

FINAL 5-YEAR CAPITAL PLAN
SUBURBAN DIVISION
2025-2029
OCTOBER 2024

5-YEAR CAPITAL PLAN 2025-2029

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2025-2029 Capital Plan

Glossary of Acronyms & Terms

The following is a listing of acronyms and terms used in the Capital Plan Summary and Project Detail Sheets.

LCA Water and/or Wastewater Divisions/Systems

LCA Water and/or Wastewater Divisions/Systems					
		Water	Wastewater		
AD	Allentown Division	Х	Х		
AWD	Arcadia West Division	X	X		
BHD	Beverly Hills Division	X			
CLD	Central Lehigh Division	X			
CFD	Clear View Farms Division	Х			
ECD	Emmaus Consecutive Division	X			
HHD	Heidelberg Heights Division	Х	X		
LLRI-1	Little Lehigh Relief Interceptor, Phase 1		X		
LLRI-2	Little Lehigh Relief Interceptor, Phase 2		X		
LTD	Lynn Township Division		X		
MCD	Mill Creek Division	X			
MND	Madison Park Division	X			
NWD	North Whitehall Division	X			
PLD	Pine Lakes Division	X			
SSD	Sands Spring Division		X		
UMD	Upper Milford Division	Х	Х		
UMCD	Upper Central Milford Division (Buss Acres)	X			
WLI	Western Lehigh Interceptor		Х		
WTD	Washington Township Division	Х	Х		
WWD	Wynnewood Division		Х		

Project Type

Project Type	Description
AO	Administrative Order
UW	Uncompleted Work (1)
S-7-MCI	Schedule-7 (Lease Required) Major Capital Improvement ⁽²⁾
LCA-MCI	LCA Developed Major Capital Improvement ⁽²⁾
Regular	A project that does not fit in any of the aforementioned special categories

- (1) Uncompleted Work: City Projects that were supposed to be complete by the time of settlement. The City and LCA have reached an agreement for LCA to execute them.
- (2) Major Capital Improvement: In accordance with the Lease, all Major Capital Improvements must be approved by the City.

Project Funding

Project Funding	Description
LCA	Funded by LCA
100% Reimb	All costs are 100% reimbursable by fees charged
Fees & LCA	Costs partly recovered through fees charged and partly funded by LCA
Allentown	Funded by the City of Allentown
CCRC	Capital Cost Recovery Charge ⁽¹⁾ ; Applies only to City approved MCI

(1) Capital Cost Recovery Charge: An on-going user fee that is above the rate caps set forth in the Lease to allow the recovery of the cost of an MCI. Rate payers are charged based upon usage.

Project Category

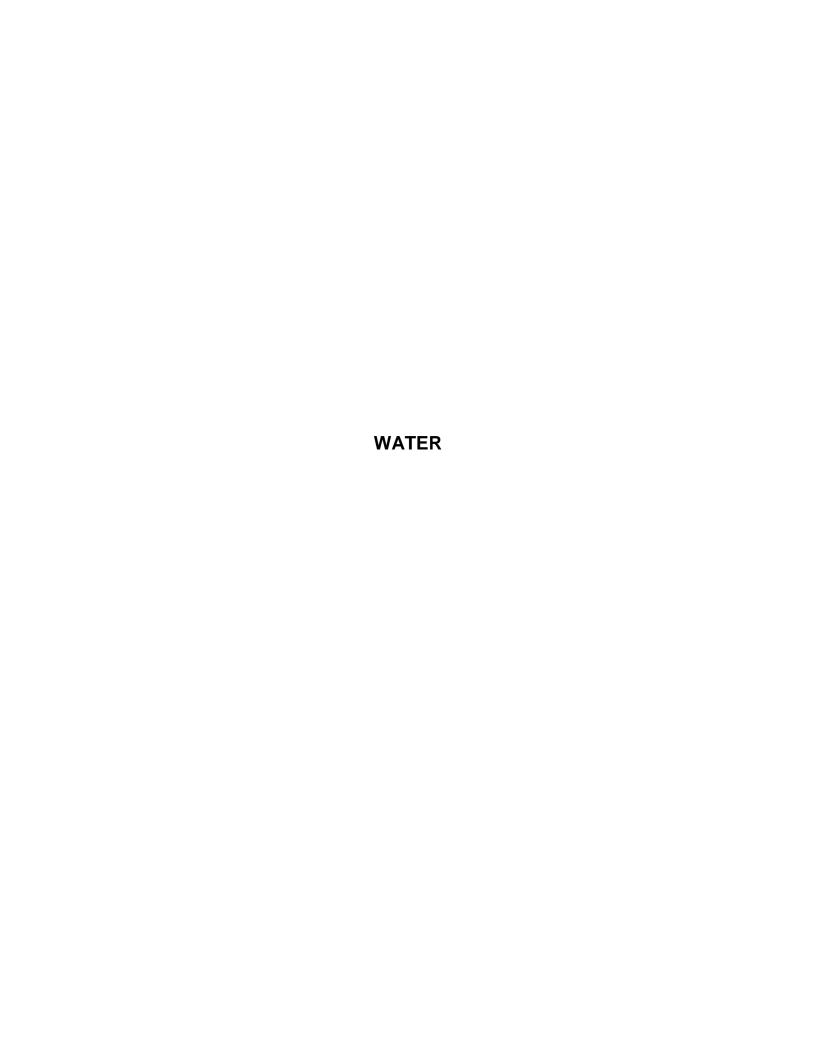
Projects have been categorized to identify the primary and secondary reasons for the need. In some cases there is no secondary reason that would be applicable.

Project Category	Description
Regulatory	Required to meet Regulatory requirements
New Cust	New Customers
CA/OS	Concession Lease/Operating Standards
AM - Low	Asset Management - Low Risk
AM - Med	Asset Management - Medium Risk
AM - High	Asset Management - High Risk
AM - Varies	Asset Management - Varies ⁽¹⁾
Efficiency	Efficiency
Sys Imp	System Improvement
Rev Opprt	Revenue Opportunity
Planning	Planning
Change of Law	Change of Law
N/A	Not Applicable

(1) Applies to Asset Management Projects, where there are multiple standalone sub-projects of varied levels of "risk".

Approval Stage

Approval Stage	Description
Α	Annual Project, no approvals required
S	Study/Planning Phase
D	Design Phase
С	Construction/Implementation Phase
Ε	Entire Project
V	Various Phases
Р	Pending Board approval



LEHIGH COUNTY AUTHORITY SUBURBAN DIVISION WATER 5-YEAR CAPITAL PLAN 2025–2029

CAPITAL FINANCING JUSTIFICATION

Capital additions to the Water System are justified by using six revenue sources: user charges, assessments or distribution tapping fees, supply tapping fees, contributions-in-aid of construction, reimbursements from the wastewater funds, and grants. This would comprise the amount of cash available from operations for capital projects.

Beyond the operating cash available, remaining sources are project reserves from previous debt issuance and any new borrowing required.

The table below summarizes the capital project sourcing by year and each major financial sourcing category:

CAPITAL FINANCING SOURCES								
2025 2026 2027 2028 2029 TOTAL								
Project Costs	\$4,362,000	\$10,342,500	\$10,352,500	\$6,012,500	\$6,622,500	\$37,692,000		
Sources of Funding:								
Current Cash Flows	\$3,140,569	\$2,738,887	\$2,162,500	\$2,012,500	\$4,786,034	\$14,840,490		
Cash Reserves	\$1,221,431	\$211,113	-	-	\$1,718,966	\$3,151,510		
New Borrowing	-	\$7,392,500	\$8,190,000	\$4,000,000	\$117,500	\$19,700,000		
TOTAL FUNDING	\$4,362,000	\$10,342,500	\$10,352,500	\$6,012,500	\$6,622,500	\$37,692,000		

Total spending on capital projects for the five-year period totals \$37,692,000. Current cash flows and cash reserves over the period will provide \$17,992,000 for capital projects. New borrowing for plan period projects will be in the amount of \$19,700,000 and is expected to occur in Year 2026 to fund the projects for the plan period.

The \$19,700,000 borrowing is to fund main replacement projects, water meter replacement projects, North Whitehall improvement projects, and Upper System pump station and water main extension projects. To support the additional debt service an increase in rates of 4.6% in years 1-5 will be required. Modestly conservative growth of 1% annually is included to reflect expected new customer connections during the plan period.

CONDENSED CASH FLOW - SUBURBAN WATER							
US DOLLARS	2025	2026	2027	2028	2029		
User Charges	18,108,762	19,131,183	20,211,330	21,352,462	22,558,022		
Other Operating Revenues	383,412	383,412	383,412	383,412	383,412		
Non-Operating Revenues	727,940	727,940	727,940	727,940	727,940		
Operating expenses	(12,192,178)	(12,683,523)	(13,162,643)	(13,626,627)	(14,106,965)		
Debt Service - Current Debt	(3,474,867)	(3,474,867)	(3,474,867)	(3,474,867)	(3,474,867)		
Debt Service - NEW Debt	-	(1,221,508)	(1,221,508)	(1,221,508)	(1,221,508)		
Investments Converting to Cash	-	-	-	-	-		
Proceeds From NEW Debt	-	19,700,000	-	-	-		
Capex	(4,774,500)	(10,466,250)	(10,456,250)	(6,092,500)	(6,702,500)		
NET FUND FLOWS	(1,221,431)	12,096,387	(6,992,586)	(1,951,688)	(1,836,466)		
Plan Volume Increase %	1.00%	1.00%	1.00%	1.00%	1.00%		
User Charge Rate Increase %	4.60%	4.60%	4.60%	4.60%	4.60%		
Total User Charge Revenue Increase %	5.65%	5.65%	5.65%	5.65%	5.65%		
Unrestricted Cash Balance	9,263,525	21,359,912	14,367,326	12,415,638	10,579,172		
Unrestricted Investments	3,023,129	3,023,129	3,023,129	3,023,129	3,023,129		
Total Unrestricted Balances	12,286,654	24,383,041	17,390,455	15,438,767	13,602,301		
Days on Hand	277	261	284	329	274		
DEBT SERVICE COVERAGE RATIO	2.02	1.61	1.74	1.88	2.04		

LEHIGH COUNTY AUTHORITY SUBURBAN DIVISION 2025-2029 CAPITAL PROGRAM WATER

		O	т.	Approval	This Capital Program						
Project #	Name or Title of Proposal	Prj. ategory	(1) Prj. Funding	Stage (1)	 024 Approved	2025 Year 1	2026 Year 2	2027 Year 3	2028 Year 4	2029 Year 5	2025-2029 Total
SD-W-A	Annual Projects	AM - Varies	LCA	А	\$ 2,367,000	\$ 2,492,000	\$ 2,512,500	\$ 2,162,500	\$ 2,012,500	\$ 2,622,500	\$ 11,802,000
SD-W-10	Water Main Replacement Projects	AM - Varies	LCA	V	\$ 2,900,000	\$ -	\$ 3,000,000	\$ 3,000,000	\$ 3,150,000	\$ 3,150,000	\$ 12,300,000
SD-W-11	North Whitehall Division Water System Supply Study & Improvements	Sys Imp	LCA	S	\$ 100,000	\$ 120,000	\$ 1,250,000	\$ 1,780,000	\$ -	\$ -	\$ 3,150,000
SD-W-12	Water Systems Master Planning and Water Quality Studies	Sys Imp	LCA	S	\$ 200,000	\$ 150,000	\$ 150,000	\$ 50,000	\$ -	\$ -	\$ 350,000
SD-W-13	Upper System Pump Station & Water Main Extension	New Cust	LCA	D	\$ 50,000	\$ 50,000	\$ 900,000	\$ 1,100,000	\$ -	\$ -	\$ 2,050,000
SD-W-14	Water Meter Replacement Program	AM-Rev Opprt	LCA	С	\$ 800,000	\$ 1,000,000	\$ 1,050,000	\$ 1,050,000	\$ 1,050,000	\$ 1,000,000	\$ 5,150,000
SD-W-15	Central Lehigh System Supply Improvements	Sys Imp	LCA	S	\$ 100,000	\$ 180,000	\$ 330,000	\$ 20,000	\$ -	\$ -	\$ 530,000
SD-W-16	Buss Acres Water Quality Upgrade	Sys Imp	LCA	S	\$ 50,000	\$ 270,000	\$ 750,000	\$ 640,000	\$ -	\$ -	\$ 1,660,000
SD-W-17	Applewood Pump Station Upgrade	Sys Imp	LCA	D	\$ -	\$ 100,000	\$ 500,000	\$ 100,000	\$ -	\$ -	\$ 700,000
	GRAND TOTAL				\$ 6,567,000	\$ 4,362,000	\$ 10,442,500	\$ 9,902,500	\$ 6,212,500	\$ 6,772,500	\$ 37,692,000

⁽¹⁾ Reference Glossary of Acronyms & Terms found immediately after the Table of Contents. All projects are LCA funded

