

Jady Hill Area Utility Replacements Water and Sewer Advisory Committee Meeting August 10, 2011



Presented by:



Introductions

- Timothy R. Vadney, P.E. – Senior Project Engineer
- D. Andrew Morrill, P.E. – Project Engineer

Presentation Overview

- Discuss current and future wastewater conveyance and treatment costs
- Present estimated cost savings of I/I removal
- Present estimated Project Costs and Cost-Effective Analysis of I/I removal

Conveyance and Treatment Costs

- Annual Jady Hill I/I volume is estimated to be ~40,000,000 gallons, up to 60% of which comes from private service laterals
- I/I affects current treatment facility and will affect the sizing of the future upgraded facility

Conveyance and Treatment Costs

- Currently pay approximately \$0.0014 per gallon for conveyance and treatment
- Future (advanced treatment) plant will cost approximately \$0.0020 per gallon
- Future treatment facility capital construction cost is approximately \$10 per daily gallon of treatment capacity

Jady Hill I/I Removal Savings

- Assuming 85% I/I removal from doing both sewers and services
- Current Facility – \$1,020,000 over twenty years for conveyance and treatment

Jady Hill I/I Removal Savings

- Future Facility – \$1,460,000 over twenty years for conveyance and treatment
- Savings for smaller capacity of upgraded plant (\$10 per gallon) – \$930,000
- Total Savings – \$2,390,000 over 20 years

Jady Hill Project Costs

- I/I Related Project Costs
 - Roadway Sewer and Drainage – \$2,867,000
 - Sewer Services – \$890,000
 - Total I/I related Costs - \$3,750,000
- Estimated Savings - \$2,390,000 over 20 years
- Approximately 60% of total project costs recovered over 20 years
- Sewer Service Improvements paid off in 14 years (assuming 50% of I/I from services)

Questions & Answers

Presented by:

