



SCV
WATER

Public Hearing Continuation

2020 Urban Water Management Plan
Addendum to 2015 Urban Water Management Plan
June 16, 2021



Overview - Part 2

- Project Timeline
- Address additional comments/concerns
- Updates to draft plan
- Adopt draft 2020 UWMP
- Adopt Addendum to the 2015 UWMP



Public Involvement Throughout Process

TIMELINE & MILESTONES:



*Legal Requirements- Make plan available for public inspection prior to adoption after a noticed public hearing.



Public Involvement in Plan Development

Workshop #1

- What is an UWMP
- Water Supply Characteristics
- Climate Change
- Upcoming Involvement Opportunities



Workshop #2

- UWMP Compliance with Water Use Reduction Targets
- Demand and Conservation Analysis
- Drought Risk Assessment



Workshop #3

- Reliability Tables
- Reliability Analysis
- Seismic Risk Analysis and Mitigation Plan



UWMP Adoption Process and Timeline

COMPLETED

- **May 27th Public Hearing**
 - 2020 Urban Water Management Plan (UWMP) Part 1
 - 2015 Addendum
- **June 9th Public Hearing**
 - Water Shortage Contingency Plan (WSCP) – ADOPTED
 - Water Shortage Ordinance – continued to June 16th*



June 16th Public Hearing (Continued)

- UWMP and 2015 Addendum – Part 2
 - Adoption of UWMP
 - Adoption of 2015 Addendum



July 1st

- Submit Adopted UWMP, WSCP and 2015 Addendum to DWR

* Not included in UWMP



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Comments and Responses

Public Comments and Responses

May 27, 2021 - Part 1 Public Hearing

- Addressed:
 - Written comments received by May 27th
 - Relevant UWMP focused WSCP comments

June 16, 2021 - Part 2 Public Hearing

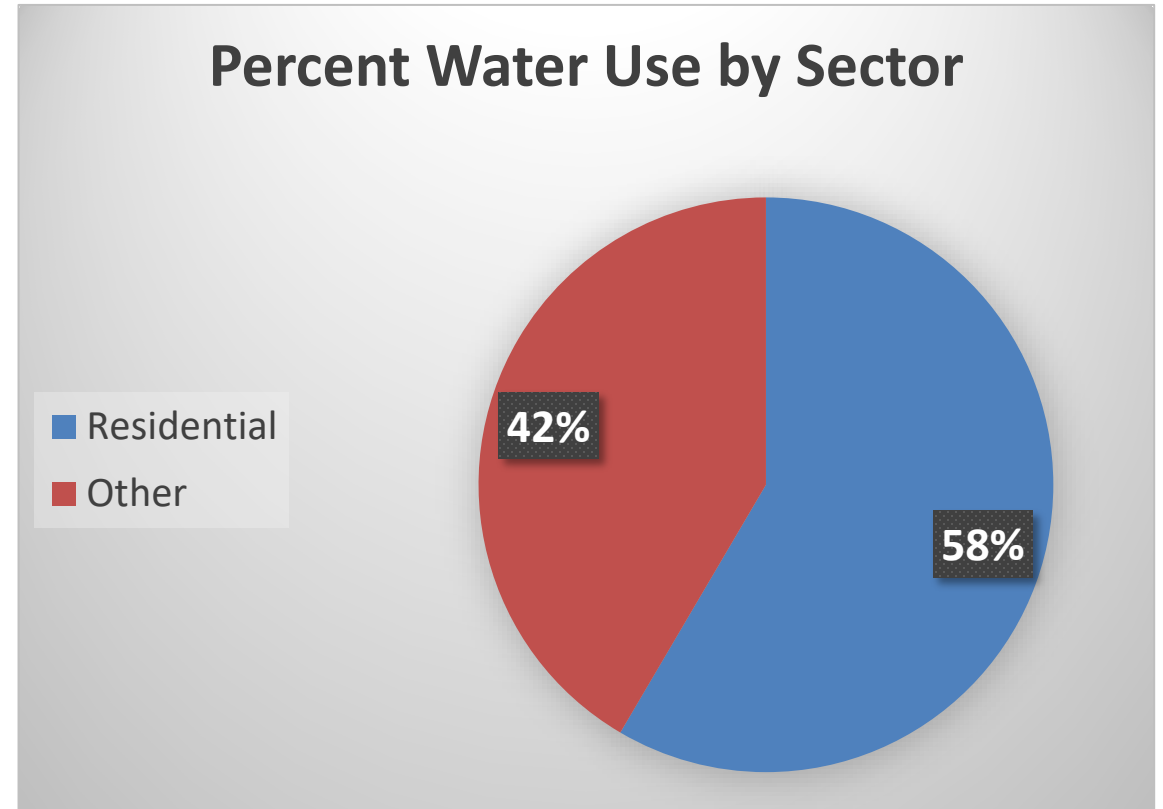
- Will address:
 - Verbal public comments received May 27th
 - Additional written comments received up to June 16th



