

Lehigh County Authority 2018-2022 Capital Plan

Final Plan: Board Presentation – October 23, 2017

Capital Plan Components

- ADMINISTRATION – unchanged since Preliminary Plan
- SUBURBAN DIVISION WATER AND WASTEWATER – one change since Preliminary Plan
- ALLENTOWN DIVISION WATER AND WASTEWATER – several changes to annual projects and other projects since Preliminary Plan

Capital Plan Timeline

- Preliminary Plan Distribution and public comment posting – 8/9/17
- Second Draft Distribution (AD reductions) – 8/25/17
- End of preliminary plan public comment period – 9/11/17
- Third Draft Distribution (with financials) – 9/25/17
- Final Draft Distribution (additional AD reductions + one SD reduction) – 10/23/17

Administration – 2018 Projects

CP#	Project	2018 \$	2018-2022 \$
SD-A-1	SCADA Programming, Hardware & Software Upgrades	\$150,000	\$853,800
CON-A-1*	Computer System Hardware & Software Upgrades	\$100,000	\$325,000
CON-A-2*	Geographic Information System Upgrades & Application Dev.	\$220,000	\$720,000
CON-A-3*	Information Technology Master Plan Update	\$75,000	\$250,000
CON-A-4*	Document Management	\$50,000	\$480,000
TOTAL		\$595,000	\$2,628,000

**= Projects split 1/3 to Suburban and 2/3 to City Division*

Suburban Division Water – 2018 Projects

CP#	Project	2018 \$	2018-2022 \$
SD-W-A	Annual Projects	\$1,878,750	\$7,805,750
SD-W-4	Buss Acres Pump Station Improvements (UCMD)	\$500,000	\$1,370,000
SD-W-7	Well Abandonments	\$40,000	\$90,000
SD-W-12	Water Main Replacement Projects	\$2,100,000	\$10,500,000
SD-W-13	Arcadia West TDS Removal Project	\$80,000	\$280,000
SD-W25	Pine Lakes Pumping Station Improvements	\$215,000	\$215,000
SD-W-37	Redundant Water Supply – Small Satellite Divisions	\$200,000	\$300,000
SD-W-48	Crestwood New Alternate Water Supply	\$215,000	\$215,000
SD-W-49	CLD Auxiliary Pumping Station & Main Extension	\$1,464,000	\$1,782,000
SD-W-53	Water Meter Replacement Project	\$1,140,000	\$1,140,000
SD-W-54	Central Lehigh to Upper Milford Interconnection	\$1,320,000	\$1,320,000
TOTAL		\$9,117,750	\$24,982,750

Suburban Division Wastewater – 2018 Projects

CP#	Project	2018 \$	2018-2022 \$
SD-S-A	Annual Projects	\$865,750	\$2,146,750
SD-S-2	Interceptor Access Easement Acquisitions	\$60,000	\$330,000
SD-S-3	Central Lehigh WW Capacity Planning & Expansion	\$315,000	\$615,000
SD-S-4	Spring Creek Force Main Air Release Valve Replacements	\$170,000	\$170,000
SD-S-6	Wynnewood I / I Investigation & Remediation	\$20,000	\$230,000
SD-S-7	Wynnewood WWTP Replacement	\$1,000,000	\$1,400,000
SD-S-8	Western Weisenberg Mechanical Screen	\$0	\$340,000
SD-S-12	Park Pump Station Force Main Rehabilitation	\$1,500,000	\$2,500,000
SD-S-13	Sand Spring WWTP Replacement	\$800,000	\$600,000
SD-S-15	Park Pump Station Rehabilitation	\$3,000,000	\$4,460,000
SD-S-16	Park Pump Station – Sister Station	\$0	\$180,000

Suburban Division Wastewater – 2018 Projects (continued)

CP#	Project	2018 \$	2018-2022-\$
SD-S-17	Heidelberg Heights I / I Investigation & Remediation	\$200,000	\$365,000
SD-S-18	Heidelberg Heights WWTP Rehabilitation	\$30,000	\$430,000
SD-S-19	Heidelberg Heights WWTP Mechanical Screen	\$0	\$340,000
SD-S-22	Pretreatment Plant Improvements	\$800,000	\$4,000,000
SD-S-24	Signatory I / I Investigation & Remediation	\$1,585,000	\$3,755,000
SD-S-25	Lynn Township WWTP Upgrades & Expansion	\$606,000	\$4,468,000
SD-S-26	Lynn Township I / I Investigation & Remediation	\$125,000	\$290,000
SD-S-27	Spring Creek Pump Station Upgrades	\$222,000	\$222,000
SD-S-28	WLI Trexlertown Area Interceptor	\$300,000	\$12,300,000
TOTAL		\$11,598,750	\$39,961,750

City Division – Changes to the Capital Plan (8/9/17 vs. 10/23/17)

- Annual project funding system maintenance and repairs have been reduced from \$6,879,900 to \$2,920,000 in 2018 and from \$24,755,000 to \$13,749,000 for the full scope of the 5-year plan.
- Indenture Report Improvements Project is no longer funded
- Roof Phase 2 and 3 is no longer funded
- Water System Studies now has \$40K allocated in in 2018 (additional alternatives analysis will be conducted for proposed filter project)
- Water Main Replacements has decreased from \$4.8M/year to \$3.2M/year
- Design of the Filter Project has been postponed until 2019
- 2018 REDUCTIONS WERE NEEDED TO REDUCE BORROWING. ALL PROJECTS WILL BE FUNDED THROUGH CASH FROM OPERATIONS + ANTICIPATED BORROWING OF \$1.7M

