



BOARD MEETING AGENDA
Monday, August 10, 2015
Regular Meeting - 7:00 P.M.

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Boardroom
5072 Benson Road
Union City, CA 94587

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

1. Call to Order.

2. Pledge of Allegiance.

3. Roll Call.

Motion

4. Approve Minutes of the Meeting of July 27, 2015.

5. Written Communications.

6. Oral Communications.

The public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District office at least one working day prior to the meeting). This portion of the agenda is where a member of the public may address and ask questions of the Board relating to any matter within the Board's jurisdiction that is not on the agenda. If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. Oral comments are limited to three minutes per individuals, with a maximum of 30 minutes per subject. Speaker's cards will be available in the Boardroom and are to be completed prior to discussion.

Motion

7. Resolution No. _____, Accept a Sanitary Sewer Easement for Tract 8119 Located Between Alice Street and Washington Boulevard in the City of Fremont *(to be reviewed by the Legal/Community Affairs Committee)*.

Motion

8. Review and Approve New Fact Sheet Regarding Recently Adopted Sewer Service Charges *(to be reviewed by the Legal/Community Affairs Committee)*.

Information

9. Information Items:

a. Check Register.

b. CalPERS Replacement Benefit Plan *(to be reviewed by the Budget & Finance Committee)*.

c. Fourth Quarterly Report on the Capital Improvement Plan *(to be reviewed by the Construction Committee)*.

- d. Status of Priority 1 Capital Improvement Plan (CIP) Projects *(to be reviewed by the Construction Committee)*.
- e. Report on the East Bay Dischargers Authority (EBDA) Commission meeting of July 16, 2015.

- Information 10. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
- a. Construction Committee – Wednesday, August 5, 2015, at 9:00 a.m.
 - b. Budget & Finance Committee – Thursday, August 6, 2015, at 8:30 a.m.
 - c. Legal/Community Affairs Committee – Friday, August 7, 2015, at 9:15 a.m.
 - d. Personnel Committee – will not meet.

- Information 11. General Manager’s Report. *(Information on recent issues of interest to the Board)*.

- Information 12. Other Business:
- a. Comments and questions. *Directors can share information relating to District business and are welcome to request information from staff.*
 - b. Scheduling matters for future consideration.

13. Adjournment – The Board will adjourn to a Special Meeting in the Boardroom on Monday, August 17, 2015, at 4:00 p.m.

14. Adjournment – The Board will then adjourn to the next Regular Meeting in the Boardroom on Monday, August 24, 2015, at 7:00 p.m.

The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).

If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. If the subject is within the Board’s jurisdiction but not on the agenda, the speaker will be heard at the time “Oral Communications” is calendared. Oral comments are limited to three minutes per individual, with a maximum of 30 minutes per subject. Speaker’s cards will be available in the Boardroom and are to be completed prior to discussion of the agenda item.

The facilities at the District Offices are wheelchair accessible. Any attendee requiring special accommodations at the meeting should contact the General Manager’s office at (510) 477-7503 at least 24 hours in advance of the meeting.

THE PUBLIC IS INVITED TO ATTEND

**NOTICE OF
COMMITTEE MEETING**



All meetings will be held in
the General Manager's Office
5072 Benson Road, Union City, CA 94587

BOARD MEETING OF AUGUST 10, 2015

Committee Membership:

Budget and Finance	Directors Manny Fernandez and Pat Kite (Alt. – Jennifer Toy)
Construction Committee	Directors Tom Handley and Jennifer Toy (Alt. – Pat Kite)
Legal/Community Affairs	Directors Pat Kite and Anjali Lathi (Alt. – Tom Handley)
Legislative Committee	Directors Manny Fernandez and Tom Handley (Alt–Pat Kite)
Personnel Committee	Directors Manny Fernandez and Jennifer Toy (Alt. – Anjali Lathi)
Audit Committee	Directors Anjali Lathi and Jennifer Toy (Alt. Manny Fernandez)

Construction Committee, Wednesday, August 5, 2015, at 9:00 a.m.

- 9c. Fourth Quarterly Report on the Capital Improvement Plan.
- 9d. Status of Priority 1 Capital Improvement Plan.

Budget & Finance Committee, Thursday, August 6, 2015, at 8:30 a.m.

- 9b. CalPERS Replacement Benefit Plan.

Legal/Community Affairs Committee, Friday, August 7, 2015, at 9:15 a.m.