Response to UWMP Comment

Water Use per person per day

- Outreach
 - 112 gallons per day (2019)
 - Residential water use vs. population
- SBx7-7
 - 205 gallons per capita day (2020)
 - Includes all water use vs. population



Response to UWMP Comment

Comment

Received comments questioning the appropriateness of DWR's State Water Project modeling

Response

- The model uses 82 years of hydrologic data to project the capability of current and future SWP deliveries
 - Incorporates results of various sophisticated climate change models
 - Factors in regulations (environmental, operational)
- Results are provided in the Delivery Capability Report (updated every two years)
- Important component for water supply planning



Response to UWMP Comment

Comment

Concern for Agency's support of the proposed Delta Conveyance project

Response

- The UWMP does not incorporate supplies from the proposed a Delta Conveyance project



Response to UWMP Comment

Comment

Should Sites Reservoir be incorporated into the water balance tables?

Response

- Not included at this time because SCV Water's participation in Sites Reservoir is pending Board consideration



Response to UWMP Comment

Comment

Disagree with SCV Water supporting the Poseidon desal project

Response

- SCV Water has no current plans to participate in desal programs
- CA UWMP Act requires discussion of potential opportunities for use of desalinated water (water Code Section 10631(i))
 - SCV Water 2020 UWMP discusses opportunities for desalination of brackish groundwater and seawater in the plan.



Response to UWMP Comment

Comment

When will SCV Water declare a water emergency in Santa Clarita?

Response

- UWMP and WSCP show that declaring a water shortage emergency is not called for under current conditions
- Annual water supply assessment is now required as part of the WSCP



Response to UWMP Comment

Comment

Why isn't recycled water provided to east side?

Response

- Vista Canyon WRP, Phase 2B project, will supply up to 300 AFY of recycled water to the east side (2021-2023)
- To date, building a recycled water distribution system on the east side would be much less cost effective than other areas in the Valley and would increase costs to all customers including those in the east side
- Draft Recycled Water Master Plan identified most appropriate uses to be located on the west side of the valley
- Revisited with a future Recycled Water Master Plan



Response to UWMP Comment

Comment

Is the City of Santa Clarita developing a plan to capture the daily runoff from sprinklers and repurpose it as reclaimed water for landscaping?

Response

- No, the City does not plan to capture and reclaim daily runoff from sprinklers
- The City's Enhanced Watershed Management Plan establishes actions to capture stormwater and urban runoff, screened to remove large debris, and convey water into underground infiltration basins to recharge groundwater supplies



Response to UWMP Comment

Comment

Why does the GSP Water Budget Analysis incorporate an analysis of groundwater supplies without climate change?

Response

- GSP Water Budget Analysis does incorporate climate change.
- SGMA regulations require a water budget analysis without climate change as a baseline for comparison (GSP rules - Section 354.18 (c)(3)(a))



Response to UWMP Comment

Comment

Groundwater levels incorporated into the Water Budget Analysis are not sufficiently protective of groundwater dependent ecosystems

Response

- The GSA's Stakeholder Advisory Committee has recommended sustainability management criteria, based on extensive analysis, which they have deemed sufficiently protective of groundwater dependent ecosystems
- The proposed Groundwater Sustainability Plan will incorporate a robust monitoring program to confirm this



Response to UWMP Comment

Comment

Not plausible to include Nickel water supply availability in 2035. Newhall Ranch Specific Plan estimates buildout time of 25-30 years and just started.

