

## 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

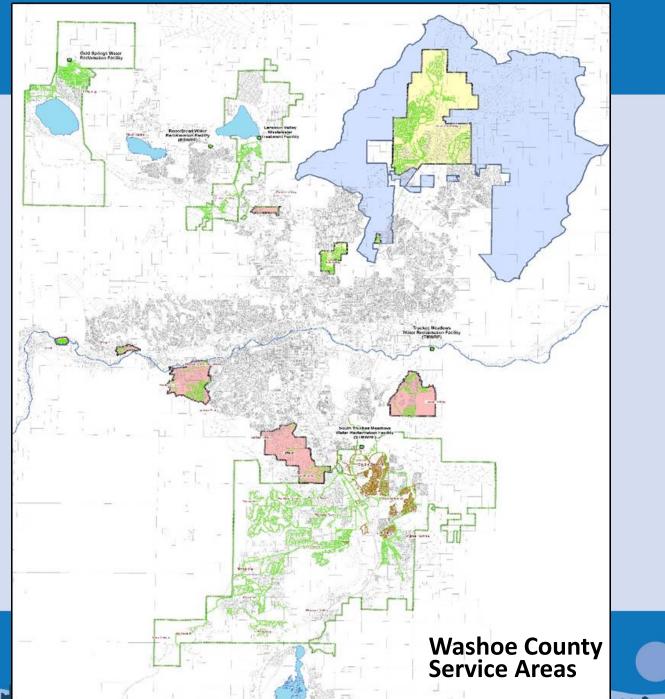
- South Truckee Meadows (STMWRF)
- Lemmon Valley (LVWRF)
- Cold Springs (CSWRF)

### 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 <b>*</b> **
*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
  - 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?**



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