⁽²⁾ If blank, cost is not applicable (annual project) or to be determined

Project Name	SUBURBAN WATER ANNUAL PROJECT						
Budget Area	Water	Department	repartment Capital Works Project No. SD-W-A				
Location	Suburban	Suburban		Both	Prj. Score	65	
Prj Initiator	Volk		Prj Manager		Geissel		

Detailed Project Description

This annual project consists of separate smaller procurement and improvement projects. The consolidated project includes the following: general water system improvements, other equipment, mobile equipment, new and replacement water meters, reservoir rehab/maintenance, facility asset management upgrades, SCADA system upgrades, development service connections and extensions, water company acquisitions, and capital management.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	'	l.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.		15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	75	4%
Community Impact	Community Impact Project will benefit Community and/or external stakeholders.		25	3%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

Additional Information					
System Location	UNC – OTHER WATER OR SEWER		his project require Rights?		
Project inception Date	1/2/2016	Anticipated Project Completion Date	12/31/2029		

		_					
Project No.	SD-W-A	Project Nar	me	SUBI	JRBAN WA	ATER ANNUAL	PROJECT
Primary Prj S Category	System Improvem	nent		Secondary Prj Category	Asse	t Management P	lan
			Proje	ct Drivers and Needs	_		
	ew Facility				✓ End of	Useful Life	
⊻ E	xisting Facility - L	Ipgrade			✓ Obsole	escence	
✓ S	cheduled Replace	ement			Inadeq	uate Capacity	
✓ s	ystem Improveme	ents			Regula	itory	
Notes							
				d technology support to			
risk system co	mponents to mai	ntain satisfactor	y level of	service of various wate	r facilities ir	n LCA's Suburbai	n Division.
		Са	pital Fu	nds Requested for Pr	oject		
LCA Staff		\$300,000			Project E	atimated	Planning
Land Acquisition		\$0			Project E Level	Stimateu	r idining
Contruction/Equi	pment	\$10,500,000)		Project F	unding	LCA
Professional Serv	vices	\$700,000			Grant Elig	gibility	No
Contingencies		\$302,000			Future Sp	ending	\$0
Total		\$11,802,000)				
Current Budget 2	024			\$2,367,000			
First Year Budget 2025			\$2,492,000		Construction		
Second Year Budget 2026			\$2,512,500		Construction		
Third Year Budge	et 2027			\$2,162,500		Construction	
Fourth Year Budg	get 2028			\$2,012,500		Construction	
Fifth Year Budget	t 2029			\$2,622,500		Construction	
	То	tal 2025-2029		\$11,802,000			

Project Name	SUBURBAN WATER MAIN REPLACEMENT PROJECT						
Budget Area	Water	Department	Ca	pital Works	Project No.	SD-W-10	
Location	Suburban		Prj. Type	Linear	Prj. Score	69	
Prj Initiator	Peters		Prj Manager		Peters		

Detailed Project Description

This project entails replacement of aging and problematic cast iron (CI) and plastic water mains in LCA Central Lehigh and satellite water systems. Scope of work is prioritized based on break history, geology (sinkholes), pipe condition, pipe age, and probability and consequence of failure. The Capital Plan reflects the replacement of approximately one mile of water main per year, per annual prioritization efforts. Annual funding is provided in the Capital Plan for replacing mains that exhibit high failure rates.

Category	Category Definition		Prj Score	Weighted Score
	Environmental	<u> </u>		
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	1		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	50	5%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

Additional Information					
System Location	CLD – SD WATER CENTRAL	Will this Land R	s project require ights?		
Project inception Date	1/2/2013	Anticipated Project Completion Date	1/2/2034		

Project No.	SD-W-10	Project Na	ime	SUBURBAN	I WATER N	IAIN REPLAC	EMENT PROJECT
Primary Prj Category				Secondary Prj Category	Syste	em Improveme	nt
			Proje	ect Drivers and Needs	.		
	New Facility				✓ End of	Useful Life	
	Existing Facilit	v - Upgrade			Obsole	escence	
	Scheduled Rep				_	uate Capacity	
	System Improv				☐ Regula		
	System improv	rements			Regula	itory	
Notes							
				equency of breaks in the damage which can occu			e Authority repair
		Ca	apital Fu	unds Requested for Pr	oject		
LCA Staff		\$500,000			Project Estimated Construction		Construction
Land Acquisition	on	\$0			Level		
Contruction/Eq	uipment	\$9,550,000)		Project F	unding	LCA
Professional Se	ervices	\$1,500,000)		Grant Elig	gibility	TBD
Contingencies		\$750,000			Future Sp	ending	\$0
Tota	I	\$12,300,000	0				
Current Budget	2024			\$2,900,000			
First Year Budg	First Year Budget 2025 \$0		None				
Second Year B	Second Year Budget 2026			\$3,000,000		Construction	
Third Year Bud	get 2027			\$3,000,000		Construction	
Fourth Year Bu	dget 2028			\$3,150,000		Construction	
Fifth Year Budg	jet 2029			\$3,150,000		Construction	
		Total 2025-2029		\$12,300,000			

Project Name	NORTH WHITEHALL DIVISION WATER SYSTEM SUPPLY STUDY & IMPROVEMENTS						
Budget Area	Water	Department	Ca	apital	Works	Project No.	SD-W-11
Location	Suburban		Prj. Type		Both	Prj. Score	64
Prj Initiator	Kunkel		Prj Manager	•		Kunkel	

Detailed Project Description

A source water assessment study for the North Whitehall Division was completed in June 2024. The study identified vulnerabilities in emergency supply due to the system's single source of supply from Northampton Borough Municipal Authority. (NBMA). This project will further evaluate cost alternatives for a second interconnection with NBMA, and benefits of additional water storage within the system to improve reliability. Construction of a second interconnect with NBMA is included as part of this project.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			1
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	75	19%
	Social	1	1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

	Additional Information		
System Location	NWC – NORTH WHITEHALL WATER	Will this project require Land Rights?	✓

Project inception Date 2/1/2022 Anticipated Project 12/31/2027 Completion Date

Project No.	SD-W-11	Project Name	ne NORTH WHITEHALL DIVISION WATER SYSTEM SUPPLY STUDY IMPROVEMENTS				DY &
Primary Prj S Category	System Improvement		Secondary Prj Category	Plann	ing		
		6	roject Drivers and Needs				
l ✓ N	ew Facility		roject Drivers and Needs		Useful Life		
	xisting Facility - Upgr	ade		Obsole	scence		
	cheduled Replaceme				uate Capacity		
	ystem Improvements			☐ Regulat			
Notes	ystem improvements	•		Regular	ory		
	a source of ourselvile	avec the avetem	vulnorable abould an amore	**************************************	at that augusty as		7
Having a single	e source or supply le	aves the system	vulnerable should an emerg	gency occur	at triat supply st	ource.	
		Oomite	I Funda Damusahad fan Dr	alaat			
LCA Staff		\$50,000	I Funds Requested for Pr	oject			
		\$100,000		Project Estimated Planning Level		Planning	
Land Acquisition Contruction/Equi		\$2,600,000				LCA	
Professional Serv		\$250,000		Grant Elig	_	TBD	
Contingencies		\$150,000		Future Sp	-	\$0	
Total		\$3,150,000		, sp	3	, ,	
		40,100,000					
Current Budget 2	024		\$100,000				
First Year Budget	t 2025		\$120,000		Design		
Second Year Bud	lget 2026		\$1,250,000		Construction		
Third Year Budge	et 2027		\$1,780,000		Construction		
Fourth Year Budg	jet 2028		\$0		None		
Fifth Year Budget	t 2029		\$0		None		
	Total 2	2025-2029	\$3,150,000				

Project Name	SUBURBAN WATER SYSTEMS MASTER PLANNING AND WATER QUALITY STUDIES						
Budget Area	Water	Department	Ca	apital '	Works	Project No.	SD-W-12
Location	Suburban		Prj. Type		Both	Prj. Score	73
Prj Initiator	DePoe		Prj Manager			DePoe	

Detailed Project Description

This project originally involved the preparation of a preliminary water supply study for two major Suburban Water Systems (Central Lehigh and North Whitehall Division). The study reviewed supply capacity requirements to meet current and future demands, and evaluate existing water sources, storage, and interconnections to ensure long-term supply needs can be met. From this study, additional engineering work will follow to develop and design water supply projects that enhance the region's water system resiliency and redundancy. This water supply study will serve as the backbone for future development of a Master Plan for the entire LCA Suburban Water System. Additional studies (continuation of pipeline assessment and comprehensive storage assessment) will occur in 2025 and beyond. In addition, this project includes development of a Master Plan for LCA's numerous small water systems ("satellite systems") that will include water quality studies to comply with evolving state and federal water quality standards.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	1		l
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social		1	<u>'</u>
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	90	9%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	80	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information					
System Location	Will this project require Land Rights?				
Project inception Date 7/1/2022	Anticipated Project 12/31/2027 Completion Date				

Project No.	SD-W-12	Project Nam	e SUBURBAN WAT	ER SYSTEMS MASTER QUALITY STUDIE	PLANNING AND WATER
Primary Prj Category	Planning		Secondary Prj Category	System Improveme	ent
			Project Drivers and Needs		
	✓ New Facility			End of Useful Life	
	Existing Facility	y - Upgrade		Obsolescence	
	Scheduled Rep	lacement		✓ Inadequate Capacity	
	✓ System Improv	ements		Regulatory	
Notes					
Project	drivers include syste	em supply and distrib	ution improvements, customer	service, redundancy, resil	iency and regulatory.
			ital Funds Requested for P	roject	
LCA Staff		\$30,000		Project Estimated	Planning
Land Acqui	isition	\$0		Level	
Contruction	n/Equipment	\$0		Project Funding	LCA
Profession	al Services	\$250,000		Grant Eligibility	No
Contingend	cies	\$70,000		Future Spending	\$0
-	Total	\$350,000			
Current Bu	dget 2024		\$100,000		
First Year E	Budget 2025		\$150,000	Planning	
Second Year Budget 2026			\$150,000	Planning	
Third Year	Budget 2027		\$50,000	Planning	
Fourth Yea	r Budget 2028		\$0	None	
Fifth Year E	Budget 2029		\$0	None	
-		Total 2025-2029	\$350,000		

Project Name	UPPER SYSTEM PUMP STATION & WATER MAIN EXTENSION							
Budget Area	Water	Department	epartment Capital Works Project No.			SD-W-13		
Location	Suburban		Prj. Type	Ve	ertical	Prj. Score	61	
Prj Initiator	Kunkel F		Prj Manager			Kunkel		

Detailed Project Description

The project consists of improvements to LCA's Western Lehigh water distribution system ("CLD Upper System") that is located north of I-78 and west of the village of Fogelsville. A study done in 2020 recommended an interconnection with the CLD Lower system to provide adequate water supply and pressure to future industrial customers. This consists of a new pump station on the north side of I-78 to convey water from the Lower System to the Upper system. Design has progressed to approximately 80% "DEP Permit Level". The final design and construction of improvements will be contingent upon the timing of execution of a Developer Water Service Agreement (DWSA) with a potential large user and/or approved development(s) in the Upper System. It is assumed that a portion of the project costs will be shared by a TBD developer(s).

