of Spring Run and Solomon Creek, restoration of 5,450 feet of Warrior Creek, construction of a 0.33 acre rain garden, construction of a 0.32 acre rain garden, restoration of an existing 7.7 acre stormwater basin, restoration of an existing 2.4 acre stormwater basin, and restoration of an existing 8 acre stormwater basin. This project implements projects included in the Authority's approved pollution reduction plan, which will reduce siltation and nutrient pollution from reaching local waterways.</p>
<p>71451</p>	<p>City of Philadelphia</p>	<p>The Manayunk Canal water quality contributes sediment, nutrients, and other pollutants to the drinking water intakes for the Queen Lane and Belmont Treatment Plants. The historical intake structure to the canal, Lock No. 68, has been barricaded with a steel sheet pile bulkhead. The Feeder Gate House is in dilapidated condition, and the entire lock and feeder system is inoperable. Silt and debris have accumulated within the intake channel, further obstructing flows into the Canal. The project consists of selective demolition of the brick Feeder Gate House and concrete portions of the Feeder Structure; selective demolition, crest lowering, and structural rehabilitation of a portion of the Canal Intake Channel Wall; a new waste weir, sluiceway, and intake structure with sluice gates; a new diversion structure bulkhead wall across the Canal Intake Channel; a new concrete conveyance channel; upgrades to the stormwater collection and conveyance systems; perimeter fencing; and slope protection. Discharges of stagnant canal water, containing pathogens, organics, and other contaminants, will be eliminated from entering the water intake at several Philadelphia water treatment facilities to significantly improve the quality of the drinking water.</p>

	<p>City of Dubois - Wastewater Recovery 75388 Facility Project</p>	<p>The wastewater collection, conveyance, and treatment system owned and operated by the City of DuBois is nearing the end of useful life. Additionally, the existing treatment technology cannot reliably meet effluent limitations in accordance with the City's National Pollutant Discharge Elimination System permit. Further, inflow and infiltration is detrimentally affecting the plant. The existing sewage treatment plant will be demolished and replaced with a new facility that will provide a new influent pump station, septage receiving, screening, grit removal, sequencing batch reactor biological treatment, tertiary filtration, ultraviolet disinfection, aerobic digestion, and sludge dewatering. A new administration building will be constructed, along with a new access road and bridge leading to the site. Also during the project, 8,000 feet of sanitary sewer and 4,500 feet of sewer interceptor will be replaced, and 1,600 feet of sewer interceptor will be rehabilitated. The system currently serves 3,321 households among four municipalities within Clearfield and Jefferson Counties, which have a median household income level below the state median household income level. When the project is complete, the system will meet required effluent limits in accordance with its National Pollutant Discharge Elimination System permit.</p>
<p>pending</p>	<p>Meadville Area Sewer Authority - Wastewater Treatment Plant Upgrades</p>	<p>The existing wastewater treatment plant was constructed 25 years ago in 1997 and consequently, the majority of the equipment is at or nearing the end of its useful life. Headworks, including screening and fats/oil removal is inefficient with frequent mechanical failures in recent years. Flows exiting grit and grease removal receive secondary treatment utilizing the activated sludge process through Sequencing Batch Reactor (SBR) technology. The existing SBR system, however, employs 25-year old technology which is adequate under present conditions, but not adaptable to future conditions. Other plant deficiencies includes the existing ultraviolet disinfection system, existing belt filter press, inadequate emergency backup power and the roof system for the facility. The proposed project includes the replacement of the influent raw wastewater pumps, updated headworks screening, grit and grease equipment, replacement of the SBR system, next generation UV equipment and a new standby emergency power source. The emergency standby generator to be included in this project will be sized to keep the entire facility up and running to maintain the required level of treatment for compliance during a power outage. Replacement of the existing roof system will also be included in the project. The Meadville Area Sewer Authority currently serves 4,800 directly billed residential customers and accepts bulk sewage from the Vernon Township Sewer Authority. Population impacted by this project is approximately 23,295.</p>

BIL General Supplemental CWSRF Grant Project Descriptions		
LOAN #	PROJECT_TITLE	BENEFITS
71453	Freeport Long Term Control Plan Phase II	The existing wastewater treatment plant serving Freeport Borough is old and is hydraulically overloaded and unable to maintain required effluent limits. A new wastewater treatment plant will be constructed and will utilize sequencing batch reactor technology with headworks for grit control, ultraviolet disinfection, and an equalization basin. Untreated or inadequately-treated discharge will be eliminated throughout the system, improving maintained effluent limits. Current hydraulic overloads that are impacting Buffalo Creek will be eliminated. Existing, outdated infrastructure and equipment that cannot maintain effluent limits will be replaced. When this project is completed, the improved system will be in compliance with meeting required effluent limits, which are not being met currently due to hydraulic overloads.
