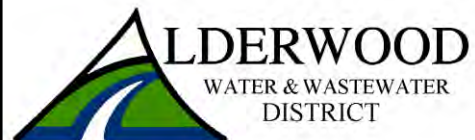


ASSET MANAGEMENT IN ACTION



Jeff Clarke

Alderwood Water & Wastewater District

How We Manage Assets Now



- Rely on staff observations
- Look to material life
- Watch for backups
- Use Model results to predict asset life
- Budget fixes we can afford

What We Want to Do



- Comprehensive view of equipment
- Identify maintenance needs
- Bring data together for good decisions
- Replace before breakage
- Base budgets on long term economics

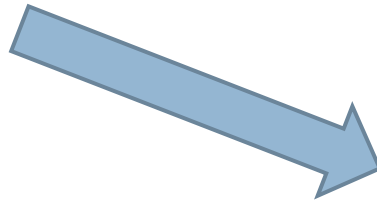
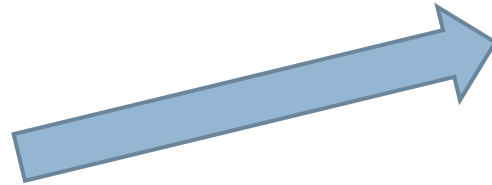
Goals



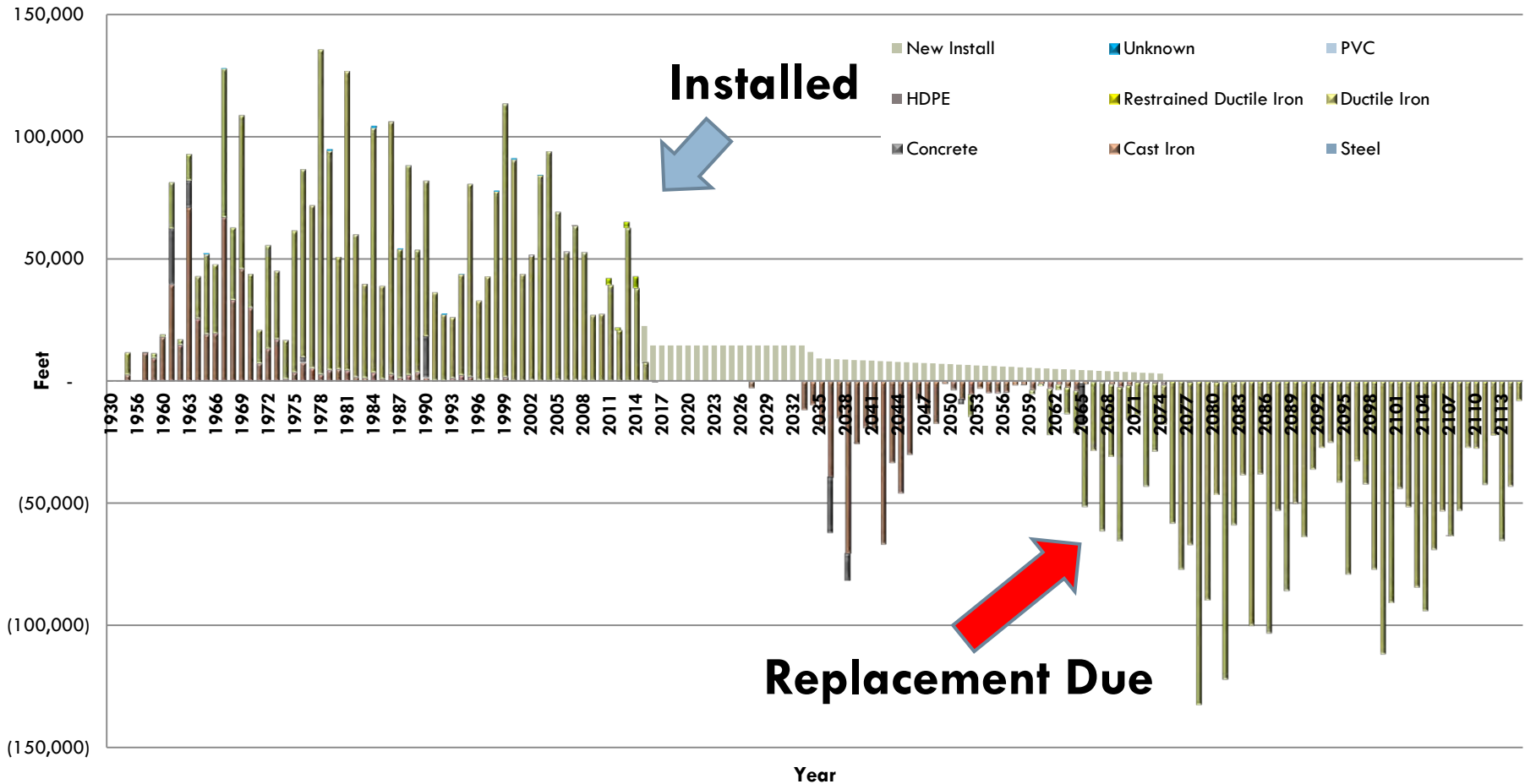
**Asset
Management**

Reliability

Low Long-term Costs



A 100-Year Peek



[Wastewater Plan]

Lessons



- Extending average lifespan saves money
- Materials matter
- Maintenance can extend life
- I/I is expensive
- Replacement work is likely to come in waves

Sewer Flow Monitors



Monitoring Program



- Purchased 60 monitors
- Some permanent installations
- “Hit squad”
- Data analysis

Goals



- Which mains are approaching capacity
 - Look for maintenance needs
 - Prevent backups
 - Delay unnecessary upsizing
- Hunt down I/I
 - Determine sources
 - Reduce demands on system