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	25	6%
	Social	'	1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	100	10%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	100	10%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

		Additional Information	
System Location	CLD – SD WATER CENTRAL	Will this project require Land Rights?	✓

Project inception Date 1/1/2020 Anticipated Project 12/31/2027 Completion Date

Project No.	SD-W-13	Project N	ame	UPPER SYSTEM	PUMP STAT	ION & WATE	R MAIN EXTENS	ION
Primary Prj Category	New Custome	er		Secondary Prj Category	System	Improvement		
			Proie	ect Drivers and Needs				
✓	New Facility				End of Us	eful Life		
	Existing Facilit	ty - Upgrade			Obsolesc	ence		
	Scheduled Re	placement			✓ Inadequat	e Capacity		
	System Improv				Regulator			
Notes	,				Ü			
The project	t will meet the su	upply needs of a po	otential lar	ge water user(s) in the CL	D Upper sys	tem.		
' '		,	·	· ()	,			
			Capital Fu	ınds Requested for Pro	ject			
LCA Staff		\$30,000	•	•	-	mata d	Design	
Land Acquisit	ion	\$20,000			Project Estin Level	nated	Design	
Contruction/E	quipment	\$1,700,00	0		Project Fund	ding	LCA	
Professional S	Services	\$175,000)		Grant Eligib	ility	Yes	
Contingencies	5	\$125,000)		Future Spen	ding	\$0	
Tot	al	\$2,050,00	0					
Current Budge	et 2024			\$50,000				
First Year Bud	lget 2025			\$50,000	De	esign		
Second Year E	Budget 2026			\$900,000	Co	onstruction		
Third Year Bu	dget 2027			\$1,100,000	Co	onstruction		
Fourth Year B	udget 2028			\$0	No	one		
Fifth Year Bud	lget 2029			\$0	No	one		
		Total 2025-2029		\$2,050,000				

Project Name	SUBURBAN WATER METER REPLACEMENT PROGRAM								
Budget Area	Water	Department	epartment Capital Works Proj			Project No.	SD-W-14		
Location	Suburban		Prj. Type	L	inear	Prj. Score	35		
Prj Initiator	Kunkel		Prj Manager	Prj Manager Kunkel		Kunkel			

Detailed Project Description

The program consists of annual projects to replace aging and/or inoperable water meters. The program consists of annual meter replacements, which is prioritized internally with a higher priority assigned to meters that are non-functioning and/or have reached the end of their useful lives. All new meters will have radio-read (RR) capability.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	1		L
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	0	0%
	Social	1		•
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	25	6%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	75	4%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	20	2%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	25	3%

	Additional I	nformation		
System Location	UNC – OTHER WATER OR SEWER		his project require Rights?	
Project inception Date	1/1/2022	Anticipated Project Completion Date	12/31/2029	

Project No.	SD-W-1	4 Project	t Name	SUBURBAN	WATER METER	R REPLACE	MENT PROGRAM
Primary Prj Category	Revenue Op	portunity		Secondary Prj Category	Efficiency	/	
	1		Proj	ect Drivers and Needs			
	New Facility				✓ End of Use	ful Life	
✓	Existing Facili	ty - Upgrade			Obsolescer	nce	
✓	Scheduled Re	placement			Inadequate	Capacity	
✓	System Impro	vements			Regulatory		
Notes							
		cies in meter rea tential to increas		ases with age and usage tem revenues.	of the meters. T	he improved	accuracy of the
			Comital E	unds Requested for Pi	reiget		
		ф7F О		unas Requested for Pi	roject		
LCA Staff		\$75,0	00		Project Estim Level	ated	Planning
Land Acquisiti		\$0					LCA
Contruction/E		\$4,950,	000		Project Fundi	_	
Professional S	Services	\$0			Grant Eligibili		No
Contingencies	•	\$125,0	000	_	Future Spend	ling	\$0
Tota	al	\$5,150,	000				
Current Budge	et 2024			\$800,000			
First Year Bud	lget 2025			\$1,000,000	Cor	nstruction	
Second Year Budget 2026			\$1,050,000	Cor	nstruction		
Third Year Bud	dget 2027			\$1,050,000	Cor	nstruction	
Fourth Year B	udget 2028			\$1,050,000	Cor	nstruction	
Fifth Year Bud	lget 2029			\$1,000,000	Cor	nstruction	
t-		Total 2025 20	29	\$5.150.000			

Project Name	CENTRAL LEHIGH SYSTEM SUPPLY IMPROVEMENTS							
Budget Area	Water	Department	epartment Capital Works Project No. S			SD-W-15		
Location	Suburban		Prj. Type	Both	Prj. Score	88		
Prj Initiator	Kunkel F		Prj Manager		Kunkel			

Detailed Project Description

A source water assessment study for the Central Lehigh Division was completed in June 2024. The study identified vulnerabilities in emergency supply should the largest water source (Schantz Spring) be taken out of service. Re-establishing the Bortz interconnect with South Whitehall Township and re-establishing the Schantz Spring Secondary Booster Station are two alternatives for additional emergency supply that were identified in the study and will be implemented in 2025/2026.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	<u> </u>		
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social		1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	80	20%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	75	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

	A	dditional Information	
System Location	CLD – SD WATER CENTRAL	Will this project require Land Rights?	
Project incention Date	1/2/2022	Anticinated Project 1/6/2027	

Completion Date

	-						
Project No.	SD-W-15	Project Na	me	CENTRAL LE	HIGH SYS	TEM SUPPLY	IMPROVEMENTS
Primary Prj Category	System Improv	/ement		condary Prj egory	Regul	atory	
			Project Driver	s and Needs			
	New Facility				_ End of U	Jseful Life	
✓	Existing Facility	- Upgrade			Obsoles	scence	
	Scheduled Rep	lacement			Inadequ	ate Capacity	
✓	System Improve	ements			Regulate	ory	
Notes							
This project	addresses the r	need to have adequ	ate source capacity	y with the larges	st source o	ut of service du	ring an emergency.
			pital Funds Requ	ested for Pro	ject		
LCA Staff		\$30,000			Project Es	timated	Planning
Land Acquisition		\$0			Level		1.04
Contruction/Ed		\$350,000			Project Fu	_	LCA
Professional S	ervices	\$120,000			Grant Eligi		TBD
Contingencies	_	\$30,000			Future Spe	ending	\$0
Tota	ıl	\$530,000					
Current Budge				5100,000			
First Year Bud	get 2025		\$	180,000		Design	
Second Year B	udget 2026		\$	330,000		Construction	
Third Year Bud	lget 2027			\$20,000		Construction	
Fourth Year Bu	ıdget 2028			\$0		None	
Fifth Year Bud	get 2029			\$0		None	
		Total 2025 2020	4	520 000			

Project Name	BUSS ACRES WATER QUALITY UPGRADE								
Budget Area	Water	Department	partment Capital Works Project No. SD-W-16						
Location	Suburban	Suburban			Vertical	Prj. Score	81		
Prj Initiator	Kunkel		Prj Manage	r		Kunkel			

Detailed Project Description

In January 2023, Pennsylvania's PFAS maximum contaminant levels (MCLs) were established by DEP. Water quality analysis of the two wells serving the Buss Acres Water System show some levels in exceedance of these MCLs. A study to identify PFAS treatment options for the two wells as well as an option to connect Buss Acres to the CLD system will be completed in the fourth quarter of 2024. This project will implement the option selected from that study. Treatment system pilot studies (if option selected) and engineering design will begin in 2025, with final design and construction occurring in subsequent years.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			L
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social		1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	100	25%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	0	0%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

		Additional Information	
System Location	UCC – BUSS ACRES WATER	Will this project require Land Rights?	
Project inception Date	2/1/2024	Anticipated Project 12/31/2027 Completion Date	

Project No.	SD-W-16	Project Name	BUSS	ACRES WATER	R QUALITY	UPGRADE
Primary Prj Category	Regulatory		Secondary Prj Category	System In	nprovement	
		Pro	ject Drivers and Needs			
	lew Facility			End of Usef	ul Life	
✓ E	Existing Facility - Up	grade		Obsolescen	ice	
	scheduled Replacer	nent		Inadequate	Capacity	
✓ S	System Improvemer	nts		✓ Regulatory		
Notes						
Treatment of	the wells is require	d for continued use a	s a source of supply.			
		Capital F	Funds Requested for Pro	oject		
LCA Staff		\$30,000		Project Estima	ated	Planning
Land Acquisition	1	\$0		Level		J
Contruction/Equ	ipment	\$1,300,000		Project Fundi	ng	LCA
Professional Ser	vices	\$230,000		Grant Eligibili	ty	Yes
Contingencies		\$100,000		Future Spendi	ing	\$0
Total		\$1,660,000				
			4			
Current Budget 2			\$50,000		-	
First Year Budge	t 2025		\$270,000	Des		
Second Year Bud	dget 2026		\$750,000	Con	struction	
Third Year Budge	et 2027		\$640,000	Con	struction	
Fourth Year Bud	get 2028		\$0	Non	е	
Fifth Year Budge	t 2029		\$0	Non	е	
	Tota	al 2025-2029	\$1,660,000			

Project Name	APPLEWOOD PUMP STATION UPGRADE							
Budget Area	Water	Department	epartment Operations Project No. SD-W-17					
Location	Suburban	Suburban		Vertical	Prj. Score	70		
Prj Initiator	Lynn		Prj Manager		Dorner			

Detailed Project Description

This project involves a mechanical upgrade to the Applewood Pump Station, including replacing pumps and control valves which have reached the end of their service life. The project will also include hypochlorite system improvements at several well station sites within the Central Lehigh Division.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	'	l.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	75	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

	Additional I	nformation		
System Location	UNC – OTHER WATER OR SEWER		his project require Rights?	
Project inception Date	7/1/2024	Anticipated Project Completion Date	11/28/2025	

	1					
Project No.	SD-W-17	Project Na	me	APPLEV	VOOD PUMP STA	TION UPGRADE
Primary Prj Category	System Improv	vement		ondary Prj egory	New Customer	
			Project Drivers			
	New Facility			✓	End of Useful Life	е
✓	Existing Facility	· - Upgrade			Obsolescence	
	Scheduled Rep	lacement		✓	Inadequate Capa	city
✓	System Improve	ements			Regulatory	
Notes						
Project drive	ers include asse	t management, sys	tem improvements a	and fire flow cap	acity.	
		Ca	pital Funds Requ	ested for Proje	ect	
LCA Staff		\$10,000		P	roject Estimated	Planning
Land Acquisition	on	\$0			evel	Ů
Contruction/Eq	Juipment	\$550,000		Р	roject Funding	LCA
Professional S	ervices	\$90,000		G	rant Eligibility	No
Contingencies		\$50,000		F	uture Spending	\$0
Tota	ıl	\$700,000				
Current Budge	t 2024			\$0		
First Year Budg	get 2025		\$*	100,000	Design	
Second Year B	udget 2026		\$:	500,000	Construc	tion
Third Year Bud	lget 2027		\$	100,000	Construc	tion
Fourth Year Bu	ıdget 2028			\$0	None	
Fifth Year Budg	get 2029			\$0	None	
		Total 2025 2029	¢.	700 000		



LEHIGH COUNTY AUTHORITY SUBURBAN DIVISION WASTEWATER 5-YEAR CAPITAL PLAN 2025–2029

CAPITAL FINANCING JUSTIFICATION

Capital additions to the Wastewater System are justified by calculating the operating cash available based upon projections of revenues over the five-year period. Beyond the operating cash available, remaining sources are project reserves from previous debt issuance and any new borrowing required.

The table below summarizes the capital project sourcing by year and each major financial sourcing category:

CAPITAL FINANCING SOURCES									
	2025	2026	2027	2028	2029	TOTAL			
Project Costs	13,825,500	\$21,818,000	\$20,483,000	\$7,128,000	\$1,238,000	\$63,992,500			
Sources of Funding:									
Current Cash Flows	\$2,725,500	\$4,218,000	\$4,083,000	\$4,155,283	\$1,238,000	\$16,419,783			
Cash Reserves		-	-	\$2,972,717	-	\$2,972,717			
New Borrowing	\$10,600,000	\$17,600,000	\$16,400,000	-	-	\$44,600,000			
TOTAL FUNDING	\$13,325,500	\$21,818,000	\$20,483,000	\$7,128,000	\$1,238,000	\$63,992,500			

Total spending on capital projects for the five-year period totals \$63,992,500. Current cash flows and cash reserves over the period will provide \$19,392,500 for capital projects. New borrowing will provide \$44,600,000 of project funding. This approach is recommended to allow for continued growth of reserves, which will be needed in the future as additional projects are incorporated into the plan as a result of the regional Act 537 Plan that is currently under development. The regional Act 537 Plan will provide details for sewage facility plans and significant capital improvements in the Suburban Division to address sanitary sewer overflows and overall capacity challenges of the system. The Act 537 Plan is expected to be submitted to state regulators in 2025 for review and approval and will include a separate detailed financial analysis outlining intermunicipal cost-sharing approaches for these projects as well as financing strategies and an analysis of rate impacts. This financial analysis and full plan overview will be presented later in 2024. However, due to the project timing, including some projects commencing in 2025, LCA has incorporated these projects into this Capital Plan to offer a preliminary view of borrowing and rate impacts. This information will be further refined in the Act 537 Plan and subsequent Capital Plans.

