



## City of Lebanon 5-YR Wastewater Capital Improvement Plan

Project Name & Description	Total Project Cost	FY23	FY24	FY25	FY26	FY27
<p><b>WWTP Improvements-</b> The City of Lebanon is proposing to replace and upgrade several components within the existing WWTP. A recent Condition Assessment Study of the plant identified several critical components that should be addressed in the near future with either replacement or upgraded equipment.</p> <p>This project will involve the design and installation of a new bulk storage PAA disinfection system that will be much more energy efficient than the existing UV disinfection system; replacement of the belt filter press with new, more efficient dewatering technology such as a Volute screw press; replace the sludge pumps with new, more efficient disc pumps with higher efficiency motors to reduce energy costs; replacement of the existing mechanical bar screen and installation of a second redundant screen; installation of a new influent flowmeter and, refurbish the concrete post aeration basin.</p> <p>The project will enable the City to provide continued treatment at the existing site for the foreseeable future in a more efficient and cost-effective manner.</p>	<b>\$6,660,000</b>	\$3,000,000	\$3,660,000			
<p><b>HWY 208 &amp; Pebblebrook Pumpstation Elimination Project-</b> The project will also eliminate two (2) problematic sewage lift stations by installing gravity sewer to connection to an existing interceptor sewer. Both lift stations have had overflow issues when problems occur with pumps or motors. This will also require some rehabilitation of a short section of the gravity line (approx 8,000 lf) as well as an upgrade to the existing Walmart Lift Station that will take this flow. Due to increased industrial flow, the pumps in this pump station need to be upgraded to handle the additional flow in this sewershed.</p>	<b>\$1,000,000</b>		\$750,000	\$250,000		



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<b>Collection System Improvements Phase 1-</b> A recent flow monitoring project, various TVI Inspections, and Manhole inspections have identified sections of the collection system that are degraded and are subject to significant Inflow and Infiltration (I&I). This project will replace these identified sections of collection system to reduce the I&I into the system.	<b>\$3,500,000</b>			\$1,750,000	\$1,750,000	
<b>Remote Telemetry Project-</b> This project will install Telemetry and other necessary components at all Collection System Pump Stations to send data to operators of items such as pumps running, power failures, wetwell levels, etc and will install transfer switched as each facility so that a generator can be easily hooked in to run the pumps during power outages.	<b>\$200,000</b>	\$200,000				
<b>Spare Pump Inventory-</b> Spare pumps for each pump station are required to provide adequate redundancy in case of a pump failure.	<b>\$150,000</b>	\$150,000				
<b>Collection System Improvements Phase 2-</b> The City of Lebanon will continue SSES efforts during the Collection System Improvements Phase 1 replacement project and will better identify additional sections of the collection system that are problematic. This project will replace these identified sections of collection system to reduce the I&I into the system.	<b>\$2,500,000</b>					\$2,500,000
<b>Total Improvement Cost &amp; Allocation by FY</b>	<b>\$14,010,000</b>	<b>\$3,350,000</b>	<b>\$4,410,000</b>	<b>\$2,000,000</b>	<b>\$1,750,000</b>	<b>\$2,500,000</b>