- 7. Resolution No. _____, Accept a Sanitary Sewer Easement for Tract 8119 Located Between Alice Street and Washington Boulevard in the City of Fremont.
- 8. Review and Approve New Fact Sheet Regarding Recently Adopted Sewer Service Charges.

Committee meetings may include teleconference participation by one or more Directors.
(Gov. Code Section 11123)

Committee Meetings are open to the public. Only written comments will be considered. No action will be taken.

**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
July 27, 2015**

CALL TO ORDER

President Toy called the meeting to order at 7:00 p.m.

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Jennifer Toy, President
Pat Kite, Secretary
Manny Fernandez, Director

ABSENT: Tom Handley, Vice President
Anjali Lathi, Director

STAFF: Paul Eldredge, General Manager
Dave O'Hara, District Counsel
Karen Murphy, Special District Counsel
Rich Cortés, Business Services Manager
Sami Ghossain, Technical Services Manager
James Schofield, Collection Services Manager
Michelle Powell, Communications Coordinator
Maria Scott, Principal Financial Analyst
Regina McEvoy, Assistant to the GM/Board Secretary

GUESTS: Alice Johnson, League of Women Voters

APPROVAL OF THE MINUTES OF THE MEETING OF JULY 13, 2015

It was moved by Director Fernandez, seconded by Secretary Kite, to Approve the Minutes of the Regular Meeting held June 22, 2015. Motion carried with the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

MONTHLY OPERATIONS REPORT FOR JUNE 2015

This item was reviewed by the Budget & Finance Committee. General Manager Eldredge reported the following:

- Odor Complaints: There were no odor complaints in June 2015.

- Safety:
 - A forklift was driving in the Co-Gen building and the floor grating began to collapse. Staff has identified the floor grating as not being rated for vehicle traffic, and the area is being marked to warn vehicles from driving over the grating.
- Hours Worked and Leave Time by Work Group:
 - At-work hours per employee per week is above the target of 34.
 - While the District met the goal of less than 47 hours of average annual sick leave per employee, not all work groups met the same goal. Currently, the sick leave chart includes time off through FMLA (Family and Medical Leave Act). Staff will be working on a new chart which will separate FMLA hours from standard sick leave.

Principal Financial Analyst Scott reported the following on behalf of Business Services:

- Revenues:
 - \$609,647 received in capacity fees in June
 - The final Sewer Service Charge payment is expected to be received in August.
- Expenses:
 - All Work Groups were under budget at the end of the fiscal year.
 - Operating expenses were under budget at the end of the fiscal year.

General Manager Eldredge reported the following:

- Technical Services:
 - Customer Service:
 - 18 trouble calls dispatched
 - 2 new lateral permits issued
 - Assisted with outreach for the recent public hearing
 - Environmental Compliance
 - Completed 73 Stormwater (Urban Runoff) inspections, of which 23 resulted in enforcement action.
 - Completed 86 FOG (fats, oils, and grease for restaurants) inspections, of which 33 resulted in enforcement action.
- Collection Services:
 - Completed over 21 miles of cleaning
 - Completed over 15 miles of televising sewer lines
 - Provided support for the following projects: Fremont and Union City overlay projects, Mobile Technologies' Study, and Newark Lateral Relocation
- Fabrication, Maintenance, and Construction:
 - Completed 98% of preventative maintenance activities for the month of June
 - Completed 103 corrective maintenance work orders for the month of June
 - Completed work on the cheese waste project
- Treatment & Disposal:
 - Completed process of going down to one forcemain, due to lower flows and materials sitting in the forcemain too long. The District has seen a \$500/day savings in chemicals.
 - Cogen produced 73% of power consumed for the plant during the month of June

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications.

RESOLUTION NO. 2765, HONORING DISTRICT GENERAL COUNSEL DAVID M. O'HARA UPON HIS RETIREMENT

General Manager Eldredge thanked General Counsel O'Hara for his service to the District and read the resolution aloud.

It was moved by Director Fernandez, seconded by Secretary Kite, to approve Resolution No. 2765, Honoring District General Counsel Davis M. O'Hara Upon His Retirement. Motion carried by the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

APPROVE THE SALARY FOR THE POSITION OF BUYER I

This item was reviewed by the Personnel Committee. Business Services Coach Destafney stated the District's Buyer II will be retiring in September, and the upcoming recruitment will be for the position of Buyer I/II. The District has not had a Buyer I in many years, and the job description has not been reviewed since 1993. Staff updated the job description to include current duties and terminology. Human Resources staff compared the salaries and job descriptions for Buyer I and II with other agencies, and recommended the education requirement for the Buyer I position be increased from a high school diploma to a 4-year degree. Human Resources staff further recommended the salary for Buyer I be increased to reflect the higher level of qualification and responsibility reflected in the updated job description. Staff recommended Board approval of the proposed changes to the salary for the position of Buyer I.