Response

- Schedule consistent with updated information provided by developer
- Staff considers assumption of earlier completion date to be a more conservative approach
- Development schedule will be a function of multiple factors including changes in ongoing economic conditions that may accelerate or deaccelerate the schedule. SCV Water will continue to monitor development progress.



Response to UWMP Comment

Comment

Question funding source for Nickel water supply

Response

- Settlement agreement provides for:
 - Current funding - provided by developer
 - Future funding –
 - Funding by developer to the extent used by the Newhall Ranch Specific Plan area
 - Funding for remaining supply available to other Agency customers provided by SCV Water



Response to UWMP Comment

Comment

Commenter contends Table 4-3 overstates State Water Project (SWP) supply availability.

Response

- Purpose of Table 4-3 is not to show State Water Project availability.
- Availability of SWP supplies is correctly represented in Table 4-2 SWP Table A Supply Reliability and Section 7 Reliability tables (Normal, Dry and Multi-dry year scenarios)
- To avoid potential misinterpretation by other parties, staff recommends deleting this table.



TABLE 4-3 SCV WATER DEMAND PROJECTIONS PROVIDED TO WHOLESALE SUPPLIERS (AF)^(a)

| Wholesaler (Supply Source) | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 |
|---|-------------|-------------|-------------|-------------|-------------|-------------|
| DWR (SWP) ^(b) | 95,200 | 95,200 | 95,200 | 95,200 | 95,200 | 95,200 |
| BVWSD/RRBWS (Kern River) ^(c) | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 | 11,000 |

Notes:

- (a) Nickel Water is excluded from this table because it is not contractually a SCV Water supply. It is assumed to be transferred to SCV Water during Newhall Ranch development, and available for annual purchase prior to that.
- (b) SCV Water has provided demand projections to DWR through 2035 based on its maximum Table A Amount to maximize storage in banking programs, water exchanges and other water management opportunities.
- (c) Under the agreement for this fixed water supply, the wholesale provider is required to provide the amount contracted for every year. Therefore, no demand projections are actually provided to BVWSD and RRBWS.



Response to UWMP Comment

Comment

Climate change strategies not adequately addressed in the UWMP

- Guidebook Steps (screen supplies, analyze impacts, assess actions to mitigate)

Response

- Plan analyzes supplies and demands for climate change impacts:
 - GSP which modifies future groundwater availability to reflect climate change
 - State Water Project (SWP) 2019 Delivery Capability report reflects climate change and sea level rise
 - Population and Demand Technical Memorandum (Maddaus)
- Existing conjunctive use strategy sufficient to address climate change impacts
 - Demand for banking programs reflect climate change
 - Refill of banking programs reflect climate change



Response to UWMP Comment

Comment

Drought Risk Assessment doesn't include climate change considerations

Response

- Drought Risk Assessment is a near term analysis which is typically would not take climate change into consideration
 - Include weather adjusted demands
 - SWP supplies include climate change adjustments



Response to UWMP Comment

Comment

Groundwater availability is overstated - objection to well capacity being shown in groundwater tables

Response

- Total groundwater pumping does not exceed the basin Operating Plan
- Well capacity is a permitted instantaneous pumping rate - not a daily, monthly, or annual pumping volume
- Well capacity shown to demonstrate that projected pumping including in water supply tables is within permitted capacity
- Tables 4-8 and 4-9 along with tables 7-2, 7-3 & 7-4 do not use annual well capacity amounts, but only those modeled supplies for normal and dry years



Response to UWMP Comment

Comment

- Groundwater availability is overstated - disagree that groundwater flow model is an appropriate tool to base current and future operations.

