



ENGINEERING AND OPERATIONS COMMITTEE MEETING

Thursday, January 13, 2022
4:30 p.m.

1. Call meeting to order
2. Public communications to the Committee
3. Additional items arising after posting of agenda
4. Engineering
 - RZ System
 - A. General PFAS Update – Information
 - B. Vista Panorama Reservoir Replacement Project Update – Information
 - WZ System
 - C. Rehabilitation of the Newport Reservoir – Contract Award to Advanced Industrial Services
 - Sewer System
 - D. ID1 CRA Project Status Update – Information
 - E. Sewer Development Permits – Information
 - F. Update Sewer Standards – Budget Increase
 - Joint – no items
5. Operations
 - RZ System
 - A. East & West Well – Pumping Level Information
 - B. RZ Water Use – Monthly Report– Information
 - WZ System
 - C. WZ Water Use –Monthly Report – Information
 - Sewer System
 - D. Spill Report – No sewer spills in December – Information.
6. Adjournment

NOTE: On March 4, 2020, California Governor Newsom declared a State of Emergency in California as a result of the COVID-19 Pandemic, for which State and Orange County Public Health Officials have continued to recommend measures to promote social distancing. Pursuant to Government Code Section 54953, and corresponding findings of the Board that currently remain in effect (1) members of the Board of Directors and public may elect to attend this Committee Meeting by telephone or video conference due to concerns relative to COVID-10 Coronavirus and avoidance of public gatherings, and (2) **THERE WILL BE NO PUBLIC LOCATION TO ATTEND THIS MEETING IN PERSON.** The public may attend either telephonically by calling into, or by videoconference by logging into, the meeting at:

To Access the Meeting by Computer/Device:

<https://us02web.zoom.us/j/87095682417?pwd=aGZtTnNHMmVaWkhNQt1YjZLTmpTZz09>
or via short link <https://bit.ly/3HNjmSg>

To Access the meeting by Phone:

Dial: (669) 900-6833

Meeting ID: 870 9568 2417 Passcode: 558502

Members of the public shall be permitted to speak live at the meeting as to both agendized and non-agendized items, as reflected in the agenda, utilizing the above-referenced internet or telephone options. Those wishing to speak may either submit a speaker request via the on-line chat feature before an item is heard, or by verbally indicating their desire to comment at the time the item is called. Additionally, members of the public may, but are not required to, e-mail comments to Sylvia Prado at sprado@eocwd.com up to 30 minutes before the Committee meeting, and such comments shall be provided to the Committee. Members of the public wishing to attend the meeting that require other reasonable modifications or accommodation to facilitate such attendance should contact Ms. Prado at (714) 538-5815 or the e-mail provided as soon as feasible before the meeting to make such request.

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the East Orange County Water District Engineering & Operations Committee in connection with a matter subject to discussion or consideration at an open meeting of the Engineering & Operations Committee are available for public inspection in the District's office, 185 McPherson Road, Orange, California ("District Office"). If such writings are distributed to members of the Committee less than 72 hours prior to the meeting, they will be available via phone or email request to Ms. Sylvia Prado at (714) 538-5815 or sprado@eocwd.com.

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: GENERAL PFAS UPDATE
DATE: JANUARY 13, 2022

BACKGROUND

Staff has not received any customer inquiries or complaints regarding PFAS in the past month.

The US Environmental Protection Agency (EPA) released its Strategic Roadmap for PFAS Action in 2021-2024 in October. The goals of the Strategic Roadmap are to: invest in research towards understanding exposure, toxicities, and effective interventions; develop a comprehensive approach to restrict PFAS from entering the environment; and expand and accelerate the cleanup of PFAS contamination.

The following PFAS related events and information have been received during the past month:

- OCWD Meetings – Information disseminated at the Special PFAS and Producers meetings included:
 - OCWD PFAS Pilot Program – OCWD’s Phase II pilot program is currently in operation with 5 columns and a 6th column is going to be added with a new product from Purolite. Phase 1 is nearing completion. OCWD will be running a start-stop test on Evoqua PSR2 plus and Fluorosorb to evaluate the impacts.
 - Public Outreach – The OCWD PFAS Update, prepared quarterly, is attached.
 - PFAS monitoring orders – The District continues quarterly monitoring for PFOA and PFOS in accordance with the current orders.
 - Proposed Legislation:
 - HR 2467 - PFAS Action Act of 2021. This bill establishes requirements and incentives to limit the use of perfluoroalkyl and polyfluoroalkyl substances, commonly referred to as PFAS, and remediate PFAS in the environment. The bill directs the Environmental Protection Agency (EPA) to designate the PFAS perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS) as a hazardous substances under CERCLA, thereby requiring remediation of releases of those PFAS into the environment. Within five years, the EPA must determine whether the remaining PFAS should be designated as hazardous substances. The EPA must also determine whether PFAS should be designated as toxic pollutants under the Clean Water Act. If PFAS are designated as toxic, then the EPA must establish standards to limit discharges of PFAS from industrial sources into waters of the United States. In addition, the EPA must issue a national primary drinking water regulation for PFAS that, at a minimum, includes standards for PFOA and PFOS. The Bill is in Senate Committee.
 - HR 3291 - Assistance, Quality, and Affordability Act of 2021. This Bill would amend the Safe Drinking Water Act to provide assistance for States, territories, areas affected by natural disasters, and water systems and

schools affected by PFAS or lead, and to require the Environmental Protection Agency to promulgate national primary drinking water regulations for PFAS, microcystin toxin, and 1,4-dioxane, and for other purposes. The Bill is in House Committee.

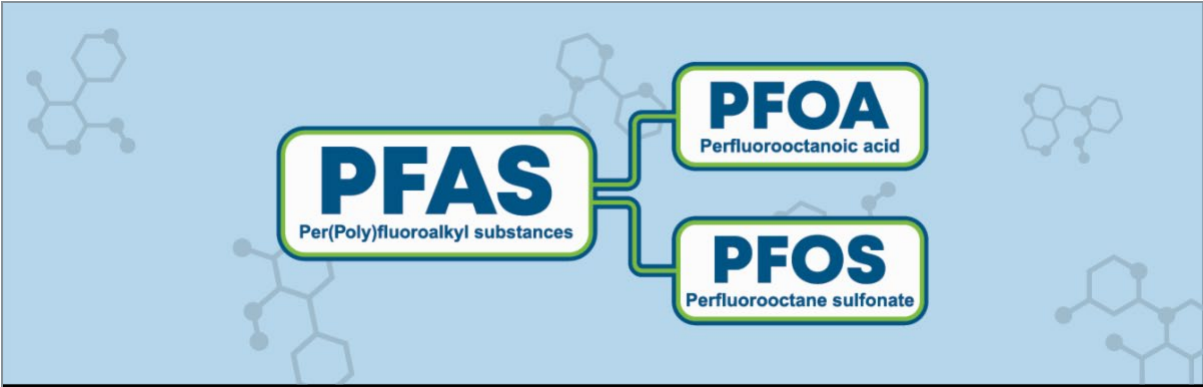
- PFAS Treatment Plant – The construction of the PFAS Treatment plant has been awarded to Pascal and Ludwig.
- Wells – The wells remain off, however, flushing and water quality testing is conducted weekly so that in the event of an emergency they can be turned back on immediately.

FINANCIAL IMPACT

No direct financial impact is associated with this report.

RECOMMENDATION

Information Only.



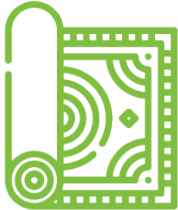
OCWD Quarterly PFAS Update December 2021

The Orange County Water District (OCWD; the District) strives to supply clean, reliable drinking water to 2.5 million customers every day. OCWD and the local water suppliers in its service area are committed to operating in compliance with all state and federal guidelines and regulatory requirements.

Per- and polyfluoroalkyl substances (PFAS) are a group of thousands of chemicals that are used to make carpets, clothing, fabrics for furniture, food packaging, cookware, and other materials to make them non-stick and/or resistant to water, oil, and stains. They are also used in a number of industrial processes and firefighting activities.

PFAS have been detected in the Orange County Groundwater Basin. OCWD provides regular PFAS updates to community stakeholders to inform them of the proactive measures that the District and local water suppliers have taken to address PFAS in the Basin.

