



United Water & Sanitation District Stonegate Village Metro District Water Supply Opportunities



UNITED WATER
AND SANITATION
DISTRICT



STONEGATE
Village Metropolitan District



United Water & Sanitation District

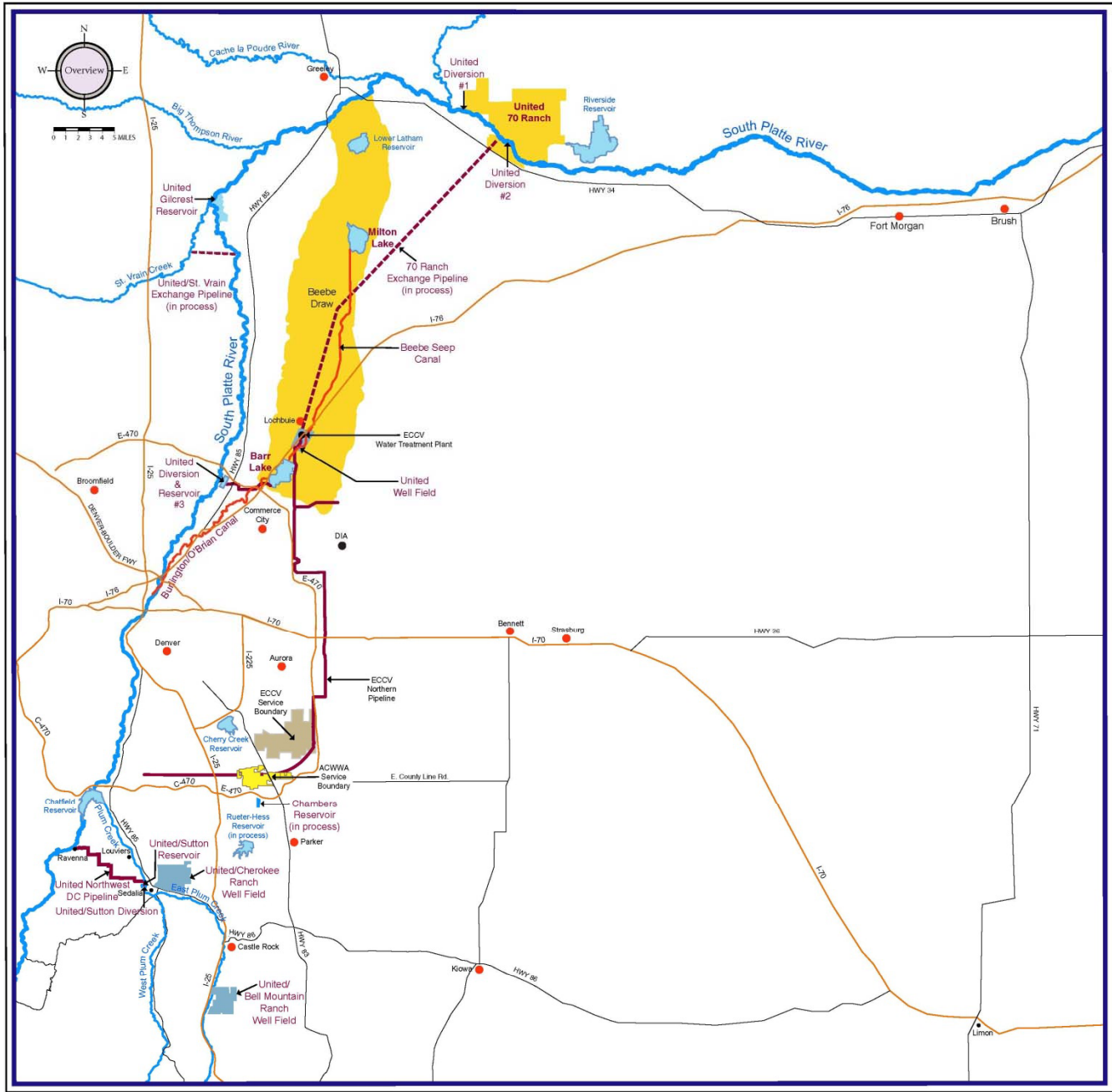


UNITED WATER
AND SANITATION
DISTRICT



Formation

- In 2003, the United Water and Sanitation District was formed to provide water resources and infrastructure to cities, counties, special districts, canal companies, agricultural users and others. Its service plan authorizes a state-wide service area.
- The District's goal is to facilitate the acquisition, diversion, storage, carriage delivery, treatment, transmission, distribution and provision of water to those who voluntarily choose to use the system.



