

CUWCD Water Resources Capital Program

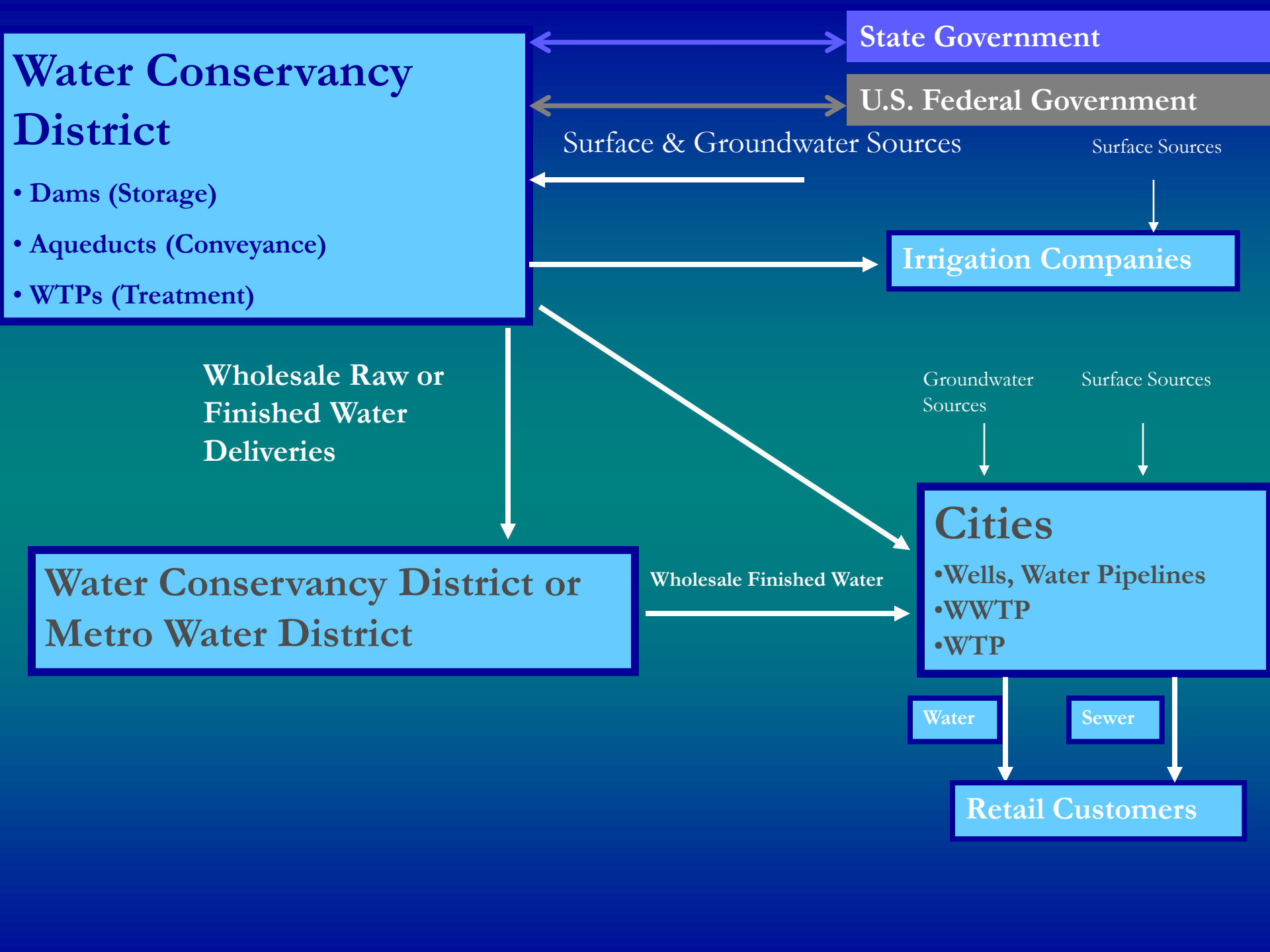
**Western States Water Resources Infrastructure Symposium
Phoenix, AZ, November, 2012**



