Layton City Water Master Plan

City Council Work Meeting Presentation February 19, 2015

Introduction

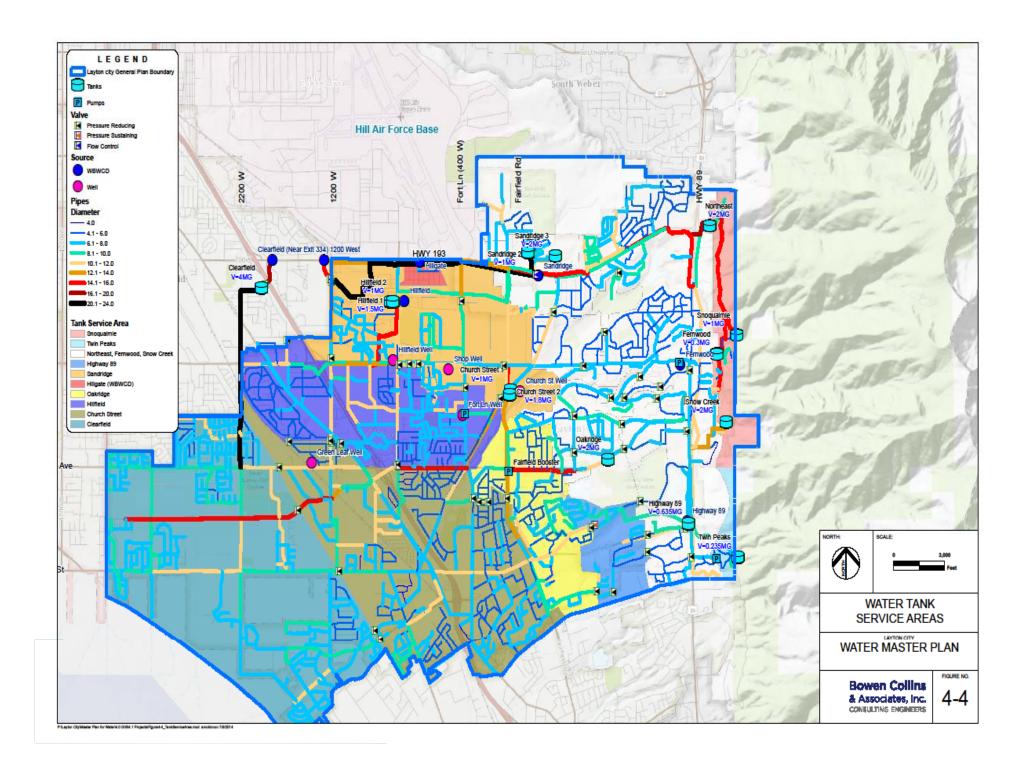
- Importance of Water
- Phased Approach to Water Master Plan Analysis

Goals

- Provide Efficient and Cost Effective Water to Layton City Residents
- Preserve and Maintain the Existing Infrastructure and Resources in Layton City