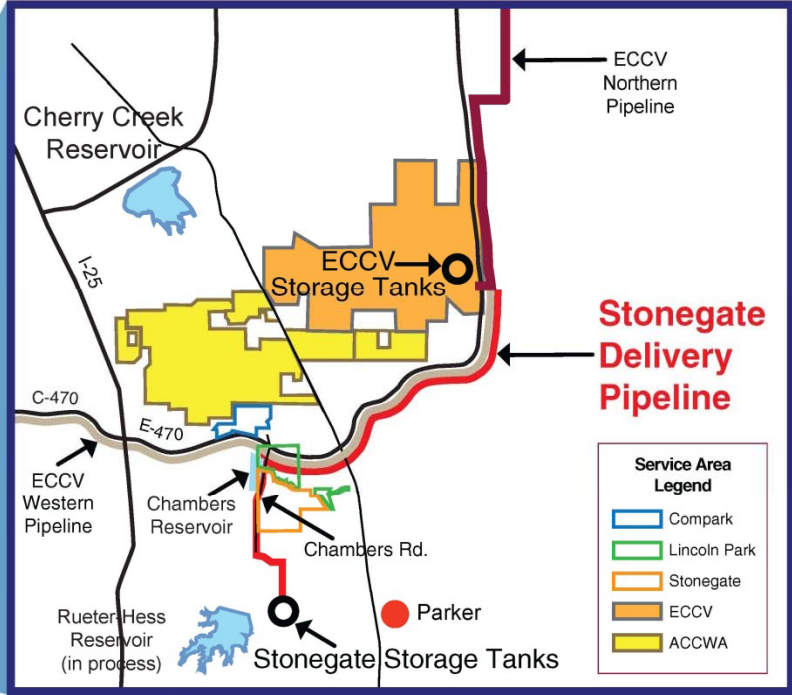
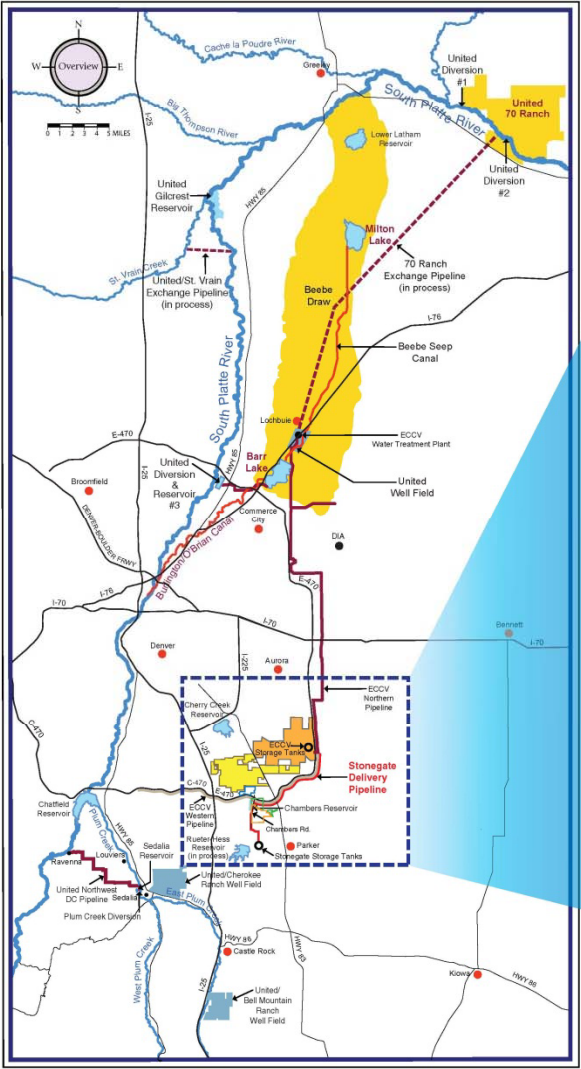


South Metro Partners

- United has a proven track record of working with South Metro water providers to bring water to their customers
 - ECCV Northern Project
 - 6,000 AFY of renewable supplies acquired from United Water
 - United acquires, transfers, diverts, stores, and delivers supplies to ECCV water treatment facilities
 - ACWWA Flow Project
 - 4,400 AFY of renewable supplies acquired from United
 - United acquires, transfers, diverts, stores, and delivers supplies to ECCV water treatment facilities
- In cooperation with ECCV and ACWWA, United is already delivering treated renewable water to the South Metro area

South Metro Partners

The United System and Delivery to Stonegate Village Metropolitan District



Expanded View



United's Services

- Provide a phased approach to water supply development
- Upfront water rights acquisition and joint adjudication of shares to meet renewable demands
- Provide access to:
 - Existing United raw water diversion, storage, alluvial pretreatment and conveyance facilities
- Construct additional facilities as necessary
- Provide a phased approach to financing using new tap fees/growth
- Assist in developing a water operations model to evaluate alternatives



United – Stonegate Village Joint Water Supply Opportunities



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Stonegate Water Supply Evaluation Overview

- Up to 1,844 AFY Renewable Water Supply Goal
- SVMD currently has .7 MGD firm capacity in ECCV Northern Line
- Buildout peak day demand of 5.76 MGD
- Surplus SVMD effluent will be stored in Rueter-Hess and withdrawn for non-potable demands



Stonegate Water Supply Evaluation

Project Components

- Agricultural water rights acquisition, joint adjudication
- United provides a robust and cost effective raw water delivery system
 - 1) Utilizes South Platte exchange potential
 - 2) Delivery from South Platte via 70 Ranch Well Field
- Obtain firm capacity in ECCV water treatment plant
- Obtain existing capacity + additional peak/non-peak capacity in ECCV Northern Pipeline
- Peak/non-peak capacity in ECCV north and south booster pump stations
- Construction of proposed pipeline from ECCV storage tanks to SVMD storage tanks



