

Supplemental Information Packet

Public Communications Received by 4:00 p.m., April
16, 2020 and meeting Presentations
Meeting of April 16, 2020

Supplemental Information:

Any Agenda related public documents received and distributed to a majority of the Water Commission after the Agenda Packet is printed are included in Supplemental Packets. Supplemental Packets are produced as needed. The Supplemental Packet is available in the City Clerk's Office, 501 Poli Street, Room 204, Ventura, during normal business hours as well as on the City's Website - <https://www.cityofventura.ca.gov/716/Water-Commission>.

Debra Gallegos

From: noreply@cityofventura.ca.gov
Sent: Tuesday, April 14, 2020 4:40 PM
To: Debra Gallegos; Amanda DeLeon; Susan Rungren; Julie Stuva; ljuanchon@ci.ventura.ca.us; Neda Zayer; Hogan, Miles
Subject: -EXT- Online Form Submittal: Electronic Agenda/Public Comment Form

Electronic Agenda/Public Comment Form

Disclosure:

Providing your name and contact information is optional to participate in a Public Meeting, however by providing, it will allow staff to follow-up with you on your item. You may only submit one comment form per agenda item.

Submission Deadlines:

City Council – by 4:00 pm on Meeting Date OR before agenda item ends during a live meeting to be considered part of the record

Name	Jeffrey Blume
Address	399 San Diego Ave.
Phone Number	8057657049
Email Address	jeffrey.blume@sbcglobal.net
Name of legislative body	Water Commission
Meeting Date	4/16/2020
Pick one:	Public Comments
Written Comments	With Stay-at-home policies in place families are, necessarily, using sanitary facilities, cooking facilities, showering etc. much more than usual. It is anticipated that many Ventura residents will utilize more water than pre-Covid times. Will the Water commission consider eliminating higher tier water rates for residents during this quarantined period?
Upload Files	<i>Field not completed.</i>

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Debra Gallegos

From: noreply@cityofventura.ca.gov
Sent: Thursday, April 16, 2020 2:08 PM
To: Debra Gallegos; Amanda DeLeon; Susan Rungren; Julie Stuva; ljuanchon@ci.ventura.ca.us; Neda Zayer; Hogan, Miles
Subject: -EXT- Online Form Submittal: Electronic Agenda/Public Comment Form

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Submission Deadlines:

Submit by hour listed below on Meeting Date OR before Agenda Item Concludes during a Live Meeting to be considered part of the record. City Council – by 4:00 pm on Meeting Date / Water Commission - by 4:00 pm on Meeting Date / Administrative Hearings - by 2:00 pm on Meeting Date

Name	Burt Handy
Address	<i>Field not completed.</i>
Phone Number	<i>Field not completed.</i>
Email Address	<i>Field not completed.</i>
Name of legislative body	Water Commission
Meeting Date	4/16/2020
Pick one:	Agenda Item Number/Topic
Agenda Item Number/Topic (if known)	2 and 3
Written Comments	<p>After reviewing the documents in the agenda, it came to my attention, as a lay person, it appears the documents are written for a professional reader.</p> <p>As stated in the information, Ventura Water is trying to write the documents for the lay person to read.</p> <p>It does not appear this occurred.</p> <p>Reading through the documents "AF", "HCF", "AFY", afr referenced throughout the documents without explanation or</p>

quantity of the meaning of these abbreviations.

I looked through the documents and the amount of water which is represented by these abbreviations is nowhere to be found in either document.

Additionally, throughout the documents there is no common denominator for all the water references. (use one of the above abbreviations for all the charts to bring scalability.

I propose the same as the water commission member, in that the definition of the above be listed with each graph and in the abbreviation section of the documents.

Burt Handy

Upload Files

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Water Commission Meeting

April 16, 2020

5:30 p.m.

Thank you for joining us tonight.

Just a reminder that if you have comments related to Agenda Items or Public Communication, you may submit an email to dgallegos@cityofventura.ca.gov and if received before that agenda item ends, the record will reflect such.