Response

- DWR's Groundwater Sustainability Plan guidance highly recommends use of numeric groundwater flow models such as the one being used by SCV-GSA
- GSA model is calibrated to reflect historic pumping and observed groundwater level fluctuations
- GSA model has been peer-reviewed and deemed to be appropriate for evaluating groundwater availability under the basin Operating Plan



Response to UWMP Comment

Comment

- Groundwater Operating Plan does not work (i.e., 2015 GSI Memo)
- Basis for future Saugus formation supplies is inadequate

Response

- Concerns regarding the 2015 GSI Memo addressed at May 27, 2021 UWMP Public Hearing
- Saugus formation supplies analyzed using numeric models:
 - 2009 Basin Operating Plan
 - 2020 GSP Draft Water Budget Technical Memorandum



Response to UWMP Comment

Comment

No approximation of additional costs that rate payers will be asked to bear with regards to recovering impacted well capacity.

Response

- Groundwater Implementation Plan is included in Appendix I of the UWMP
 - Cost estimates for impacted well recovery efforts
- Rate impact analysis is not included as a requirement for the UWMP
- The rate setting process is a transparent public process consistent with state requirements



Response to UWMP Comment

Comment

Requested timeline for development of new Saugus wells

Response

- Timeline provided in Table 4-9 B & C in Appendix E



Reduced Reliance on Delta Determination

Comments and Concerns

- Amending 2015 UWMP
- Future imported water use increases
- Additional actions to reduce reliance
 - Protection of recharge areas
 - Promote recycled water use throughout service area
 - Permeable pavement and other measures

Response

- Reduced reliance Appendix prepared in accordance with DWR guidance
 - Methodology provides for a base, credits given for additional conservation, groundwater and recycled water
 - Use of banking and exchange water during dry periods not a part of the approved methodology
- Additional recommended actions would require coordination with land planning agencies



Response to UWMP Comment

Comment

Problem relating to how water supply is described in UWMP. Use of words “capacity”, “availability”, “production”.

Response

- Our current usage of terms is correct.
 - Well capacity is a permitted instantaneous pumping rate - not a daily, monthly, or annual pumping volume
 - Availability of well capacity - what pumping options are available through time?
 - Production - How we anticipate operating each well in year types



Response to UWMP Comment

Comment

Appropriateness of showing dedicated BVRRB water in water balance tables prior to development

Response

- Dedicated BVRRB water is available prior to use by developments and appropriately included in water balance tables
- Both demand for these developments and associated supplies are reflected through time in water balance tables



Response to UWMP Comment

Comment

Table 4-1 should be modified to further characterize water banking exchange supplies as dry year supplies not available in all years

Response

- Recommend incorporating footnote designating “Existing Banking and Exchange Programs”
 - Banking and exchange programs used to firm supplies due to dry SWP conditions and reduced access to local groundwater caused by PFAS and perchlorate impacts. Banking and exchange programs not used do not reflect a normal year long term water supply.



Response to UWMP Comment

Comment

Section 7 tables indicate banking and exchange programs are available in all years

Response

- Separate section 7 tables provided for normal, single-dry and multi-dry year scenarios
- Exchange and banking supplies are not shown in normal year table, only in single-dry and multi-dry tables
- No modifications recommended



Response to UWMP Comment

Comment

Recycled water supplies are overstated

- Reduced flows from reclamation plant are needed
- Recycled water supply is only a subjective projection at this time

Response

- Future recycled water assumed availability based on flows generated from new development (Section 1211 Permit not required)
- Future interior water use documented in Appendix F - Population and Demand Technical Memorandum (Maddaus)



Response to UWMP Comment

Comment

- Plan only shows recycled water development for Newhall Ranch
- Table 5-2 overstates 2021 recycled water availability for Newhall Ranch Project

Response

- Table 5-2 shows recycled water development for Valencia, Newhall and Santa Clarita divisions
- Table 5-2 reflects the range of demands at buildout
- Table 5-3 shows schedule for development of recycled water





Response to Board Questions and Discussion Topics

Response to Board Discussion

Comment

Incorporation of the reduced reliance text and tables from the 2020 UWMP appendix in the 2015 UWMP seems improper

Response

- Originally not incorporated in 2015 UWMP as Delta Plan was under litigation and clear direction on how to demonstrate reduced reliance was unclear
- Delta Stewardship Council and DWR have provided clear direction and recommend amending the 2015 UWMP



Response to Board Question

Comment

What is the margin of error with respect to all the analysis within the UWMP?