Water Rights Acquisition



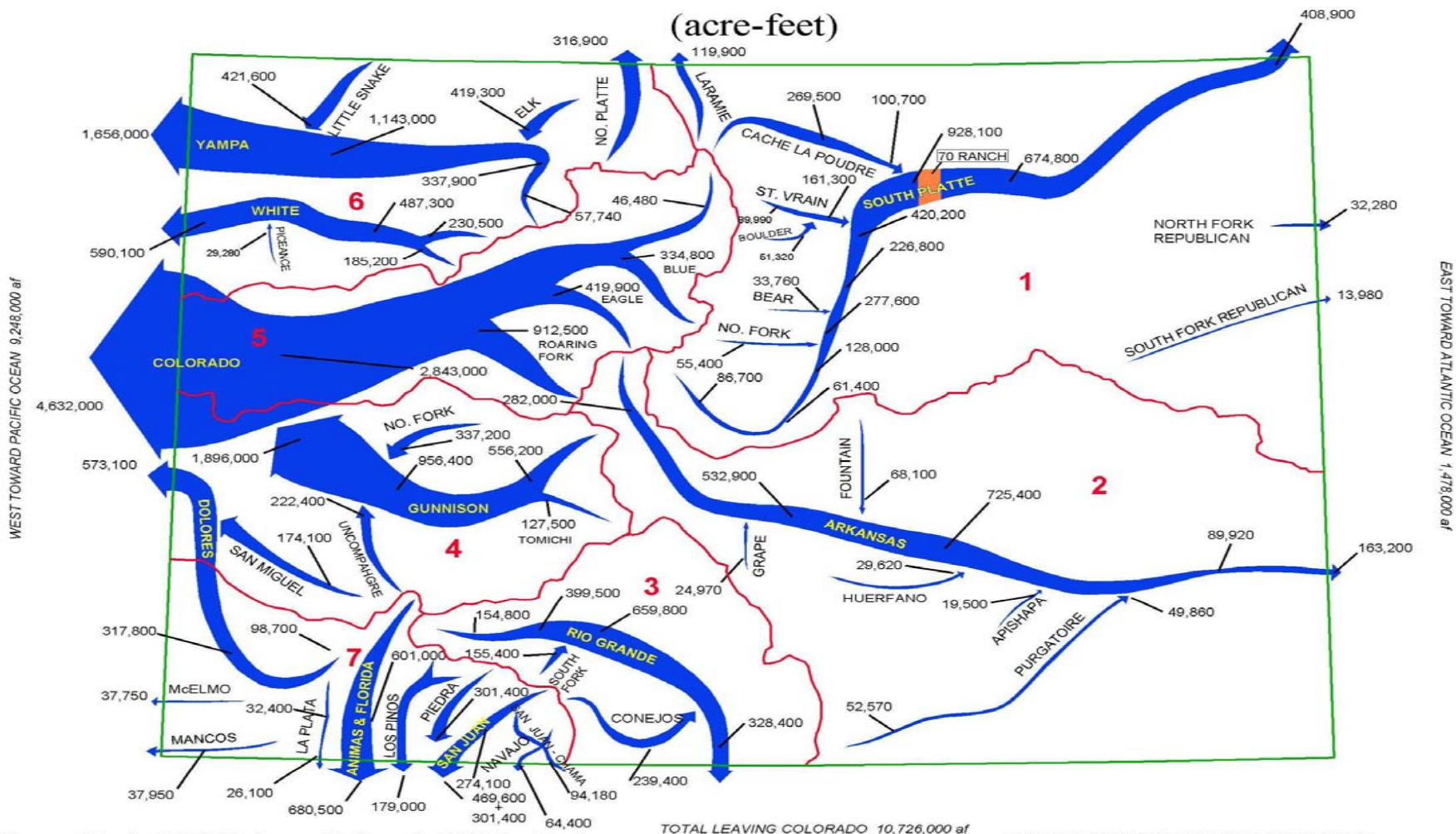
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Water Rights Acquisition

- Fully renewable senior surface water rights
- Acquisition by United in a manner similar to that used for ECCV and ACWWA
- Owned by SVMD
- Pre-Approval of water rights by SVMD prior to United acquisition
- Assured dry-year yield as a % of average yield minimizes storage needs
- Joint water court transfer
- Diversified water rights portfolio