Stay Safe Ventura – We are Committed to Serving You During
this Dynamic Situation



Demand Factor Study

Jennifer Tribo, Management Analyst II
Ventura Water

Water Commission
April 16, 2020

Background

- 2013: Updated water demand factors developed.
- 2016: Water Resource Net Zero Policy implemented.
- Fall 2018: Ventura Water staff initiated a Water Demand Factor Study.
- Fall 2019: City Council requested staff address concerns about the net zero fee related to demand factors.
- February 2020: Updated Water Commission and City Council on Demand Factor Study.

Use of Demand Factors

Net Zero Policy:

- Demand factor used to calculate the demand offset required for a project.
- Demand offset is multiplied by the net zero fee to calculate the total fee due.

CWRR:

- Estimate future demand of approved and under construction development projects.
- Forms the basis for future demand projections for the next five years.

October 2019 City Council Request

- Develop demand factors for varied uses;
- Create more commercial sub-classes;
- Update demand factors for residential net-zero fees;
- Address commercial/industrial tenant improvements.

Demand Factor Analysis

Updated Demand Factors:

- Based on 2013-2018 water consumption data
- Calculated for 23 categories
 - Residential (2)
 - Non Residential (21)
- Include a water loss factor of 7%
- Include a contingency factor of 20%
- Utilized in Draft 2020 CWRR.

Comments on Demand Factor Analysis

- Add abbreviations and acronyms list;
- Clarify water loss discussion;
- Update per capita use estimates with DWR data instead of EPA data;
- Miscellaneous minor comments;
- Concerns with implementation of demand factors.



Comparison of Net Zero Fees

2013					2020 (DRAFT)				
Category	Factor (gpd)	Factor (AFY)	Fee		Category	Proposed Factor (gpd)	Proposed Factor (AFY)	Proposed Fee	
Single-Family	370/du	0.41	\$11,830	per dwelling	Single-Family	294/du	0.33	\$9,521	per dwelling
Multi-Family	250/du	0.28	\$8,079	per dwelling	Multi-Family	209/du	0.23	\$6,636	per dwelling
Commercial/Retail/Industrial/Hotel/Public/Institutional	265/ksf	0.30	\$8,656	per ksf	Office	38/ksf	0.04	\$1,154	per ksf
					Medical/Dental Office	168/ksf	0.19	\$5,482	per ksf
					Hotel (w/ restaurant)	172/room	0.19	\$5,482	per room
					Hotel/motel (no restaurant)	134/room	0.15	\$4,328	per room
					Public & Institutional	68/ksf	0.08	\$2,308	per ksf
					School	20/student	0.02	\$577	per student
					Restaurant (sit-down)	673/ksf	0.75	\$21,640	per ksf
					Restaurant (fast-food)	870/ksf	0.97	\$27,987	per ksf
					Brewery	435/ksf	0.49	\$14,138	per ksf
					Bakery/Coffee Shop	149/ksf	0.17	\$4,905	per ksf
					Grocery Store	156/ksf	0.17	\$4,905	per ksf
					Multi-Tenant Commercial	155/ksf	0.17	\$4,905	per ksf
					Single-Use Commercial	105/ksf	0.12	\$3,462	per ksf
					Self-Storage	286/acre	0.32	\$9,233	per acre
					Church	92/ksf	0.10	\$2,885	per ksf
					Gym (w/ pool)	213/ksf	0.24	\$6,925	per ksf
					Car Wash	1,081/ksf	1.21	\$34,912	per ksf
					Gas Station (w/ car wash)	2,342/ksf	2.62	\$75,595	per ksf
					Gas Station	255/ksf	0.29	\$8,367	per ksf
Hospital/Assisted Living	545/bed	0.61	\$17,600	per bed	Assisted Living	91/bed	0.10	\$2,885	per bed
Park/Landscape/Irrigation	2,000/acre	2.24	\$64,631	per acre	Park/Golf Course	1,720/acre	1.93	\$55,686	per acre

