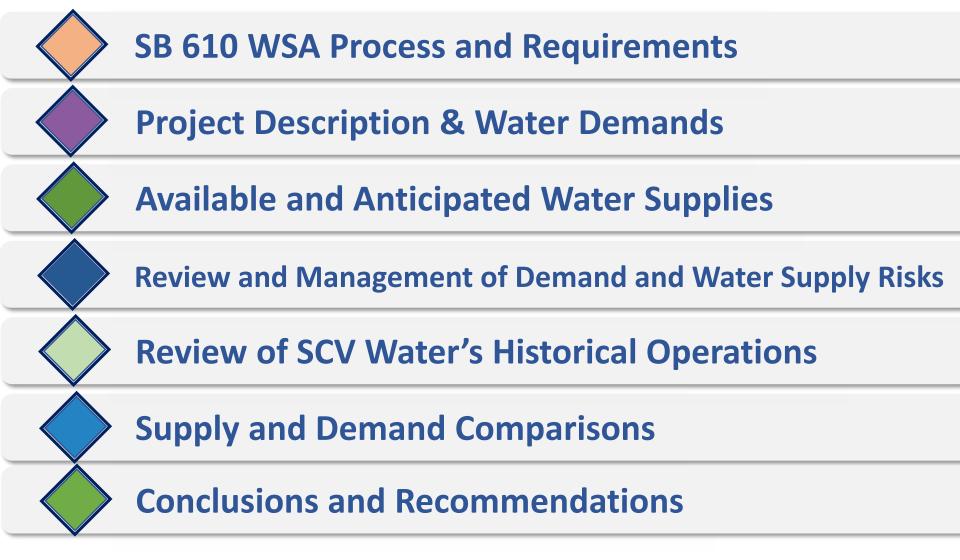


Wiley Canyon Mixed-Use Development Water Supply Assessment

Water Resources and Watershed Committee Meeting June 8, 2022 Item 3 Rick Vasilopulos



Presentation Outline





The Water Supply Assessment

- The WSA statute is intended to better link land use decision-making and water supply availability
- Unlike UWMPs, WSAs are project-specific analyses that are required when a city or county lead agency determines the project is subject to CEQA
- WSAs must determine whether projected supplies will be available during normal, single-dry, and multiple dry years to meet the demand of the project as well as existing and planned future uses over 20-year planning horizon
- Projected supplies can include future planned supplies
- Water supplier's Board of Directors are <u>required</u> to adopt a WSA
- If the water supplier concludes that water supplies are, or will be, insufficient, the water supplier "... shall provide to the City or County its plans for acquiring additional water supplies"
- An adopted WSA is not subject to direct legal challenge and can only be challenged as part of a CEQA action against the lead agency



SB 610 Water Supply Assessment Process

Project application sent to Lead Agency who determines whether the project is subject to CEQA and SB 610 requirements Lead Agency contacts the Project's service area water supplier and the supplier must prepare the WSA within 90 days, but can request extension Water supplier prepares analysis of the Project's water demands and compiles a supportive record using the most recent Urban Water Management Plan Water Supplier's Board of Directors determines if supplies are sufficient for the proposed Project and sends Assessment with findings to the Lead Agency



Wiley Canyon Project Description

- The Project is within SCV Water's service area.
- The Project consists of:
 - 379 apartment units within 13 buildings
 - 32 studio apartments
 - 149 one-bedroom units
 - 174 two-bedroom units
 - 24 three-bedroom units
 - 217 Unit senior living facility
 - 12,400 square feet of commercial/recreation facilities



Project Location



The Wiley Canyon Mixed-Use Development is located on the east side of The 5 Freeway between Hawkbryn Avenue and Calgrove Blvd



SB 610 Requirement:

Wiley Canyon Mixed-Use Development - Demand Assessment Analysis

WATER DEMAND ESTIMATE								
WILEY CANYON MIXED-USE DEVELOPMENT								
Unit	# of units	Unit Type	Demand (AFY)					
Apartments	379	Dwelling Unit	52.2					
Senior Living	217	Dwelling Unit	23.6					
Open Space	5.89	Acres	19.2					
Landscape Irrigation	5.38	Acres	17.9					
Recreation Center	3.5	TSF	1.1					
Commercial Development	8.9	TSF	2.7					
	Тс	otal Average Year Demands (AFY)	117					
a factor	Projecte	d Single Dry Year Demands (AFY)	124					

Projected Multiple Dry Year Demands (AFY)

Note: Totals reflect additional overwatering factor of 26.5% for residential and 25.6% for commercial uses and 3.77% climate change factor



119

Water Supply Approach

- Project's WSA relies on current and future SCVWA water supply portfolio
- The WSA references the supply portfolio as described in the 2020 UWMP with modifications due to:
 - DWR's December 2021 Draft Delivery Capability Report
 - Modified schedules for the recovery of impacted well capacity due to PFAS, VOC and Perchlorate contamination