For more background information, please see the materials below:



[Fact Sheet](#)

[FAQ](#)

REGULATORY HAPPENINGS



- In October the US Environmental Protection Agency (EPA) released its [Strategic Roadmap for PFAS Action in 2021-2024](#). The overarching goals of the strategy are to
 1. invest in research towards understanding exposure, toxicities, and effective interventions,
 2. develop a comprehensive approach to restrict PFAS from entering the environment, and
 3. expand and accelerate the cleanup of PFAS contamination.
- The Roadmap lays out numerous actions aimed at achieving these goals. These actions include the following:
 - Proposing to list PFOA and PFOS (and possibly other PFAS) as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) (*listing expected Spring 2022; final rule expected Summer 2023*).
 - Establishing finalized national drinking water standards for PFOA and PFOS by Fall 2023, and publishing health advisories for GenX and PFBS (*expected Spring 2022*).
 - Categorizing PFAS on the Toxic Release Inventory (TRI) list as “Chemicals of Special Concern” and removing the de minimis eligibility from supplier notification requirements to increase PFAS reporting (*expected Spring 2022*).
 - Expanding PFAS testing in drinking water as part of the Unregulated Contaminant

Monitoring Rule (UCMR) 5 sampling to include all public water systems that serve 3,300 or more people. UCMR 5 sample collection is planned to take place between January 2023 and December 2025.

- Restricting PFAS releases through Effluent Limitations Guidelines and monitoring requirements under the U.S. National Pollutant Discharge Elimination System (*expected 2022 and ongoing*).
 - Evaluating mitigation options for air emissions, including potentially listing certain PFAS as hazardous air pollutants under the U.S. Clean Air Act (*expected Fall 2022 and ongoing*).
 - Researching and validating analytical methods (including non-target analyses) and treatment methods for PFAS (*ongoing*).
- The EPA has asked its Science Advisory Board to review draft scientific documents regarding the health effects of certain PFAS.
 - EPA has transmitted to the Science Advisory Board four draft documents with recent scientific data and new analyses that indicate that negative health effects may occur at much lower levels of exposure to PFOA and PFOS than previously understood and that PFOA is a likely carcinogen. The draft documents present EPA's initial analysis and findings concerning this new information.
 - The California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) comment period for draft Public Health

Goals (PHGs) for PFOA and PFOS has ended. The next step is a peer-review process conducted by OEHHA with another PHG draft to be released in 2022. Final PHGs are expected next summer. Once finalized it will be approximately 2 to 3 years to set Maximum Contaminant Levels.

LEGISLATIVE HAPPENINGS

- The Bipartisan Infrastructure Law, signed by President Biden on November 15, 2021, invests \$10 billion to help communities test for and clean up PFAS and other emerging contaminants in drinking water and wastewater and can be used to support projects in disadvantaged communities.
 - The law includes approx. \$60 billion in USEPA programs and initiatives related to water infrastructure.
 - The USEPA has released a letter sent to Governors indicating how the funding will be allocated. California will receive approximately \$600 million for water and drinking water as well as for lead line removal and replacement. Funding will go through the State Revolving Fund (SRF) program.
- On October 5, 2021, California Governor Newsom signed into law the [California Safer Food Packaging and Cookware Act of 2021 \(Assembly Bill 1200\)](#), which establishes the protection and labeling of PFAS in food packaging and cookware. This law prohibits the distribution or sale of paper- or other plant-based food packaging items containing PFAS. The prohibition goes into effect on January 1, 2023.

- OCWD continues to monitor PFAS legislation and encourages water agencies and stakeholders to take action by contacting your federal legislators to advocate for the following priorities:
 - The "polluter pays" principle must be upheld and OCWD is advocating to add an exemption for water and wastewater agencies to the PFAS Action Act of 2021 (H.R. 2467)
 - When setting drinking water standards for PFOA and PFOS, the U.S. Environmental Protection Agency (USEPA) should utilize the current methodology.
- Please view [OCWD's Federal Legislative Priorities](#) document which contains more information on these issues and contact [OCWD Legislative Liaison Alicia Dunkin](#) to obtain draft resolutions and letters to legislators that may be used to advocate for these priorities.

LOCAL ACTIVITIES

- OCWD continues testing local water supplier wells in compliance with the third PFAS monitoring order that was formally issued by the state Division of Drinking Water (DDW) in March. The orders require year-long quarterly testing.
- OCWD and the local water suppliers continue making significant headway on new groundwater treatment facilities with the goal of getting wells back online as soon as possible.
 - Currently, 11 impacted local water suppliers are moving forward with the design or construction of facilities. Local water suppliers building facilities include the cities of

- Anaheim
- Fullerton
- Garden Grove
- Orange
- Santa Ana
- Tustin; and
- Serrano Water District
- East Orange County Water District
- Golden State Water Company
- Irvine Ranch Water District
- Yorba Linda Water District
- Construction is complete for Yorba Linda Water District and Serrano Water District whose facilities will be online in December. Additionally, Garden Grove's Well 21 is complete.
- Construction continues for the City of Garden Grove which is building facilities for four more wells and the City of Orange which is building facilities at four well sites.
- OCWD is in the design phase for six additional supplier facilities including East Orange County Water District, City of Fullerton, Golden State Water Company, Irvine Ranch Water District, City of Santa Ana, and City of Tustin.
- The [University of California, Irvine \(UCI\) led PFAS study](#) is planning to proceed with the recruitment of a small number of adults from its existing UCI research registry in December, and then scaling up to broader recruitment including children in late winter/early spring. 1,000 adults and 300 children are expected to be recruited for the study.
- The UCI study's website is in the final review. OCWD provided final feedback on behalf of the Community Advisory Group and Water Quality Panel.

MEDIA

PFAS are not exclusive to Orange County or even California. States across the country are in the midst of tackling PFAS in consumer products, groundwater supplies and other forms of contact. OCWD continues to monitor what is happening around the country on this issue.

[Forever chemicals found to be significantly more toxic than previously thought](#)

[Nessel, 18 AGs urge U.S. Senate to pass federal PFAS action bill](#)

[House Passes \\$1.75 Trillion 'Build Back Better' Bill To Protect Firefighters From 'Forever' Chemicals](#)

[US legislation banning 'forever chemicals' far from certain as Senate fight looms](#)

['Forever' Chemicals? Maybe Not, Thanks to Supercomputing](#)

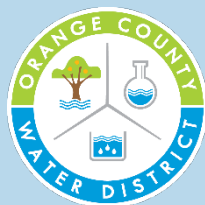
[The Water Replenishment District Files A Lawsuit Against 3M, DuPont And Others Over PFAS Contamination](#)

['Forever Chemicals' Might Raise Risk of Pregnancy Complication](#)

[4 new chemical technologies that could make an impact](#)

[DOD's PFAS Public Outreach Focuses on Cleanup Progress, PFAS-Free Firefighting Solutions, Officials Say](#)

[California Bans Toxic 'Forever Chemicals' in Food Packaging & Paper Straws](#)



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MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: VISTA PANORAMA RESERVOIR REPLACEMENT PROJECT – UPDATE
DATE: JANUARY 13, 2021

Background

The Vista Panorama Reservoir, hydropneumatic tank, and pump station provide domestic service and fire protection to a separate high elevation service area in Retail Zone Pressure Zones 1 and 2. A plan was created to build a new steel reservoir inside the existing concrete reservoir as well as perform other site improvements. The plan required relocation of cellular equipment on the site by the cellular company, and at the time, an agreement for the relocation could not be reached. Staff was nearing the completion of a redesign that was less impacted by the cellular equipment when concerned residents in the Vista Panorama community attended the Board meeting to voice their concerns in November of 2021. The residents' primary concerns are better communication about the project, reducing noise, improving aesthetics and the property line fences, and water quality and storage.

Prior to completing the design and moving forward with the construction, staff wanted to ensure the residents' concerns were addressed. Staff has held two virtual meetings with the residents, sent email updates, and the residents have expressed their appreciation of the improved communication and progress. Staff installed a plywood barrier to reduce the pump noise and held a virtual and site meeting with AT&T and T-Mobile regarding the noise and construction impacts to their equipment. They were receptive to relocation and are considering solutions to reduce the noise. The residents have expressed their desire to have a wall around the property to reduce the noise and improve the aesthetics. Staff is in the process of requesting budgetary estimates for the wall.