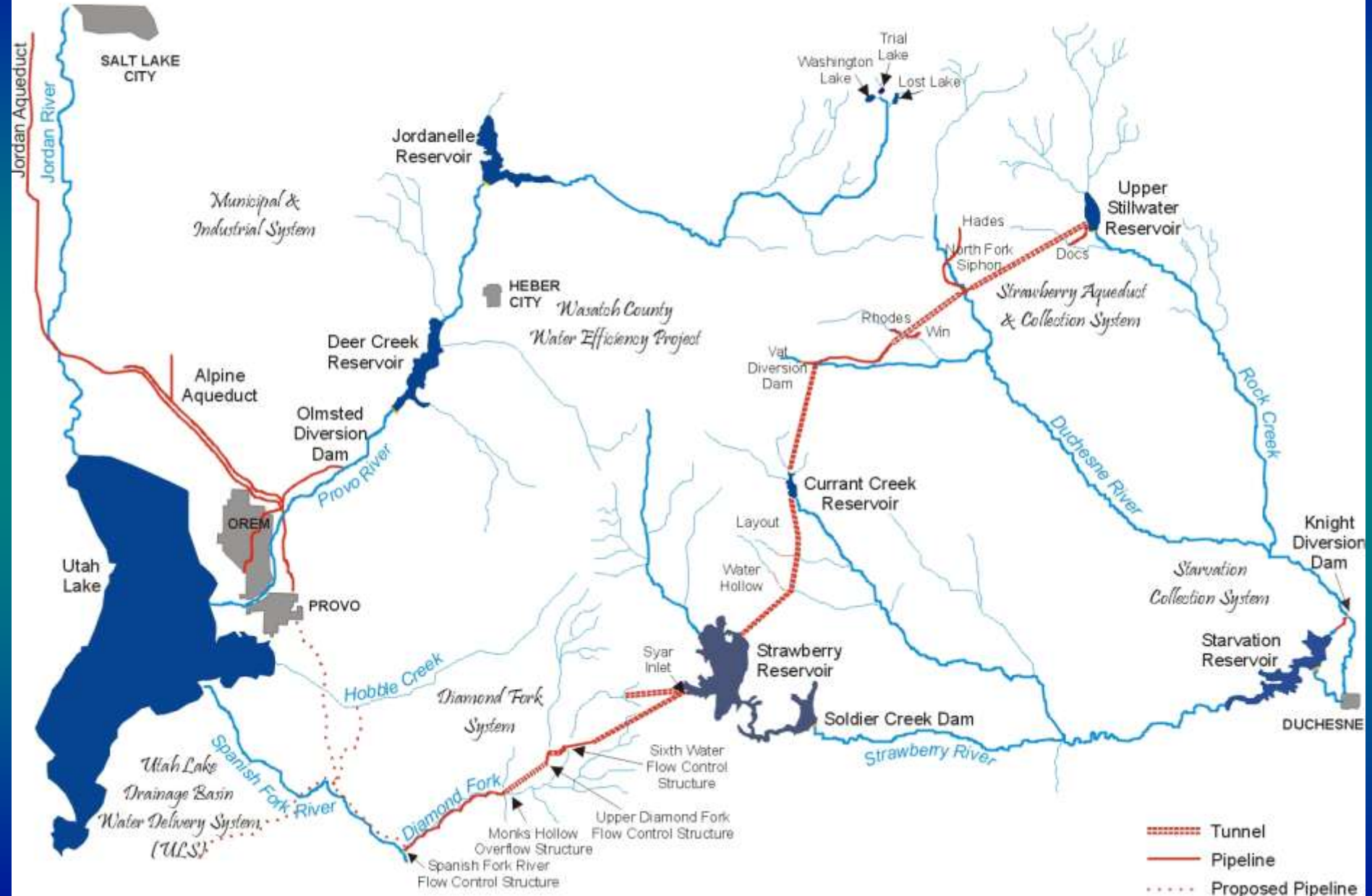
COLORADO RIVER SYSTEM



Source: Bureau of Reclamation, 2002. Last updated: 2005.