Response

- UWMP is based on best available data
- There is no calculated margin of error

Observations

- Modeled State Water Project minimum allocation was 7% vs. actual 5% experienced in 2014 and 2020
- UWMP is updated every 5 years to incorporate adjustments for actual water use/census data, wastewater inflow, update demands based on new conservation mandates



Response to Board Question

Comment

What are the “new water wells” that are referred to in the UWMP?

Response

- They are references to future wells
 - designated in Tables 4-8 and 4-9



Response to Board Question

Comment

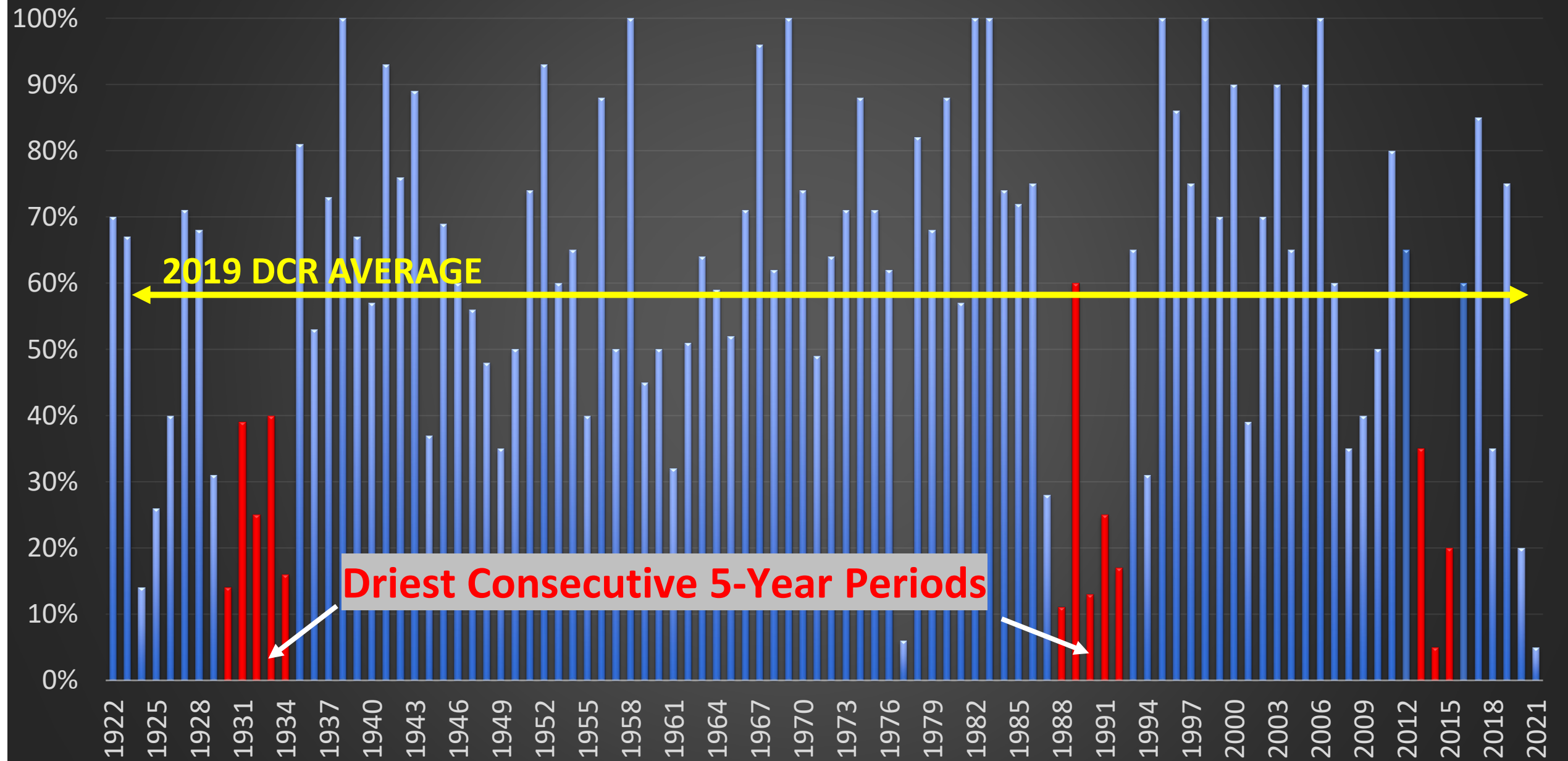
Why didn't SCV Water use the 2014 drought in the Drought Risk Assessment?