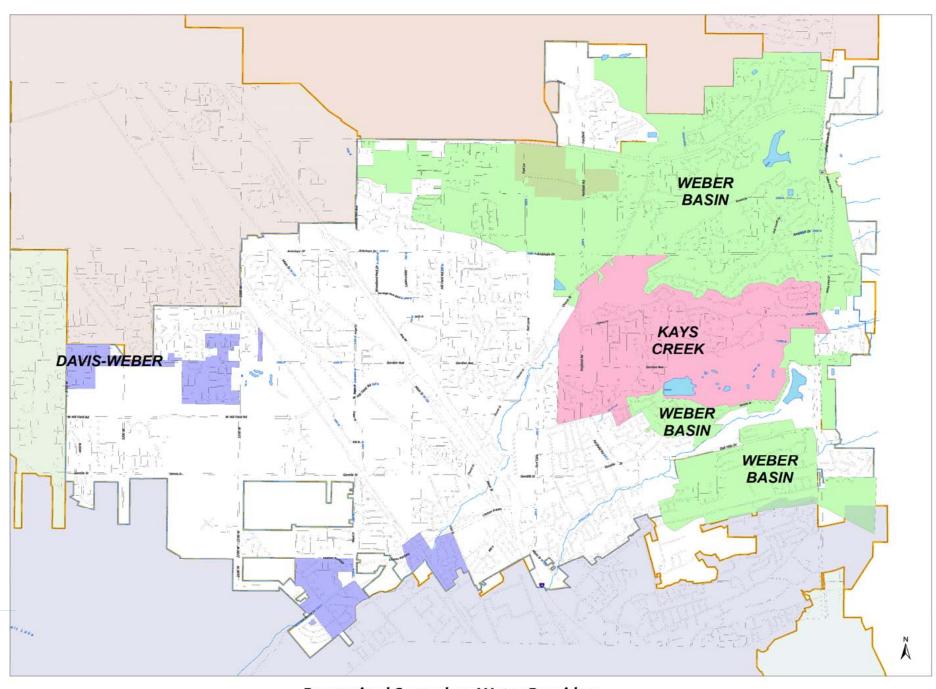
Resources - Capacity

- 2040 Build-Out Demand
 - 24,489 AF (acre-feet), need 8,500 AF
 - 1AF = 325,851 gallons
- Culinary water 15,989 AF
 - Water Rights & Wells 8,000 AF
 - Weber Basin Contract Water 7,989 AF
- Pressurized Secondary Water 7,000 AF
- Non-Pressurized (Agriculture) 15,256 AF



Resources - Capacity

- 2040 Build-Out Demand
 - 24,489 AF (acre-feet), need 8,500 AF
 - 1AF = 325,851 gallons
- Culinary water 15,989 AF
 - Water Rights & Wells 8,000 AF
 - Weber Basin Contract Water 7,989 AF
- Pressurized Secondary Water 7,000 AF
- Non-Pressurized (Agriculture) 15,256 AF



Pressurized Secondary Water Providers

 Option A – Layton City Build Out with Culinary Water (8,500AF) – Limit Secondary Water

 Option B – Layton City Build Out with Culinary and Pressurized Secondary Water Systems (8,500AF)

 Option C – Layton City Provide Culinary Water and Individual Irrigation Companies Provide Pressurized Secondary Water

 Option D – Layton City Provide Culinary Water and Irrigation Companies Consolidate to Provide Pressurized Secondary Water

Option E – Other

Considerations

- Cost to End User
- Cost of Water
- Cost of Infrastructure
- Cost of Operations and Maintenance
- Availability of Water
- Ability to Retain Water

Considerations

- Autonomy
- Customer Service Level
- Operational Service Level
- Capacity of Provider
- Design and Construction Standards
- Conservation

Considerations

Other considerations for evaluation?

Consideration Definitions

Cost to End User	Cost the end user will pay
Cost of Water	Cost to acquire water
Cost of Infrastructure	Cost of improvements and facilities to deliver water
Cost of Operations & Maintenance	Cost of labor, equipment, supplies and utilities
Availability of Water	Availability of adequate water rights
Ability to Retain Water	Ability to perpetually protect water
Autonomy	Ability of City to control and protect water resources and infrastructure
Customer Service Level	Ability of provider to deliver appropriate customer service level
Operational Service Level	Ability of provider to deliver appropriate operational service level
Capacity of Provider	Strength of organizational, operational, and financial structure to provide service
Design & Construction Standards	Providers ability to establish and adhere to design and construction standards
Conservation	Promote wise use of water resources

Considerations Score Card

- Option A Layton City Build Out with Culinary Water (8,500AF) Limit Secondary Water
- Option B Layton City Build Out with Culinary and Pressurized Secondary Water Systems (8,500AF)
- Option C Layton City Provide Culinary Water and Individual Irrigation Companies Provide Pressurized Secondary Water
- Option D Layton City Provide Culinary Water and Irrigation Companies Consolidate to Provide Pressurized Secondary Water
- Option E Other

Description	Option A	Option B	Option C	Option D	Option E
Cost to End User					
Cost of Water					
Cost of Infrastructure					
Cost of Operations & Maintenance					
Availability of Water					
Ability to Retain Water					
Autonomy					
Customer Service Level					
Operational Service Level					
Capacity of Provider					
Design & Construction Standards					
Conservation					

	Positive
Considerations	Neutral
	Negative