Bonneville Unit Area Map

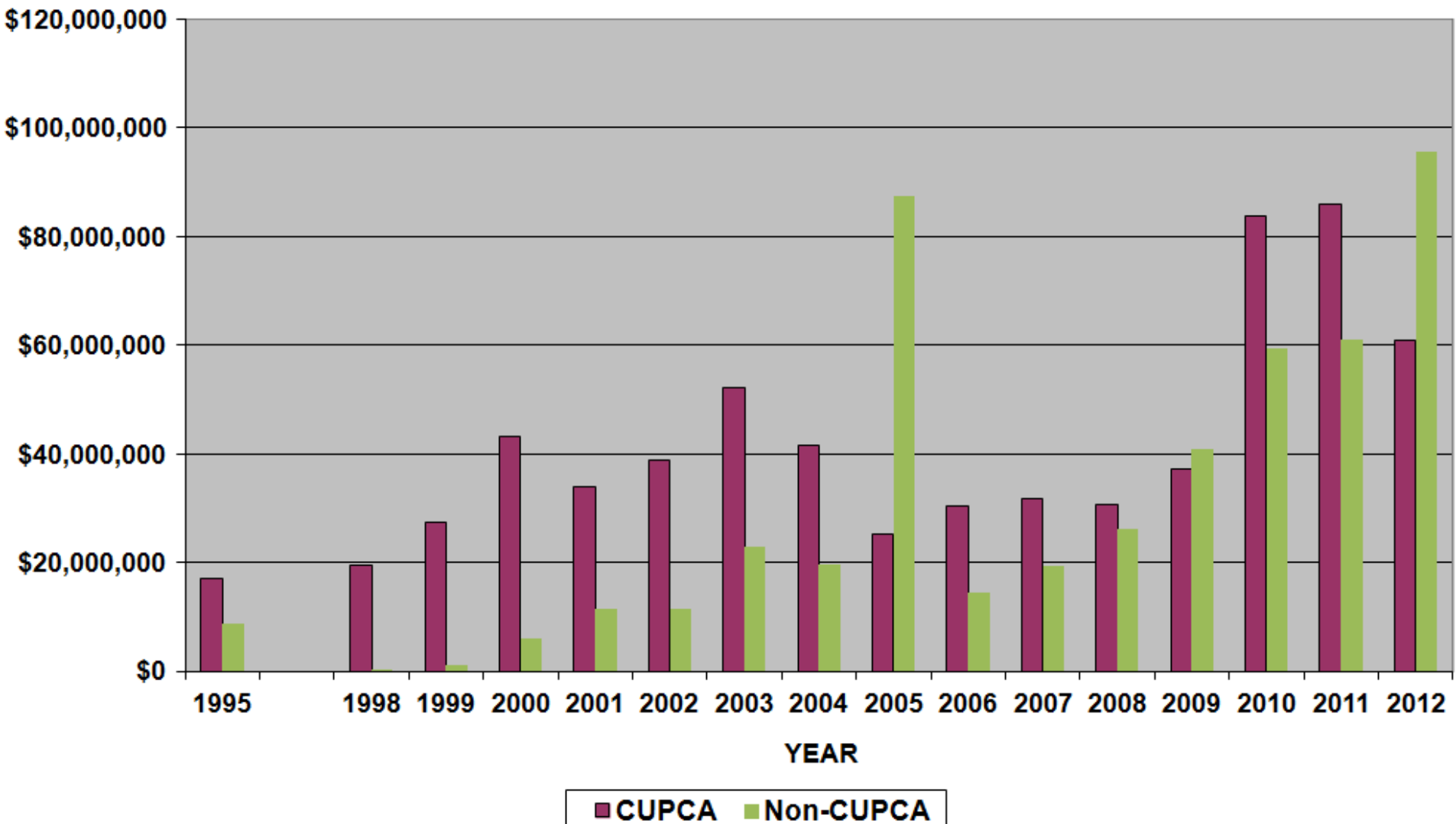




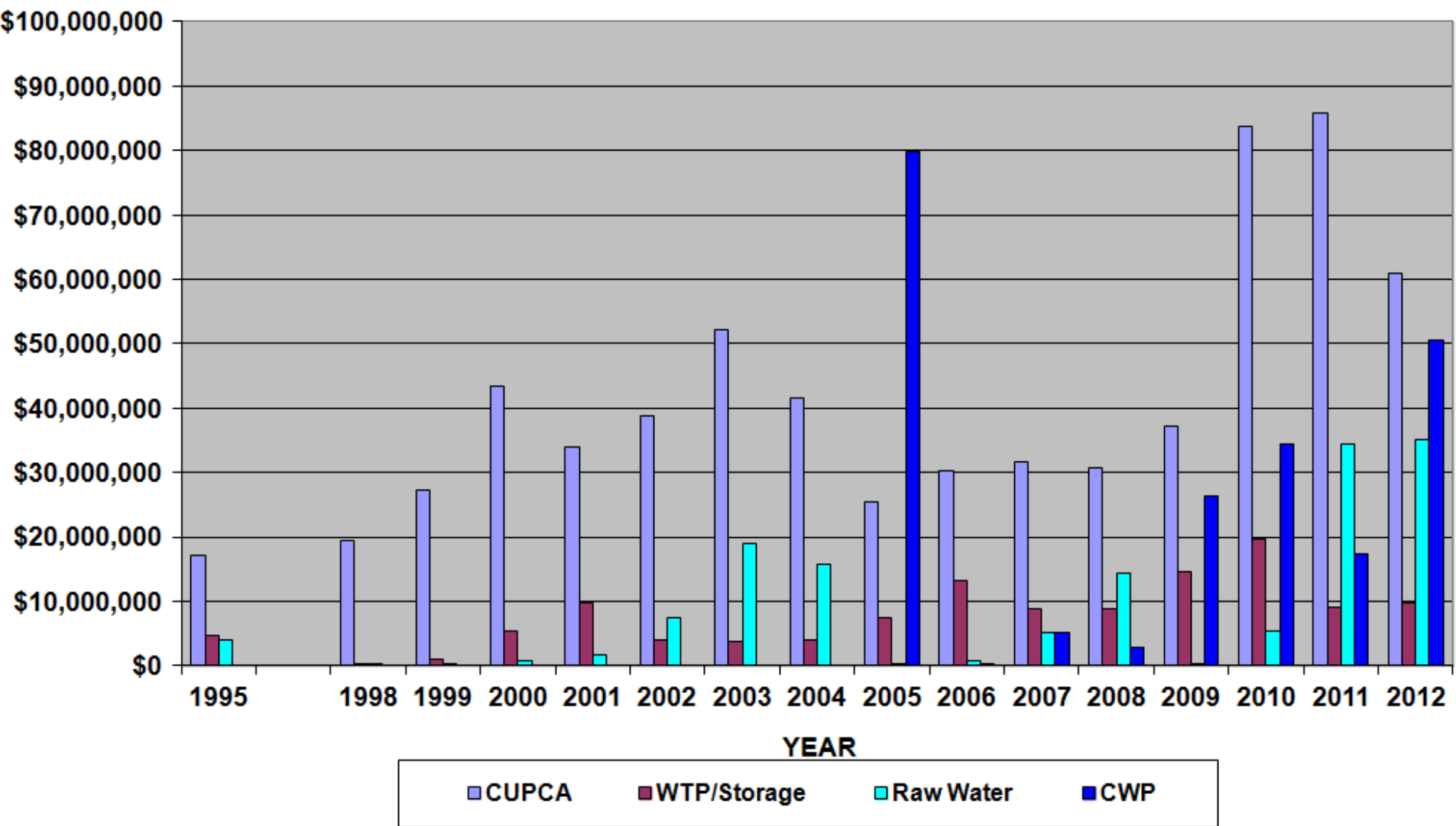
Public Law 102-575 – Reclamation Projects Authorization and Adjustment Act of 1992

- Contained Central Utah Project Completion Act (CUPCA)
- Transferred responsibility for planning, NEPA, design, and construction to CUWCD – local control
- Required local cost share - CUWCD responsibility
- Raised CUP authorized costs by \$924,206,000
- Created separate federal environmental reclamation and mitigation commission
- Mandated environmental and water development projects to proceed jointly

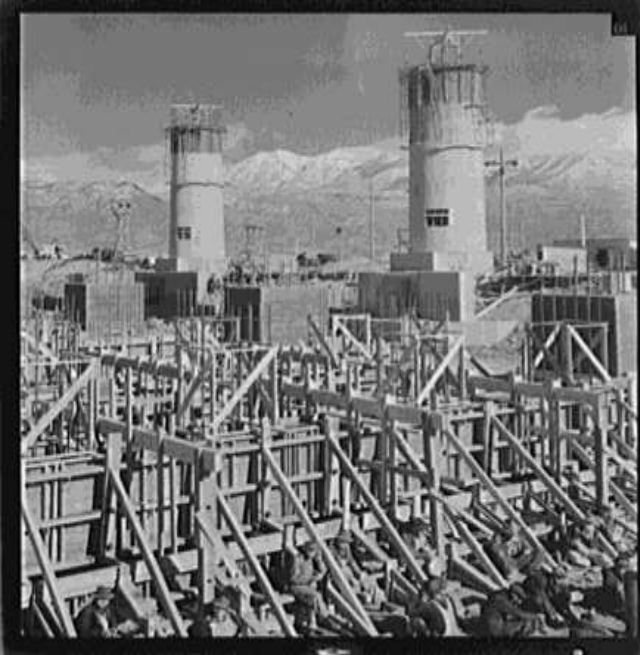
CUWCD Capital Projects



CUWCD Capital Projects



History of Geneva Steel



Geneva Steel's Water Rights

- Geneva's water rights consisted of +80,000 acre-feet of water in 66 water rights
- The rights entitled Geneva to divert from:
 - Wells (44 rights)
 - Drains (14 rights)
 - Springs (5 rights)
 - Canal Wasteways (2 rights)
 - Provo River (1 right)



Geneva Operations

- The plant was operated by US Steel from 1946 until 1986
- The facilities were then sold to local investors for \$47,000,000, who operated the mill from 1987 through 2001
- Difficult market conditions caused the owners to declare bankruptcy in 1999 and again in 2002



New Water Sources for the Public

- In May of 2005, the CUWCD purchased 42,400 acre-feet water rights and related assets during the bankruptcy liquidation of the former Geneva Steel
- The assets included
 - 42,400 acre-feet of water
 - 21 Wells
 - 24-inch pipeline from the Provo River to the Geneva Site, easements, and licenses
 - Provo River Pump Station
 - New Pipeline Easements



CUWCD Water Development Project

- The Geneva water rights and assets were combined with previously purchased District water rights to comprise a new District project to help meet future water demands within the District



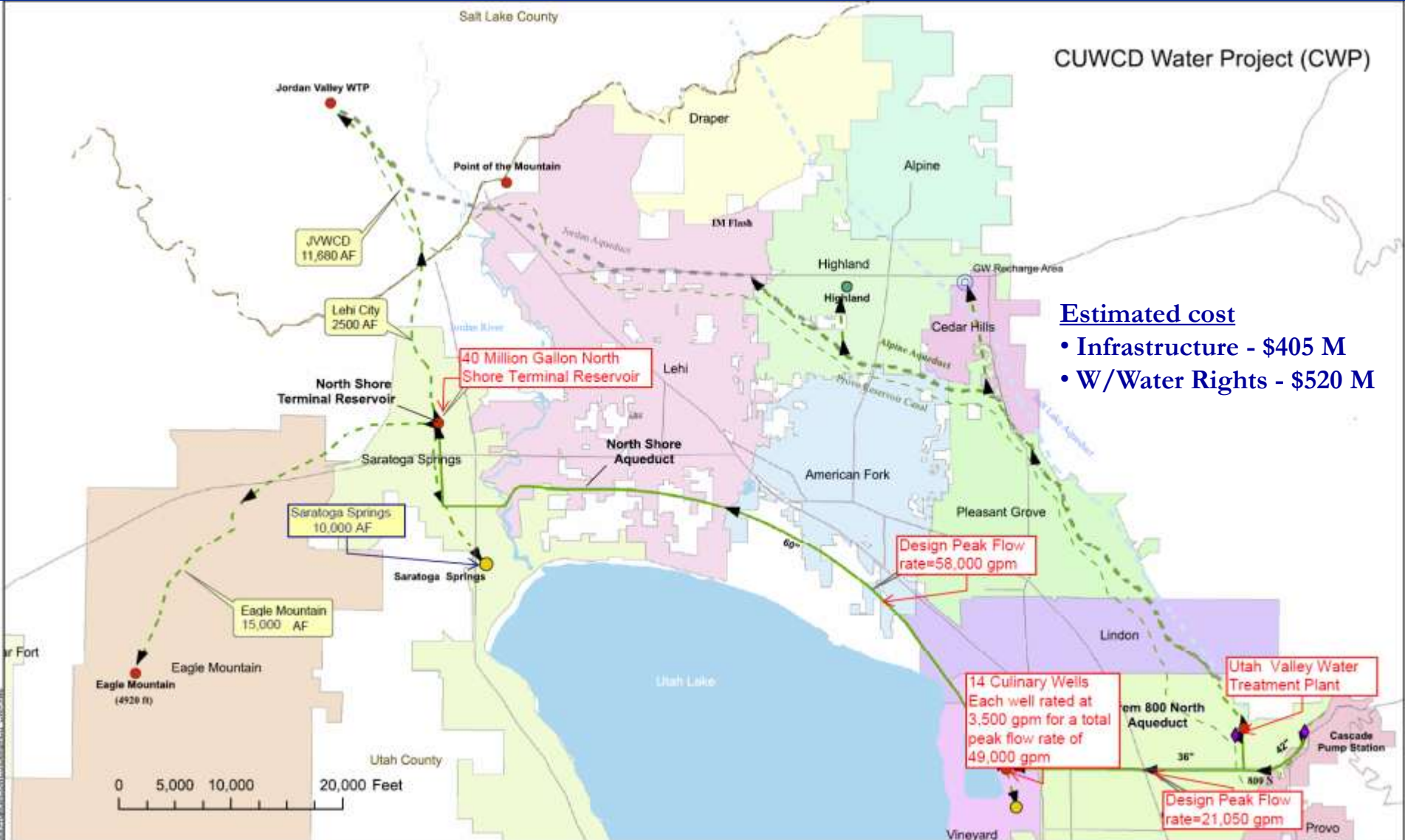
This project is a new aspect of water development for the CUWCD and is called the **C**entral **U**tah Water **C**onservancy **D**istrict **W**ater Development **P**roject—or the **CWP**

CUWCD Water Development Project

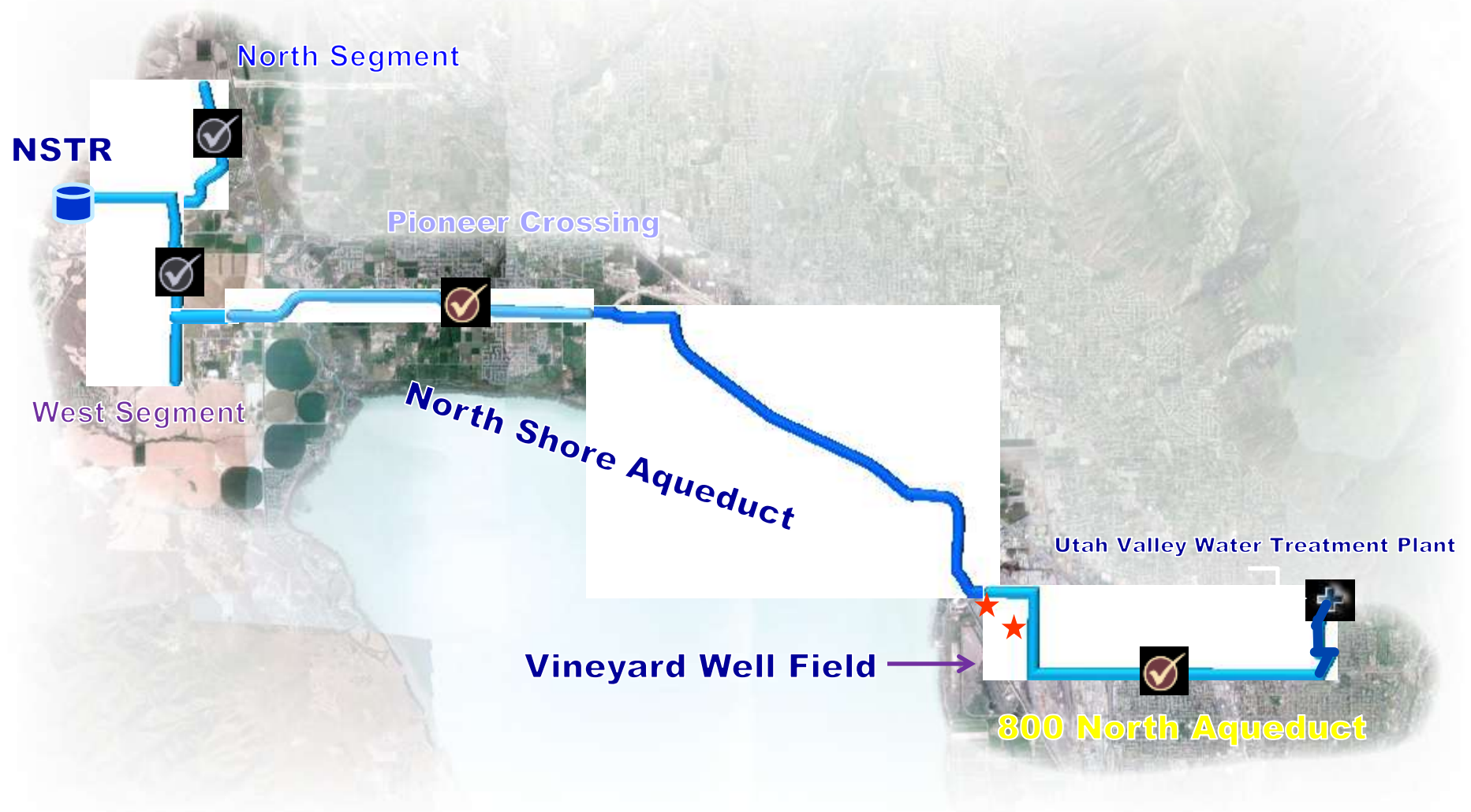
- The objectives of the CWP are to:
 - Identify existing and potential water customers and their future water needs
 - Acquire and develop water rights to help satisfy future water demands
 - Develop and implement a financial plan that will permit construction, operation, and payback of 100% of the cost of the project by CUWCD wholesale customer agencies
 - Design and install the infrastructure necessary to deliver water to identified wholesale customers

CUWCD Water Project (CWP)

- Estimated cost
- Infrastructure - \$405 M
 - W/Water Rights - \$520 M



CWP Overall Map



CWP CHALLENGES

- Funding
- Routing and Design
- Construction



Water Just Comes out of the Tap! Doesn't It?

How does a water utility develop new water sources and fund, design, and construct a large, regional water projects without immediate users to fund initial construction or financing costs?



Financing Challenges

- OPTION 1** - Users pay up front for system and District installs infrastructure now and customer grows into the system capacity.
- District gets reimbursed immediately and Users pay for costs upfront but existing users would have to carry that burden primarily.