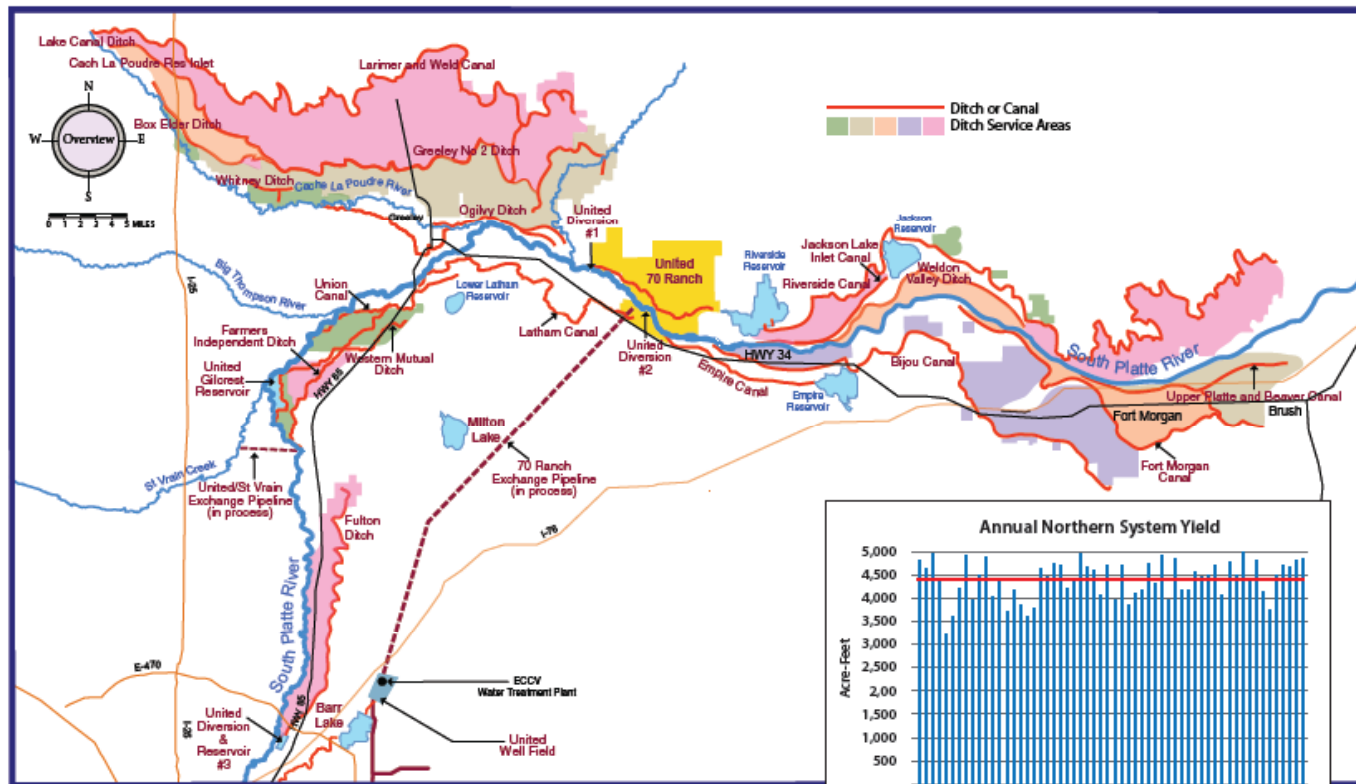
COLORADO HISTORIC AVERAGE ANNUAL STREAM FLOWS (acre-feet)



Prepared by the DWR Hydrographic Branch (2000 Revision)
Historic averages obtained from 1999 USGS and DWR Water Data Reports

OFFICE OF THE STATE ENGINEER
COLORADO DIVISION OF WATER RESOURCES

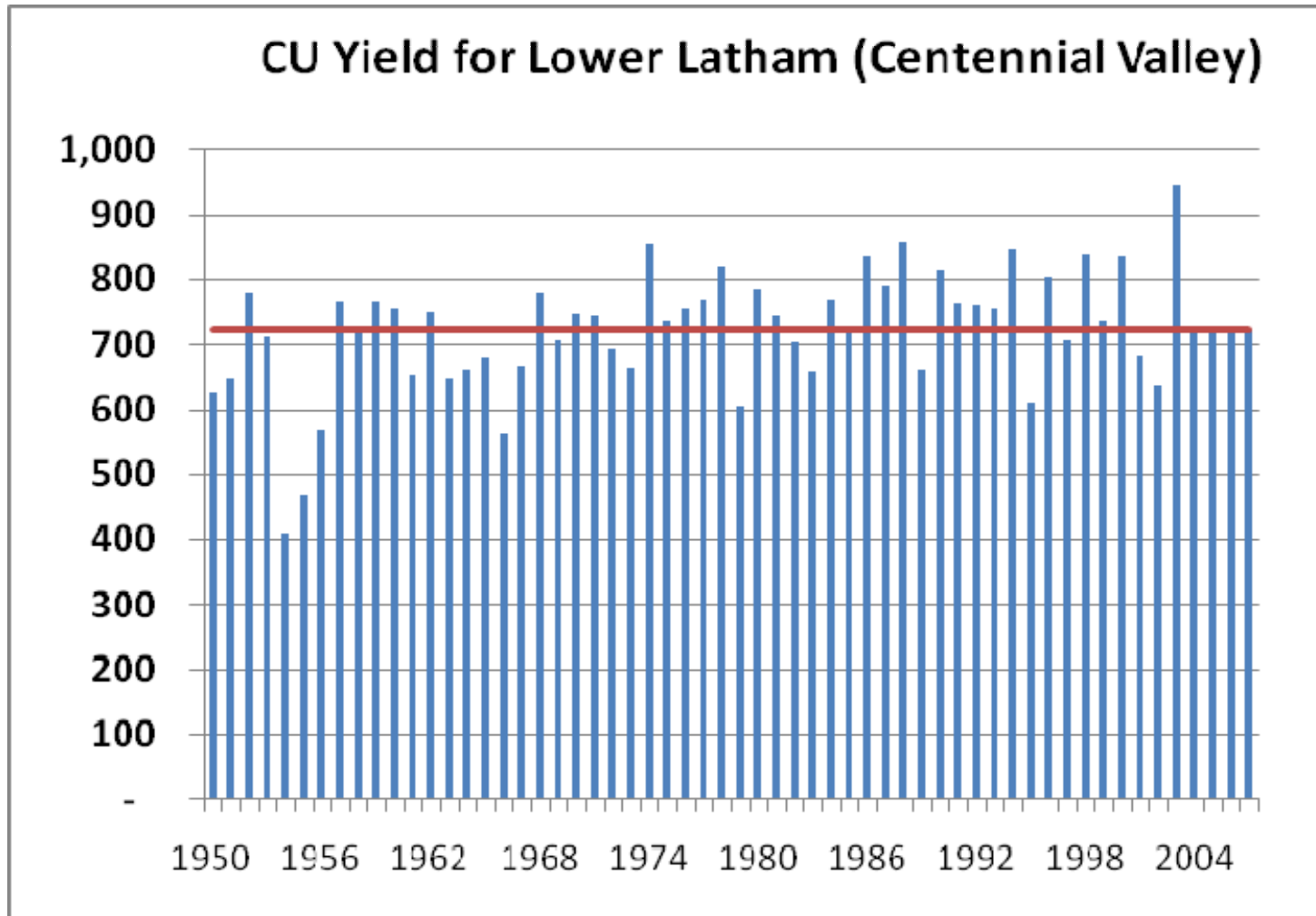
Geographic Distribution of Ditch Systems Used by United



