## Backbone Pipeline Update

BOARD OF DIRECTORS 8/7/2023











**BACKGROUND** 

FEASIBILITY STUDY RECOMMENDED PROJECT

**COSTS** 

**NEXT STEPS** 







FEASIBILITY STUDY



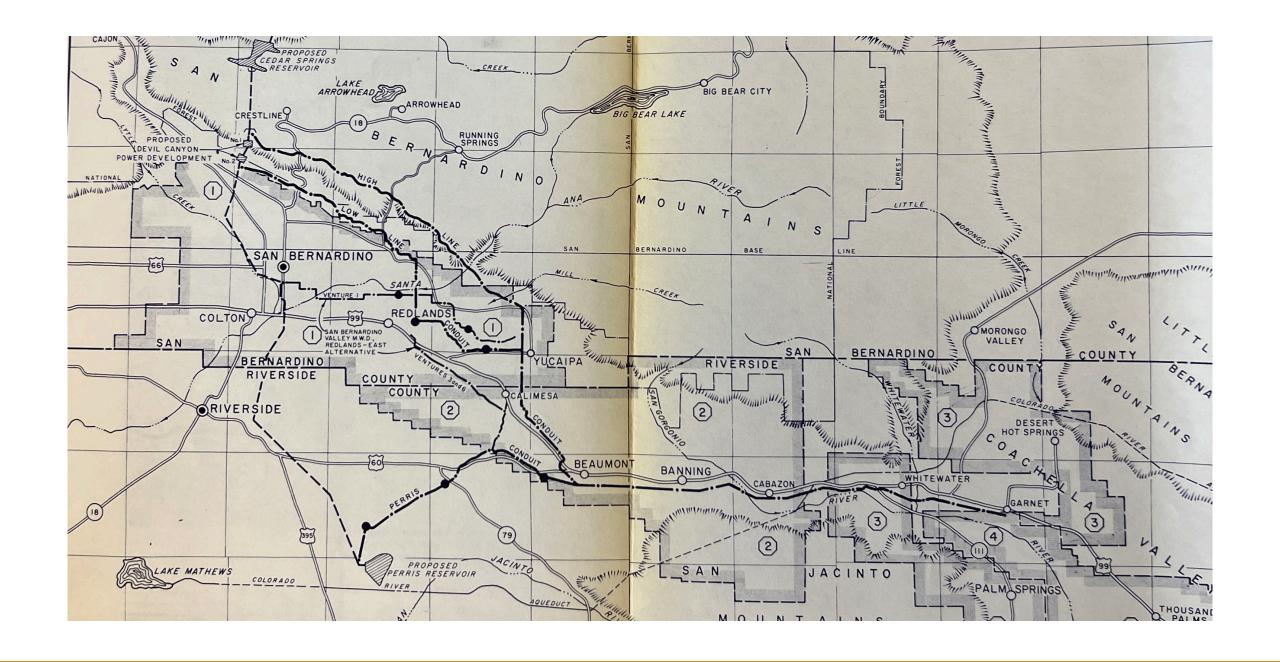
RECOMMENDED PROJECT