Show Me the Money!!



Financing Challenges

OPTION 2 - District pays for and installs infrastructure now and users reimburse District when they need and take water

- Revenue uncertainties and limitations of bonding

Just Build It and They will Come!!



Financing Challenges

- Neither option was feasible for the users or the District
- Option “sharing the risks and costs” was negotiated
- A ‘hybrid’ financial model was necessary to permit development of the project



CWP Finance Keys

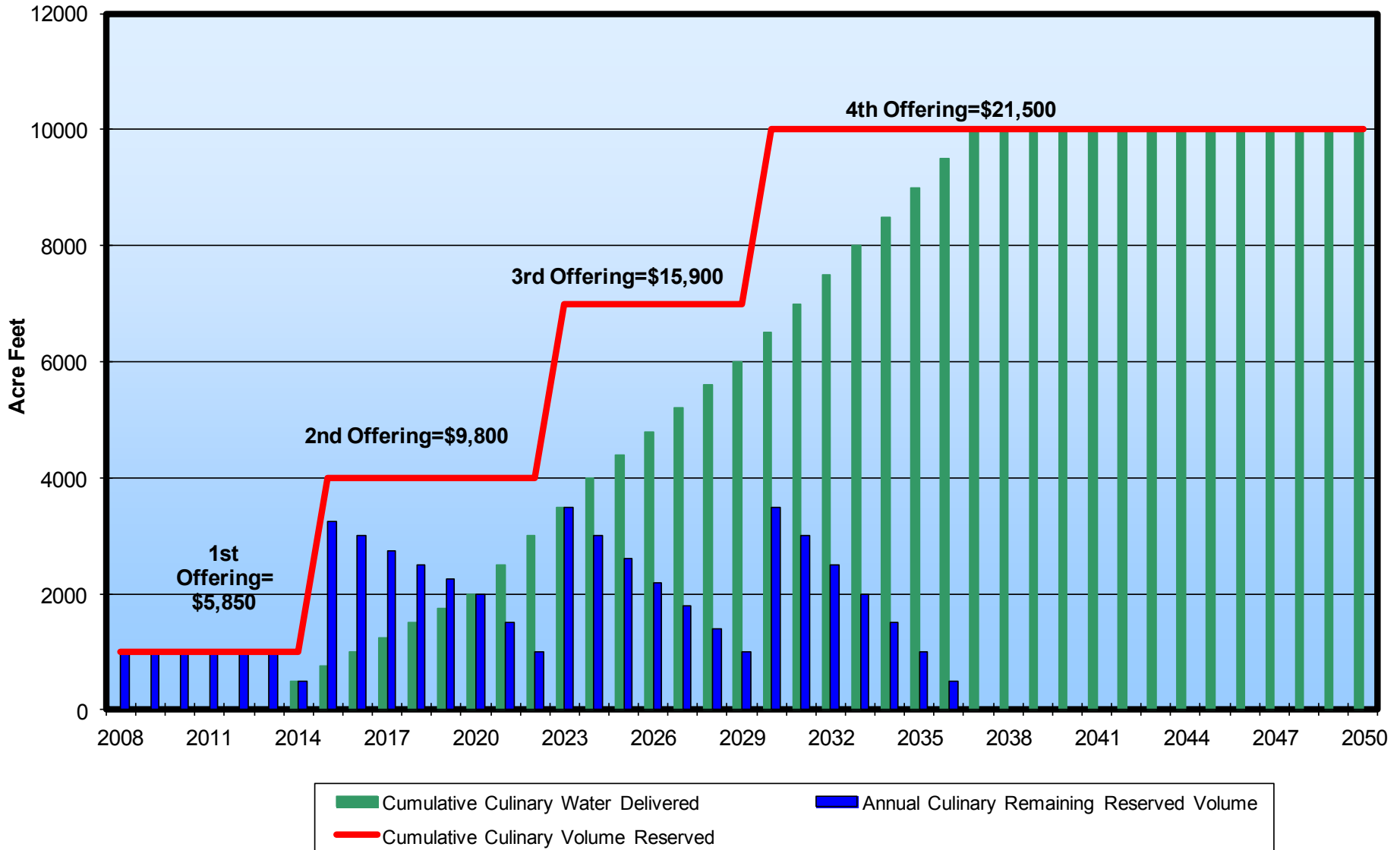
- Structure CWP as a self-sufficient project (No Federal Funds—District and Customers Revenue Only)
 - Need to finance significant capital expenditures before receipt of revenues—thus bonding will be required
 - Execute “take or pay” water supply agreements with users prior to commencement of construction of project
 - Bond for existing capital needs using financial strength of CUWCD and from executed water sales agreements
 - Repay bonds from water sales and operations revenue

CWP Finance Plan Strategy

- Project Financing required the combination of:
 - **Development Fee** (One time Capital Charge to recover % of capital costs)
 - **Reservation Fee** (Reserving water & capacity that has been purchased and/or built but not being used)
 - **Annual Water Fee** (Annual O&M, replacement reserve, remaining debt repayment)