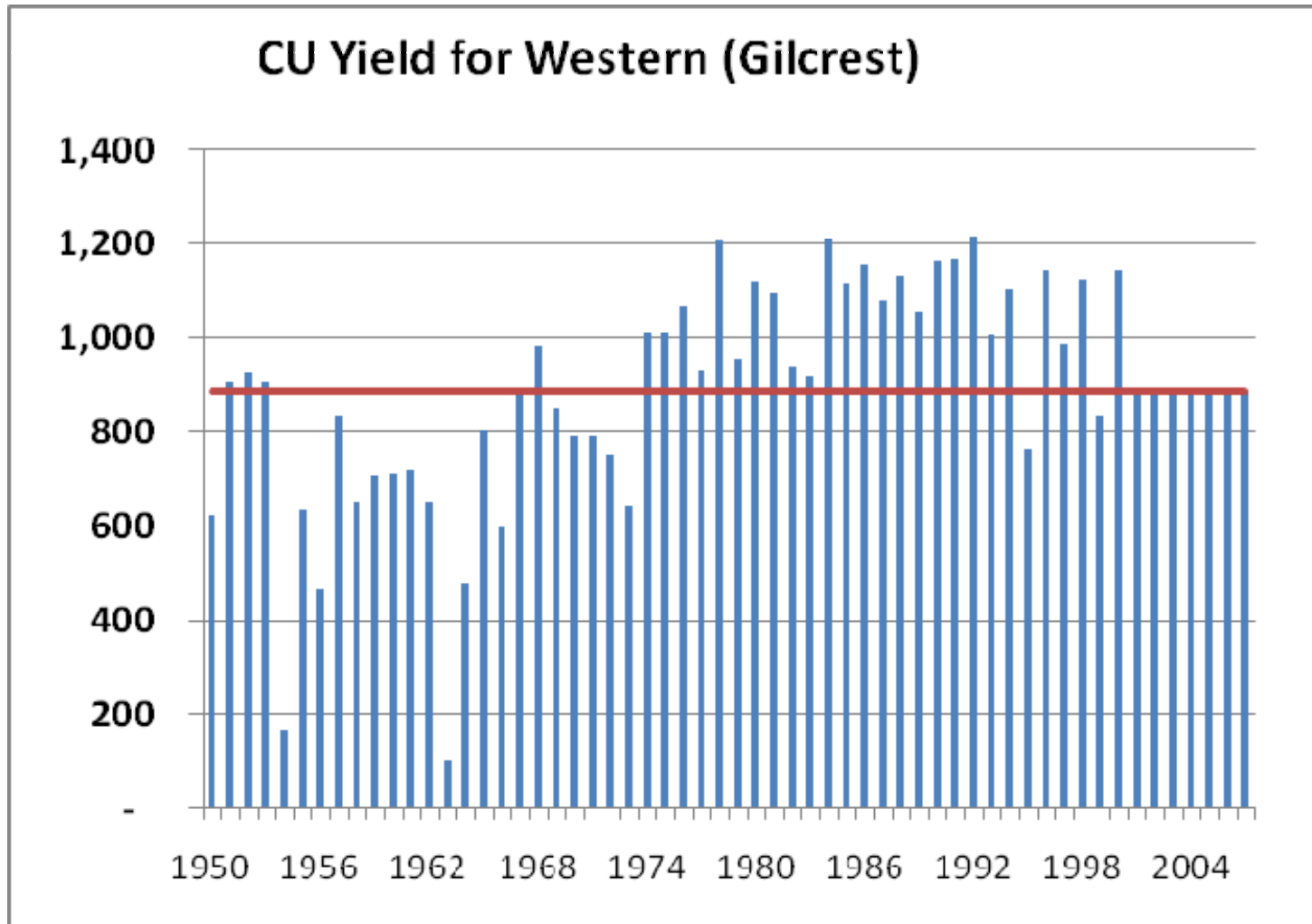
United can Provide a Diversified Portfolio of Renewable Water Rights

The Annual Northern System Yield is an example of the variations in a 4,400 ac/ft/yr water rights portfolio comprised of multiple ditch systems and farms, similar to the diversified package that will be assembled for Castle Rock.