71452	Pittsburgh Water and Sewer Authority (Split)	Both large (greater than 36 inches) and small diameter (up to 36 inches) collection lines in areas of Pittsburgh Water and Sewer Authority's (PWSA) collection system are reaching the end of useful life and failing. This project will rehabilitate approximately 4,500 feet of large diameter and approximately 22 miles of small diameter sewer collection line. This work is part of Pittsburgh Water and Sewer Authority's Capital Improvement Plan and will be implemented in phases as part of PENNVEST Programmatic Financing. Phase I will commence in spring 2022; Phase II in summer of 2022; and Phase III in summer of 2023. Construction is estimated to be complete by 2024. This project will reduce sewer overflows in wet weather to recreational waterways. Reducing overflows in receiving streams improving water quality. This project will rehabilitate infrastructure that is at end of useful life and address the Pennsylvania Department of Environmental Protection's Corrective Action Plan. The engineering costs were funded under a separate funding agreement.

77104	Pittsburgh Water and Sewer Authority (Split) A/E	<p>This funding agreement covers the engineering costs for the series of projects outlined in this programmatic funding agreement. Both large and small diameter collection lines in areas of Pittsburgh Water and Sewer Authority's (PWSA) collection system are reaching the end of useful life and failing. This project will rehabilitate approximately 4,500 feet of large diameter and approximately 22 miles of small diameter sewer collection line. This work is part of Pittsburgh Water and Sewer Authority's Capital Improvement Plan and will be implemented in phases as part of PENNVEST Programmatic Financing. Phase I will commence in spring 2022; Phase II in summer of 2022; and Phase III in summer of 2023. Construction is estimated to be complete by 2024. This project will reduce sewer overflows in wet weather to recreational waterways. Reducing overflows in receiving streams improving water quality. This project will rehabilitate infrastructure that is at end of useful life and address the Pennsylvania Department of Environmental Protection's Corrective Action Plan. The engineering costs were funded under a separate funding agreement.</p>
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<p>72828</p>	<p>Lancaster County Conservation District - Levi Glick Manure Storage</p>	<p>The farm has inadequate manure storage and collection systems. Runoff from the barnyard flows into the pasture and towards Meetinghouse Creek, runs through the pastures, and divides the farm, which is less than 200 feet from the lot. The upstream section is only partially fenced. Upslope runoff concentrates from the field lanes and flows into the pasture, carrying sediment and manure to bare areas including the cattle walkway from the barn to the existing stream crossing and the mule paddock. The pasture below the barn is bare from the heavy animal concentration. The project consists of constructing a rectangular, concrete waste storage structure, 208 feet of 4-inch perimeter drain, 130 feet of 4-inch pipe, a 6-inch manure circulation pipe, a concrete circular waste storage structure, a concrete unloading pad, four pre-cast concrete surface inlets with grates, 190 feet of 8-inch pipe and 160 feet of 12-inch pipe, a 56 square foot riprap apron, a 25 feet by 195 feet grassed waterway, and a 12 feet by 28 feet slatted stream crossing. The project will capture uncontrolled runoff and provide six months of manure storage. Levi Glick owns and operates a small dairy farm in Bart Township, Lancaster County. The farm houses 50 dairy cows, 6 dry cows, and 46 heifers and calves. When complete, the project will eliminate approximately 9,241 pounds of sediment, 4,450 pounds of nitrogen, and 1,928 pounds of phosphorus annually. Meetinghouse Creek is impaired from nutrients due to agriculture. The project will reduce manure and stormwater runoff into the stream, which flows into the West Branch of the Octoraro Creek, the Susquehanna River. Meetinghouse Creek is part of the Octoraro Creek Watershed, which has a Pennsylvania Department of Environmental Protection approved total daily maximum load requiring reductions in nutrients.</p>
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72833	Somerset County Conservation District - Joe Walker Manure Storage	<p>The farm has inadequate manure storage capacity of only three weeks, which has resulted in overflows. There are no solid manure-stacking facilities, which require daily land application. Runoff from the fields receiving manure and from the existing manure storage location flows toward tributaries to Blue Lick Creek. There are insufficient winter feeding locations for the heifers, so an adjacent pasture is utilized, which results in sediment loss and nutrient-rich runoff from the pasture to Blue Lick Creek. Finally, the topography of the area field lanes and the feed storage area contributes to surface water runoff during rain