Revenue requirements will also be impacted by inflation for both the Western Lehigh Interceptor (WLI) group along with other users of the system. Signatory Revenue increases by year to support the Capital Plan are as shown below, but do not include and analysis of pass-through costs from the Allentown Division projects at this time:

	2025	2026	2027	2028	2029
Projected WLI Rate Increase	6.4%	2.9%	2.7%	2.4%	2.4%

CONDENSED CASH FLOW - SUBURBAN WASTEWATER									
Dollars	2025	2026	2027	2028	2029				
User Charges	20,281,604	21,757,832	23,137,287	23,414,347	23,698,333				
Other Operating Revenues	273,624	273,624	273,624	273,624	273,624				
Non-Operating Revenues	1,691,216	1,691,216	1,691,216	1,691,216	1,691,216				
Operating expenses	(15,673,794)	(16,144,009)	(16,587,971)	(17,002,671)	(17,427,738)				
Debt Service - Current Debt	(1,196,420)	(1,196,420)	(1,196,420)	(1,196,420)	(1,196,420)				
Debt Service - NEW Debt	(699,888)	(1,861,967)	(2,944,813)	(2,944,813)	(2,944,813)				
Investments Converting to Cash	-	-	-	-	-				
Proceeds From NEW Debt	10,600,000	17,600,000	16,400,000	-	-				
Capex	(13,738,000)	(21,941,750)	(20,586,750)	(7,208,000)	(1,318,000)				
NET FUND FLOWS	1,538,342	178,526	186,173	(2,972,717)	2,776,202				
User Charge Revenue Increase %	5.6%	7.3%	6.3%	1.2%	1.2%				
Unrestricted Cash Balance	12,529,718	12,708,244	12,894,417	9,921,700	12,697,902				
Unrestricted Investments	6,465,467	6,465,467	6,465,467	6,465,467	6,465,467				
Total Unrestricted Balances	18,995,185	19,173,711	19,359,884	16,387,167	19,163,369				
Unrestricted Cash - Days on Hand	292	287	284	213	266				
DEBT SERVICE COVERAGE RATIO	3.47	2.48	2.06	2.02	1.99				

Sourcing of Projects and Debt Service related to various systems is as follows:

BY SYSTEM	TOTAL	CURRENT CASH FLOWS	RESERVES	NEW DEBT
Annual Projects	\$3,182,500	\$3,182,500	-	-
Western Lehigh Interceptor	\$7,000,000	\$7,000,000	-	-
LCA Wastewater Pretreatment Plant	\$47,400,000	-	\$2,800,000	\$44,600,000
Common Rate Collector Systems	\$3,690,000	\$3,528,342	\$161,658	-
Arcadia West	\$620,000	\$620,000	-	-
Lynn Township	\$1,300,000	\$1,300,000	-	-
Little Lehigh Relief Interceptor System	\$800,000	\$788,941	\$11,059	-
	\$63,992,500	\$16,419,783	\$2,972,717	\$44,600,000

LEHIGH COUNTY AUTHORITY SUBURBAN DIVISION 2025-2029 CAPITAL PROGRAM WASTEWATER

<u> </u>		1	VV	ASIEWA	1							
		င္လ	Ţ. .	Approval						Capital Program		T
		Prj. ateg	(1) Prj. Funding	Stage (1)			2025	2026	2027	2028	2029	2025-2029
Project		j.	۲ _۲ :		Budget Appro	oved	Year 1	Year 2	Year 3	Year 4	Year 5	Total
#	Name or Title of Proposal	~	.									
	Operating/Capital Reserve Funds											
	<u>Annual</u>											
SD-S-A	Annual Projects	AM - Varies	LCA	Α	\$ 912,	500	\$ 835,500	\$ 948,000	\$ 378,000	\$ 593,000	\$ 428,000	\$ 3,182,500
	Subtotal				\$ 912,	500	\$ 835,500	\$ 948,000	\$ 378,000	\$ 593,000	\$ 428,000	\$ 3,182,500
	Pretreatment Plant											
SD-S-10	Pretreatment Plant Improvements	AM - Varies	LCA	Α	\$ 1,000,	000	\$ 600,000	\$ 500,000	\$ 500,000	\$ 400,000	\$ 300,000	\$ 2,300,000
SD-S-11	Pretreatment Plant Critical Upgrades	AM - Varies	LCA	Α	\$	-	\$ 4,000,000	\$ 3,500,000	\$ -	\$	\$ -	\$ 7,500,000
SD-S-12	Pretreatment Plant Upgrades and Replacement	AM - Varies	LCA	Α	\$	-	\$ 1,000,000	\$ 15,000,000	\$ 16,600,000	\$ 5,000,000	\$ -	\$ 37,600,000
	Subtotal				\$ 1,000,	000	\$ 5,600,000	\$ 19,000,000	\$ 17,100,000	\$ 5,400,000	\$ 300,000	\$ 47,400,000
	Western Lehigh Interceptor											
SD-S-20	Central Lehigh County WW Capacity Planning & Expansion	New Cust	LCA	S	\$ 325,	000	\$ 400,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 1,000,000
SD-S-21	WLI Major Rehabilitation and Repairs	Regulatory	LCA	V	\$ 225,	000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
SD-S-22	Spring Creek Force Main Condition Assessment	AM-High	LCA	S	\$ 150,	000	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
SD-S-23	Spring Creek Pump Station Upgrades	AM-High	LCA	С	\$ 700,	000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000
SD-S-24	Spring Creek Force Main Relocation	Regulatory	LCA	D	\$ 100,	000	\$ 900,000	\$ -	\$ -	\$ -	\$ -	\$ 900,000
SD-S-25	Signatory I & I Investigation & Remediation Program	Regulatory	LCA	V	\$ 1,000,	000	\$ 500,000	\$ 200,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 1,000,000
SD-S-26	Upper Western Lehigh Interceptor Pump Station & Force Main	Regulatory	LCA	С	\$ 3,500,	000	\$ 1,300,000	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000
SD-S-27	Western Lehigh Interceptor Parallel Alignment (Special Act 537 Study)	Regulatory	LCA	S	\$	-	\$ - :	\$ -	\$ 750,000	\$ 750,000	\$ 150,000	\$ 1,650,000
	Subtotal				\$ 6,000,	000	\$ 4,250,000	\$ 350,000	\$ 1,000,000	\$ 1,000,000	\$ 400,000	\$ 7,000,000
	Satellite Systems											
SD-S-30	Wynnewood I & I Investigation & Remediation Program	AM - Varies	LCA	С	\$ 125,	000	\$ 150,000	\$ 150,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 375,000
SD-S-31	Wynnewood Wastewater Treatment Plant Expansion	New Cust	LCA	D	\$	-	\$ 50,000	\$ 500,000	\$ 1,750,000	\$ -	\$ -	\$ 2,300,000
SD-S-32	Arcadia West WWTP Mechanical Screen	Efficiency	LCA	D	\$ 75,	000	\$ 220,000	\$ 400,000	\$ -	\$ -	\$ -	\$ 620,000
SD-S-33	North Whitehall Township Act 537 Sewage Facilities Planning	Regulatory	LCA	S	\$ 70,	000	\$ 70,000	\$ 20,000	\$ -	\$ -	\$ -	\$ 90,000
SD-S-34	Heidelberg Heights I & I Investigation & Remediation Program	AM - Varies	LCA	D	\$ 350,	000	\$ 300,000	\$ 100,000	\$ 50,000	\$ 50,000	\$ 25,000	\$ 525,000
SD-S-35	Heidelberg Heights WWTP Rehabilitation	AM - Varies	LCA	S	\$ 160,	000	\$ 25,000	\$ 50,000	\$ 75,000	\$ 25,000	\$ 25,000	\$ 200,000
SD-S-36	Sand Spring WWTP improvements	Regulatory	LCA	С	\$ 100,	000			\$ 30,000	\$ 10,000	\$ 10,000	\$ 200,000
SD-S-37	Lynn Township WWTP Improvements	AM - High	LCA	С	\$ 500,		\$ 900,000			\$ -	\$ -	\$ 1,100,000
SD-S-38	Lynn Township I & I Investigation & Remediation Program	Regulatory	LCA	Р		000	\$ 25,000			\$ 25,000	\$ 25,000	
	Subtotal	,			\$ 1,430,	_						
	Little Lehigh Relief Interceptor System	1			, , , ,	- 	, ,	, , -	, , -	• • •		, , , , , , , , , , , , , , , , , , , ,
SD-S-40	Park Pump Station Upgrade - Phase 2	AM - High	LCA	С	\$ 2,300,	000	\$ 800,000	\$ -	\$ -	\$ -	\$ -	\$ 800,000
	Subtotal	<u>,</u>			\$ 2,300,				•	\$ -	\$ -	\$ 800,000
					-,-30,		,	*	T	*	T	
	GRAND TOTAL WASTEWATER PROJECTS				\$ 11.6/2	500	\$ 13,325,500	\$ 21 818 000	\$ 20.483.000	\$ 7128,000	\$ 1 238 000	\$ 63,992,500
	OWNED TO THE HAD LETTALENT NOVED TO				Ψ 11,072,	~~~	Ψ .υ,υ <u>~</u> υ,υυυ .	Ψ = 1,010,000	Ψ -0,-00,000	Ψ 1,120,000	Ψ 1,200,000	ΙΨ 00,002,000

⁽¹⁾ Reference Glossary of Acronyms & Terms found immediately after the Table of Contents. All projects are LCA funded.

⁽²⁾ If blank, cost is not applicable (annual project) or to be determined

Project Name	lame SUBURBAN WASTEWATER ANNUAL PROJECT							
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-A					
Location	Suburban		Prj. Type	Both	Prj. Score	74		
Prj Initiator	Volk Prj Manager Geissel							

Detailed Project Description

This annual project consists of separate smaller procurement and improvement projects. The consolidated project includes the following: general sewer system improvements, other equipment, mobile equipment, facility asset management upgrades, SCADA system upgrades, development service connections and extensions, sewer company acquisitions, and capital management.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	75	19%
	Social	'		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	75	4%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information						
System Location	UNC – OTHER WATER OR SEWER		his project require Rights?			
Project inception Date	1/2/2016	Anticipated Project Completion Date	12/31/2029			

Project No.	SD-S-A	Project Name	SUBURE	AN WAST	TEWATER ANNU	JAL PROJECT		
Primary Prj S Category	system Improvemen	nt	Secondary Prj Category	Ass	et Management P	lan		
		Pr	oject Drivers and Needs					
∐ N∈	ew Facility			✓ End o	f Useful Life			
✓ Ex	kisting Facility - Upg	ırade	✓ Obsolescence					
✓ So	cheduled Replacem	ent		Inade	quate Capacity			
✓ Sy	stem Improvement	s		Regul	atory			
Notes								
	s provide for peede	d equipment and to	echnology support to mainta	ain evetem	s operation and a	ddraee high riek		
system compo	nents to maintain s	atisfactory level of	service of various wastewa	ter facilities	s in LCA's Suburb	an		
		Capital	Funds Requested for Pr	oject				
LCA Staff		\$200,000		Project E	Estimated	Planning		
Land Acquisition		\$0		Level				
Contruction/Equip	oment	\$2,600,000		Project F	unding	LCA		
Professional Serv	ices	\$250,000		Grant Eli	igibility	No		
Contingencies		\$132,500		Future S	pending	\$0		
Total		\$3,182,500						
Current Budget 20)24		\$912,500					
First Year Budget	2025		\$835,500		Construction			
Second Year Budget 2026			\$948,000		Construction			
Third Year Budge	t 2027		\$378,000		Construction			
Fourth Year Budg	et 2028		\$593,000		Construction			
Fifth Year Budget	2029		\$428,000		Construction			
	Total	2025-2029	\$3,182,500					

Project Name	Name PRETREATMENT PLANT ANNUAL IMPROVEMENTS							
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-10					
Location	Suburban		Prj. Type	Vertical	Prj. Score	89		
Prj Initiator	Volk	Volk			Volk			

Detailed Project Description

This project is comprised of asset management driven upgrades to address the reliability and functionality of the LCA pretreatment plant. Prioritization of separate capital improvement projects utilizes asset management protocols to replace equipment and upgrade processes, in order to maintain level of service and compliance with City of Allentown mandated discharge requirements. Electrical system components will be upgraded in 2025 as a result of a comprehensive electrical testing program being conducted in 2024. Annual paving projects, SCADA/security upgrades, building repairs, and major equipment replacements are also part of this program.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	•		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	100	10%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

Additional Information						
System Location	TPC – PRETREATMENT PLANT		his project require Rights?			
Project inception Date	1/2/2010	Anticipated Project Completion Date	12/31/2029			

Project No.	SD-S-10	Project Nam	ne	PRETREAT	MENT PLA	ANT ANNUAL IM	PROVEMENTS	
Primary Prj Category	Asset Manageme	nt Plan		Secondary Prj Category	Syste	em Improvement		
			Project D	rivers and Needs				
□ ١	New Facility				✓ End of	Useful Life		
✓ E	Existing Facility - U	Ipgrade			✓ Obsole	escence		
	Scheduled Replace	ement			Inadeq	uate Capacity		
	System Improveme	ents			Regula	itory		
Notes								
This facility is	critical to support	local economic o	growth in the	Western Lehigh se	wer service	area and annua	Limprovements	
				plant, which has be				
		•	oital Funds	Requested for Pr	oject ———			
LCA Staff		\$100,000			Project E	stimated	Design	
Land Acquisition		\$0			Level		1.04	
Contruction/Equ	ipment	\$2,000,000			Project Funding LCA			
Professional Ser	rvices	\$100,000			Grant Elig	gibility	TBD	
Contingencies		\$100,000			Future Sp	ending	\$0	
Total		\$2,300,000						
Current Budget	2024			\$1,000,000				
First Year Budge	First Year Budget 2025			\$600,000		Construction		
Second Year Budget 2026			\$500,000		Construction			
Third Year Budg	et 2027			\$500,000		Construction		
Fourth Year Bud	lget 2028			\$400,000		Construction		
Fifth Year Budge	et 2029			\$300,000		Construction		
	То	tal 2025-2029		\$2,300,000				

Project Name	PRETREATMENT PLANT CRITICAL UPGRADES							
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-11					
Location	Suburban		Prj. Type	Vertical	Prj. Score	55		
Prj Initiator	Volk	Prj Manager		Volk				

Detailed Project Description

A critical upgrade project is being designed in 2024 and will be constructed in 2025 and 2026 to address four primary process areas that have major equipment at the end of its service life. The process areas are - aeration (air deck mixers and instrumentation), final settling (final clarifier mechanical equipment), cryogenic plant (mechanical), and solids processing (solids buildings HVAC systems). The objective of the critical plant upgrade project is to address high risk areas and maintain treatment performance in the short term.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			•
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	1	l.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	25	6%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	90	14%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	50	5%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	90	9%

Additional Information									
System Location	TPC – PRETREATMENT PLANT		Will this project require Land Rights?						
Project inception Date	1/2/2024	Anticipated Project Completion Date	6/30/2026						

Project No.	SD-S-11	Project Nan	ne PRETR	EATMENT PLAN	T CRITICAL UPGRADES		
Primary Prj Category	Asset Manage	ment Plan	Secondary Prj Category	System Im	nprovement		
	Now Equility		Project Drivers and Need	IS ✓ End of Usefu	ul Life		
☐ New Facility				-			
Existing Facility - Upgrade				Obsolescence			
Scheduled Replacement				Inadequate Capacity			
✓ System Improvements				Regulatory			
Notes							
Asset management and system improvement are the primary drivers.							
Capital Funds Requested for Project							
LCA Staff		\$50,000		Project Estima	nted Design		
Land Acquisitio	n	\$0		Level			
Contruction/Equ	uipment	\$7,000,000		Project Fundin	ng LCA		
Professional Se	rvices	\$350,000		Grant Eligibilit	ty TBD		
Contingencies		\$100,000		Future Spendi	ng \$0		
Total		\$7,500,000					
Current Budget	2024		\$0				
First Year Budget 2025		\$4,000,000	Cons	struction			
Second Year Budget 2026		\$3,500,000		struction			
Third Year Budget 2027		\$0	None				
Fourth Year Budget 2028		\$0	None	None			
Fifth Year Budget 2029		\$0	None	None			
car badg		Total 2025 2020	\$7,500,000				

Project Name	PRETREATMENT PLANT UPGRADE AND REPLACEMENT						
Budget Area	Wastewater	Department Capital Works Project No.				SD-S-12	
Location	Suburban	Suburban			Vertical	Prj. Score	53
Prj Initiator	Capuzzi		Prj Manager		Volk		

Detailed Project Description

Major modifications to the pretreatment are planned under this project. This project assumes only three major industries are participating in the pretreatment plant replacement - Keurig Doctor Pepper, Sunopta and Coke. Ocean Spray and Boston Beer will treat their wastewater on-site to be conveyed to Kline's Island Wastewater Treatment Plant. The new plant will also treat hauled-in waste. The new treatment facility will include an anaerobic process (upflow anaerobic sludge blanket (UASB)), moving bed bio-reactor and dissolved air flotation. A combined heat and power unit will be installed to convert the biogas to electricity and heat. New solids handling facilities are planned primarily for the hauled waste including new hauled waste receiving station, a redundant boiler for digesters, dewatering equipment replacement and new solids load-out equipment. To convey the wastewater to the plant, a new dedicated pump station and force main for each major industry is planned. Domestic and commercial waste will bypass the new facility and receive treatment at the Kline's Island wastewater treatment plant in Allentown. This segregation is needed for the UASB process. The project includes design, equipment procurement, construction and construction management. Work will start in 4th quarter 2024. The work is anticipated to be completed by the end of 2027

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	<u> </u>		
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social		1	<u>'</u>
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	25	6%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	75	11%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	50	5%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information						
System Location	TPC – PRETREATMENT PLANT		his project require Rights?			
Project inception Date	6/1/2023	Anticipated Project Completion Date	12/31/2027			

Project No.	SD-S-12	Project Na	me	PRETREATM	ENT PLAN	Γ UPGRADE AI	ND REPLACEMENT
Primary Prj Category	Asset Manageme	ent Plan	nt Plan Secondary Prj System Improveme Category		em Improvemen	t	
✓ N	lew Facility		Proje	ct Drivers and Needs	End of	Lleaful Lifa	
	•						
Existing Facility - Upgrade					_	escence	
	Scheduled Replacement				Inadeq	uate Capacity	
✓ System Improvements					Regula	tory	
Notes							
	oretreatment plan The plant requires			os and the majority of its	s major equi	pment has reacl	hed the end of its
service ille.	The plant requires	s a major upgrau	e and ren	аріпацоп.			
		Ca	apital Fu	nds Requested for Pr	oject		
LCA Staff		\$200,000			Project E	stimated	Planning
Land Acquisition	1	\$0			Level		•
Contruction/Equ	ipment	\$33,000,000)		Project F	unding	LCA
Professional Ser	vices	\$3,000,000			Grant Elig	gibility	TBD
Contingencies		\$1,400,000			Future Sp	ending	\$0
Total		\$37,600,000)				
Current Budget 2	2024			\$0			
First Year Budge	et 2025			\$1,000,000		Design	
Second Year Bud	dget 2026			\$15,000,000		Construction	
Third Year Budg	et 2027			\$16,600,000		Construction	
Fourth Year Bud	get 2028			\$5,000,000	None		
Fifth Year Budge	et 2029			\$0		None	
	To	otal 2025-2029		\$37,600,000			

Project Name	CENTRAL LEHIGH COUNTY WW CAPACITY PLANNING & EXPANSION							
Budget Area	Wastewater	Department	partment Capital Works Project				SD-S-20	
Location	Suburban	Suburban			Both	Prj. Score	87	
Prj Initiator	DePoe		Prj Manage	r		DePoe		

Detailed Project Description

This project has evolved over the past 15 years, starting with the EPA Administrative Orders (AOs) being issued in 2007 and 2009 related to wet weather capacity issues. In 2010, DEP enacted a Connection Management Plan on the Western Lehigh Interceptor (WLI) - known as the "SCARP" (Sewer Capacity Assurance and Rehabilitation Program). LCA initiated its own version of Act 537 during 2013-2016, which was ultimately not submitted to DEP. With a commitment to a flow characterization study and a Regional Flow Management Strategy (RFMS), the EPA lifted both AOs in 2019. The region experienced an abnormal rainfall pattern that lasted from August 2018 through July 2019. This caused a Chapter 94 violation at the Kline's Island WWTP, which forced DEP to place the entire system under Act 537 Planning. This Plan is due to DEP by March 2025. This project includes upgrades to LCA Meter Stations nos. 1 and 2 to restore full functionality in order to trend wet weather flows in the Western Lehigh Interceptor service area.

Category	Definition	LCA Weight	Prj Score	Weighted Score	
	Environmental	1		l	
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%	
	Social		1	<u>'</u>	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	90	23%	
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.		75	11%	
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	10	1%	
Community Impact	Project will benefit Community and/or external stakeholders.	10%	100	10%	
	Economic				
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	100	10%	
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%	

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?			
Project inception Date	1/1/2007	Anticipated Project Completion Date	12/31/2035			

		_				
Project No.	SD-S-20	Project Name	CENTRAL LEHIGH (COUNTY W	W CAPACITY I	PLANNING & EXPANSION
Primary Prj Category	Regulatory	-	Secondary Prj Category	Plann	ing	
		De	reject Drivers and Needs			
	New Facility	PI	oject Drivers and Needs	✓ End of	Useful Life	
	Existing Facility - U	Ingrade		Obsole		
		. •				
	Scheduled Replace				uate Capacity	
	System Improveme	ents		✓ Regulat	tory	
Notes						
Primary proje	ect drivers are regu	latory, system capac	ity and economic developm	nent.		
			Funds Requested for Pr	oject		
LCA Staff		\$125,000		Project Es	stimated	Preliminary
Land Acquisition		\$0		Level		1.04
Contruction/Equ		\$250,000		Project Fu	_	LCA
Professional Se	rvices	\$500,000		Grant Elig		No
Contingencies		\$125,000		Future Sp	ending	\$0
Total		\$1,000,000				
			\$22E 000			
Current Budget			\$325,000			
First Year Budge	et 2025		\$400,000		Construction	
Second Year Bu	dget 2026		\$150,000		Planning	
Third Year Budg	jet 2027		\$150,000		Planning	
Fourth Year Bud	lget 2028		\$150,000		Planning	
Fifth Year Budge	et 2029		\$150,000		Planning	
	To	tal 2025 2020	\$1,000,000			

Project Name	WLI MAJOR REHABILITATION AND REPAIRS						
Budget Area	Wastewater	Department Capital Works Project No. SD-				SD-S-21	
Location	Suburban	Suburban		Linear	Prj. Score	79	
Prj Initiator	DePoe		Prj Manager		Peters		

Detailed Project Description

This project is a result of continued planning and investigatory work in the Western Lehigh Interceptor (WLI) service area. The project scope includes inflow and infiltration investigation and remediation of sanitary sewer manholes and interceptor main line, in order to extend service life and seal the system from wet weather I/I, with the ultimate objective of demonstrating additional conveyance capacity for the WLI area. The work includes testing and sealing pipe joints, internal lining of damaged sewer main line, flood-proofing manholes, replacing manhole frames and covers, structural manhole repairs, and sealing of manhole interiors. In 2025, the focus shifts to performing a test and seal project downstream of Spring Creek Pump Station (all the way to Park Pump Station).

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			L
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	90	23%
	Social	1	1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	80	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	80	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

Additional Information							
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?				
Project inception Date	8/1/2018	Anticipated Project Completion Date	12/31/2029				

Project No.	SD-S-21	Project Na	ame	WLI MA	JOR REHA	BILITATION	AND REPAIRS	
Primary Prj Category				Secondary Prj Planning Category				
			Proj	ect Drivers and Needs				
	New Facility				End of	Useful Life		
Existing Facility - Upgrade					Obsole	scence		
☐ Scheduled Replacement					✓ Inadeq	uate Capacity		
✓	System Improv	rements			Regula	tory		
Notes								
The remainder of the WLI from Manhole #L255 at Spring Creek Pump Station) to MH#L1 at Kecks Bridge (Meter Station 5) and all of the Little Lehigh Relief Interceptor from MH#A17 (Kecks Bridge) to MH#B1 (Park Pump Station).								
		С	apital Fu	unds Requested for Pr	oject			
LCA Staff		\$10,000			Project Es	stimated	Planning	
Land Acquisition	on	\$0			Level	J.IIIIatou	C	
Contruction/Eq	uipment	\$10,000			Project Fu	unding	LCA	
Professional Se	ervices	\$20,000			Grant Elig	gibility	No	
Contingencies		\$10,000			Future Sp	ending	\$0	
Tota	I	\$50,000						
				* 005 000				
Current Budget				\$225,000				
First Year Budg	get 2025			\$50,000		Planning		
Second Year B	udget 2026			\$0		None		
Third Year Bud	get 2027			\$0		None		
Fourth Year Bu	dget 2028			\$0		None		
Fifth Year Budg	get 2029			\$0		None		
		Total 2025-2029		\$50,000				

Project Name	SPRING CREEK FORCE MAIN CONDITION ASSESSMENT								
Budget Area	Wastewater	Department	epartment Capital Works Project No. SD-S-22						
Location	Suburban	Prj. Type Linear Prj.				76			
Prj Initiator	DePoe		Prj Manager		Kunkel				

Detailed Project Description

A broadband electromagnetic (BEM) test is to be conducted in 2024 at nine locations on the Spring Creek Force Main to determine remaining wall thickness, corrosion, and assess the remaining useful life of the 30-year-old force main. The results of the study have yet to be determined but may indicate the need for pipeline rehabilitation, repair or replacement. Initial engineering design costs are included in this project, but the scope and cost of any construction work is not known and not included at this time.