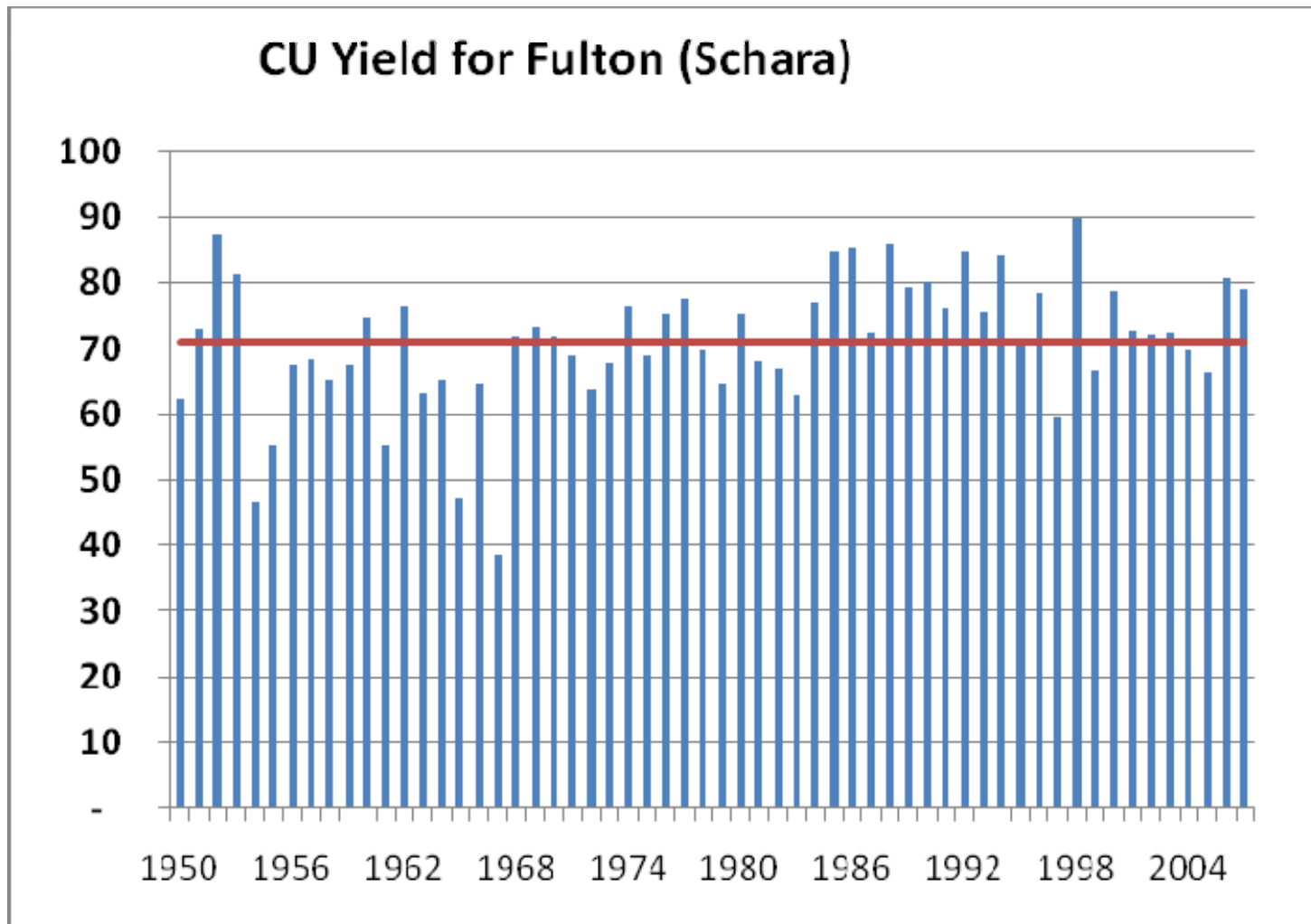
Annual Profile – Individual Water Right



Annual Profile – Individual Water Right



Annual Profile – Individual Water Right







The United Delivery System to Provide Renewable Water to Stonegate





1) United Delivery System to ECCV's Treatment Plant

- United utilizes exchange potential on the South Platte River
 - Divert supplies at United Diversion No. 3
 - Storage at United Reservoir No. 3
 - Delivery to Barr Lake via 36" Beebe Pipeline
 - Pre-Treatment in Beebe Draw Alluvium
 - Withdraw supplies at United Well Field
 - Delivery to ECCV Treatment Plant