Comparison of Demand Projections

- Table 2-4: Projected demands for approved and under construction projects
 - 2019 CWRR = 1,346 AFY
 - 2020 CWRR = 921 AFY
- Description of differences
 - Reduction due to projects changing status = 243 AFY
 - Reduction due to demand factor changes = 182 AFY

Implications of Demand Factors Changes

Net Zero:

- Demand estimates and resulting fees should more accurately reflect current water use trends
- Challenging to apply when tenant is unknown
- May require special analysis or staff judgment if proposed development does not fit into any category
- May result in deterring certain commercial/industrial developments

CWRR:

- Changes demand projections for approved and under construction projects (Table 2-4)
- Difficult to apply for proposed mixed use projects

Implementation of Demand Factors

- Final Water Demand Factor Study to Water Commission – **April 2020**
- Final Water Demand Factor Study presented to City Council for approval – **May 2020**
- Staff coordination for refined policies and procedures – **Spring 2020**
- Final Administrative Policies and Procedures in place – **Summer 2020**



Recommendation

Staff recommends that the Water Commission receive this written report and an oral presentation on the Water Demand Factor Study dated April 3, 2020 and recommend that City Council adopt the Final Water Demand Factor Study.



Questions?

Follow Ventura Water on





2020 Comprehensive Water Resources Report

Jennifer Tribo
Management Analyst II

Water Commission
April 16, 2020

Comprehensive Water Resources Report

- Annual analysis of balance of short term and long-term water supply and demand.
- Standardized method to estimate water supply demands for development projects.
- Establishes the drought stage per the 2015 Water Shortage Event Contingency Plan (WSECP).

Comments on Draft 2020 CWRR

- Comments were received from three Water Commissioners (Attachment A)
- Staff summarized and responded to the comments in a Comment Matrix (Attachment B)

Summary of Revisions

- Table of Contents and Executive Summary
- Acronyms and Abbreviations List
- Expanded Glossary with new terms
- More robust water loss section
- Clarification of triggers for Stage 2 versus Stage 3 shortage events
- Refined discussion of Emergency Ordinance E with respect to the Oxnard Plain Basin



Baseline Demand

Table 3-6				
Historical Annual Water Consumption				
Calendar Year	Consumption ^[1] (AF)	Averages, AFY ^[2]		
		3-year	5-year	10-year
2010	16,565			
2011	16,550			
2012	18,004		17,167	
2013	17,723			
2014	16,995			
2015	14,194			15,605
2016	14,262			
2017	13,973		14,043	
2018	14,211	13,920		
2019	13,575			

[1] Provided by Ventura Water. The CY 2019 to 2017 consumption data included a 6.5% water loss factor. The CY 2018 includes a 5.0% water loss factor based on the State-required water loss audit. The CY 2019 consumption includes an 8.25% water loss factor based on the preliminary State-required water loss audit. The water loss factor will be updated annually.

[2] Staff intends to use the 10-year average for baseline demand unless changed circumstances arise. The 3-year and 5-year averages are provided for informational purposes, and are not used in the demand calculation.

Estimated Water Demand for Development

Water Demand Factor Classification	Quantity	Estimated Future Water Demand	
		gpd	AFY
Single-Family	333 du	97,902 gpd	110 AFY
Multi-Family	2,478 du	517,902 gpd	580 AFY
Non-Residential	342.5 ksf	58,028 gpd	65 AFY
Self-Storage	0 acre	0 gpd	0 AFY
Assisted Living	0 bed	0 gpd	0 AFY
Hotel w/ Restaurant	125 room	21,500 gpd	24 AFY
Hotel/motel (no restaurant)	0 room	0 gpd	0 AFY
Park/Golf Course	2.90 ac	4,988 gpd	6 AFY
School	0 student	0 gpd	0 AFY
PROJ-5810 Ventura Botanical Gardens	-	119,627 gpd	134 AFY
PROJ-11236 Mobile Gas	-	2,196 gpd	2.46 AFY
Total		822,144 gpd	921 AFY

