

TOPICS

- Existing Sanitary Sewer Capacity
 - Capacity for New Development
- Planned Improvements
 - CIP Facility Planning and Future Schedules
- Map/Plan/Project Recommendation Process
 - Discovery/Design Standards/Permit



4 Area Collection Systems

- South Truckee Meadows
- North Spanish Springs
- Lemmon Valley
- Cold Springs

Treatment Facilities

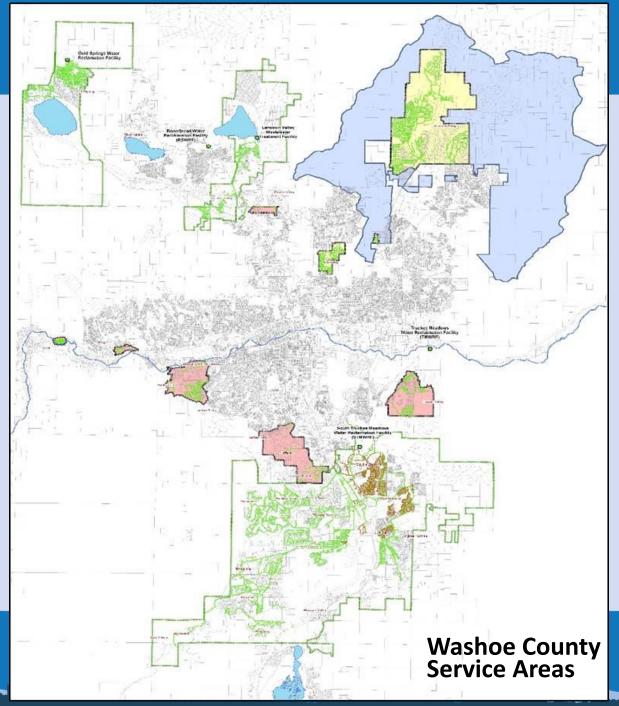
- South Truckee Meadows (STMWRF)
- Lemmon Valley (LVWRF)
- Cold Springs (CSWRF)

Effluent Management

- South Truckee Meadows Reclaimed Water System
 - No Discharge to Truckee River
 - 461 Services (golf courses, schools, parks, streetscape)
- Lemmon Valley
 - Playa discharge
- Cold Springs
 - Rapid Infiltration Basin











Sanitary Sewer Capacity Considerations

- Collection System
- Treatment Capacity
- Effluent Management
- CIP Implementation





Sanitary Sewer Capacity – February 2019

Facility	Permitted Capacity	Current Flow	Approximate # Residential Connections**
STMWRF	4.10 mgd	3.20 mgd	≈ 5,000
Lemmon Valley	0.30 mgd	0.22 mgd	≈ 445
Cold Springs	0.70 mgd	0.35 mgd	≈ 1, 945
North Spanish Springs*	0.78 mgd*	0.09 mgd Available*	≈ 500 ***

^{*2005} Agreement ** 180 gpd/residential dwelling unit – for planning purpose only ***



Facility Planning and Future Schedules

- Completed Facility Planning Updates 2015/2016
 - South Truckee Meadows
 - Cold Springs
 - North Spanish Springs
- Joint Facility Planning in Lemmon Valley
- Reclaim Water Quality Analysis
- Effluent Management Master Planning



CIP Activities – Partial List

- South Truckee Meadows
 - Initiated Next Expansion of STMWRF
 - Steamboat Lift Station
 - Pleasant Valley Interceptor Reach 3
 - Effluent Management Projects
- Cold Springs
 - Headworks Improvements
 - Rapid Infiltration Basin Study
- Lemmon Valley
 - Aeration System improvements in Lemmon Valley
 - Flow Shaving with City of Reno
 - Investigating alternative effluent management strategies including Class A+
- North Spanish Springs
 - No WC Collection System Improvements Immediately Required



Effluent Management Master Planning

- Comprehensive Regional Effluent Management Master Plan
 - Complimentary To Facility Plans
 - WRWC funded
 - Initiated July 2018
 - Fact Finding and Goal Setting
 - Draft Plan in 2020, for Board/Commission reviews.
 - Concurrently the Regional Partners Looking at Feasibility of Class A+



Plan/Project Recommendation Process

- Discovery Required Assess Impacts and Determine Required Mitigation
- Modeling
- Collaboration with Regional Partners
- Utility Design Standards
- Washoe County Development Code
- Deferred Connection Fees (Ordinance)
- Intent to Serve
- Will Serve



CURRENT UTILITY CONSIDERATIONS

- Maintaining Existing Infrastructure
 - User Rates
- New Infrastructure Respond to Development
 - Connection Fees
- Washoe County Policy and NRS Requirements
 - Ordinance
- Debt Commission

OUTLOOK

- 5-Year CIP Facility Expansion Projects ≈ \$130M
- Expansion Project Funding Combination of Cash and Debt
 - Paid by New Development Connection Fees No
 - Performed 30-Year Financial Projections With Conservative Assumptions
- State Revolving Funds (SRF)
 - Supplement and Preserve Cash
 - Requires Public Notification Process



Pleasant Valley Interceptor – Reach 4

- Anticipated Over 20 Years Ago
- Development Agreement and Preliminary Engineering Design Mid 2000's
- Challenges
 - Land and Easements
 - Permitting
 - Community Not In Total Agreement
- Revisit of Agreement and Approach During Economic Downturn
- New Agreement (2016)
 - Project Specific (St. James's Village and Sierra Reflections)
 - Developer is Responsible to Design, Build and Dedicate to WC
 - Leaves Easements and Property Acquired Available For Future





Questions?