Divert supplies at United Diversion No. 3



Storage at United Reservoir No. 3



Delivery to Barr Lake via 36" Beebe Pipeline



Pre-Treatment in Beebe Draw Alluvium



Withdraw Supplies at United Well Field



Raw Water is Treated at ECCV's Treatment Plant

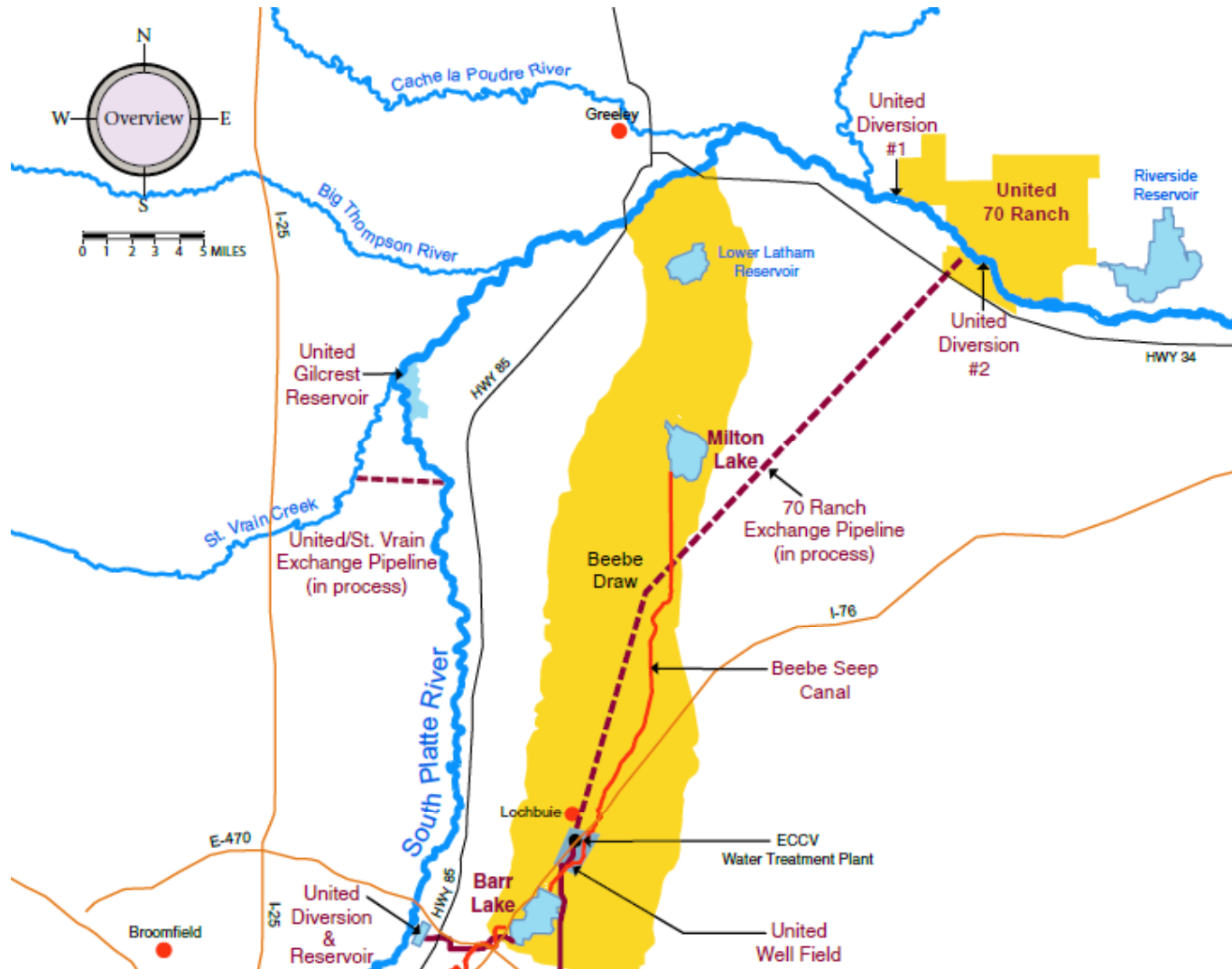




2) United Delivery System to ECCV's Treatment Plant

- United will deliver supplies through its northern infrastructure
 - Divert Supplies at 70 Ranch Well Field
 - Storage and alluvial treatment in 70 Ranch Recharge Ponds
 - Delivery to ECCV Treatment Plant via 70 Ranch Pipeline

