Recommended Options for Infiltration/Inflow (I/I) Reduction

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Engineering and Planning
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Agenda

• I/I Overview
• Recommended options for more evaluation
• Next phase of evaluation
• Feedback
• Revise or approve recommended options
I/I in the Regional Wastewater System

- 50-70% of I/I is from private side sewers
- As much as 3/4 of pipe capacity used up by I/I

Components of Future Flows

- Additional future I/I = I/I degradation + additional sewered area
- Current I/I
- Water conservation reduction
- Future population and employment
- Current sewage flow
- Future Sewage
- Sewage
- Existing I/I
Goal for I/I Reduction Program

Explore and evaluate I/I Program concepts to:

- Prevent or reduce future I/I
- Reduce existing I/I
- Reduce scope of future conveyance projects in the separated sewer portion of the regional wastewater system

- Slated to spend $1.7 billion on new pipes through 2060 for growth and I/I
Option 1 – Regional Best Practices

• 3 – 5 standard procedures to be used regionally for new construction, repair, rehabilitation, and/or demolition

• Intended to prevent future I/I
Option 2 – Inspection Training and Certification

• Develop and/or host sewer inspector training and certification program
• Intended to prevent future I/I
Option 3 – Side Sewer Inspection Program

• Side sewers inspected periodically and/or at point of sale
• Repairs or replacements if I/I detected
• Grants or loans available
• Intended to reduce existing I/I
E&P with WTD
I/I Reduction Program Schedule

Explore
Conceptual Options
2015-2018

We Are Here

Options Analysis
2018 – to be determined

Decision Point

Act?
Implement
Next Steps

• MWPAAC provides recommendation to WTD
• WTD, in collaboration with MWPAAC, develops scope of work for next Evaluation Phase including the timeline for evaluating costs/benefits
Feedback
Action on Recommendations

- Option 1 – Regional Best Practices
- Option 2 – Inspection Training and Certification
- Option 3 – Side Sewer Inspection Program
Questions?

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