Contingent upon reaching an agreement with the cellular companies, staff expects to bid the project and construction to start in the spring.

Financial Impact

Funds have been budgeted in Account #7202101 for the Vista Panorama Reservoir Replacement Project.

Recommendation

Information only.

Attachments:

None

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: REHABILITATION OF THE NEWPORT RESERVOIR – BUDGET INCREASE AND AWARD OF CONSTRUCTION CONTRACT TO ADVANCED INDUSTRIAL SERVICES, INC.
DATE: JANUARY 13, 2022

Background

The Newport Reservoir was recoated in 2002. The coating has reached the end of its usable life and it is time to recoat the reservoir. In addition, minor structural repairs and ladder replacements are required. Harper and Associates was retained to design the improvements and the design was completed last year.

The project was advertised for construction bidding in December 2021 to a select list of seven contractors. All of the contractors attended the pre-bid meeting and Advanced Industrial Services and Paso Robles Tank submitted bids on January 6, 2022. Advanced Industrial Services is the apparent low bidder with a total bid amount of \$536,220. The Bid Summary is attached as Exhibit A. Staff identified a minor irregularity in Advanced Industrial Services bid, receipt of Addendum #1 was not acknowledged on the addenda form. The contractor did include a signed copy of Addendum #1 in their bid documents. This is an apparent clerical error. Staff conferred with legal counsel and legal counsel concurred that there is a sufficient basis for a factual finding by the Board that the irregularity in Advanced Industrial Services' bid is inconsequential and cannot have affected the bid amount or given the bidder a competitive advantage over the other bidders, as the bidder acknowledged Addendum #1 by placing his signature on the document and thus is bound by the addendum despite the failure to acknowledge. Staff recommends waiving the minor bid irregularity and awarding the construction contract to Advanced Industrial Services, Inc. in the amount of \$536,220.

Funds were included in the FY2021-22 Capital Budget in the amount of \$500,000. Staff recommends transferring Wholesale Zone Reserve Funds, in the amount of \$250,000 to the FY2021-22 Wholesale Zone Capital Budget to fund the project; staff is also requesting the inclusion of a \$50,000.00 contingency to address any unanticipated field conditions for a total construction budget of \$586,220.

Staff expects construction to begin in February and be completed in July.

Financial Impact

Funds have been budgeted in Account #7102138, in the amount of \$500,000, for the Newport Reservoir rehabilitation project. Funds in the amount of \$250,000 would be transferred from Wholesale Zone reserves to increase the budget in Account #7102138 to \$750,000.

REHABILITATION OF THE NEWPORT RESERVOIR – BUDGET INCREASE AND AWARD OF CONSTRUCTION CONTRACT TO ADVANCED INDUSTRIAL SERVICES, INC.
January 13, 2022

Recommendation

2

That the Committee recommend the Board approve A transfer of \$250,000 to the FY2021-22 Wholesale Zone Capital Improvement Budget Account #7102138 from Reserve Funds and amend the budget; find that the irregularity in the bid submitted by Advanced Industrial Services was minor in that it did not affect the amount of the bid or afford Advanced Industrial Services a competitive advantage over the other bidders and waive such irregularity; award a construction contract with Advanced Industrial Services, Inc in the amount of \$536,220; and authorize and approve the General Manager a \$50,000 contingency to address any unanticipated conditions for a total budget of \$586,220 for the construction of the Rehabilitation of the Newport Reservoir.

Attachments:

Exhibit A – Rehabilitation of the Newport Reservoir - Bid Summary

EXHIBIT A

4C



BID OPENING

LOCATION: 185 N MCPHERSON, ORANGE CA 92869

PROJECT: Rehabilitaiton of the Newport Reservoir

BID DATE: January 6, 2021 at 4:00pm

Contact: Jeff Smyth, Phone: 714.538.5815, email: jsmyth@eocwd.com

	Contractor's Name and Address	Total Bid Amount Schedule		
		Base Bid Items	Alternative Bid Items	Total Bid
1	Advanced Industrial Services, Inc 11712 Cherry St. Los Alamitos, CA 90720	\$500,400.00	\$35,820.00	\$536,220.00
2	Paso Robles Tank, Inc. PO Box 2810 Hemet, CA 92546	\$671,750.00	\$37,240.00	\$708,990.00

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: ID1 CRA PROJECT #1 - CONSTRUCTION PACKAGE #1 – STATUS UPDATE
DATE: JANUARY 13, 2021

Background

At the December 2 Special Meeting, the Board awarded a construction contract to T.E. Roberts for the construction of the ID1 CRA Project #1 – Construction Package #1. Construction on this expedited portion began on December 15 in order to avoid a potential conflict with a City of Tustin paving project, scheduled for spring break (mid-March), and to complete the portion of the work in front of UTT Middle School while the school was closed for Christmas break. While every effort was made to complete the work during the school break, the contractor was not able due to rain delays and dump closures. Through excellent communication from staff to the Tustin Unified School District and the UTT Middle School Principal, and with support from the contractor, the construction was able to continue after school resumed with only minor disruption. The contractor has completed the most critical segment near the Browning and Bryan intersection in front of the school. Additional costs have been incurred on the project due to double handling of the soil to keep the project moving during the dump closures and additional asphalt repair due to poor soil and no base beneath the asphalt.

Staff expects construction to be completed in April.

Financial Impact

Funds have been budgeted in Account #7302120 for the ID1 CRA Project.

Recommendation

Information only.

Attachments:

None

December 2021 - Sewer Connection & Wholesale Connection Permits

Connection Address	Type of Development	Permit No	APN	Date Issued	Regional CFCC (OCSD) Fees	Local Capacity Chage Fees	Inspection Fees	Total Sewer	Wholesale Connection Meter Fees	Water District	Total
18861 Fairhaven Ext. Santa Ana, CA 92705	ADU	21-79	393-011-22	12/13/2021	\$ -	\$ 1,334.50	\$ -	\$ 1,334.50	\$ -	Tustin	\$ 1,334.50
12107 Red Hill Ave. Santa Ana, CA 92705	SFR	21-86	502-131-16	12/17/2021	\$ 2,084.00	\$ -	\$ -	\$ 2,084.00	\$ -	Tustin	\$ 2,084.00
17922 and 17932 Bigelow Park, Tustin, CA 92780	ADU	21-93	401-422-08	11/22/2021	\$ 2,171.52	\$ 1,019.70	\$ 800.00	\$ 3,991.22	\$ -	Tustin	\$ 3,991.22
550 S. B. St. Tustin, CA 92780	SFR; ADU	21-95	401-372-17	12/2/2021	\$ 1,380.17	\$ 879.21	\$ 800.00	\$ 3,059.38	\$ 1,904.00	Tustin	\$ 4,963.38
1532 Squires Dr. Santa Ana, CA 92705	SFR; ADU	21-115	502-412-17	12/20/2021	\$ 3,004.63	\$ 1,120.68	\$ -	\$ 4,125.31	\$ -	GSWC	\$ 4,125.31
10461 Grove Oak Dr. Santa Ana, CA 92705	ADU	21-118	503-142-19	12/13/2021	\$ -	\$ -	\$ -	\$ -	\$ -	GSWC	\$ -
Totals					\$ 8,640.32	\$ 4,354.09	\$ 1,600.00	\$ 14,594.41	\$ 1,904.00		\$ 16,498.41