Response

- SCV Water utilized the “worst” historical 5-year dry period on record for the Drought Risk Assessment which was from 1988-1992
- The 2013-2015 drought was intense, but is not the driest 5-year period on record



Historical SWP % Allocation Hydrology



Comparison of 1930, 1988 & 2014 Droughts

| | Allocation of State Water Project Contract Amount | | |
|----------------|---|------------|------------|
| Dry Year | 1930-1934 | 1988-1992 | 2012-2016 |
| # 1 | 14% | 11% | 65% |
| # 2 | 39% | 60% | 35% |
| # 3 | 25% | 13% | 5% |
| # 4 | 40% | 25% | 20% |
| # 5 | 16% | 17% | 60% |
| Average | 27% | 25% | 37% |



Response to Board Question

Comment

Why doesn't SCV Water plan like every year is a drought?

Response

- Short term planning assumes worst case scenario
- SCV Water plans for all types of hydrologic conditions
- Normal operations includes frequent evaluation of water supply conditions
- Reliability Report addresses long-term dry and wet year sequences
- The UWMP includes a near term scenario Drought Risk Assessment



Response to Board Discussion

Comment - Should Nickel and the Newhall Land Semitropic Banking Programs be included in the UWMP water balance tables?

Concerns

- Existing agreements to access supplies are not in place
- May not be reasonable to assume past cooperation would continue
- If supplies are dedicated to Newhall Ranch Specific Plan how can they be shown as a supply available to the Agency?



Response to Board Discussion

Nickel Water Supply

- Owned by Newhall Land
- 1,607 AFY of Kern County water supplies
- Primarily banked into the Newhall Land Semitropic Banking Program annually
- UWMP assumes rights to this water supply will be transferred to SCV Water in 2035
 - Assumed completion of the Newhall Ranch Specific Plan in 2035
- SCV Water may request to purchase (pending annually agreement)
- SCV Water has never used this water supply



Response to Board Discussion

Newhall Land Semitropic Banking Program

- Newhall Land is a banking partner in Semitropic Water Storage District's original banking program
- 55,000 AF of storage capacity
 - 38,000 AF currently stored (primarily Nickel water)
 - 4,950 AFY of storage and recovery (annual PUTs and TAKEs)
- Newhall Land may assign program rights to SCV Water
 - UWMP assumes program transfer in 2035 with completion of the Newhall Land Specific Plan Development



Response to Board Discussion

SCV Water's use of NLF's Semitropic Banking program

- 2009 and 2014 special agreements made with NLF
 - SCV Water was a “second priority” banking partner before 2015
 - Sufficient stored water supplies (50,870 AF stored by 2007)
 - Couldn't access water
 - NLF had “first priority” access
- In 2015 SCV Water became “first priority” banking partner
 - 2021 storage balance - 40,250 AF
 - 5,000 AFY recovery





Edits to Address Comments Received

UWMP Nickel and Newhall Land Semitropic Options

1. Assume supplies available in 2021-2050
 - Original public draft - April 26, 2021
2. Assume supplies become available in 2035 i.e., completion of the Newhall Land Specific Plan
 - Final draft - June 10, 2021
3. Remove supplies from the 2020 UWMP update completely

Available water supplies exceed estimated demand with active conservation for all options