Estimated Culinary Contract Volumes and Deliveries Eagle Springs



**Summary of CWP Water Supply
March, 2012**

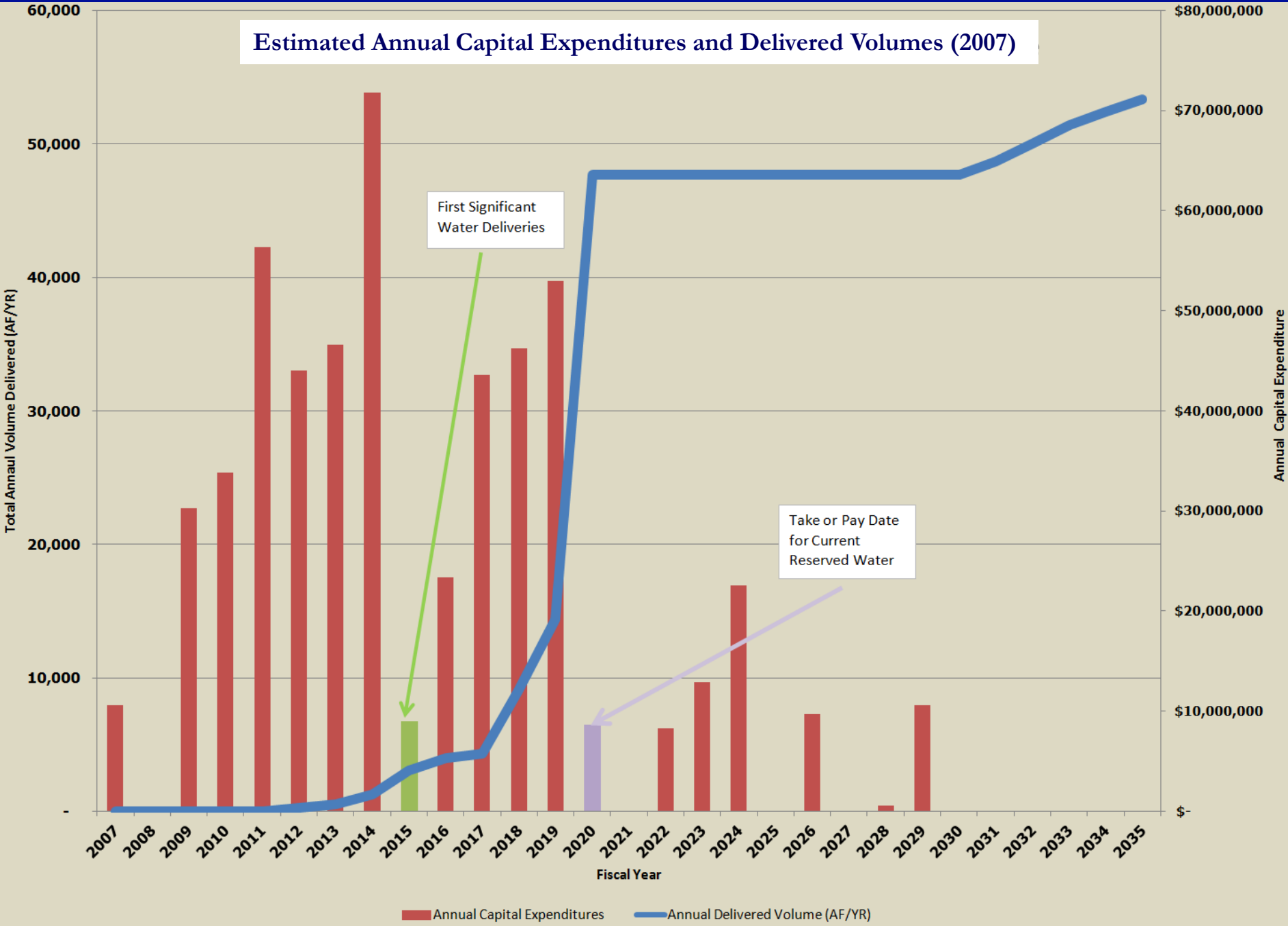
		Acre-Feet	Commencing In	Acre-Feet
II.	Total CWP Infrastructure Water (Culinary Water)			53,312
III.	FY2009 A Water Supply Agreements (September, 2008)			
	Jordan Valley Water Conservancy District	11,680	July, 2014	
	Lehi City	2,500	July, 2019	
	Eagle Mountain City	2,500	July, 2011	
	Sub-total -	16,680		16,680
V.	FY2010 A Water Supply Agreements (October 2009)			
	City of Saratoga Springs	10,000	July, 2019	
	Eagle Mountain City	1,000	July, 2019	
	Eagle Mountain City	11,500	July, 2019	
		22,500		22,500
VI.	FY2010 B Water Supply Agreement (June 2010)			
	Pacificorp	2,840	July, 2015	2,840
V.	FY 2011 A Water Supply Agreement (June, 2011)			
	Town of Vineyard -	70	July, 2011	70
	Remaining CWP Infrastructure Water -			11,222
	Geneva Water Rights Purchase Reservation (AGDI) until 2020 -			7,930
	Remaining CWP Infrastructure Water without reservations -			3,292

Estimated Fee Schedule

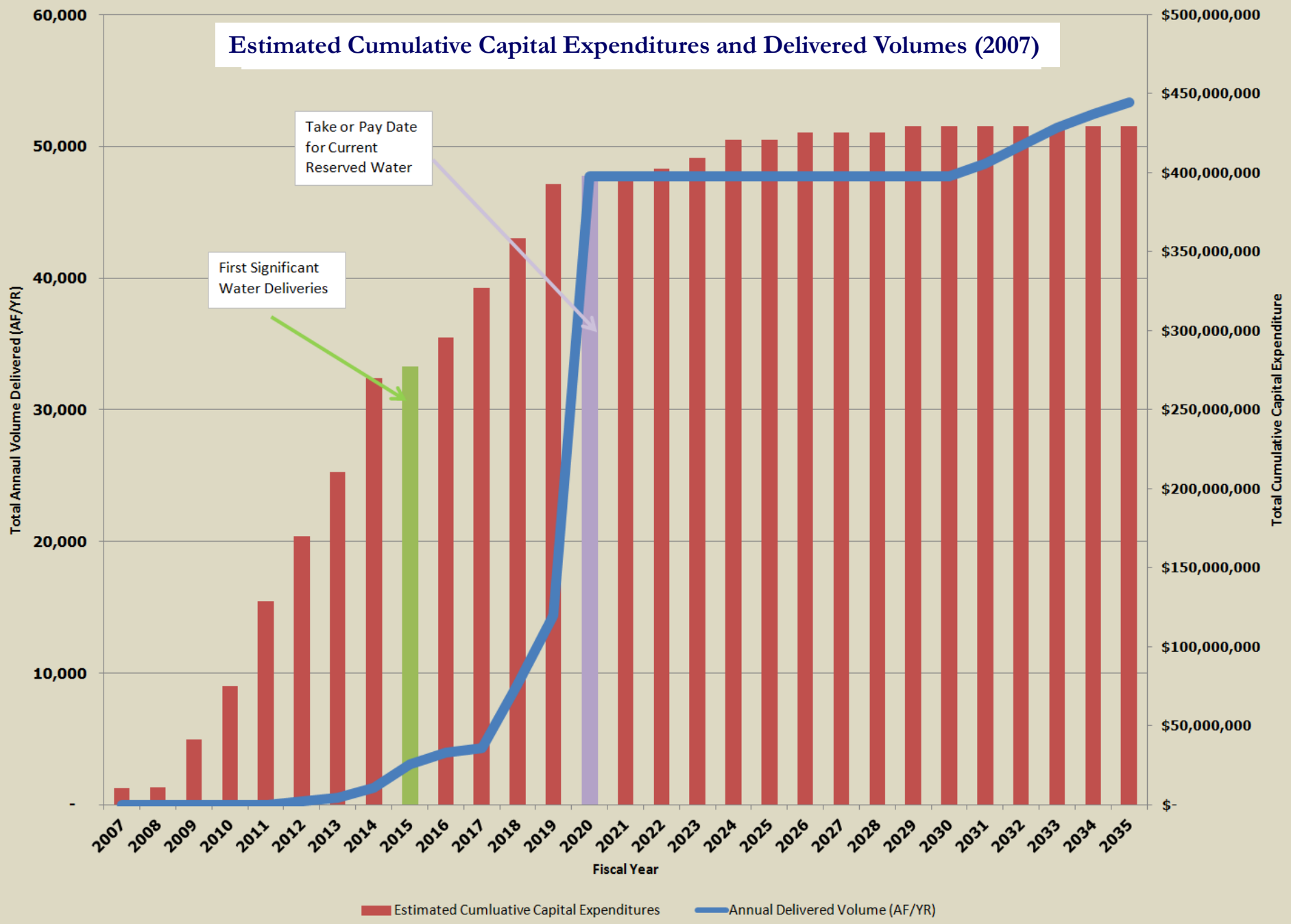
**CWP Actual and Estimated Fees
(Actual Fees Are Shown In Colors)**