December 2021 - In the Pipeline

Connection Address	Type of Development	Permit No	APN	Water District	Permit Status
9922 Newport Blvd, Santa Ana, 92705	New Construction - 16 SFRs	21-56 to 21-71	VTM No. 18062	GSWC	Pending Permit Issuance
9801 Brier Lane, Santa Ana, 92705	New Construction - 5 SFRs	21-72 to 21-75	503-321-01, 503-321-02	GSWC	Pending Permit Issuance
9751 Brier Lane, Santa Ana, 92705	Septic Conversion	21-77	503-321-16	GSWC	Pending Plans
9761 Brier Lane, Santa Ana, 92705	Septic Conversion	21-78	503-321-14	GSWC	Pending Plans
13391 Coral Reef Rd. Tustin, CA 92780	ADU; Detached; 998sf	21-83	103-594-06	Tustin	Pending customer response
1532 Garland Ave. Tustin, CA 92780	ADU; Detached;	21-89	103-471-36	Tustin	Pending customer response
13721 Malena Dr. Tustin, CA 92780	ADU; Detached; 252 sq ft.	21-98	395-273-19	Tustin	Pending payment and signature
1941 El Camino Real, Tustin, CA 92780	Multifamily	21-99	500-712-12	Tustin	Pending Application and Plan Check Fee
145 Lockwood Park Pl. Tustin, CA 92780	ADU; Garage Conversion	21-102	401-532-30	GSWC	Pending revised plans
150 Lockwood Park Place, Tustin, CA 92780	ADU;	21-104	401-533-12	Tustin	Pending revised plans
11151 Cherryhill Dr. Santa Ana, CA 92705	SFR; Room Add.	21-105	503-052-03	Tustin	Pending payment and signature
12881 Rosalind Dr. Santa Ana, CA 92705	ADU	21-107	094-344-29	Tustin	Pending submittal of plans
18751 E. Center Ave. Orange, CA 92869	SFR Connection; ADU; Detached	21-108	383-082-63	Orange	Pending payment and signature
1611 El Camino Real, Tustin, CA 92705	Commerical; Sq. Ft. Addiion	21-110	500-022-10	Tustin	Pending payment and signature
535 E. Main St. Tustin, CA 92780	Commerical	21-112	401-612-04	Tustin	Pending payment and signature
14011 Woodland Ave. Tustin, CA 92780	ADU; Detached	21-115	432-052-13	Tustin	Pending customer response
18874 Fowler Ave. Santa Ana, CA 92705	ADU; Garage Conversion	21-116	393-301-17	EOCWD	Pending customer response
11872 Gladstone Dr. Santa Ana, CA 92705	SFR;	21-117	502-062-02	Tusitn	Pending customer response
685 W. Main St. Tustin, CA 92780	ADU; Detached	21-120	401-552-11	Tusitn	Pending revised plans
12278 Alta Panorama, Santa Ana, CA 92705	ADU; Detached	21-121	094-202-10	EOCWD	Pending revised plans
1962 Ren Circle, Tustin CA, 92705	ADU; Attached	21-122	432-222-07	Tustin	Pending customer response
12592 Singing Wood Dr. Santa Ana, CA 92705	SFR; BDRM Addition	21-123	103-353-05	Tustin	Pending payment and signature
17802 Irvine Blvd. Tustin, CA 92780	Commercial	21-124	401-414-13	Tustin	Pending Plans
14352 Holt Ave. Tustin, CA 92780	ADU	21-125	401-122-12	Tustin	Pending customer response
1091 Old Irvine Blvd. Tustin, CA 92780	Commercial	21-126	501-081-06	Tustin	Pending customer response

MEMO

TO: ENGINEERING AND OPERATIONS COMMITTEE
FROM: GENERAL MANAGER
SUBJECT: UPDATE SEWER STANDARDS – BUDGET INCREASE
DATE: JANUARY 13, 2022

Background

A project was included in the FY2021-22 capital budget in the amount of \$30,000 to update the District's Sewer Standards. The preferred consultant, MKN Associates, provided a proposal to complete the sewer standards update of approximately \$42,000 including optional items. While this is within the General Managers approval level, it is above the budgeted amount. MKN is preferred for the work as they just completed a similar update for the Las Virgines Municipal Water District and they provided excellent performance. Staff recommends transferring ID1 Reserve Funds, in the amount of \$15,000 to the FY2021-22 ID1 Capital Budget to fund the project.

Financial Impact

Funds have been budgeted in ID1 Account #7302226, in the amount of \$30,000, for the sewer standards update. Funds in the amount of \$15,000 would be transferred from ID1 reserves to increase the budget in Account #7302226 to \$45,000.

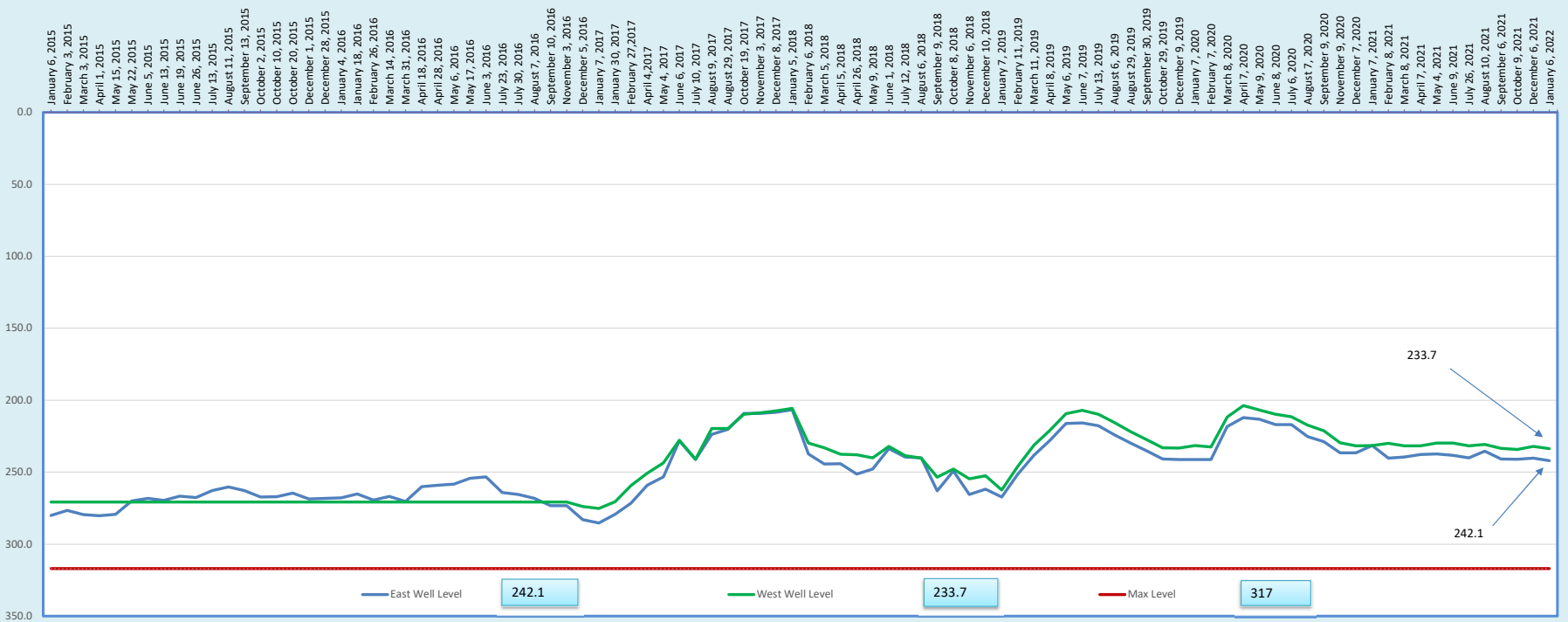
Recommendation

That the Committee recommend the Board approve the transfer of \$15,000 to the FY2021-22 ID1 Capital Improvement Budget Account #7302226 from reserve funds and amend the budget.

Attachments:

None

East Well & West Well Pumping Water Levels



East Orange County Retail Zone Water Usage Report

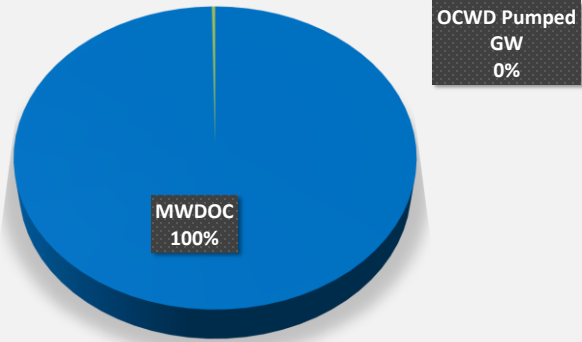
5B

East Orange County Retail Zone Overview of Usage FY 2021-22 Monthly Water Use

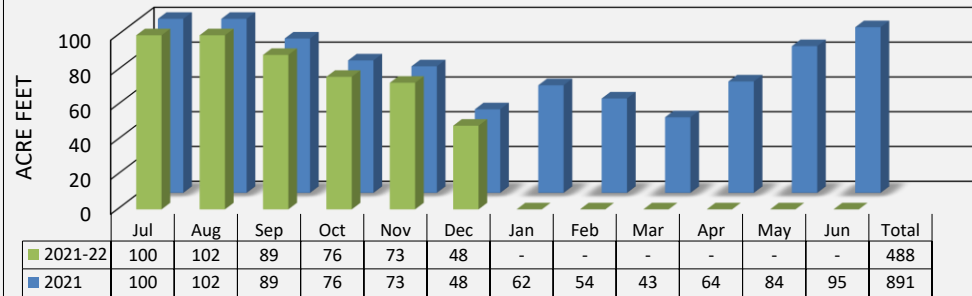
Type of Supply	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWDOC	100	102	89	76	73	48	-	-	-	-	-	-	488
OCWD Pumped GW	0.2	0.3	0.3	0.3	0.3	-	-	-	-	-	-	-	1
Total	100	103	89	76	73	48	-	-	-	-	-	-	489

2021 MWDOC Usage	July	August	September	October	November	December	January	February	March	April	May	June	Total
	100	102	89	76	73	48	62	54	43	64	84	95	891

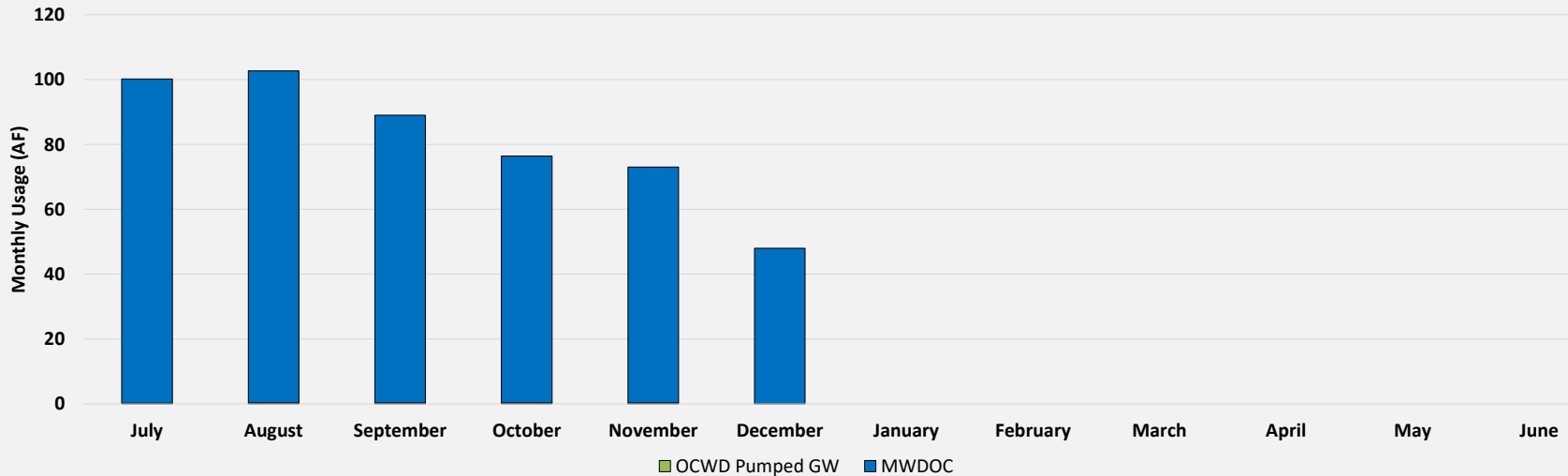
2021-22 Sources of Water



MWDOC Calendar Year and Fiscal Year Purchases



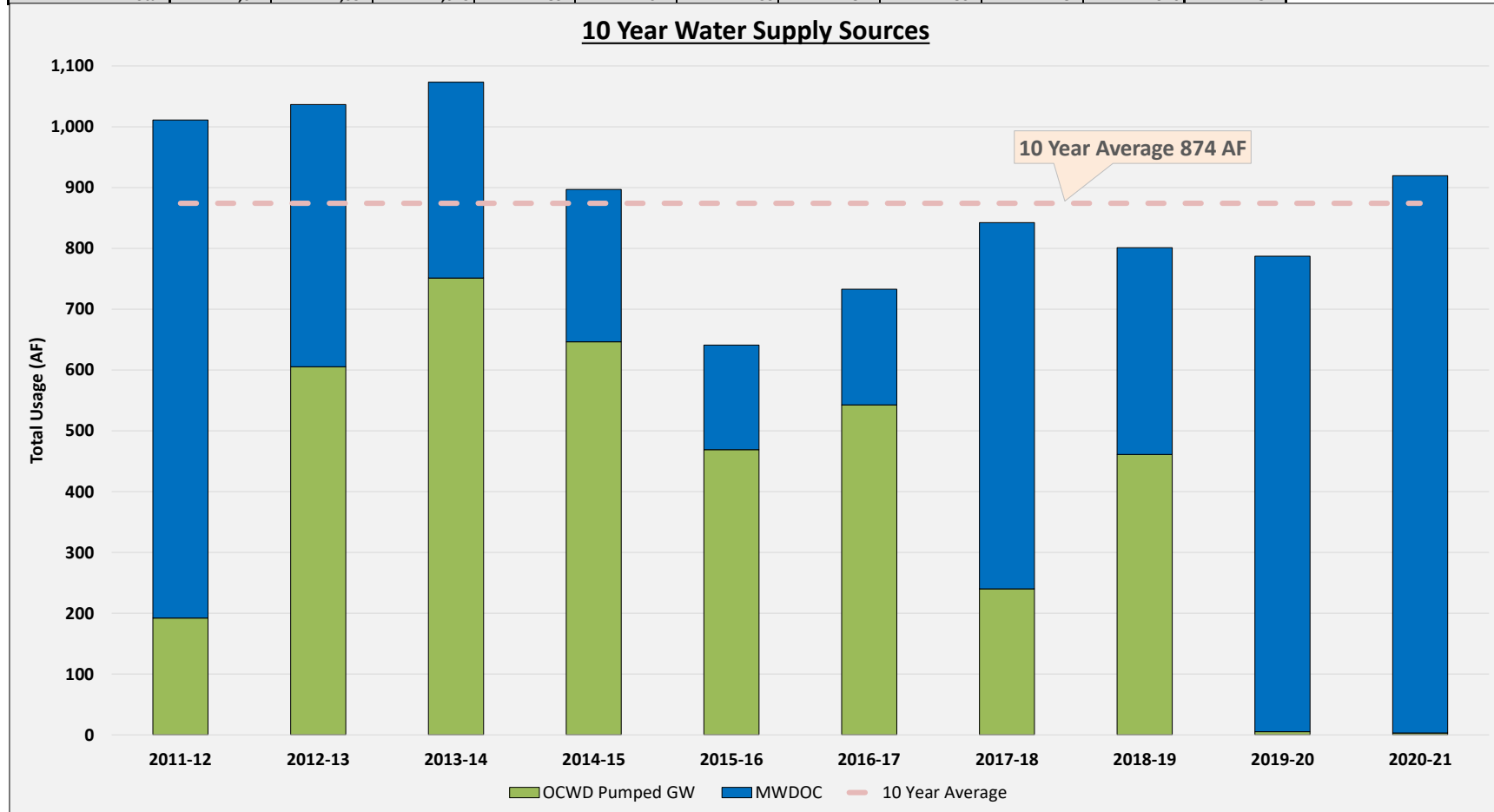
2021-22 Monthly Water Supply Sources



East Orange County Retail Zone Water Usage Report

Annual Water Usage

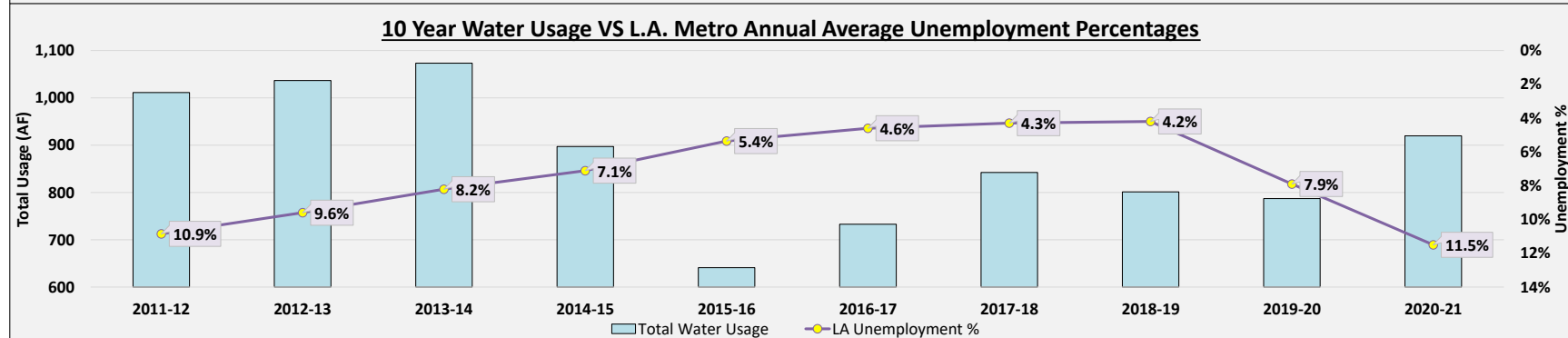
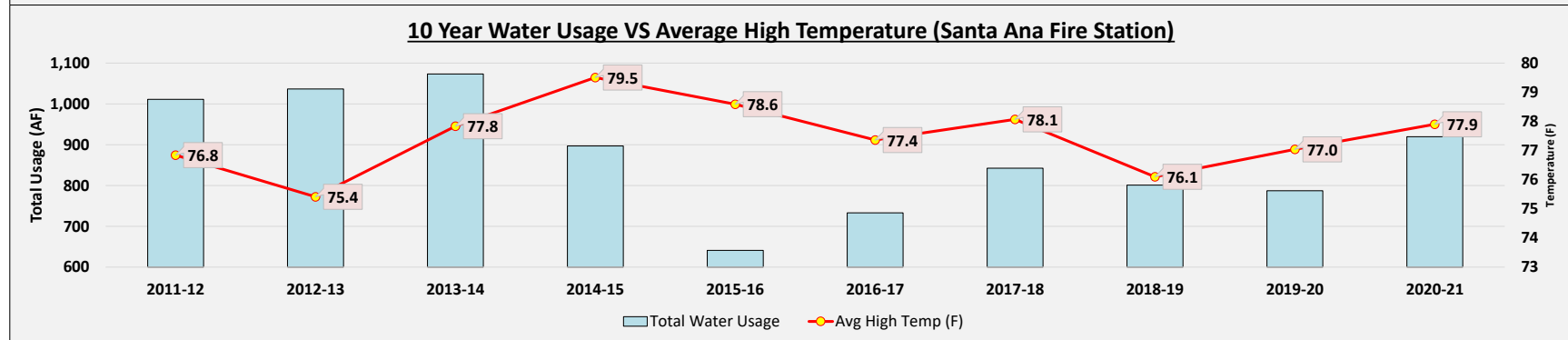
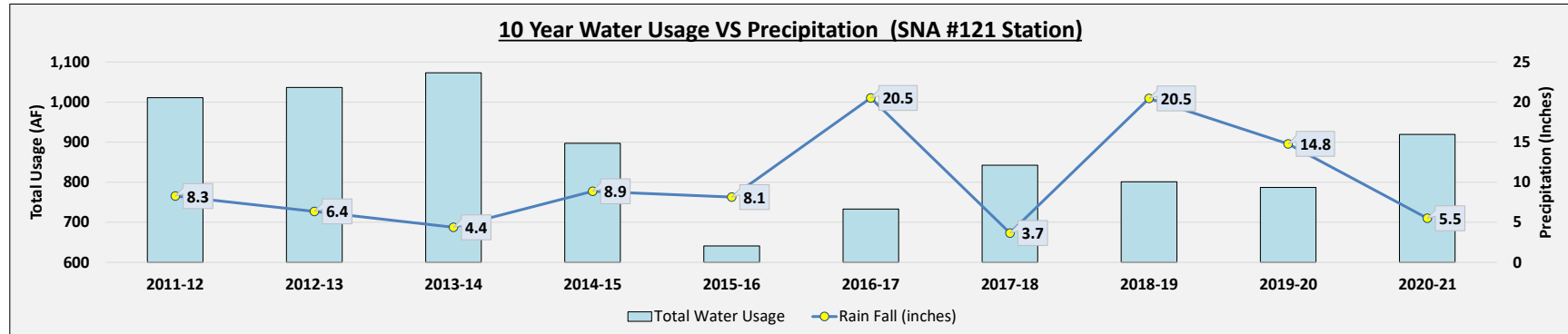
Type of Supply	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Average
MWDOC	819.1	431.3	322.0	250.7	172.1	190.2	602.1	340.0	781.8	916.4	482.6
OCWD Pumped GW	192.1	605.2	751.3	646.3	468.9	542.7	240.2	461.0	5.2	3.1	391.6
Total	1,011	1,037	1,073	897	641	733	842	801	787	920	874



East Orange County Retail Zone Water Usage Report

Water Usage Variables

Type of Supply	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	Average