Allentown Division Water – 2018 Projects

CP#	Project	2018 \$	2018-2022 \$
AD-W-A	Annual Projects (* = internally classified as an annual project)	\$1,531,000	\$7,260,000
AD-W-7	Water Main Replacements	\$3,200,000	\$16,000,000
AD-W-9	Various Water System Related Studies*	\$40,000	\$121,000
AD-W-10	Emergency Power at WFP - Crystal & Schantz Springs Pumps	\$0	\$1,790,000
AD-W-11	Schantz Spring Main Replacement & Leak Rehabilitation	\$335,000	\$335,000
AD-W-13	Facility Roof Replacements Phase 2 & 3*	\$0	\$0
AD-W-15	Itron/AMR Meter Project	\$140,000	\$300,000
AD-W-21	Fixed-Base Meter Reading System	\$0	\$1,705,000
AD-W-22	Filter Upgrades	\$0	\$12,140,000
AD-W-23	Intake Upgrades	\$0	\$11,120,000
TOTAL		\$5,246,000	\$50,771,000

Allentown Division Water – Changes between 8/9/2017 and 10/23/2017

CP#	Project	8/9/2017 2018 \$	8/9/2017 2018-2022 \$	10/23/2017 2018 \$	10/23/2017 2018-2022 \$
AD-W-A	Annual Projects (* = internally classified as an annual project)	\$2,609,900	\$10,342,500	\$1,531,000	\$7,260,000
AD-W-7	Water Main Replacements	\$4,800,000	\$24,000,000	\$3,200,000	\$16,000,000
AD-W-9	Various Water System Related Studies*	\$45,000	\$225,000	\$40,000	\$121,000
AD-W-10	Emergency Power at WFP - Crystal & Schantz Springs Pumps	\$0	\$1,790,000	\$0	\$1,790,000
AD-W-11	Schantz Spring Main Replacement & Leak Rehabilitation	\$335,000	\$335,000	\$335,000	\$335,000
AD-W-13	Facility Roof Replacements Phase 2 & 3*	\$870,000	\$870,000	\$0	\$0
AD-W-15	Itron/AMR Meter Project	\$140,000	\$300,000	\$140,000	\$300,000
AD-W-21	Fixed-Base Meter Reading System	\$0	\$1,705,000	\$0	\$1,705,000
AD-W-22	Filter Upgrades	\$200,000	\$12,340,000	\$0	\$12,140,000
AD-W-23	Intake Upgrades	\$0	\$11,120,000	\$0	\$11,120,000
TOTAL		\$8,999,900	\$63,027,500	\$5,246,000	\$50,771,000

Allentown Division Wastewater – 2018 Projects

CP#	Project	2018 \$	2018-2022 \$
AD-S-A	Annual Projects (* = internally classified as an annual project)	\$1,049,000	\$5,988,000
AD-S-5	WWTP Electrical Substation Replacements	\$3,360,000	\$3,485,000
AD-S-6	WWTP Disinfection Upgrade	\$0	\$1,740,000
AD-S-9	Various Wastewater System Related Studies*	\$300,000	\$380,000
AD-S-11	Administrative Order Phase 1A WWTP Improvements	\$1,000,000	\$19,000,000
AD-S-16	WWTP Interim Blending Pumping System	\$1,340,000	\$1,340,000
AD-S-18	Indenture Report Improvements*	\$0	\$0
TOTAL		\$7,049,000	\$31,933,000

Allentown Division Wastewater – Changes between 8/9/2017 and 10/23/2017

CP#	Project	8/9/2017 2018 \$	8/9/2017 2018-2022 \$	10/23/2017 2018 \$	10/23/2017 2018-2022 \$
AD-S-A	Annual Projects (* = internally classified as an annual project)	\$2,065,000	\$8,147,500	\$1,049,000	\$5,988,000
AD-S-5	WWTP Electrical Substation Replacements	\$3,360,000	\$3,485,000	\$3,360,000	\$3,485,000
AD-S-6	WWTP Disinfection Upgrade	\$0	\$1,740,000	\$0	\$1,740,000
AD-S-9	Various Wastewater System Related Studies*	\$350,000	\$470,000	\$300,000	\$380,000
AD-S-11	Administrative Order Phase 1A WWTP Improvements	\$1,000,000	\$19,000,000	\$1,000,000	\$19,000,000
AD-S-16	WWTP Interim Blending Pumping System	\$1,340,000	\$1,340,000	\$1,340,000	\$1,340,000
AD-S-18	Indenture Report Improvements	\$940,000	\$4,700,000	\$0	\$0
TOTAL		\$9,055,000	\$38,882,500	\$7,049,000	\$31,933,000

Summary

- 2018 Capital Budget
- Total 5-Year Capital Budget

	<u>2018</u>		<u>2018-2022</u>
Administration	\$ 595,000		\$ 2,628,000
Suburban Water	\$ 9,117,750		\$ 24,982,750
Suburban Wastewater	\$ 11,598,750		\$ 39,961,750
City Division	\$ 12,295,000		\$ 82,704,000
TOTAL	\$ 33,606,500		\$ 150,276,500

Discussion

Questions?