Projected Demand

Table 3-9: Projected Water Demand Growth per Absorption Rate

Year	Demand Allocation ^[1] (AFY)	Population Growth ^[2]	Projected Water Demand ^[3] (AFY)
2019			<i>15,605</i>
2020	184.2		15,789
2021	184.2		15,974
2022	184.2		16,158
2023	184.2		16,342
2024	184.2		16,526
2025		0.54%	16,616
2026		0.54%	16,707
2027		0.54%	16,798
2028		0.54%	16,889
2029		0.54%	16,981
2030		0.54%	17,074
Totals	921		



Table 4-3: Summary of Projected Future Water Supply From Existing and Potential New Sources

Water Supply Source	Existing	Existing	Future			
	Supply Capacity	2020 Supply Drought Impact (AF)	2021 Supply Drought Impact (AFY)	2022 Supply Drought Impact (AFY)	2025 Normal Supply (AFY)	2030 Normal Supply (AFY)
Casitas Municipal Water District	5,421	3,794	3,858	3,362	5,816	5,977
Ventura River / Foster Park	4,200	1,573	1,573	1,298	4,200	4,200
Mound Groundwater Basin	4,000	2,400	4,000	4,000	4,000	4,000
Oxnard Plain Groundwater Basin	4,827	4,827	4,827	4,700	4,319	3,684
<u>Santa Paula Groundwater Basin</u>						
Original City Allocation	3,000	2,450	2,450	2,450	3,000	3,000
City Acquired Water Rights	41				41	41
Recycled Water	700	700	700	700	700	865
Potable Reuse	0	0	0	0	2,800	2,800-4,000
TOTAL	22,189	15,744	17,408	16,510	24,873	24,567-25,767
State Water					2,075-10,000	0-10,000

Water Shortage Event Contingency Plan (WSECP)

- In September 2014, City Council declared a Stage 3 Water Shortage Emergency calling for 20% mandatory conservation .
- Table 1 of the WSECP indicates triggers/demand reduction goals.
- Annual supply per Table 4-2 of the 2020 CWRR = 15,744 AFY
- Normal supply per Table 4-1 of the 2013 CWRR = 19,600 AF
- Calculation:

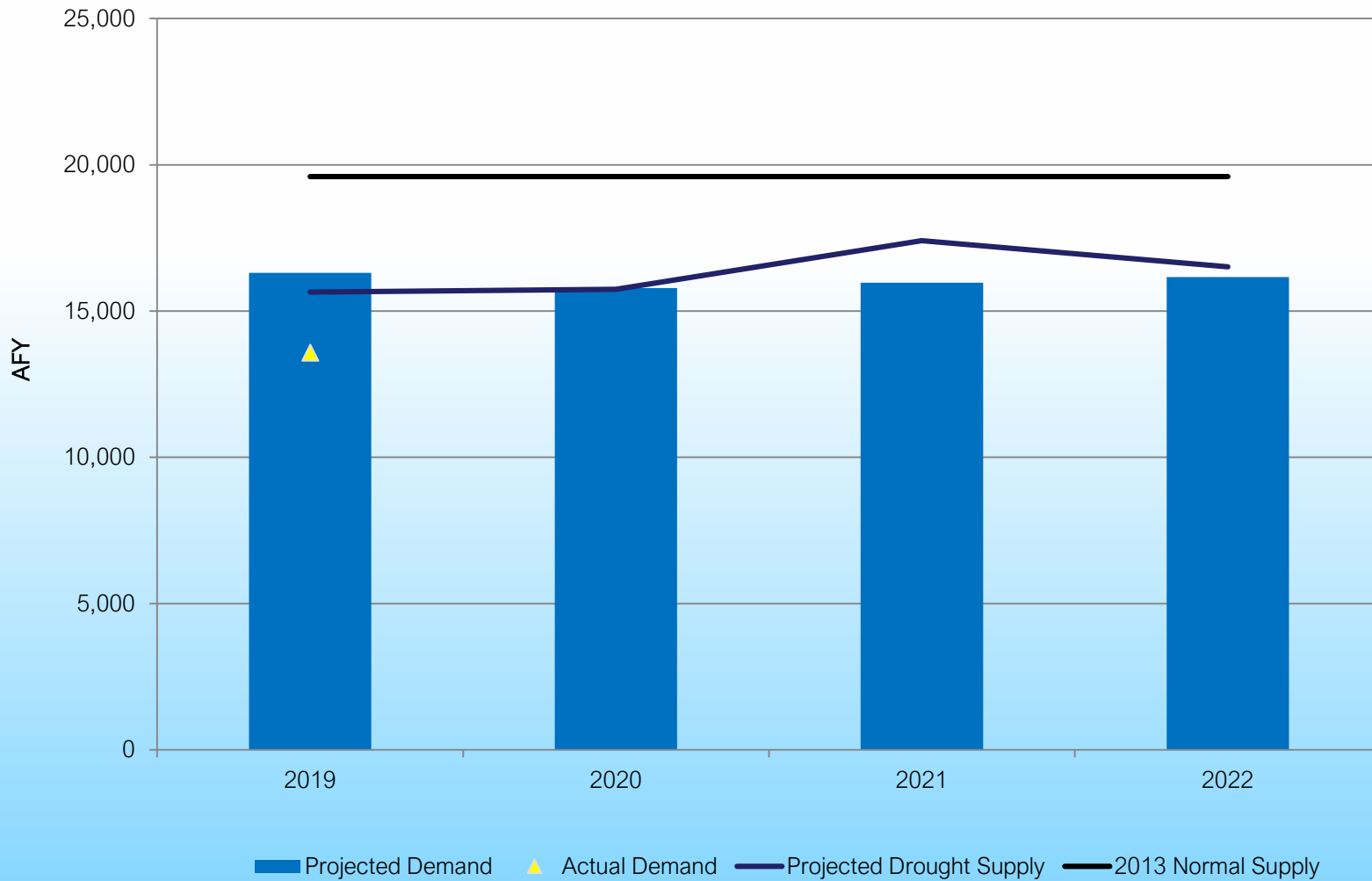
$$\frac{15,744-19,600}{19,600} = 19.7\% \text{ below Normal}$$

- Therefore, the City may declare a **Stage 2** Water Shortage Event or remain in **Stage 3**.

Table 6-1: Demand vs. Supply Comparison

Year	Actual Demand (AFY)	Projected Drought Demand [1] (AFY)	Projected Normal Demand [2] (AFY)	Projected Supply [3][5]	
				AFY	% Difference
2017	13,973		16,515		
2018	14,211		16,035		
2019	13,575		15,605	15,651	0.3%
2020 (Drought)		12,631	15,789	15,744	-0.3%
2021 (Drought)		12,779	15,974	17,408	9.0%
2022 (Drought)		12,926	16,158	16,510	2.2%
2022			16,158	21,100	30.6%
2023			16,342	21,655	32.5%
2024			16,526	21,619	30.8%
2025			16,616	24,873	49.7%
2030 ^[4]			17,074	24,567-25,767	43.9% - 50.9%

Figure 6-1: Demand vs. Supply Comparison



Recommendation

- a) Receive this written report and an oral presentation on the Final Draft 2020 Comprehensive Water Resources Report (CWRR) and recommend approval to City Council.
- b) Recommend to City Council to either remain in Stage 3 Water Shortage Event or move to Stage 2.