Category	Category Definition		Prj Score	Weighted Score
	Environmental	1		1
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	1		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	80	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?			
Project inception Date	1/1/2023	Anticipated Project Completion Date	12/23/2025			

Project No.	SD-S-22	Project Na	me	SPRING CRE	EK FORCE	MAIN CONDI	TION ASSESSMENT	
Primary Prj Category	System Impro	ovement		Secondary Prj Category	Asse	t Management	Plan	
	Project Drivers and Needs							
☐ New Facility ☐ End of Useful Life								
✓	Existing Facilit	ty - Upgrade			Obsole	scence		
	Scheduled Re	placement			Inadeq	uate Capacity		
\checkmark	System Impro	vements			✓ Regula	tory		
Notes								
The Spring Creek Pump Station and Force Main is an integral part of the Western Lehigh service area. It is essential to perform necessary rehabilitation of the force main to extend the service life of the infrastructure.								
		Ca	apital Fu	ınds Requested for Pı	roject			
LCA Staff		\$10,000	•	•			Diamaina	
Land Acquisitio	n	\$0			Project Es	stimated	Planning	
Contruction/Equ	uipment	\$0			Project Fu	unding	LCA	
Professional Se	rvices	\$90,000			Grant Elig	gibility	No	
Contingencies		\$0			Future Sp	ending	\$0	
Total		\$100,000						
Current Budget	2024			\$150,000				
First Year Budg	et 2025			\$100,000		Planning		
Second Year Bu	udget 2026			\$0		None		
Third Year Budg	get 2027			\$0		None		
Fourth Year Bud	dget 2028			\$0		None		
Fifth Year Budg	et 2029			\$0		None		
		Total 2025-2029		\$100,000				

Project Name	SPRING CREEK PUMP STATION UPGRADES								
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-23						
Location	Suburban	Suburban Prj. Type Vertical Prj. Score 68					68		
Prj Initiator	Kunkel	Kunkel Prj Manager Kunkel							

Detailed Project Description

The Spring Creek Pump Station and Force Main is a critical component of the Western Lehigh Interceptor system. The upgrade project consists of replacing the variable frequency drives (VFDs), mini power system, installing a new wet well weir gate, installing a new gate in the main interceptor channel, and improvements to the access hatches and dry well ventilation system.

Category Definition		LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	'	I.	•
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	80	4%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	100	10%

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?			
Project inception Date	1/1/2023	Anticipated Project Completion Date	1/7/2025			

-						
Project No.	SD-S-23	Project Na	me SPRII	NG CREEK P	UMP STATIC	ON UPGRADES
Primary Prj Category	System Impro	ovement	Secondary Prj Category	Asse	t Managemen	t Plan
Г			Project Drivers and Nee	do		
	New Facility		Project Drivers and Need		Useful Life	
	Existing Facili	tv - Ungrade		✓ Obsole	scence	
	Scheduled Re			_	uate Capacity	
	System Impro			Regula		
Notes	J System impro	vements		□ Regula	югу	
			fining and maniphain lavel of a			
i ne primar	y drivers are as	set management, en	ficiency and maintain level of s	ervice.		
		0.	witel France Beausehed for t	Dunal and		
1010/ 5		\$15,000	apital Funds Requested for I	Project		
LCA Staff		\$13,000		Project Es	stimated	Construction
Land Acquisit Contruction/E		\$885,000		Project Fu	ındina	LCA
Professional S		\$50,000		Grant Elig	_	No
Contingencies		\$50,000		Future Sp	-	\$0
Tot		\$1,000,000		i ataro op	onanig	4 5
100	ui	\$1,000,000				
Current Budge	et 2024		\$700,000			
First Year Bud	lget 2025		\$1,000,000		Construction	
Second Year I	Budget 2026		\$0		None	
Third Year Bu	dget 2027		\$0		None	
Fourth Year B	udget 2028		\$0		None	
Fifth Year Bud	lget 2029		\$0		None	

\$1,000,000

Total 2025-2029

Project Name	SPRING CREEK FORCE MAIN RELOCATION							
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-24					
Location	Suburban		Prj. Type Linear Prj. Score					
Prj Initiator	Kunkel		Prj Manager Kur					

Detailed Project Description

The Pennsylvania Turnpike Commission's (PTC) Northeast Extension (I-476) Widening Program will impact a section of the Spring Creek Pump Station Force Main that runs along Lower Macungie Rd at the Turnpike bridge crossing. This will require the relocation of 1800 linear feet of 24-inch diameter pipe, including a new bored crossing underneath the Turnpike. The force main relocation will be incorporated in the PTC construction contract for the Project and costs of relocation will be shared by LCA and the PTC.

Category	Category Definition		Prj Score	Weighted Score
	Environmental	1		1
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	1		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	50	8%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	80	8%

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?			
Project inception Date	1/9/2021	Anticipated Project Completion Date	12/31/2025			

Project No.	SD-S-24	Project Na	me SPRIN	IG CREEK FORCE MAIN	RELOCATION
Primary Prj Category	Regulatory		Secondary Prj Category	Planning	
			Project Drivers and Need	ls	
	New Facility		·	☐ End of Useful Life	
✓ Existing Facility - Upgrade					
•	✓ Scheduled Rep	olacement		☐ Inadequate Capacity	
	System Improv	vements		✓ Regulatory	
Notes					
Relocation	Relocation is required to accommodate widening of the Turnpike Northeast Extension (I-476).				
		Ca	apital Funds Requested for P	Project	
LCA Staff		\$20,000		Project Estimated	Design
Land Acquisi	ition	\$0		Level	
Contruction/I	Equipment	\$830,000		Project Funding	LCA
Professional	Services	\$0		Grant Eligibility	Yes
Contingencie	es	\$50,000		Future Spending	\$0
То	tal	\$900,000			
Current Budç	get 2024		\$100,000		
First Year Bu	dget 2025		\$900,000	Construction	
Second Year	Budget 2026		\$0	None	
Third Year Bu	udget 2027		\$0	None	
Fourth Year I	Budget 2028		\$0	None	
Fifth Year Bu	dget 2029		\$0	None	
		Total 2025 2020	000 000		

Project Name	SIGNATORY I & I INVESTIGATION & REMEDIATION PROGRAM					
Budget Area	Wastewater	Department	Ca	pital Works	Project No.	SD-S-25
Location	Suburban	Suburban		Linear	Prj. Score	81
Prj Initiator	DePoe		Prj Manager DeP		DePoe	

Detailed Project Description

LCA provides the leadership, technical expertise and administration for coordinating the projects located within the Signatory sewer systems. The project included two major components: (1) Investigatory/planning work such as flow monitoring, the SCARP development, SSES, Level of Service Determination, Alternatives Analysis, etc., that are necessary to develop the best course of action to reduce I&I within the system(s). Much of this work has been completed. Part (2) - Design, permitting and the construction for rehabilitation of infrastructure that will be necessary to comply with recent PA DEP Act 537 directives. Annual engineering assistance for the Western Lehigh Sewer group is also included within this project.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	1		l
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social			
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	75	11%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	90	9%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	90	9%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

Additional Information					
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?		
Project inception Date	7/1/2009	Anticipated Project Completion Date	12/31/2035		

Project No.	SD-S-25	Project Nam	e SIGNATORY I &	I INVESTIGA	TION & REM	EDIATION PROGRAM
Primary Prj Category	Regulatory		Secondary Prj Category	Plannir	ng	
			Project Drivers and Need			
	✓ New Facility		Troject brivers and need	End of U	seful Life	
	Existing Facility	ty - Upgrade		Obsoleso	cence	
	☐ Scheduled Re	placement		✓ Inadequa	ite Capacity	
	System Impro			✓ Regulato		
Notes	_				.,	
	roiect drivers are	regulatory and system	n capacity.			
	9,000 4	regulately alla eyetell	. capacity:			
		Сар	ital Funds Requested for P	roject		
LCA Staff		\$30,000		Project Esti	imatod	Planning
Land Acquisi	tion	\$0		Level	imateu	. Idiniing
Contruction/E	Equipment	\$700,000		Project Fun	ding	LCA
Professional	Services	\$200,000		Grant Eligik	oility	TBD
Contingencie	s	\$70,000		Future Sper	nding	\$0
То	tal	\$1,000,000				
			<u> </u>			
Current Budg	et 2024		\$1,000,000			
First Year Bu	dget 2025		\$500,000	С	construction	
Second Year	Budget 2026		\$200,000	С	construction	
Third Year Bu	idget 2027		\$100,000	C	Construction	
Fourth Year E	Budget 2028		\$100,000	С	onstruction	
Fifth Year Bu	dget 2029		\$100,000	C	onstruction	
		Total 2025-2029	\$1,000,000			

Project Name	UPPER WESTERN LEHIGH INTERCEPTOR PUMP STATION & FORCE MAIN						
Budget Area	Wastewater	Department	Capital Works		Project No.	SD-S-26	
Location	Suburban	Suburban			Both	Prj. Score	89
Prj Initiator	DePoe		Prj Manager	r		Kunkel	

Detailed Project Description

As identified in the Interim Act 537 plan approved by DEP in June 2021, conveyance capacity in the Trexlertown area of the Western Lehigh Interceptor was assigned a high priority due to sanitary surcharging and overflows in the vicinity. This alternative, recommended by Upper Macungie Township (UMT), is to pump 2.5 million gallons per day of effluent flow from LCA's Industrial Pretreatment Plant to a location downstream in the UMT sewer interceptor (near the township park along Grange Rd), which has capacity to handle the additional flows. This would result in a dry weather bypass of 2.5 mgd around the Trexlertown area (the hydraulic "bottleneck"). The pump station and force main were designed and permitted in 2022/2023. Construction began in 2024 and will be completed in 2025.

Category Definition		LCA Weight	Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	'	J.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	90	23%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	100	10%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	90	9%

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER	Will this project require Land Rights?				
Project inception Date	1/1/2021	Anticipated Project				

Completion Date

Project No.	SD-S-26	Project Nan	ne UPPER WESTERN LE	HIGH INTE	RCEPTOR P	PUMP STATION & FORCE MAIN
Primary Prj Category	Regulatory		Secondary Prj Category	Syst	em Improven	nent
			Project Drivers and Need	le .		
	New Facility		Project Drivers and Need	_	Useful Life	
	☐ Existing Facilit	tv - Upgrade		Obsole	escence	
	Scheduled Re				uate Capacit	hv
	_	•			•	·y
Notes	System Impro	vements		✓ Regula	аюгу	
			is required to alleviate the curre t is intended to address dry-da			
		Ca	pital Funds Requested for P	roject		
LCA Staff		\$20,000		Project E	stimated	Construction
Land Acquisi	tion	\$0		Level		
Contruction/E	Equipment	\$1,100,000		Project F	unding	Suburban Grant
Professional	Services	\$80,000		Grant Eli	gibility	Yes
Contingencie	s	\$100,000		Future S _l	ending	\$0
То	tal	\$1,300,000				
			40			
Current Budg	jet 2024		\$3,500,000			
First Year Bu	dget 2025		\$1,300,000		Construction	n
Second Year	Budget 2026		\$0		None	
Third Year Bu	ıdget 2027		\$0		None	
Fourth Year E	Budget 2028		\$0		None	
Fifth Year Bu	dget 2029		\$0		None	
		Total 2025-2029	\$1,300,000			

Project Name	WESTERN LEHIGH INTECEPTOR PARALLEL ALIGNMENT (Special Act 537 Study)					
Budget Area	Wastewater	Department	Capital Works		Project No.	SD-S-27
Location	Suburban	Suburban		Linear	Prj. Score	83
Prj Initiator	DePoe		Prj Manager		DePoe	

Detailed Project Description

During the ongoing Regional Act 537 discussions with DEP and the KISS representatives, it was determined that a Special Act 537 Study is the most appropriate regulatory vehicle to finalize the alignment of the proposed Western Lehigh Interceptor parallel. This will be included in the Implementation Schedule of the Regional Act 537 Plan.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	<u> </u>		
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	90	23%
	Social	'	1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	90	23%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	90	14%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	20	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	90	9%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	95	10%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

	Additional Informatio	n	
System Location	WLC – WESTERN LEHIGH SEWER	Will this project require Land Rights?	✓

Project inception Date 8/1/2024 Anticipated Project 6/1/2029
Completion Date

Project No.	SD-S-27	Project Name	WESTERN LEHIGH	INTECEPTOR PARALL 537 Study)	EL ALIGNMENT (Special Act
Primary Prj Category	Regulatory		Secondary Prj Category	System Improven	nent
			Project Drivers and Need		
<u>✓</u> N	lew Facility		Froject Drivers and Need	End of Useful Life	
	Existing Facility - Up	ograde		Obsolescence	
	scheduled Replace			✓ Inadequate Capacit	V.
				_	у
	system Improvement	nts		✓ Regulatory	
Notes					
Land acquistion	on will be initiated เ	ıpon alignment fir	nalization and regulatory appr	oval.	
		Capi	tal Funds Requested for P	roject	
LCA Staff		\$50,000		Project Estimated	Planning
Land Acquisition	1	\$0		Level	
Contruction/Equi	ipment	\$0		Project Funding	LCA
Professional Ser	vices	\$1,500,000		Grant Eligibility	TBD
Contingencies		\$100,000		Future Spending	\$69,700,000
Total		\$1,650,000			
Current Budget 2	2024		\$0		
First Year Budge	t 2025		\$0	None	
Second Year Bud	dget 2026		\$0	None	
Third Year Budge	et 2027		\$750,000	Design	
Fourth Year Budg	get 2028		\$750,000	Constructio	n
Fifth Year Budge	t 2029		\$150,000	Constructio	n
L		al 2025-2029	\$1 650 000		

Project Name	WYNNEWOOD I & I INVESTIGATION & REMEDIATION PROGRAM						
Budget Area	Wastewater	Department	Capital Works Project No. SE			SD-S-30	
Location	Suburban		Prj. Type	Linear	Prj. Score	56	
Prj Initiator	Volk		Prj Manager	er Dorner			

Detailed Project Description

The objective of this project is to mitigate wet weather inflow and infiltration (I/I) into the collection system. Pipe deficiencies identified in LCA's CCTV investigation data are to be repaired under this project, which includes in-line repairs (grouting, lining) and dig-up repairs. An internal main lining project will be completed in 2024, to be followed by annual lining projects to seal leaks due to sewer main pipe deficiencies.