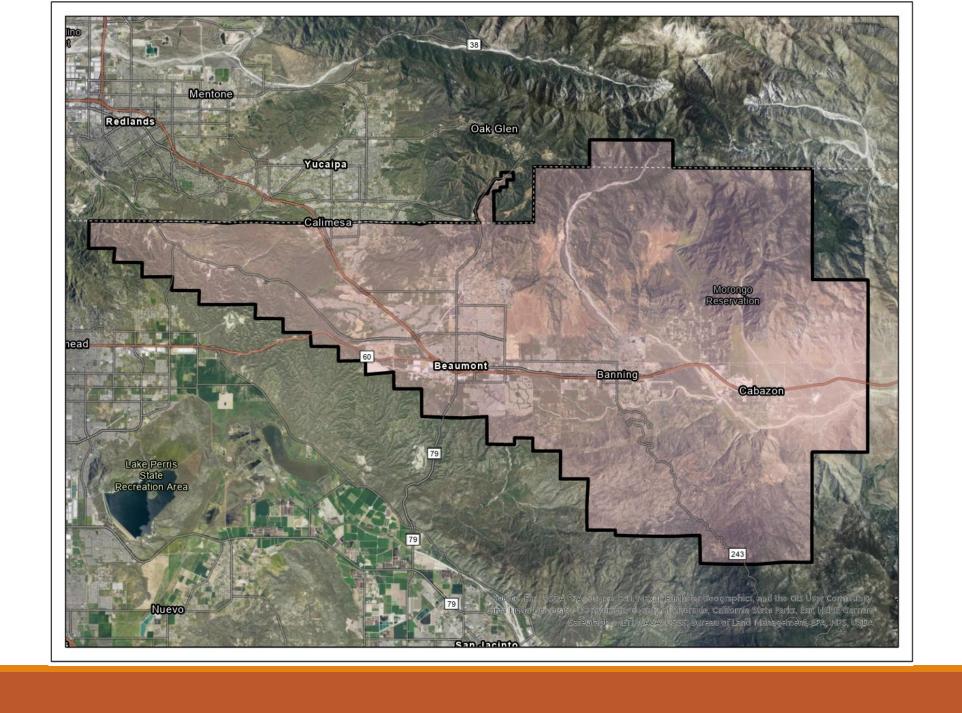


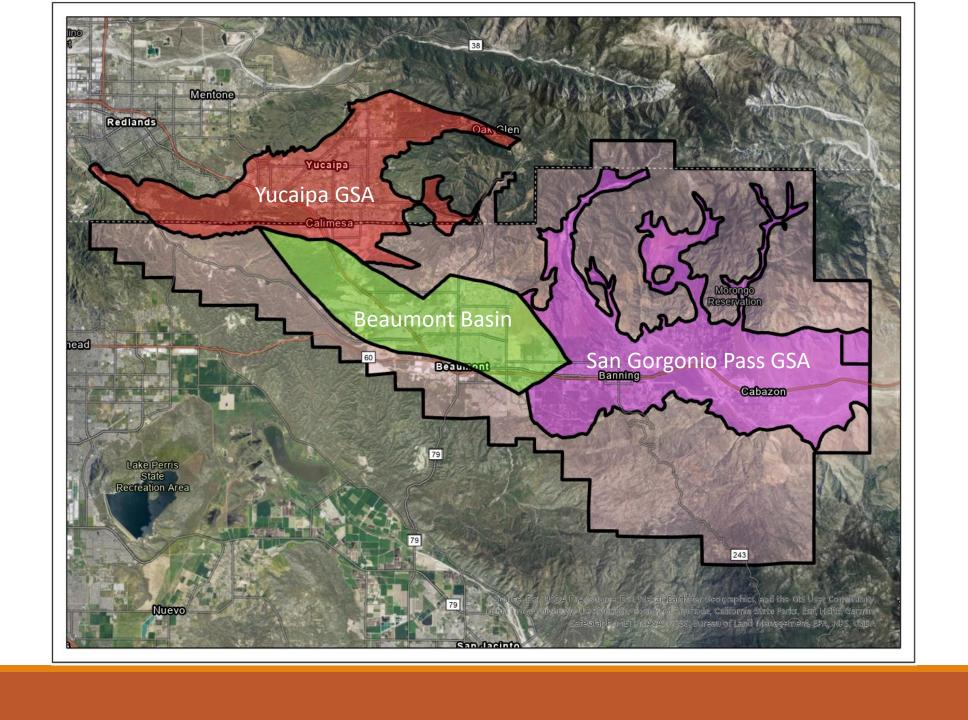
COSTS

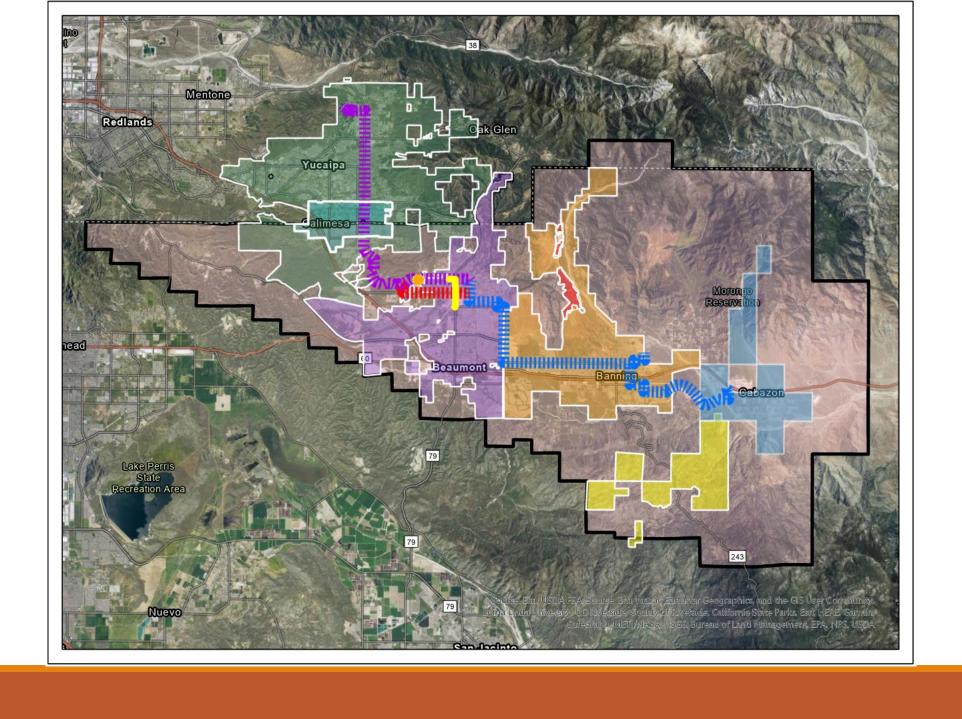


**NEXT STEPS** 















FEASIBILITY STUDY



RECOMMENDED PROJECT



COSTS

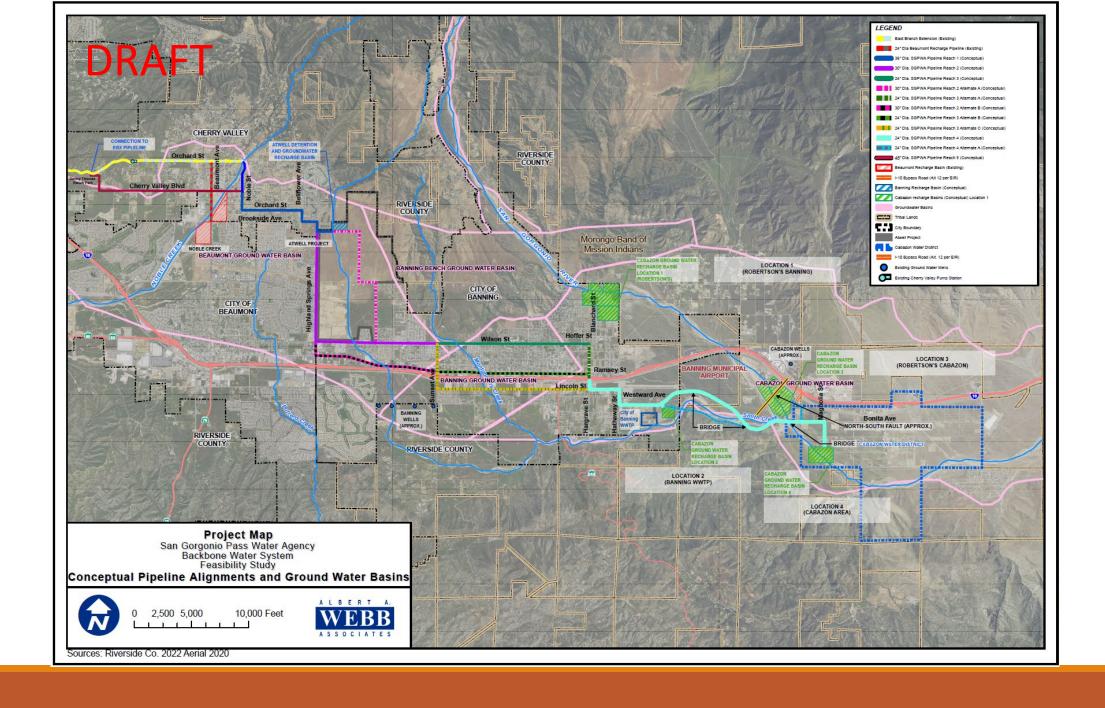


**NEXT STEPS** 

# SGPWA commissioned a backbone feasibility study that included:

- Groundwater modeling
- Water supply and demand assessment
- Recharge facility siting
- Pipeline alignment study
- Underground utility conflict evaluation
- Right of way and easement evaluation