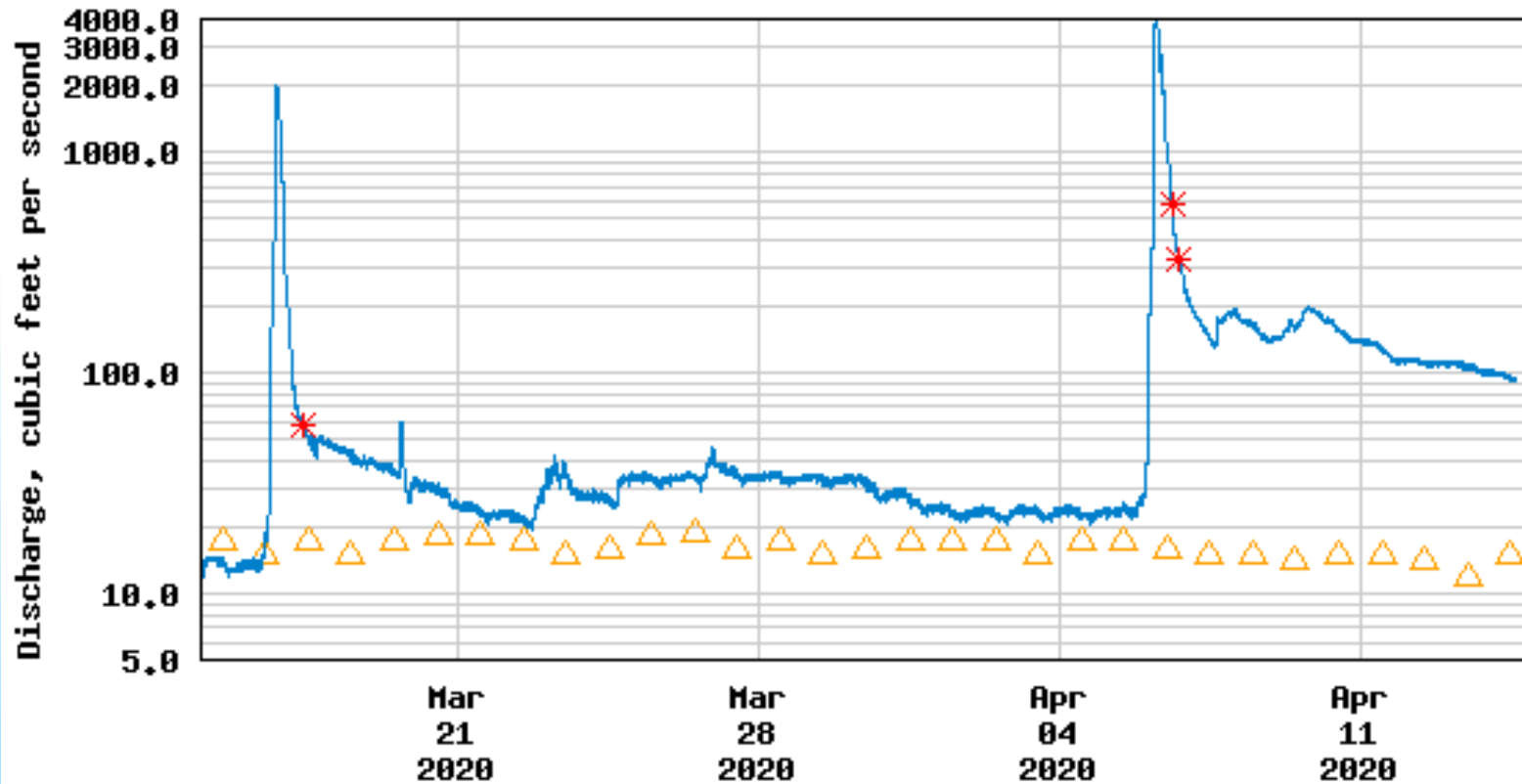
Lake Casitas

254 - Casitas Station														
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	SEASON TOTAL	SEASON %
Normal	0.52	2.78	3.27	4.49	5.38	4.02	1.58	0.16	0.03	0.01	0.06	0.49	22.79	
Current WY 2019 - 2020	0.00	1.44	7.21	0.64	0.31	5.29	4.00	---	---	---	---	---	18.89	82.9%
2018 - 2019	0.03	2.60	1.00	8.33	8.85	3.81	0.06	1.85	0.07	0.00	0.00	0.00	26.60	116.7%
2017 - 2018	0.00	0.06	0.00	4.21	0.09	7.87	0.03	0.11	0.00	0.00	0.00	0.00	12.37	54.3%
2016 - 2017	0.64	0.80	3.74	10.63	12.63	1.32	0.41	0.12	0.02	0.00	0.00	0.14	30.45	133.6%
2015 - 2016	0.38	0.06	0.33	5.71	2.22	3.67	0.48	0.09	0.00	0.00	0.00	0.00	12.94	56.8%
2014 - 2015	0.00	1.04	5.37	1.38	0.82	0.23	0.27	0.36	0.15	0.34	0.00	0.28	10.23	44.9%