Fiscal Year	Development	Annual	Reservation
FY 2008-2009	\$5,850	\$300	\$0
FY 2009-2010	\$6,200	\$314	\$0
FY 2010-2011	\$7,000	\$328	\$250
FY 2011-2012	\$7,800	\$342	\$250
FY 2012-2013	\$8,400	\$358	\$250
FY 2013-2014	\$9,100	\$374	TBD
FY 2014-2015	\$9,800	\$391	TBD
FY 2015-2016	\$10,600	\$408	TBD
FY-2016-2017	\$11,300	\$427	TBD
FY-2017-2018	\$12,000	\$446	TBD
FY-2018-2019	\$12,700	\$466	TBD
FY-2019-2020	\$13,500	\$487	TBD

Estimated Annual Capital Expenditures and Delivered Volumes (2007)



Estimated Cumulative Capital Expenditures and Delivered Volumes (2007)

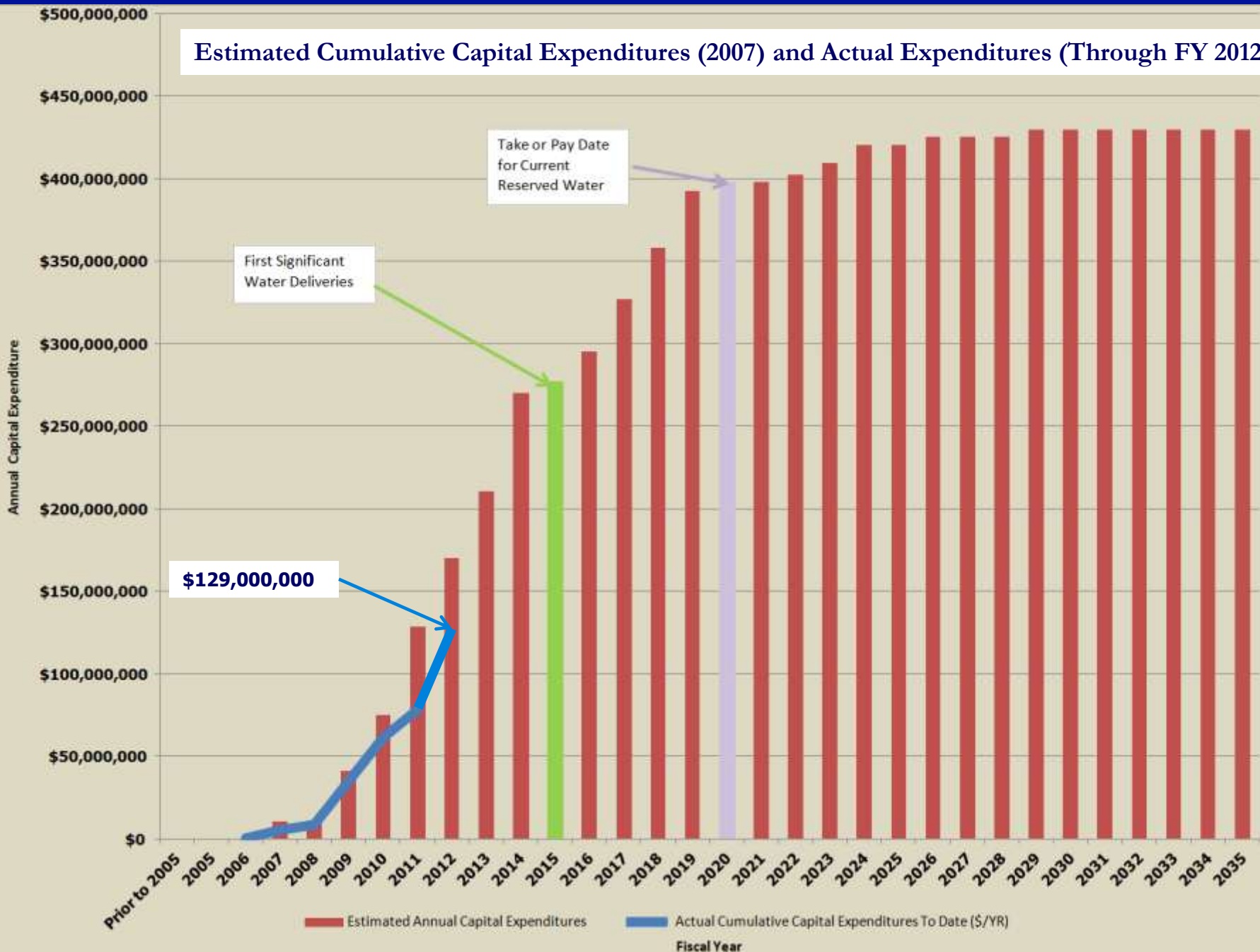


First Significant Water Deliveries

Take or Pay Date for Current Reserved Water

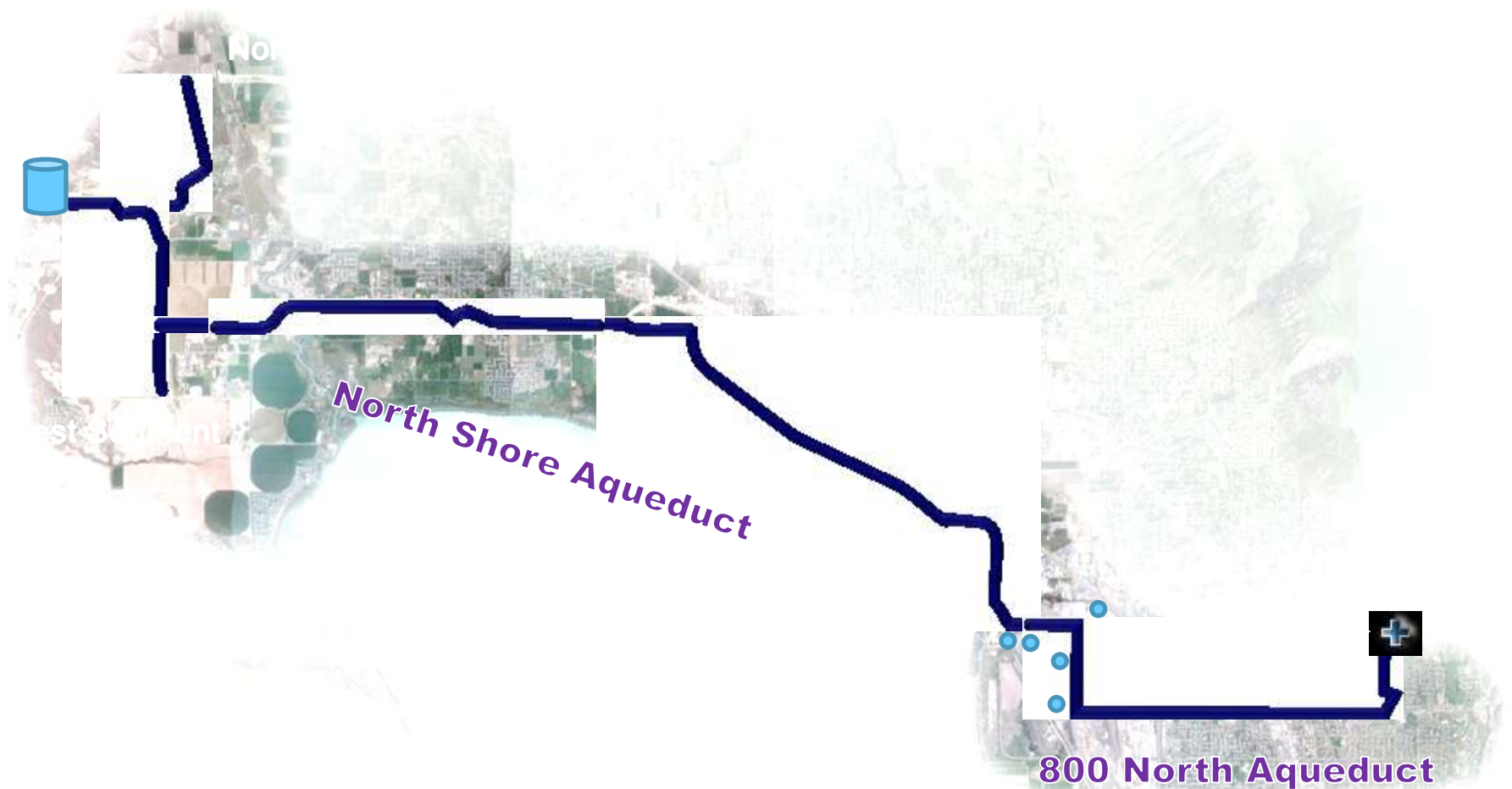
Estimated Cumulative Capital Expenditures Annual Delivered Volume (AF/YR)