- Hydraulic analyses
- Pipeline material and appurtenances evaluation
- Cherry Valley Pump Station bypass pipeline analysis
- Environmental constraints analyses
- Jurisdiction and permitting evaluation
- Cost estimations









FEASIBILITY STUDY



RECOMMENDED PROJECT



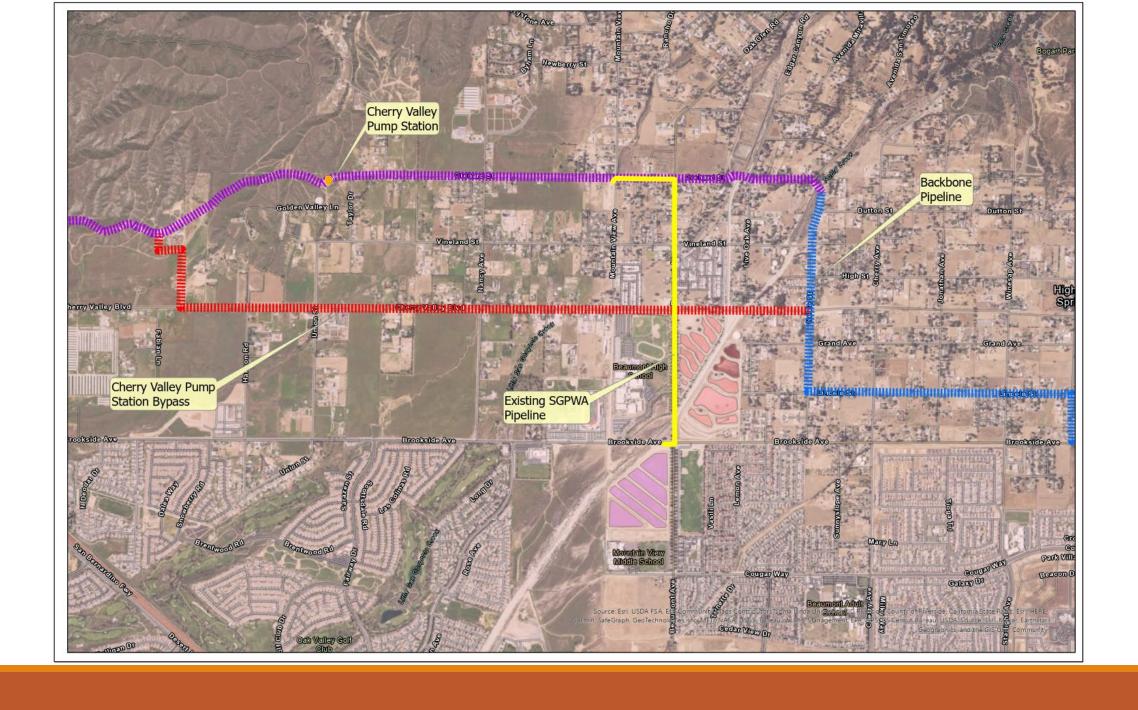
COSTS

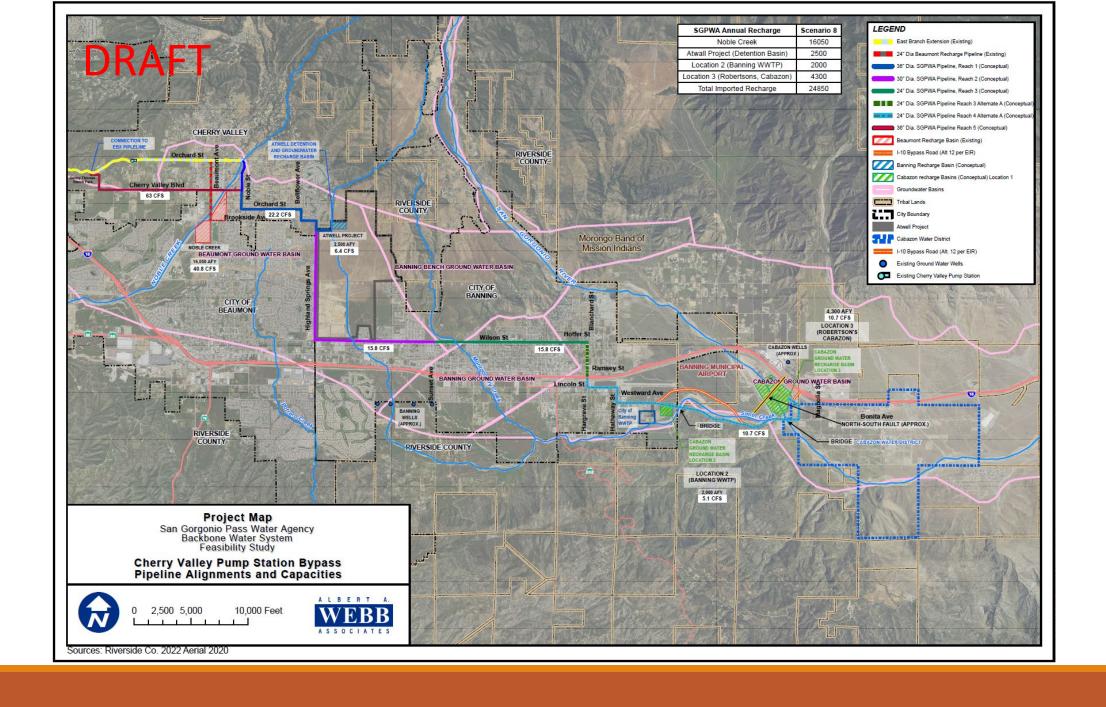


**NEXT STEPS** 

## The recommended project includes:

- Recharge facility locations in north-east Beaumont, Banning, and Cabazon
- Backbone Pipeline alignment of approximately 17 miles of 48, 36, 30, and 24 inch diameter pipe
- The Cherry Valley Pump Station bypass
- Ultimate conveyance capacity up to 64 CFS











FEASIBILITY STUDY



RECOMMENDED PROJECT



COSTS



**NEXT STEPS** 

# The Backbone Pipeline would be constructed in phases

DRAFT Backbone Pipeline Construction Costs		
	<b>Estimated Construction Cost</b>	<b>Total Estimated Project Cost</b>
North-East Beaumont Recharge Basin Development	\$6,040,000	\$8,456,000
Banning Recharge Development	\$6,040,000	\$8,456,000
Cabazon Recharge Development	\$3,660,000	\$5,120,000
Backbone Pipeline Construction	\$71,197,500	\$99,680,000
CVPS Bypass Pipeline	\$19,010,000	\$26,100,000
Pressure Reducing Facilities	\$1,300,000	\$1,820,000
Ultimate Buildout Cost	\$107,247,500	\$149,632,000
Notes:		
1. Total estimated project cost includes a 1.4 multiplier on the construction cost estimates in order to include construction		
costs, contingencies, design engineering, environemntal, design and construction surveying, geotecnhical services, contract		
administration, and field inspections		
<ul><li>2. Cost estimates are Class 3 estimates (budget level) and would be in the range of -15% to +20%</li><li>3. Cost estimates assume a 10-year construction timeline</li></ul>		







FEASIBILITY STUDY



RECOMMENDED PROJECT



COSTS



**NEXT STEPS** 

## The next steps include

- Financial analysis
- Reaching out to participating Agencies
- Site acquisitions
- Crossings and alignment permitting
- Right of way acquisitions
- Geotechnical investigations

- Soil corrosivity evaluations
- Surveying
- Potholing and utility location confirmations
- Preliminary design phase
- Environmental document preparation
- Staffing needs evaluation

## Questions?