

## 4.6 COST ESTIMATES

Table 4-2 presents Estimated Capital Costs and Table 4-3 presents the Total Present Worth estimates.

**Table 4-2 Estimated Capital Costs**

Item	Option 1 – Same Processes	Option 2 – Same + Sludge Storage	Option 3 - MBR
Contractor Division 1 Costs	\$350,000	\$350,000	\$400,000
Demolition - Equip & Structural	\$200,000	\$200,000	\$180,000
1.7 Million Gal Equalization Pond	\$350,000	\$350,000	\$350,000
New Influent Pumps (Three at 10 Hp)	\$80,000	\$80,000	\$80,000
Bring Exist Control Bldg to Code (Ventilation)	\$75,000	\$75,000	\$75,000
Construct MBR System (Tanks, Equipment, Building)			\$2,900,000
Aeration Basin Improvements/Changes	\$180,000	\$140,000	\$115,000
Final Clarifier Improvements/Changes	\$230,000	\$230,000	\$50,000
New Clarifier & Clarifier Flow Splitter Structure	\$285,000	\$285,000	
Recoat FRP Covers - Final Clarifiers, Filter Bwash Tank	\$25,000	\$25,000	\$15,000
New Ventilation for Aerobic Digester Boiler Room	\$30,000	\$30,000	\$30,000
Replace Filter Pump Station	\$175,000	\$175,000	
Replace Filter Media, Blower, BW Pump	\$115,000	\$115,000	
New Filter	\$215,000	\$215,000	
Aerobic Digester Improvements	\$85,000	\$85,000	\$85,000
New Boilers/Heat Exchangers	\$300,000		
Convert Anaerobic Digester to Aerobic/Sludge Hldng	\$225,000	\$160,000	\$160,000
New Sludge Storage Tank		\$375,000	
New Sludge Transfer Pump & Piping	\$20,000	\$20,000	\$20,000
Construct New Lab & Offices	\$130,000	\$130,000	\$140,000
New Chem Tanks, Add Secondary Containment			\$35,000
Construct New Chem Storage Building	\$100,000	\$100,000	
Electrical and Controls	\$730,000	\$730,000	\$250,000
Generator	\$115,000	\$115,000	\$100,000
Yard & Process Piping	\$350,000	\$400,000	\$500,000
Site Work (Earthwork, Restrtn, Paving)	\$150,000	\$150,000	\$150,000
Bypass Pumping, Temporary Facilities, Small Equip	\$100,000	\$100,000	\$100,000
<b>Subtotal</b>	<b>\$4,615,000</b>	<b>\$4,635,000</b>	<b>\$5,735,000</b>
Contingency	\$682,000	\$686,000	\$850,000
Engineering Admin, Financing	\$908,000	\$914,000	\$1,030,000
<b>Estimated Project Cost</b>	<b>\$6,205,000</b>	<b>\$6,235,000</b>	<b>\$7,615,000</b>