- Staff has prepared reliability tables for all three options



Single-Dry Year Water Balance Table Comparison of Option 1-3

TABLE 7-3

Projected Single-Dry Year Supplies and Demands (AF)

| | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 |
|--|---------------|---------------|---------------|---------------|----------------|----------------|
| Total Supplies Available | | | | | | |
| Option 1 WITH Newhall Land Supplies starting now | 92,666 | 112,043 | 116,178 | 117,585 | 118,586 | 119,598 |
| Option 2 WITH Newhall Land Supplies available in 2035 | 86,109 | 105,486 | 116,178 | 117,585 | 118,586 | 119,598 |
| Option 3 WITHOUT Newhall Land Supplies | 86,109 | 105,486 | 109,621 | 111,028 | 112,029 | 113,041 |
| Demands | | | | | | |
| Demands with passive conservation | 87,000 | 94,700 | 103,500 | 110,600 | 116,200 | 122,000 |
| Demands with passive and active conservation | 81,000 | 86,600 | 94,000 | 99,200 | 103,400 | 107,100 |

*Orange numbers indicate changes in supplies



Multi-Dry Year Water Balance Table Comparison of Option 1-3

TABLE 7-4

PROJECTED FIVE-YEAR DRY PERIOD SUPPLIES AND DEMANDS (AF)

| | 2025 | 2030 | 2035 | 2040 | 2045 | 2050 |
|--|---------|---------|---------|---------|---------|---------|
| Total Supplies Available | | | | | | |
| Option 1 WITH Newhall Land Supplies starting now | 103,980 | 116,460 | 124,542 | 126,345 | 127,346 | 128,236 |
| Option 2 WITH Newhall Land Supplies available in 2035 | 101,303 | 114,033 | 125,559 | 130,085 | 131,015 | 128,715 |
| Option 3 WITHOUT Newhall Land Supplies | 101,303 | 114,033 | 121,625 | 123,528 | 124,458 | 122,158 |
| Demands | | | | | | |
| Demands with Passive Conservation | 83,570 | 91,380 | 99,670 | 106,660 | 112,100 | 117,010 |
| Demands with Active Conservation | 77,830 | 83,620 | 90,570 | 95,780 | 99,670 | 102,870 |

*Orange numbers indicate changes in supplies



Staff Recommendation

Option 2-

- Supplies become available in 2035 i.e., completion of the Newhall Land Specific Plan
- Final draft - June 10, 2021



UWMP Additions, Updates, and Changes

- Added language on increased concern from potential wildfire impacts
- Added alternate version of the Drought Risk Assessment to the Appendix which shows 2021 under existing conditions
- Table 4-1 simplified to only show 2020 actual water supplies
- Changed assumptions
 - Nickel supply availability to begin in 2035
 - Newhall Land Semitropic Water Storage Banking Program availability to begin in 2035
 - Updated all related tables and text



Table 4-1 Modification

TABLE 4-1 SUMMARY OF WATER SUPPLIES USED IN 2020 (AF)
[DWR TABLE 6-8]

| | 2020^(a) |
|---|---------------------------|
| Existing Groundwater | |
| Alluvial Aquifer | 7,571 |
| Saugus Formation | 9,761 |
| Total Groundwater^(b) | 17,332 |
| Recycled Water | |
| Total Recycled | 468 |
| Imported Water | |
| State Water Project | 14,587 |
| Buena Vista-Rosedale | 11,000 |
| Yuba Accord Water | 284 |
| Total Imported | 25,871 |
| Existing Banking and Exchange Programs | |
| Rosedale Rio-Bravo Bank | 1,600 |
| Semitropic Bank | 5,000 |
| Rosedale Rio-Bravo Exchange | 14,451 |
| Antelope Valley East Kern Water Agency Exchange | 1,406 |
| West Kern Exchange | 500 |
| Total Bank/Exchange | 22,957 |
| Total Supplies | 66,630 |



Clarifying edits

- SCV Water service to LACWWD 36 in Val Verde
- Flexible storage supply
- Nickel Water supply availability
- Newhall Land Semitropic Water Banking Program availability



Staff Recommendation

- That the Board of Directors approve the attached resolution adopting the 2020 Urban Water Management Plan.
- That the Board of Directors approve the attached resolution adopting the Addendum to the 2015 Urban Water Management Plan.



The background features a white central area framed by curved, layered borders in shades of blue and green. The top border consists of a dark blue outer layer and a lighter blue inner layer, with a green band in between. The bottom border mirrors this structure with a dark blue outer layer, a lighter blue inner layer, and a green band in between.

Thank You