

**Cost Estimate Summary
Water Supply Project Option
September 2023 Prices
City of Elsa - Direct Reuse Water System**

**Cost based on ENR CCI 13485.67 for September 2023 and
a PPI of 278.502 for September 2023**

<i>Item</i>	<i>Estimated Costs for Facilities</i>
Intake Pump Stations (0 MGD)	\$257,000
Transmission Pipeline (10 in. dia., 1 miles)	\$1,290,000
Storage Tanks (Other Than at Booster Pump Stations)	\$1,138,000
Advanced Water Treatment Facility (0.15 MGD)	\$1,796,000
TOTAL COST OF FACILITIES	\$4,481,000
- Planning (3%)	\$134,000
- Design (7%)	\$314,000
- Construction Engineering (1%)	\$45,000
Legal Assistance (2%)	\$90,000
Fiscal Services (2%)	\$90,000
Pipeline Contingency (15%)	\$193,000
All Other Facilities Contingency (20%)	\$638,000
Environmental & Archaeology Studies and Mitigation	\$62,000
Land Acquisition and Surveying (10 acres)	\$57,000
Interest During Construction (3.5% for 1 years with a 0.5% ROI)	<u>\$199,000</u>
TOTAL COST OF PROJECT	\$6,303,000
ANNUAL COST	
Debt Service (3.5 percent, 20 years)	\$443,000
Reservoir Debt Service (3.5 percent, 40 years)	\$0
Operation and Maintenance	
Pipeline, Wells, and Storage Tanks (1% of Cost of Facilities)	\$24,000
Intakes and Pump Stations (2.5% of Cost of Facilities)	\$6,000
Dam and Reservoir (1.5% of Cost of Facilities)	\$0
Water Treatment Plant	\$0
Advanced Water Treatment Facility	\$215,000
Pumping Energy Costs (5974 kW-hr @ 0.09 \$/kW-hr)	\$1,000
Purchase of Water (acft/yr @ \$/acft)	<u>\$0</u>
TOTAL ANNUAL COST	\$689,000
Available Project Yield (acft/yr)	108
Annual Cost of Water (\$ per acft), based on PF=1	\$6,380
Annual Cost of Water After Debt Service (\$ per acft), based on PF=1	\$2,278
Annual Cost of Water (\$ per 1,000 gallons), based on PF=1	\$19.58
Annual Cost of Water After Debt Service (\$ per 1,000 gallons), based on PF=1	\$6.99
<i>Note: One or more cost element has been calculated externally</i>	
<i>K. Dreifuerst</i>	<i>7/1/2025</i>