2021 SWP Delivery Capability Report

- Draft Report Issued December 31, 2021
- Uses Updated Model (CALSIM3) with longer hydrologic record
- Draft Report indicated reduction of average reliability from 58% to 56% and single dry-year from 7% to 5%
- Analysis was updated using currently available data
 - Resulted in minor modifications to reliability tables



Modified Schedule Well Restoration

- Saugus Well 201
 - On-line date deferred from 2022 to 2024
 - Accommodated installation and permitting for additional VOC treatment
- Saugus Well 205
 - On-line date deferred from 2022 to 2024
 - Currently in design for Perchlorate & VOC treatments
- PFAS impacted Alluvial Wells
 - Well supply of 15,270 AFY to return by 2025
 - Additional Well supply of 6,420 AFY to return by 2030
 - Resulted in minor modifications to reliability tables



Current Supply Portfolio

Current Supply	Amount (AFY)		
SWP Table A Amount (single dry - normal)	4,760-53,300		
Groundwater			
Alluvium	15,000-16,000		
Saugus	7,500-15,000		
Groundwater Banking Programs			
Semitropic	5,000		
Rosedale-Rio Bravo	10,000		
Transfers & Exchanges			
AVEK - 2 for 1 Exchange	2,350		
UWCD - 2 for 1 Exchange	500		
BV-RRB Transfer Agreement	11,000		
Yuba Accord Water	1,000		
Recycled Water	450		



Future & Proposed Supplies

Planned Supplies	Amount (AFY)	Proposed On- Line Date					
Future and Recovered Groundwater							
Saugus Wells 201 & 205	5,210	2025					
Saugus Wells 3 & 4	8,060	2025					
Saugus Wells 5 & 6	6,460	2027					
Saugus Wells 7 & 8	6,460	2030					
Recovered Alluvial Wells	21,690	2030					
Recycled Water							
Phase 2 Projects	2,440	2023					
FivePoint Westside Communities	5,174	2021-2043					
Banking Programs							
Rosedale-RB Additional Extraction	10,000	2030					
Semitropic - NLF	4,950	2035					
Nickel Water - NLF	1,607	2035					



Groundwater Quality

- Groundwater Quality Issues
 - Restoration of PFAS impacted wells
 - Restoration of perchlorate impacted wells
 - Permitting of additional Saugus wells
- Approach consistent with 2020 UWMP
 - Historical and Current Conditions Assessed
 - Treatment methods and scheduling identified
 - Permitting path documented



Climate Change

- Restructured UWMP Information to provide additional text in main report.
- Water Demand anticipated to increase by 3.77% by 2050 consistent with DWR's SGMA approach.
- Groundwater supplies are based on modeling that incorporated the DWR's same SGMA approach
- SWP Reliability 2019 Delivery Capability Report (DCR)
 - Incorporates a sea level rise of 45 cm

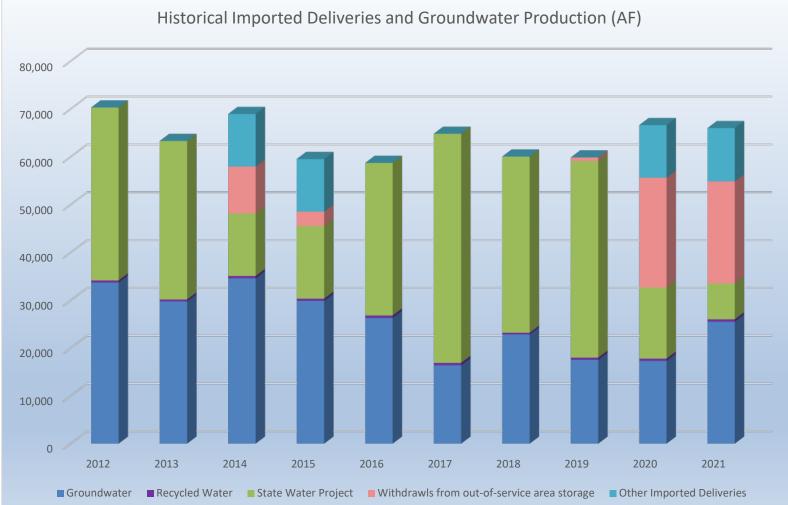


Pending Water Conservation Regulations

- Potential reduction of Indoor water use to 42 gpcd
- Potential regulation to mandate irrigation water efficiency
 - Irrigation efficiencies gains would offset reduced recycled water availability



SB 610 Requirement: Assessment of Recent Operations



Conclusion: SCV Water demonstrated an ability to conjunctively use its imported surface water and groundwater along with recycled water and conservation to meet water demands facing the dual challenges of severe drought and restricted groundwater supplies.