Rain Fall (inches)	8.3	6.4	4.4	8.9	8.1	20.5	3.7	20.5	14.8	5.5	10.1
Avg High Temp (F)	76.8	75.4	77.8	79.5	78.6	77.4	78.1	76.1	77.0	77.9	77.5
LA Unemployment %	10.9%	9.6%	8.2%	7.1%	5.4%	4.6%	4.3%	4.2%	7.9%	11.5%	7.4%
Total Water Usage	1,011	1,037	1,073	897	641	733	842	801	787	920	874



East Orange County Retail Zone Water Usage Report

East Orange County Retail Zone Detailed Usage Historical Monthly Potable Usage (Fiscal Year, July-June)

Fiscal Year	July	August	September	October	November	December	January	February	March	April	May	June	Total
2015-16 Usage	54	69	60	46	61	45	29	46	64	35	63	69	641
2016-17 Usage	82	87	70	68	58	44	37	32	43	70	70	79	738
2017-18 Usage	87	98	77	81	60	70	53	49	45	67	71	84	842
2018-19 Usage	107	99	85	73	62	40	47	29	43	61	59	77	781
2019-20 Usage	82	87	86	83	68	46	47	56	38	52	67	76	787
2020-21 Usage	90	99	93	91	75	68	62	54	44	64	85	95	920
Average of Last 6 FYs	83	90	78	74	64	52	46	44	46	58	69	80	785
Monthly Usage Percentage	11%	11%	10%	9%	8%	7%	6%	6%	6%	7%	9%	10%	100%

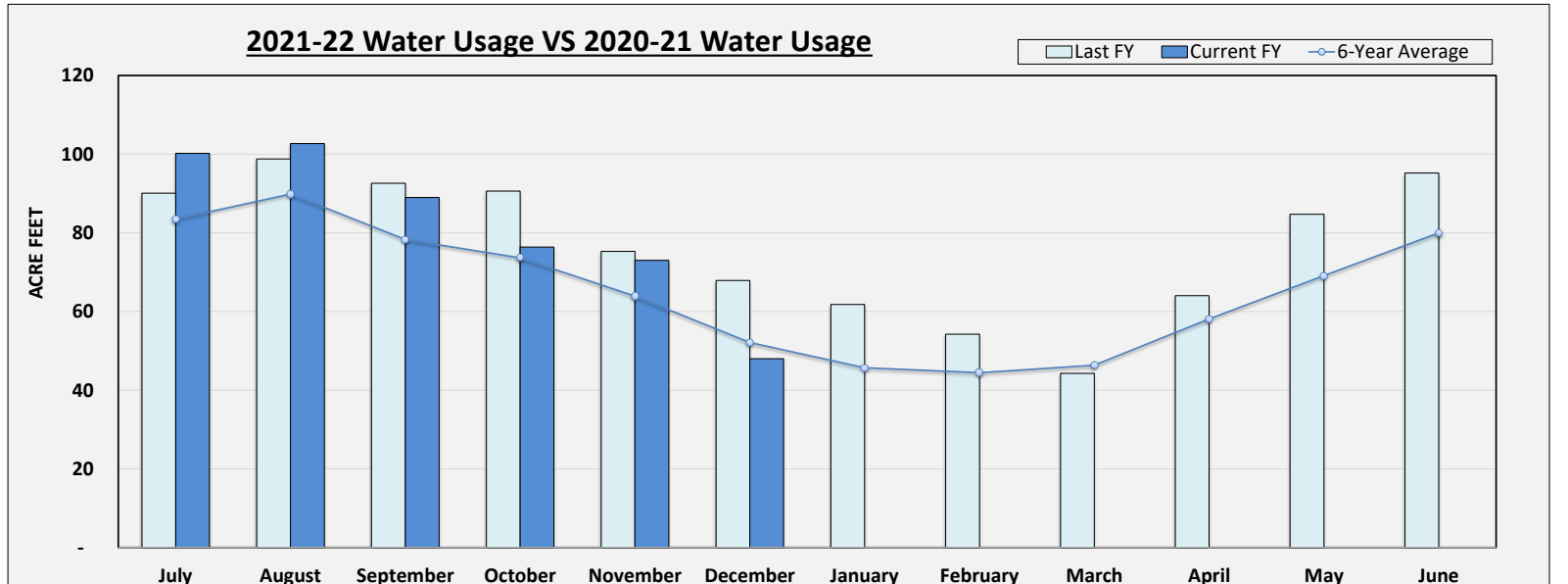
Water Usage By Source

Imported	July	August	September	October	November	December	January	February	March	April	May	June	Total
MWD via EO Wholesale	100.0	102.4	88.7	76.1	72.7	48.0							487.9
Water from IRWD during OC-70 shutdo	-	-	-	-	-	-							-
CPTP	-	-	-	-	-	-							-
MWD In-Lieu*	-	-	-	-	-	-							-
Imported Total	100	102	89	76	73	48	-	-	-	-	-	-	487.9

*In-lieu totals are subtracted from imported totals

Local	July	August	September	October	November	December	January	February	March	April	May	June	Total
OCWD Pumped GW	0.2	0.3	0.3	0.3	0.3	-							1.4
Less Fill up Reservoir	-	-	-	-	-	-							-
Less CPTP	-	-	-	-	-	-							-
Local Total (minus reservoir)	0.2	0.3	0.3	0.3	0.3	-	-	-	-	-	-	-	1.4

Total Usage 2021-22 (minus reservoir)	100	103	89	76	73	48	-	-	-	-	-	-	489
FY 20-21 versus FY 21-22	+11%	+4%	-4%	-16%	-3%	-29%							

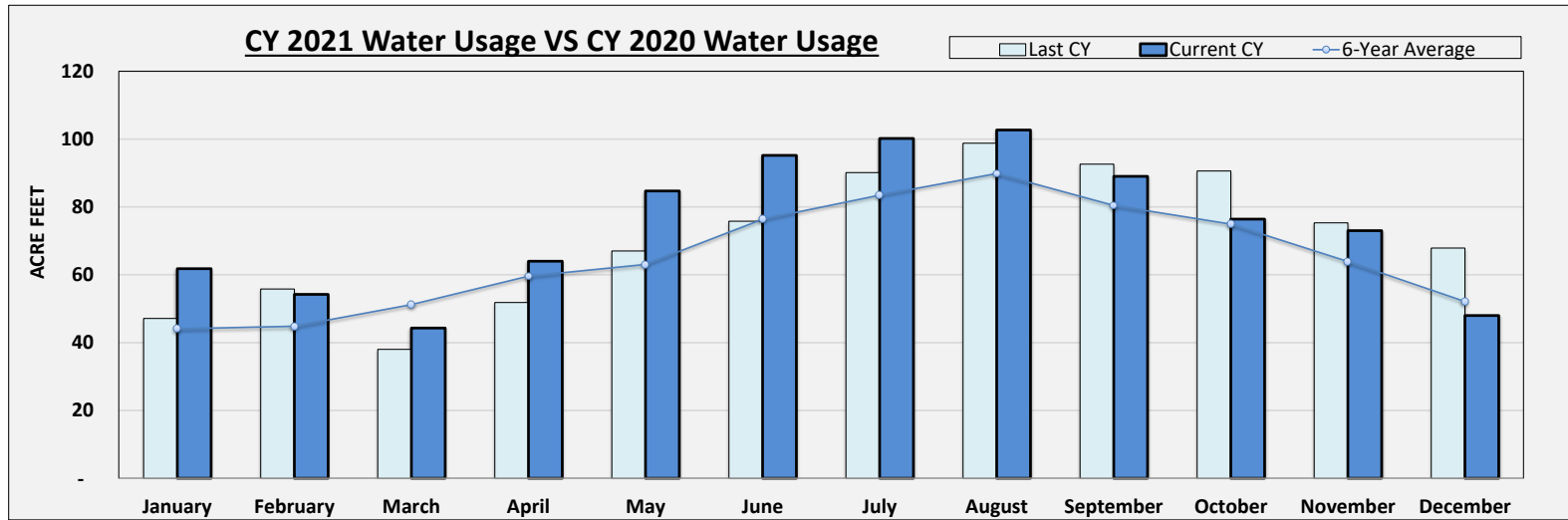


East Orange County Retail Zone Water Usage Report

Historical Monthly Potable Usage (Calendar Year)

Calendar Year	January	February	March	April	May	June	July	August	September	October	November	December	Total
2015	59	53	72	73	52	74	54	69	60	46	61	45	718
2016	29	46	64	35	63	69	82	87	70	68	58	44	713
2017	31	32	43	70	70	79	87	98	77	81	60	70	798
2018	53	49	45	67	71	84	107	99	97	81	62	40	855
2019	45	33	45	61	55	77	82	87	86	83	68	46	767
2020	47	56	38	52	67	76	90	99	93	91	75	68	851
6 year Average	44	45	51	60	63	76	83	90	80	75	64	52	784

Total Water Usage 2021	62	54	44	64	85	95	100	103	89	76	73	48	894
2021 VS 2020 Usage	+31%	-3%	+17%	+24%	+26%	+26%	+11%	+4%	-4%	-16%	-3%	-29%	



	Population	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2020 Usage (AF)	3,210	47	56	38	52	67	76	90	99	93	91	75	68	851
2020 GPCD		154	202	124	175	219	256	295	324	313	297	255	222	237
2021 Usage (AF)	3,222	62	54	44	64	85	95	100	102	89	76	73	48	892
2021 GPCD		202	196	144	216	276	321	326	334	299	248	245	157	247
CY over CY change in GPCD		+47	-6	+20	+40	+57	+64	+31	+11	-14	-48	-10	-66	+11

	Population	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
2020-21 Usage (AF)	3,210	90	99	93	91	75	68	62	54	44	64	85	95	920
2020-21 GPCD		295	324	313	297	255	222	202	197	145	217	277	322	256
2021-22 Usage (AF)	3,222	100	102	89	76	73	48	-	-	-	-	-	-	488
2021-22 GPCD		326	334	299	248	245	157	-	-	-	-	-	-	268
FY over FY change in GPCD		+31	+11	-14	-48	-10	-66							+12

*Cumulative through the end of the last month shown

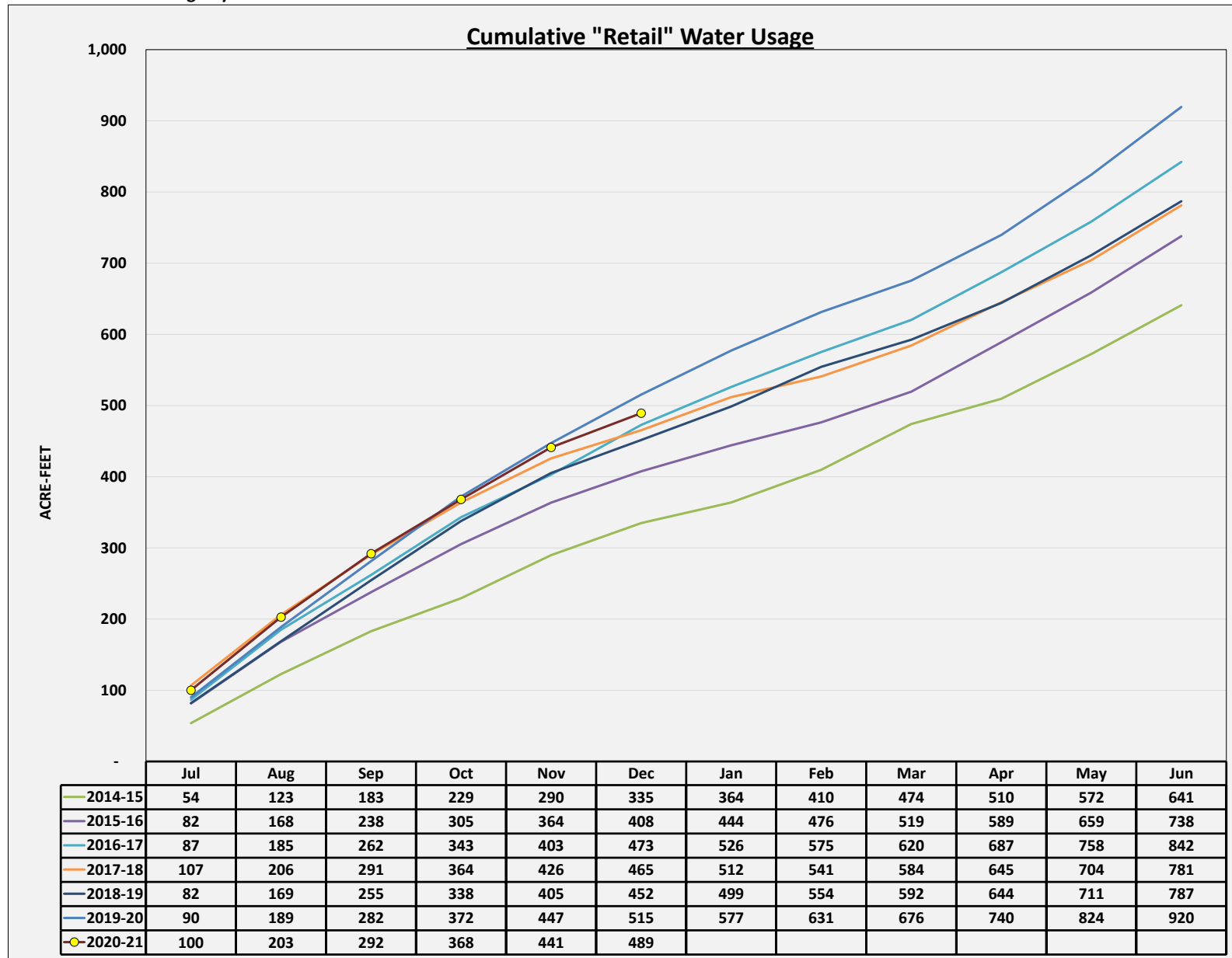
*GPCD = (Total Monthly Production - Fill up Reservoir) / Population/days in the month

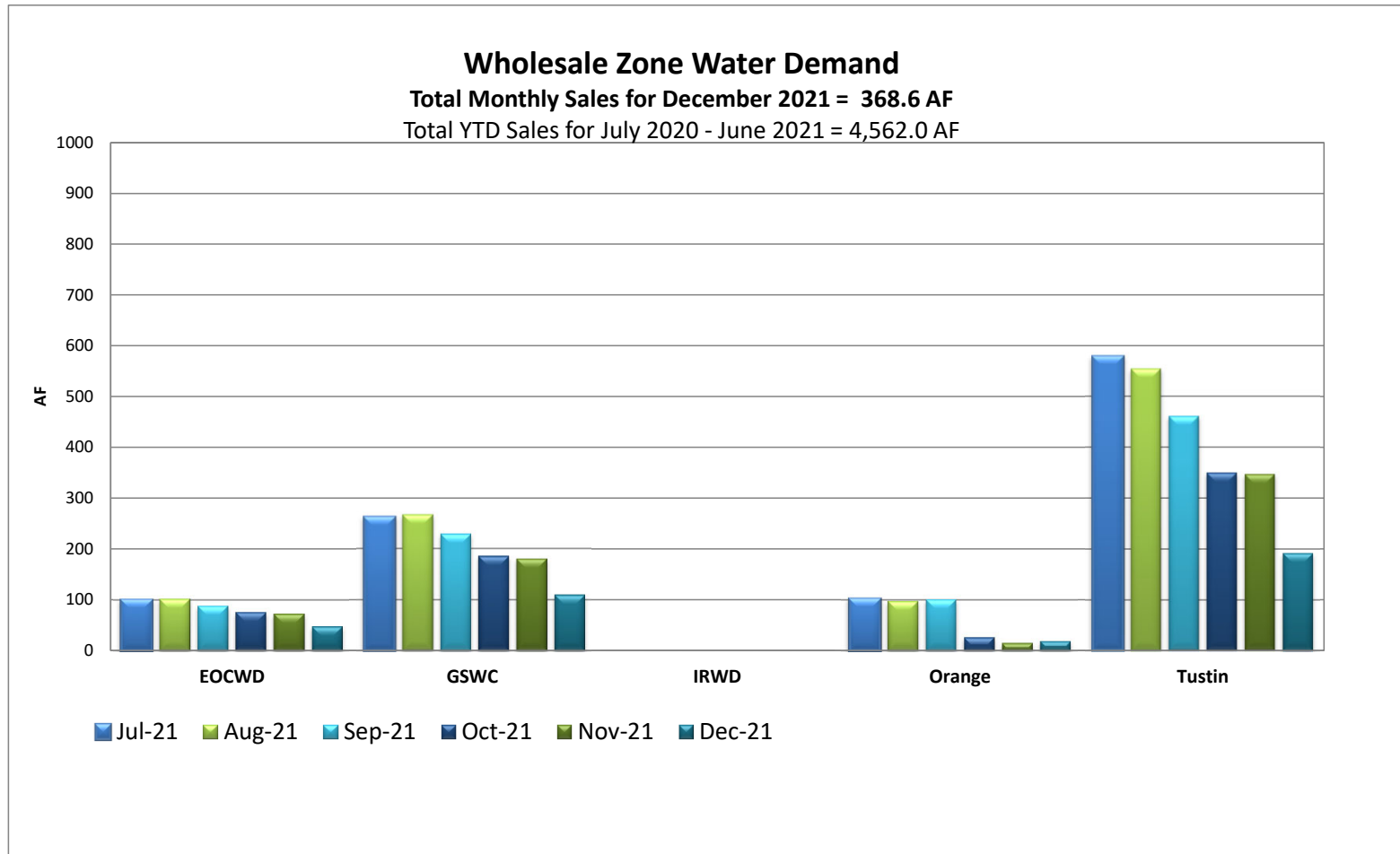
*For the months of July through December 2021, groundwater usage was not delivered to customers and is not counted towards GPCD



East Orange County Retail Zone Water Usage Report

Cumulative Water Usage by Fiscal Year





EOCWD IMPORTED WATER DELIVERY BALANCE - FY21/22

(Acre-feet)

	OC-43	OC-48				OC-70						TOTAL DELIVERIES BY AGENCY				
	MWD Tustin	Retail Zone	Golden State	Tustin	MWD Total	IRWD Jamboree	Orange	Retail Zone	Golden State	Tustin	MWD Total	IRWD OPA	Orange	Retail Zone	Golden State	Tustin
JUL	357.4	0.0	22.0	218.5	240.5	0.0	101.6	100.0	238.7	1.8	442.1	0.0	101.6	100.0	260.7	577.7
AUG	315.3	0.0	21.7	237.3	259.0	0.0	97.8	102.4	244.3	1.7	446.3	0.0	97.8	102.4	266.0	554.3
SEP	258.6	0.0	16.1	196.1	212.2	0.0	101.1	88.7	212.9	6.7	409.4	0.0	101.1	88.7	229.0	461.4
OCT	188.5	0.0	13.9	145.7	159.6	0.0	26.3	76.1	171.4	15.6	289.4	0.0	26.3	76.1	185.3	349.8
NOV	194.4	0.0	15.0	147.9	162.9	0.0	15.1	72.7	165.3	4.7	257.8	0.0	15.1	72.7	180.3	347.0
DEC	98.6	0.0	8.8	92.2	101.0	0.0	19.1	48.0	100.9	1.0	169.0	0.0	19.1	48.0	109.7	191.8
JAN												0.0	0.0	0.0	0.0	0.0
FEB*												0.0	0.0	0.0	0.0	0.0
MAR												0.0	0.0	0.0	0.0	0.0
APR												0.0	0.0	0.0	0.0	0.0
MAY												0.0	0.0	0.0	0.0	0.0
JUN												0.0	0.0	0.0	0.0	0.0
Total	1412.8	0.0	97.5	1037.7	1135.2	0.0	361.0	487.9	1133.5	31.5	2014.0	0.0	361.0	487.9	1231.0	2482.0