events, which also impacts Blue Lick Creek. A new circular manure storage structure will be constructed to store manure, washwater, and bedding from the herd for up to six months, eliminating the impacts of overflow and runoff from land application. Best Management Practices will also be applied and will contribute to the elimination of sedimentation and nutrient runoff from feeding areas and field lanes with the addition of a roofed, heavy-use, and manure-stacking area to be used during the winter months, in addition to the stabilization and resurfacing of silage pads and field lanes. Joe Walker owns and operates a small dairy farm in Summit Township, Somerset County. The farm houses 75 dairy cows, 12 dry cows, 35 heifers, and 35 calves. When completed, the project will eliminate approximately 6,267 pounds of sediment, 5,794 pounds of nitrogen, and 2,511 pounds of phosphorus annually. A tributary to Blue Lick Creek is impaired from nutrients due to agriculture. The project will reduce manure and stormwater runoff into the stream which flows into Blue Lick Creek, the Casselman River.</p>
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72834	Luzerne Conservation District - Kevin Drasher Manure Storage	<p>The Kevin Drasher farm is a beef and dairy animal replacement operation with manure storage that is past useful life, undersized, and showing signs of degradation. Surface water is causing significant erosion on access roads, diversion outlets, and heavy-use areas. The existing earthen manure storage unit will be decommissioned, and a new 12 x 80 foot circular concrete manure storage tank will be installed along with a 2,516 square foot roof over the feedlot, 200 feet of roof gutters, 569 feet of storm drain pipe, 325 feet of reinforced gravel access roads, 26 feet of manure transfer line, 776 square feet of heavy-use concrete, 175 feet of animal walkway, and 235 feet of fencing around the walkway. Kevin Drasher operates a beef and dairy animal farm that has 40 cows, 70 heifers, and 20 calves. The project, when completed, will eliminate 4,163 pounds of sediment, 4,937 pounds of nitrogen, and 1,975 pounds of phosphorus annually from the Chesapeake Bay watershed. Overland transport of manure will be eliminated, reducing the nutrients entering the stream.</p>
75389	Halifax Area Water and Sewer Authority Halifax Township Sanitary Sewer Extension	<p>Areas of Halifax Township are currently served by private Onlot Sewage Disposal Systems (OLDS), some of which are not permitted systems. Water supply locations on lots containing OLDS that had positive total coliform and fecal test results were detected in several areas of the Township. The project will include the construction of approximately 13,600 feet of 6-inch, 8-inch, and 10-inch gravity sewers; three pump stations; approximately 160 grinder pumps; and approximately 19,800 feet of associated force mains and low pressure sewers, ranging in size from a 2-inch to 6-inch in diameter. The system serves 974 residential customers. The project will provide public sewer to areas currently served by onlots, some of which are failing.</p>
pending	South Centre Township - Wastewater System	<p>Approximately 50% of the Onlot Sewage Disposal Systems in South Centre Township that were surveyed had some form of malfunction. Eighty-one percent of those failed systems also showed signs of private well contamination of either bacteria or nitrates. The first of 2 phases will construct a wastewater treatment plant and collection system to address malfunctions in the Village of Lime Ridge. This project will serve 234 residential homes and a number of businesses. The total estimated population served by this project is 790.</p>

pending	Shamokin Coal Township Joint Sewer Authority Digester Replacement Lids	The 50-foot diameter anaerobic digester lids last replaced in 1997 have come to the end of their useful lifespan. These lids allow the Authority to capture the methane gas created from the biological process and reused as gas to heat the digesters. The lids are warped beyond repair and starting to fail, thus allowing methane gas to escape. This project will replace both anaerobic digester lids that are structurally beginning to fail. The Authority currently serves 9,325 residential customers with an estimated population of 17,081
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BIL Emerging Contaminants CWSRF Grant Descriptions		
LOAN #	PROJECT_TITLE	BENEFITS
		<p>Pennsylvania Department of Environmental Protection and PENNVEST have identified \$43,700,000 worth of Emerging Contaminant projects related to Drinking Water. In Federal Fiscal Year 2022, PENNVEST expects to transfer the entire CWSRF-Emerging Contaminant grant to DWSRF-Emerging Contaminants unless projects are identified before 3/31/2023 or another date identified by PENNVEST.</p>
	Onlot Program	<p>This assistance is available to eligible homeowners who do not have access to a public sewage system and need to repair or replace their individual on-lot sewage disposal system.</p>