Estimated Cumulative Capital Expenditures (2007) and Actual Expenditures (Through FY 2012)



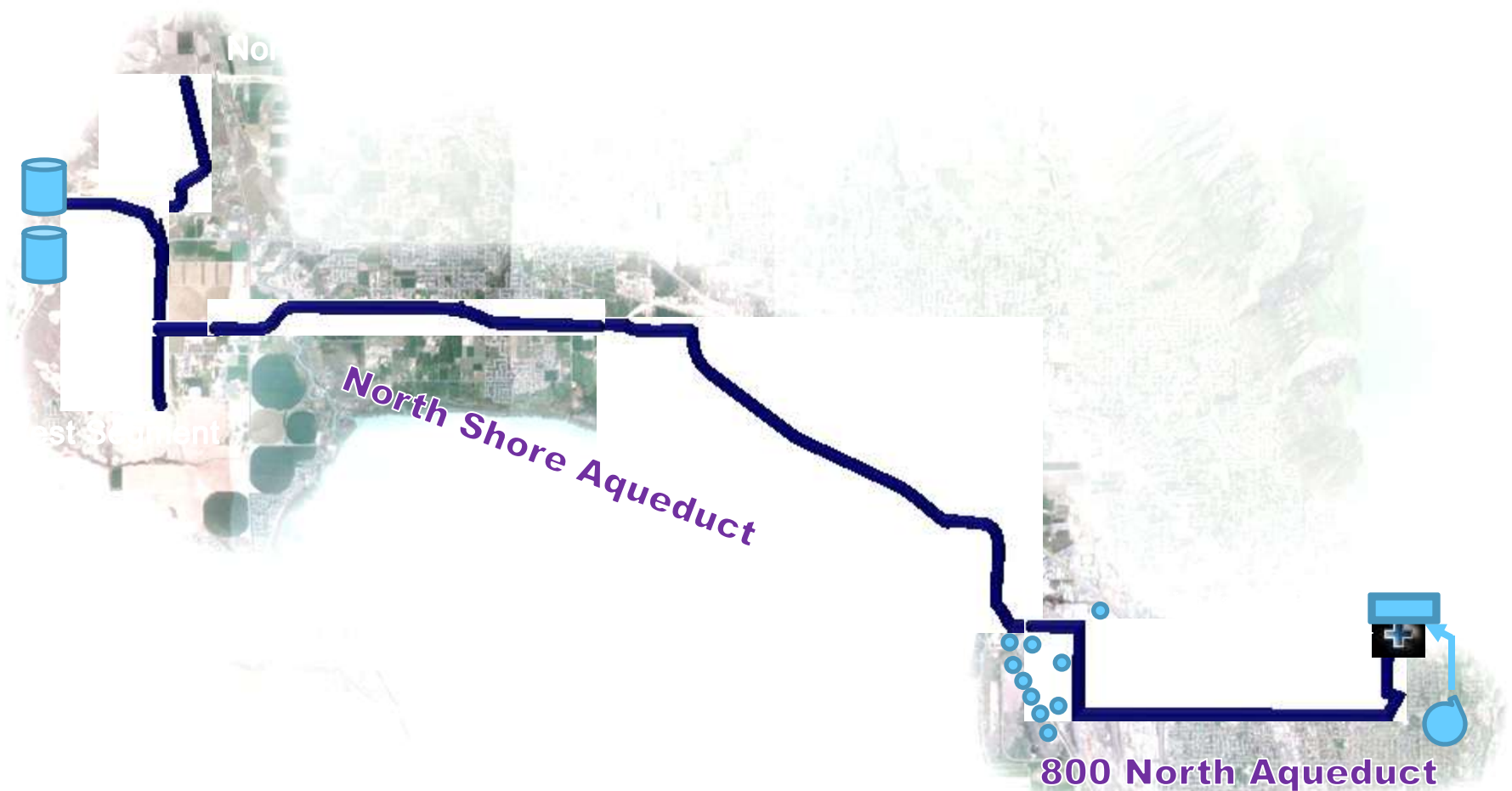
Constructed and Operational By July 2014

- 800 North Aqueduct
- North Shore Aqueduct
- North Shore Terminal Reservoir (Phase 1—10MG)
- High Head Wells 11-15



Constructed and Operational By July 2019

- Additional High Head Wells
- North Shore Terminal Reservoir (Phase 2—15 MG)
- Cascade Raw Water Pump Station and Aqueduct
- Process Improvements at Utah Valley Water Treatment Plant



Summary

- The CWP:
 - Will provide approximately 53,000 AF of high quality culinary water to water deficient areas
 - Has required an innovative and creative method of financing
 - Provides financial and operational flexibility to the purchasers

QUESTIONS?