Category	Category Definition		Prj Score	Weighted Score
	Environmental	ı		1
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	75	19%
	Social	1		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	25	3%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

Additional Information					
System Location	WWC – WYNNEWOOD SEWER		his project require Rights?		
Project inception Date	1/2/2020	Anticipated Project Completion Date	12/31/2029		

Project No.	SD-S-30	Project Name	WYNNEWOOD I	& I INVESTIGATION & F	REMEDIATION PROGRAM
Primary Prj Category	Regulatory		Secondary Prj Category	Asset Managemer	nt Plan
	N = 39		Project Drivers and Need		
	New Facility			☐ End of Useful Life	
	Existing Facility	- Upgrade		Obsolescence	
	Scheduled Repl	acement		☐ Inadequate Capacity	1
\checkmark	System Improve	ements		✓ Regulatory	
Notes					
The primary	/ driver is regulat	ory, to avoid hydrauli	c overloads at the WWTP an	d maintain DEP discharge	permit compliance.
		0		No. 1	
			ital Funds Requested for F	roject 	
LCA Staff		\$50,000		Project Estimated	Design
Land Acquisition		\$0		Level	1.00
Contruction/Ed		\$250,000		Project Funding	LCA
Professional S	ervices	\$25,000		Grant Eligibility	TBD
Contingencies		\$50,000		Future Spending	\$0
Tota	ıl	\$375,000			
Current Budge	t 2024		\$125,000		
First Year Bud	get 2025		\$150,000	Construction	
Second Year B	udget 2026		\$150,000	Construction	
Third Year Bud	lget 2027		\$25,000	Planning	
Fourth Year Bu	ıdget 2028		\$25,000	Construction	
Fifth Year Budg	get 2029		\$25,000	Construction	
		Total 2025 2020	\$375,000		

Project Name	WYNNEWOOD WASTEWATER TREATMENT PLANT EXPANSION						
Budget Area	Wastewater	Department	Capital Works Project N			Project No.	SD-S-31
Location	Suburban		Prj. Type		Vertical	Prj. Score	48
Prj Initiator	DePoe		Prj Manager	Manager Volk		Volk	

Detailed Project Description

The Wynnewood Wastewater Treatment Plant (WWTP), located in North Whitehall Township, was acquired by LCA in 2003 and completely replaced in 2020 with a new 60,000 gallon per day SBR plant. In 2023, representatives of a proposed development in the vicinity of the WWTP (Rising Sun Rd) requested connecting to the plant. LCA then commissioned a feasibility study be performed by an engineering firm to determine the reserve capacity at the WWTP, quantify the WWTP capacity expansion that would be needed, and evaluate facility upgrade alternatives to accommodate the development. The study determined that the existing facility has limited reserve capacity and must be expanded to accommodate the build-out of the proposed development. This project includes design, permitting, and construction of the capacity expansion of the existing WWTP, along with dedicated conveyance facilities to include a proposed pump station and force main. All costs (including design and construction) associated with this project are to be reimbursed by the developer.

Category	egory Definition		Prj Score	Weighted Score
	Environmental	<u> </u>		
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social	1	I.	<u>'</u>
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	0	0%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	100	10%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	75	8%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	25	3%

Additional Information					
System Location	WWC – WYNNEWOOD SEWER		his project require Rights?		
Project inception Date	1/2/2023	Anticipated Project Completion Date	6/30/2027		

Project No.	SD-S-31	Project Name	WYNNEWOOD WAST	EWATER TREATME	NT PLANT EXPANSION	
Primary Prj Category	New Customer		Secondary Prj Category	Planning		
Г	□ N F996.	Pr	oject Drivers and Needs			
	New Facility			End of Useful Life		
<u>\</u>	Existing Facility	- Upgrade		Obsolescence		
	Scheduled Repl	acement	\checkmark	nadequate Capacity		
	System Improve	ments		Regulatory		
Notes						
	This project is being by community growht, and is being implemented exclusively for the proposed development (Rising Sun Rd) and will be funded 100% by the developer.					
			Funds Requested for Projec	t		
LCA Staff		\$50,000		ject Estimated	Planning	
Land Acquisit	tion	\$0	Lev	rel		
Contruction/E	Equipment	\$2,000,000	Pro	ject Funding	LCA	
Professional	Services	\$150,000	Gra	nt Eligibility	Yes	
Contingencie	s	\$100,000	Fut	ure Spending	\$0	
To	tal	\$2,300,000				
Current Budg	et 2024		\$0			
First Year Bud	dget 2025		\$50,000	Design		
Second Year	Budget 2026		\$500,000	Construction		
Third Year Bu	ıdget 2027		\$1,750,000	Construction		
Fourth Year B	Budget 2028		\$0	None		
Fifth Year Bud	dget 2029		\$0	None		
		Total 2025 2020	\$2 300 000			

Project Name	ARCADIA WEST WWTP MECHANICAL SCREEN					
Budget Area	Wastewater	Department	Capital Works Project No. SD-S-32			SD-S-32
Location	Suburban	Suburban		Vertical	Prj. Score	61
Prj Initiator	Lynn		Prj Manager		Dorner	

Detailed Project Description

This project consists of the installation of two automatic mechanical screening units at the head end of each SBR tank at the Arcadia West Wastewater Treatment Plant. Also included is the construction of above-grade platforms and enclosures to support the screening systems and protect against the weather, along with associated piping electrical, and controls for the new screening systems.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	1		L
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	50	13%
	Social			
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	25	3%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	25	3%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information						
System Location	AWC – ARCADIA WEST	Will this project require Land Rights?				
Project inception Date	3/27/2024	Anticipated Project 3/1/2025 Completion Date				

Project No.	SD-S-32	Project Name	ARCADI	IA WEST WWTP MECHA	NICAL SCREEN
Primary Prj S Category	System Improveme	ent	Secondary Prj Category	Efficiency	
	ew Facility		Project Drivers and Need	End of Useful Life	
_	-				
	xisting Facility - Up			Obsolescence	
□ s	cheduled Replacer	ment		Inadequate Capacity	
✓ S	ystem Improvemer	nts		Regulatory	
Notes					
Project drivers	include system im	provements, safe	ty, and efficiency.		
		Capit	al Funds Requested for P	roject	
LCA Staff		\$10,000		Project Estimated	Design
Land Acquisition		\$0		Level	Doolgii
Contruction/Equi	pment	\$500,000		Project Funding	LCA
Professional Serv	vices	\$60,000		Grant Eligibility	No
Contingencies		\$50,000		Future Spending	\$0
Total		\$620,000			
Current Budget 2	024		\$75,000		
First Year Budge	t 2025		\$220,000	Construction	
Second Year Bud	lget 2026		\$400,000	Construction	
Third Year Budge	et 2027		\$0	None	
Fourth Year Budg	get 2028		\$0	None	
Fifth Year Budge	t 2029		\$0	None	
		al 2025-2029	\$620,000		

Project Name	NORTH WHITEHALL TOWNSHIP ACT 537 PLAN					
Budget Area	Wastewater	Department	t Capital Works Project No. SD-S-33			
Location	Suburban	Suburban		Both	Prj. Score	79
Prj Initiator	DePoe		Prj Manager	Prj Manager		

Detailed Project Description

This project involves the development of an Act 537 Sewage Facilities Plan for North Whitehall Township and is a coordinated effort between the township and LCA. The project will incorporate regional sewer facilities planning concepts to evaluate the feasibility of consolidation of small wastewater treatment plants that currently serve separate small sewer districts/developments.

Category	Category Definition		Prj Score	Weighted Score
	Environmental			L
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	'	l.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	80	20%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	60	9%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	80	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	90	9%
Risk Mitigation Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.		10%	50	5%

Additional Information						
System Location	UNC – OTHER WATER OR SEWER	Will this project require Land Rights?	✓			

Project inception Date 7/1/2023 Anticipated Project 7/1/2026 Completion Date

Project No.	SD-S-33	Project Na	me NORTH	WHITEHALL TOWNSH	P ACT 537 PLAN
Primary Prj Category	Regulatory		Secondary Prj Category	Planning	
			Project Drivers and Need	Ne	
[•	✓ New Facility		1 Toject Drivers and Need	☐ End of Useful Life	
_	✓ Existing Facilit	tv - Upgrade		Obsolescence	
	☐ Scheduled Re			✓ Inadequate Capacit	V
	✓ System Impro			✓ Regulatory	,
Notes	S Cystem impro	vernents		regulatory	
Notes					
		Ca	pital Funds Requested for F	Project	
LCA Staff		\$10,000	,predict direction for t		
Land Acquis	ition	\$0		Project Estimated Level	Planning
Contruction/		\$0		Project Funding	LCA
Professional	Services	\$70,000		Grant Eligibility	No
Contingencie	es	\$10,000		Future Spending	\$0
To	otal	\$90,000			
Current Budg	get 2024		\$70,000		
First Year Bu	dget 2025		\$70,000	Planning	
Second Year	Budget 2026		\$20,000	Planning	
Third Year B	udget 2027		\$0	None	
Fourth Year I	Budget 2028		\$0	None	
Fifth Year Bu	dget 2029		\$0	None	
		Total 2025-2029	\$90,000		

Project Name	Name HEIDELBERG HEIGHTS I & I INVESTIGATION & REMEDIATION PROGRAM						
Budget Area	Wastewater	Department	artment Capital Works Project No. SD-S-3				
Location	Suburban	Suburban		Linear	Prj. Score	65	
Prj Initiator	Volk		Prj Manager	Prj Manager			

Detailed Project Description

This project is driven by a DEP Consent Order and Agreement (CO&A) resulting from hydraulic overloads at the Heidelberg Heights WWTP. The CO&A was executed by DEP and LCA in 2020, which memorializes corrective actions and mandates an implementation schedule for LCA to eliminate wet weather overloads at the WWTP by reducing inflow and infiltration into the collection system. Commencing in 2017, all public sewer main and laterals have been replaced in the system and all manholes have been sealed to date. Therefore, leakage within the private side of the sewer system is the focus of this project moving forward.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental	1		l
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social			
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	0	0%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information					
System Location	HHC – HEIDELBERG HTS	Will this project require Land Rights?			
Project inception Date	1/2/2017	Anticipated Project 12/31/2029 Completion Date			

Project No.	SD-S-34	Project Name	HEIDELBERG		R I INVESTIGATI PROGRAM	ION & REMEDIATION
Primary Prj Category	Regulatory		Secondary P Category	rj Sys	tem Improvement	
			Project Drivers and Nec			
	New Facility			☐ End o	f Useful Life	
□ [Existing Facility - Up	ograde		Obsol	escence	
	Scheduled Replace	ment		✓ Inade	quate Capacity	
✓ 5	System Improvement	nts		Regul	atory	
Notes						
			(CCTV and residential plur		ons), enforcemen	t (disconnect
prohibited co	nnections), private l	ateral lining/grou	t, and private lateral replace	ement.		
		Сарі	tal Funds Requested for	Project		
LCA Staff		\$50,000		Droinet F	Entimento d	Planning
Land Acquisition	n	\$0		Level	Estimated	riaming
Contruction/Equ	ipment	\$350,000		Project F	unding	LCA
Professional Ser	rvices	\$100,000		Grant Eli	gibility	Yes
Contingencies		\$25,000		Future S	pending	\$0
Total		\$525,000				
Current Budget	2024		\$350,000			
First Year Budge	et 2025		\$300,000		Construction	
Second Year Budget 2026			\$100,000		Construction	
Third Year Budg	et 2027		\$50,000		Planning	
Fourth Year Bud	lget 2028		\$50,000		Planning	
Fifth Year Budge	et 2029		\$25,000		Planning	
	Tota	al 2025-2029	\$525,000			

Project Name	HEIDELBERG HEIGHTS WWTP REHABILITATION					
Budget Area	Wastewater	Department	Department Capital Works Project No. SD-S-38			
Location	Suburban		Prj. Type	Vertical	Prj. Score	68
Prj Initiator	Volk		Prj Manager	Prj Manager		

Detailed Project Description

This is a multi-year project to address asset management, safety, security and regulatory driven upgrades at the Heidelberg Heights Wastewater Treatment Plant (WWTP). The WWTP was acquired by LCA in 1998, and a major upgrade was completed in 2000. Since that time LCA has performed other upgrade work, including recoating the steel SBR tanks, rehabilitating the EQ/Sludge Holding Tank, and adding a mechanical screen at the headworks. Future projects include installation of a catwalk over the open SBR tanks, replacement of blowers, and instrumentation improvements.