Delivery to ECCV Water Treatment Plant via 70 Ranch Pipeline



Raw Water is Treated at ECCV's Treatment Plant



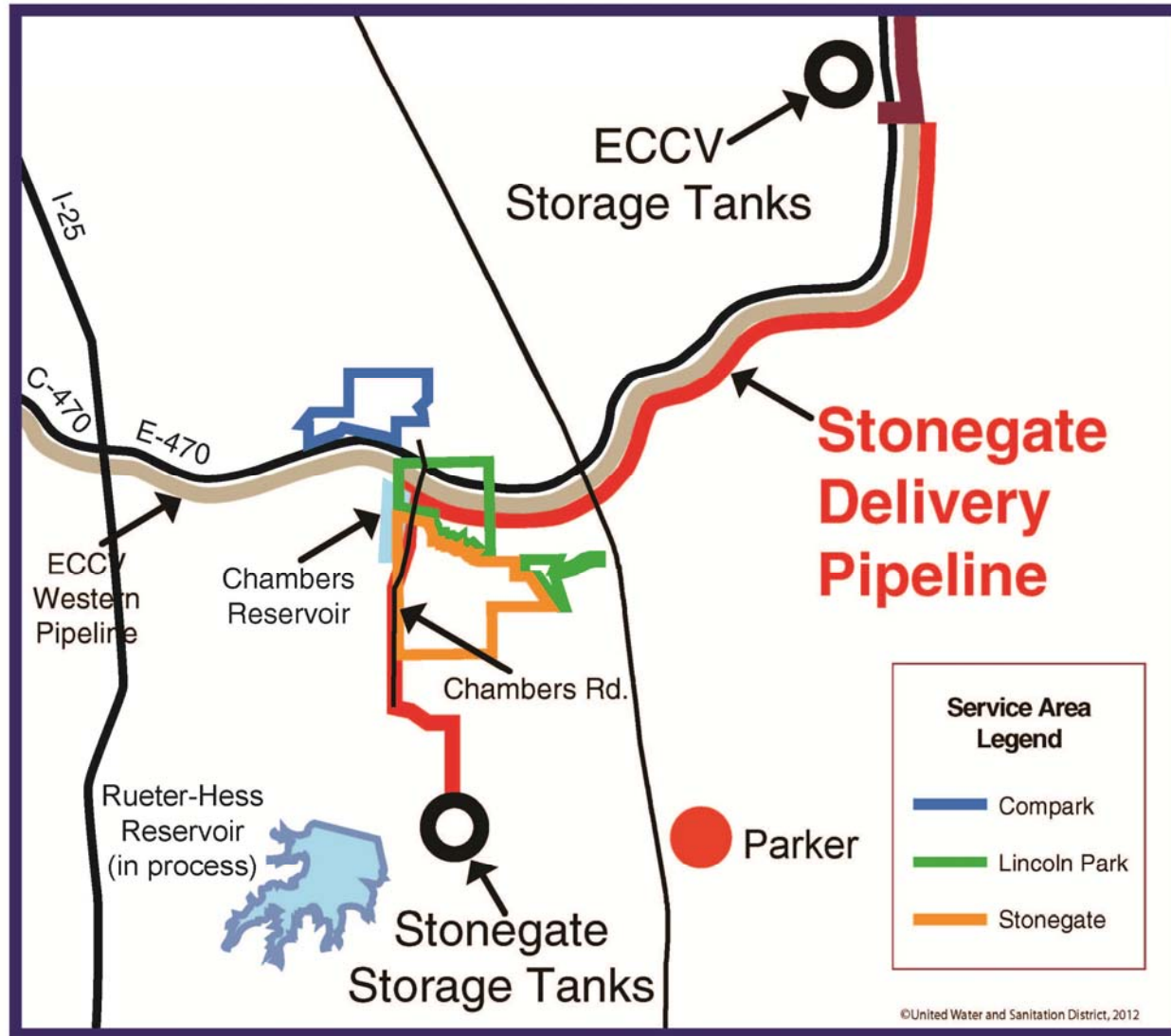
Delivery to ECCV Storage Tanks via ECCV Northern Pipeline



Terminus of ECCV Northern Pipeline



Proposed Delivery Pipeline from ECCV Storage Tanks to SVMMD Storage Tanks



Stonegate Village Water Supply Components and Unit Costs

Component	Capacity Acquired	Units	Unit Cost	Description
Water Rights	Up to 1,844	Acre-feet	\$ 23,850	Water Rights include all infrastructure to deliver to ECCV Northern WTP
Firm Capacity in ECCV Water Treatment Plant	0.7 to 5.74 MGD	MGD	\$ 4 (M)	Firm Capacity in ECCV Water Treatment Plant including Brine Minimization and Deep Well Disposal
Existing Owned Firm Capacity in ECCV Northern Pipeline	0.7	MGD	\$ 0.00	
Additional Firm Capacity in ECCV Northern Pipeline (additional capacity)	Up to 5.04 MGD	MGD	\$ 1.8 (M)	Firm Capacity in ECCV Northern Pipeline (additional capacity)
Additional Variable Capacity in ECCV Northern Pipeline	Varies depending upon firm capacity acquired	MGD	\$ 0.9 (M)	
Firm Capacity in ECCV North and South Booster Pump Stations	0.7 to 5.74 MGD	MGD	\$ 1.8 (M)	Firm Capacity in ECCV North and South Booster Pump Stations
Variable Capacity in ECCV North and South Booster Pump Stations	Varies depending upon firm capacity acquired	MGD	\$ 0.9 (M)	
Construction of Pipeline from ECCV storage tanks to SVM D storage tank	5	MGD	\$ 1.4 (M)	Construction cost for 16" pipeline from ECCV Smoky Hill tanks to Stonegate Village Metro District tanks (includes design, easement acquisition, and pump stations)



United's Advantages

- SVMMD owns and controls a diversified portfolio of renewable water rights
- United has a proven track record
- Utilizes existing diversion, conveyance, storage, and treatment facilities and proven inter-governmental agreements
- Scalable water delivery system
- Financed by new taps and growth