SB 610 Requirement

Water Balance Analysis Performed for:

- Normal
- Single Dry-Year
- **Multiple Dry-Years**

		2025	2030	2035	2040	2045	2050
xisting Supplies							
Existing Groundwater ^(a)							
Alluvial Aquifer		8,900	8,180	7,300	7,300	7,300	7,3
Saugus Formation		14,440	7,110	7,110	7,110	7,110	7,2
Total G	Groundwater	23,340	15,290	14,410	14,410	14,410	14,4
Recycled Water ^(b)							
То	tal Recycled	450	450	450	450	450	
Imported Water							
State Water Project ^(c)		52,360	51,410	50,460	49,500	49,500	49,
Flexible Storage Accounts ^(d)							
Buena Vista-Rosedale		11,000	11,000	11,000	11,000	11,000	11,0
Nickel Water - Newhall Land ^(e)		-	-	1,607	1,607	1,607	1,6
Yuba Accord Water ^(f)		1,000	-	-	-	-	
Το	tal Imported	64,360	62,410	63,067	62,107	62,107	62 ,7
Existing Banking and Exchange Programs ^(g)							
Rosedale Rio-Bravo Bank ^(g)		-	-	-	-	-	
Semitropic Bank ^(g)		-	-	-	-	-	
Semitropic – Newhall Land Bank ^(g)		-	-	-	-	-	
Antelope Valley West Kern Water Agency Exchange ^(g)		-	-	-	-	-	
United Water Conservation District Exchange ^(g)		-	-	-	-	-	
Total Ban	k/Exchange	0	0	0	0	0	
Total Existi	ng Supplies	88,150	78,150	77,927	76,967	76,967	76,9
Planned Supplies							
Future and Recovered Groundwater ^(h)							
Alluvial Aquifer ⁽ⁱ⁾		10,340	19,870	23,490	23,490	23,490	23,4
Saugus Formation ⁽⁾		3,010	2,790	2,790	2,790	2,790	2,
Total G	Groundwater	13,350	22,660	26,280	26,280	26,280	26,2
Recycled Water ^(k)							
Το	tal Recycled	1,849	3,696	5,091	6,498	7,499	8,
lanned Banking Programs							
Rosedale Rio-Bravo Bank ^{(h)(l)}		-	-	-	-	-	
Τι	otal Banking	0	0	0	0	0	
otal Planned Supplies		15,199	26,356	31,371	32,778	33,779	34,
otal Supplies (Existing and Planned) ^(m)		103,349	104,506	109,298	109,745	110,746	111,
Demands ⁽ⁿ⁾							
Demands with passive conservation ⁽ⁿ⁾		82,100	89,300	97,600	104,300	109,600	115,
Demands with passive and active conservation ⁽ⁿ⁾		76,400	81,700	88,700	93,600	97,500	101.0

SB 610 Requirement: Supply exceeds Demand

	SUPPLY AND DEMAND COMPARISON with the Entrada South/Valencia Commerce Center Project									
Year	Normal Year Supply (AF)	Normal Year Demand (AF) with Project	Remaining Balance (AF)	Single-Dry Year Supply (AF)	Single-Dry Year Demand (AF) with Project	Remaining Balance (AF)	5-Year Dry Period Supply (AF)	5-Year Dry Period Demand (AF) with Project	Remaining Balance (AF)	
2025	103,349	76,400	26,949	83,419	81,000	2,419	101,303	77,830	23,473	
2030	104,506	81,700	22,806	106,736	86,600	20,136	114,033	83,620	30,413	
2035	109,298	88,700	20,598	117,428	94,000	23,428	125,559	90,570	34,989	
2040	109,745	93,600	16,145	118,835	99,200	19,635	130,085	95,780	34,305	
2045	110,746	97,500	13,246	119,836	103,400	16,436	131,015	99,670	31,345	
2050	111,758	101,000	10,758	120,848	107,100	13,748	128,715	102,870	25,845	

Conclusion: Water Supply is sufficient to meet projected demands in normal, multi dry-years and single dry-years throughout the study period



Conclusion:

- Staff has evaluated the long-term water demands and has compared these needs against existing and planned water supplies.
- Demand projections were based on:
 - Population projections
 - County and City land use plans
 - Both active and passive conservation
 - Climate change impacts
- The WSA concluded that the total projected water supplies over the 30-year projection period will be sufficient to meet the projected demands associated with the proposed Wiley Canyon Mixed-Use Development as well as existing and planned future uses.



Recommendation

Staff recommends that the Water Resources and Watershed Committee recommend that the Board of Directors of the Santa Clarita Valley Water Agency adopt a resolution approving the SB 610 Water Supply Assessment for the Wiley Canyon Mixed-Use Development and direct staff to submit the WSA to the City of Santa Clarita.





Questions?