- Current Lake Level = 44.3%
- Current Shortage Stage = 3 (Board will potentially update on April 22)

Ventura River Flows

USGS 11118500 VENTURA R NR VENTURA



---- Provisional Data Subject to Revision ----

- △ Median daily statistic (60 years)
- * Measured discharge
- Discharge



Questions?

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NPDES Permit Update

Vince Ines

Wastewater Utility Manager



Overview

- Background
- Monitoring Requirements
- Effluent Limits
- Receiving Water Monitoring (SCRE)
- Chronic Toxicity Monitoring
- Submittals/ Cost



Background

Renewal Process

- 18 stakeholder workshops
- Preparation of the Phase 3 of Estuary Studies
- Technical Review Panel
- Peer review
- Independent Scientific Review Panel discharge recommendations

Agencies

- Los Angeles (RWQCB)
- California Department of Fish and Wildlife
- National Marine Fisheries Service
- U.S. Fish and Wildlife Service
- California Dept. of State Parks
- Wishtoyo Foundation's Ventura Coastkeeper Program
- Heal the Bay



Monitoring Requirements

Removed

- Influent (INF) sampling: Selenium, Nickel
- Effluent (EFF) sampling: Acute Toxicity, 4 Metals, 2 Organics plus a suite of Pesticides

Adjusted

- 4 EFF parameters from monthly/quarterly to semiannually
- 2 EFF Metals from quarterly to monthly

Added

- EFF: Hardness, CTAS (both monthly); PCB congeners (annually)
- EFF-001A (ponds discharge to SCRE): Ammonia (monthly)



Effluent Limits

Removed

- Selenium, Lead, Acute Toxicity

Adjusted

- Chronic Toxicity limits to align with the State's Draft Toxicity Policy: from Toxic Units (TUc) to PASS/FAIL and % Effect

Added

- Zinc, Fecal Coliform, Enterococcus, Ammonia (added from ponds to SCRE)
- Radioactivity performance goal



Receiving Water Monitoring (SCRE)

Removed

- chlorine, acute toxicity

Adjusted

- 1 parameter from quarterly to monthly
- 7 parameters from weekly to monthly
- 7 parameters from either monthly or quarterly to semiannually
- 1 constituent group from semiannually to annually

Added

- 3 emerging contaminants plus MTBE, PCB congeners (annually)
- Habitat Conditions / Sieve Net Fish Species Count (quarterly / annually)
- Instream Bioassessment Monitoring (annually)



Chronic Toxicity Monitoring

- Allowing the use of marine species
- Requiring the Test for Significant Toxicity (TST statistical approach) to assess compliance
- Requiring up to 2 additional tests/month for an initial FAIL result
- Requiring additional accelerated monitoring for monthly median FAIL
- Accelerated monitoring requirements are reduced (from 6 tests over 12 weeks to 4 tests over 8 weeks)



Submittals/ Estimated Costs

- Transition Plan- \$25,000
- Pre-Construction Monitoring and Assessment Program- \$25,000
- Post Construction Monitoring, Assessment and Adaptive Management Program (MAAMP)- \$30,000
- Climate Change Effects Vulnerability Assessment and Mitigation Plan- \$40,000
- Toxicity Reduction Evaluation (TRE) Work Plan- \$5,000
- Local Limits Technical Evaluation- \$150,000
- Spill Clean-up Contingency Plan (SCCP)- No cost
- Preventive (Failsafe) and Contingency (Cleanup) Plan- No cost

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Questions