Category	Category Definition		Prj Score	Weighted Score
	Environmental			
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	75	19%
	Social	'	l.	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	25	3%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	50	5%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

Additional Information					
System Location	HHC – HEIDELBERG HTS	Will this project require Land Rights?			
Project inception Date	1/2/2016	Anticipated Project 12/31/2029 Completion Date			

Project No.	SD-S-35	Project Name	HEIDELB	ERG HEIGHTS WWTP R	EHABILITATION
Primary Prj A Category	Asset Managemer	at Plan	Secondary Prj Category	Efficiency	
		Dr	oject Drivers and Needs		
	ew Facility		oject brivers and Needs	End of Useful Life	
	xisting Facility - U	parade		Obsolescence	
	cheduled Replace			☐ Inadequate Capacity	
	ystem Improveme			Regulatory	
Notes V	yatani inipiovellie	iilo		regulatory	
	at drivere ere eee	t managament offici	ency, safety and security.		
Filliary project	a univers are asse	i management, emci	ency, salety and security.		
		Oomitol	Funds Requested for Pi	i	
LCA Staff		\$5,000	runds Requested for Pi	roject	
		\$0		Project Estimated Level	Planning
Land Acquisition Contruction/Equi		\$150,000		Project Funding	LCA
Professional Serv		\$25,000		Grant Eligibility	No
Contingencies		\$20,000		Future Spending	\$0
Total		\$200,000		r ataro oponanig	40
Total		\$200,000			
Current Budget 2	024		\$160,000		
First Year Budget 2025			\$25,000	Design	
Second Year Budget 2026			\$50,000	Construction	
Third Year Budge			\$75,000	Construction	
Fourth Year Budg			\$25,000	Construction	
Fifth Year Budget			\$25,000	Construction	
car Baagor		al 2025-2029	\$200,000		

Project Name	SAND SPRING WWTP IMPROVEMENTS									
Budget Area	Wastewater	Department	Ca	pital Works	Project No.	SD-S-36				
Location	Suburban	Suburban		Vertical	Prj. Score	73				
Prj Initiator	Capuzzi		Prj Manager		Volk					

Detailed Project Description

The Sand Spring WWTP was acquired by LCA in 2005 and replaced in 2021. The new plant, which was put online around the same time as the connection of a new warehouse development to the system, has experienced DEP compliance issues related to nitrification performance. This project entails process intensification upgrades to improve plant performance and restore DEP discharge permit compliance. Construction of the Phase 1 process upgrade project commenced in 2024 and will finish in 2025. Phase 2 is TBD depending on the post-construction performance of the Phase 1 project.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			I.
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	'		
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	0	0%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	50	5%

Additional Information								
System Location	SSC – SAND SPRING	Will this project require Land Rights?						
Project inception Date	6/1/2022	Anticipated Project 12/31/2025 Completion Date						

Project No.	SD-S-36	Project Nan	ne SA	AND SPRING \	WWTP IMPRO	OVEMENTS
Primary Prj Category	Regulatory		Secondary Pr Category	j Syste	m Improveme	nt
			Project Drivers and Nee			
	New Facility			☐ End of l	Jseful Life	
•	Existing Facili	ty - Upgrade		Obsoles	scence	
	Scheduled Re	placement		Inadequ	ate Capacity	
V	System Impro	vements		✓ Regulat	ory	
Notes						
This projections consultant		e short-term recomme	endations of a Process Perfo	rmance Evalua	tion performed	I by an engineer
						J
			pital Funds Requested for	Project		
LCA Staff		\$20,000		Project Es	timated	Construction
Land Acquisit	tion	\$0		Level		
Contruction/E	quipment	\$100,000		Project Fu	_	LCA
Professional S	Services	\$60,000		Grant Elig	ibility	No
Contingencie	S	\$20,000		Future Spe	ending	\$0
Tot	tal	\$200,000				
Current Budg	et 2024		\$100,000			
First Year Budget 2025			\$100,000		Construction	
Second Year	Budget 2026		\$50,000		Planning	
Third Year Bu	dget 2027		\$30,000		Planning	
Fourth Year B	Sudget 2028		\$10,000		Planning	
Fifth Year Bud	dget 2029		\$10,000		Planning	
		Total 2025 2020	\$200,000			

Project Name	LYNN TOWNSHIP WWTP IMPROVEMENTS									
Budget Area	Wastewater	Department	Ca	SD-S-37						
Location	Suburban	Suburban F		Vertical	Prj. Score	59				
Prj Initiator	Volk			,	Dorner					

Detailed Project Description

This project consists of facility upgrades at the Lynn Township wastewater treatment plant. The WWTP, which is around 50 years old, was acquired by LCA in 2012. The facility relies on a single final clarifier, which has been in service 24/7 for over 20 years and is in need of cleaning and rehabilitation. In 2023, design commenced on a project to add a second final clarifier, which will provide needed redundancy and improve plant performance, particularly during peak flow periods. Design and permitting were completed in early 2024 and construction will be completed in 2025. Future projects will be driven by an updated asset management plan for the facility.

Category	Definition	LCA Weight	Prj Score	Weighted Score							
Environmental											
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	75	19%							
	Social										
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	50	13%							
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%							
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	50	3%							
Community Impact	Project will benefit Community and/or external stakeholders.	10%	25	3%							
	Economic										
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	0	0%							
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%							

Additional Information									
System Location	LTC – LYNN TWP SEWER	Will this project require Land Rights?							
Project inception Date	6/1/2022	Anticipated Project 10/3/2025 Completion Date							

Project No.	SD-S-37	Project Na	ame	LYNN	TOWNSHI	P WWTP IMPR	ROVEMENTS	
Primary Prj Category	System Improv	vement		Secondary Prj Category	Effici	ency		
			Droi	ect Drivers and Needs				
	New Facility		Fioj	ect Drivers and Needs		Useful Life		
✓ Existing Facility - Upgrade					Obsole	scence		
	Scheduled Repl					uate Capacity		
	System Improve				Regula			
Notes	System improve	anonto			regula	Югу		
	project drivers a ased on current		ment, red	undancy, and regulatory	compliance	. The existing	clarifier is also	
		С	apital Fu	unds Requested for Pr	oject			
LCA Staff		\$20,000			Project Es	stimated	Construction	
Land Acquisition	n	\$0			Level			
Contruction/Equ	iipment	\$930,000			Project Funding LCA			
Professional Se	rvices	\$50,000			Grant Elig		No	
Contingencies	_	\$100,000		7	Future Sp	ending	\$0	
Total		\$1,100,000)					
Current Budget	2024			\$500,000				
First Year Budget				\$900,000		Construction		
				\$150,000		Construction		
Second Year Bu				\$50,000		Construction		
	•			\$0,000 \$0		None		
Fourth Year Budge				\$0		None		
Filli Tear Budge	51 202 3	Total 2025-2029		\$1,100,000				

Project Name	LYNN TOWNSHIP I & I INVESTIGATION & REMEDIATION PROGRAM									
Budget Area	Wastewater	Department	Capital Works			Project No.	SD-S-38			
Location	Suburban	Suburban			Linear	Prj. Score	79			
Prj Initiator	Volk		Prj Manager		Volk					

Detailed Project Description

This project is the result of a DEP mandated Corrective Action Plan (CAP) to reduce inflow and infiltration (I/I) into the Lynn Township sewage system to prevent system overflows/bypasses and eliminate treatment plant discharge permit violations. The project includes updated CCTV inspection of the sewer system, repairs at leak locations, and private side system investigation and enforcement/removal of prohibited connections.

Category	Definition	LCA Weight	Prj Score	Weighted Score
	Environmental			1
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%
	Social	'	1	
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	25%	75	19%
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	0	0%
Community Impact	Project will benefit Community and/or external stakeholders.	10%	75	8%
	Economic			
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	50	5%
Risk Mitigation	Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.	10%	75	8%

Additional Information									
System Location	LTC – LYNN TWP SEWER	Will this project require Land Rights?							
Project inception Date	1/2/2018	Anticipated Project 12/31/2029 Completion Date							

	1							
Project No.	SD-S-38	Project Na	ame	LYNN TOWNSHIP I	& I INVES	TIGATION & RI	EMEDIATION PROG	RAM
Primary Prj Category	Regulatory			Secondary Prj Category	Syste	em Improvement	t	
			D !	A Duties and Manda				
	New Facility		Proje	ect Drivers and Needs		Useful Life		
	Existing Facilit	u. Ungrada						
					_	scence		
	Scheduled Rep				`	uate Capacity		
~	System Improv	vements			✓ Regula	tory		
Notes								
		ts from the DEP CA f the wastewater tre		peen on-going since 201	9, with the g	goal of eliminatin	g I/I and restoring	
sewer anoda		The wastewater tre	- Cathon P	iant.				
		Ca	apital Fu	inds Requested for Pr	oject			
LCA Staff		\$25,000			Project Es	stimated	Planning	
Land Acquisition	on	\$0			Level		Ü	
Contruction/Eq	uipment	\$100,000			Project Fu	unding	LCA	
Professional Se	ervices	\$50,000			Grant Elig	gibility	TBD	
Contingencies		\$25,000			Future Sp	ending	\$0	
Total	I	\$200,000						
Current Budget	2024			\$50,000				
First Year Budg	et 2025			\$25,000		Planning		
Second Year Bu	udget 2026			\$100,000		Construction		
Third Year Budg	get 2027			\$25,000		Planning		
Fourth Year Bu	dget 2028			\$25,000		Planning		
Fifth Year Budg	et 2029			\$25,000		Planning		
		Total 2025-2029		\$200,000				

Project Name	PARK PUMP STATION UPGRADE - PHASE 2						
Budget Area	Wastewater	Department	Capital Works			Project No.	SD-S-40
Location	Suburban		Prj. Type		Vertical	Prj. Score	74
Prj Initiator	Volk		Prj Manage	r	Kunkel		

Detailed Project Description

Phase 1 improvements to the pump station included replacement of the existing pumps, suction and discharge side valves, pump speed controllers, motor control center (MCC) panel, SCADA system, wet well level instrumentation, building roof and force main drain valve. Construction of Phase 1 was completed in early 2020. Phase 2 of the station upgrade consists of replacement of the original backup diesel generator, which is nearing the end of its service life and is slightly undersized for the upgraded station. The replacement unit will be natural gas powered, which will eliminate the need for diesel fuel storage in the environmentally sensitive area of the Little Lehigh Parkway. Construction will occur in 2024/2025.

Category	Definition	LCA Weight	Prj Score	Weighted Score	
	Environmental	1		L	
Regulatory Requirement	Project will address a local, state and/or federal regulatory requirement.	25%	100	25%	
	Social				
Health/Safety Improvement	Project provides a human health and/or safety enhancement that may or may not be a regulatory requirement.	ory 25%		18%	
Level of Service	Project will increase level or quality of service to the community, including addressing increased customer expectations for service, improved response time, reliability, quality, taste, etc.	15%	100	15%	
Innovation and Automation Enhancements	Project will enhance achievement of LCA's goals for innovation and/or automation.	5%	25	1%	
Community Impact	Project will benefit Community and/or external stakeholders.	10%	50	5%	
	Economic				
Economic Development	Project is required to meet projected future capacity needs to address economic growth in the service area or provides other economic development benefit to the region.	10%	0	0%	
Risk Mitigation Project addresses asset risk by mitigating likelihood of failure, consequence of failure, and/or resillency.		10%	100	10%	

Additional Information						
System Location	WLC – WESTERN LEHIGH SEWER		his project require Rights?			
Project inception Date	1/1/2021	Anticipated Project Completion Date	3/1/2025			

Project No.	SD-S-40	Project Nar	ne PARK	PARK PUMP STATION UPGRADE - PHASE 2			
Primary Prj Category	System Impr	ovement	Secondary Prj Category	Regu	ılatory		
			Project Drivers and Need	lo.			
	New Facility		Froject Drivers and Need	✓ End of	Useful Life		
Scheduled Replacement			✓ Obsolescence✓ Inadequate Capacity				
	System Impro	vements		Regula	tory		
Notes							
	nt generator is at bower outage.	the end of its useful	life. The new generator will insu	ure station op	eration reliabili	ty in the event of an	
		Ca	pital Funds Requested for P	Project			
LCA Staff		\$0		Project Es	stimated	Construction	
Land Acquisition		\$0		Level			
Contruction/E	quipment	\$785,000		Project Funding		LCA	
Professional Services		\$15,000		Grant Eligibility		No	
Contingencies		\$0		Future Spending \$0		\$0	
Total		\$800,000					
Current Budget 2024		\$2,300,000	\$2,300,000				
First Year Budget 2025		\$800,000	\$800,000				
Second Year Budget 2026		\$0	\$0				
Third Year Budget 2027		\$0	\$0				
Fourth Year Budget 2028		\$0	\$0		None		
Fifth Year Budget 2029		\$0	\$0				
		Total 2025-2029	\$800,000				