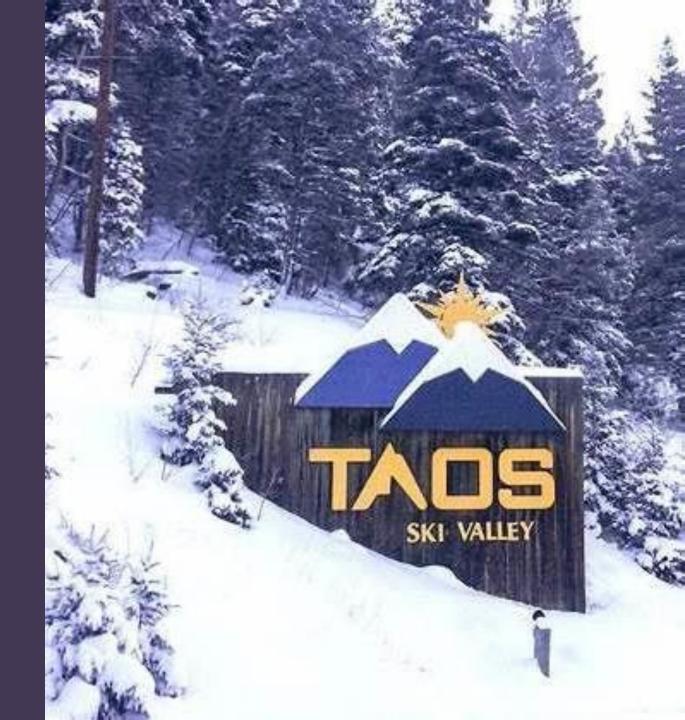
WATER SYSTEM COST ANALYSIS



THOUGHT PROCESS

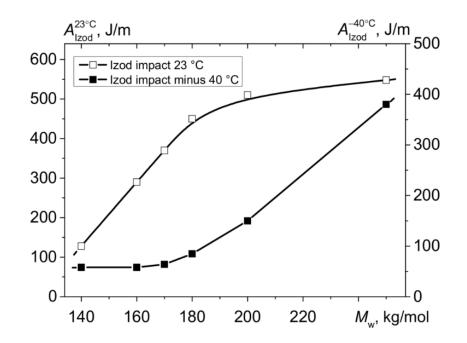
- Forecast water system costs based on current replacement rate, current water system life cycle, and asset management plan.
- Break down cost estimating criteria and final conclusions regarding total cost, annual cost and the cost to expand the water system.

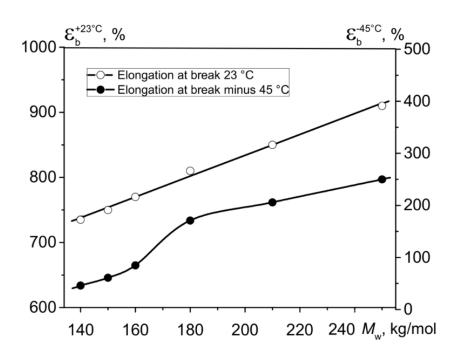
Village of Taos Ski Valley

Water System Asset Management Plan



Village of Taos Ski Valley, New Mexico



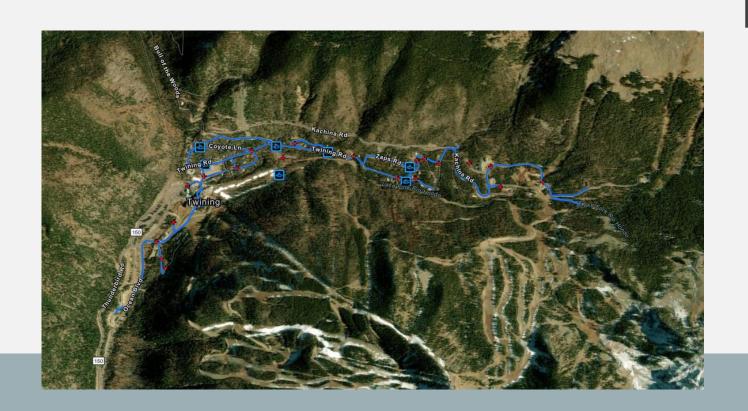


ENVIRONMENTAL FACTORS

ENVIRONMENTAL FACTORS CONTINUED



Feature	HDPE Pipes	PVC Pipes	Steel Pipes
Flexibility	High	Moderate	Low
Corrosion Resistance	Excellent	Good	Poor
Lifespan	Over 50 years	25-40 years	20-30 years
Installation Complexity	Moderate	Low	High
Highest Operating Temperature	60°C (140°F)	60°C (140°F)	260°C (500°F)
Lowest Operating Temperature	-40°C (-40°F)	0°C (32°F)	-20°C (-4°F)



MAIN EXPENDITURES

Water Line Replacement and Expansion

 Covers Major Water Line Restorations and expansions

Emergency Repairs

 Covers all emergency water line repairs and replacements

COST FORECASTING

Tariffs

Increased Cost of Labor

Supply Chain Issues

Aging System

LINE REPLACEMENT

- Estimated 9000 Linear Feet of Replacement.
- Replacements required based on useful life, undersized lines, and undesirable material.



LINE REPLACEMENT COST

Using Phoenix Switchback replacement as a benchmark of construction cost





\$6,700,000 Estimated total for the next 5 years on water line replacement

\$1,300,000 Estimated Annually

WATER SYSTEM EXPANSION

- Total Estimated Cost of \$9,200,000
- \$1,800,000 Estimated Annual Cost



EMERGENCY REPAIR COSTS

- Averaged historical emergency repair cost per annum
- Included maintenance costs for PRVS, Pumps, Tanks, and Meters



Ti.

\$1,288,000 IN ESTIMATED EMERGENCY REPAIRS

\$257,000 ESTIMATED ANNUALLY

FINAL FIGURES

Replacement

Expansion

Emergency Repairs

Total \$6,700,000

Total \$9,200,000

Total \$1,288,000

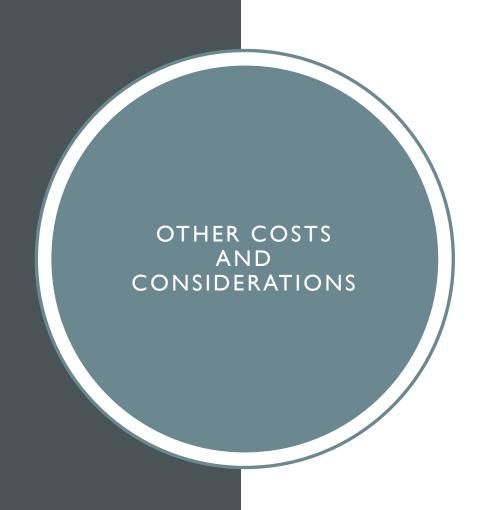
Annual \$1,300,000

Annual \$1,800,000

Annual \$257,000

FINAL ANNUAL COST

Estimated \$3,440,000 Per year Estimated \$17,200,000 Total



Wastewater

- Plant is almost out of warranty.
- Line along twining will need to be replace during twining construction.
- Approximated 800,000 to 1.5 million depending on repairs needed.