It was moved by Secretary Kite, seconded by Director Fernandez, to Approve the Salary for the Position of Buyer I. Motion carried with the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

ACCEPT THE FINAL REPORT FOR THE HAYWARD MARSH REHABILITATION OPTIONS STUDY FROM RMC WATER AND ENVIRONMENT

This item was reviewed by the Legal/Community Affairs Committee. Research and Support Team Coach Grillo stated the Hayward Marsh has provided the District with 20 MGD (million gallons per day) of wet weather flow capacity not available via the EBDA (East Bay Discharge Authority) forcemain since 1988. Sedimentation caused by natural processes resulted in a blockage of the inlet to pond 3B in 2013. At the request of the East Bay Regional Parks District, Union Sanitary District conducted a planning level study to identify options for rehabilitation of the Marsh. The Hayward Marsh Rehabilitation Options Study presented conceptual level design and associated planning level cost for

five rehabilitation options, and identified two alternatives to rehabilitation. Staff recommended the Board approve the Hayward Marsh Rehabilitation Options Study report prepared by RMC Water and Environment.

It was moved by Secretary Kite, seconded by Director Fernandez, to Accept the Final Report for the Hayward Marsh Rehabilitation Options Study From RMC Water and Environment. Motion carried with the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

ACCEPT THE FINAL REPORT FOR THE ALVARADO WASTEWATER TREATMENT PLANT SITE STUDY FROM RMC WATER AND ENVIRONMENT

This item was reviewed by the Legal/Community Affairs Committee. Technical Services Manager Ghossain stated the purpose of the Alvarado Wastewater Treatment Plant Site Use Study was to develop a high-level planning tool to guide optimization of the Alvarado Wastewater Treatment Plant (WWTP) to meet future operational and maintenance needs. Staff presented the findings at the Board workshop held June 25, 2015, and received direction to bring the report to a future Board meeting for consideration and acceptance. The Board further directed staff to develop a property acquisition plan and a life cycle cost analysis, which staff expects to have completed by the Spring of 2016. The Alvarado WWTP treats approximately 23 MGD and contains a total of 53 facilities located within the existing 33-acre site. The City of Union City conducted a meeting regarding its General Plan on July 15, which included maps showing potential expansion areas for the District. Staff recommended the Board Accept the Final Report for the Alvarado Wastewater Treatment Plant Site Study from RMC Water and Environment.

It was moved by Director Fernandez, seconded by Secretary Kite, to Accept the Final Report for the Alvarado Wastewater Treatment Plant Site Study from RMC Water and Environment. Motion carried with the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

APPROVE MODIFICATION OF JOB TITLE FROM COMMUNICATIONS COORDINATOR TO COMMUNICATIONS AND INTERGOVERNMENTAL RELATIONS COORDINATOR, AND REVISIONS TO JOB DESCRIPTION AND SALARY SCHEDULE

This item was reviewed by the Personnel Committee. General Manager Eldredge stated the Board directed staff to provide legislative updates, and approved the concept of adding said task to the job description of the District's Communications Coordinator. General Manager Eldredge stated the Communications Coordinator class description had been modified to include tracking, summarizing, and reporting on state, local, and federal ordinances, regulations, and legislation. Staff recommended the Board Approve Modification of Job Title from Communications Coordinator to Communications and

Intergovernmental Relations Coordinator, and Revisions to Job Description and Salary Schedule.

It was moved by Secretary Kite, seconded by Director Fernandez, to Approve Modification of Job Title from Communications Coordinator to Communications and Intergovernmental Relations Coordinator, and Revisions to Job Description and Salary Schedule. Motion carried with the following vote:

AYES: Fernandez, Kite, Toy
NOES: None
ABSENT: Handley, Lathi
ABSTAIN: None

INFORMATION ITEMS:

Check Register

All questions were answered to the Board's satisfaction.

Cal-Card Quarterly Activity Report

This item was reviewed by the Budget & Finance Committee. Business Services Manager Cortes stated the Budget & Finance Committee had requested information regarding the Celebrations Party Equipment expense found on page 281 of the Board packet. Business Services Manager Cortes stated the expense was due to equipment rented for the Cogeneration Ribbon Cutting event held in March and the District Open House held in May.

Status Report on Computer and Student Loan Program

This item was reviewed by the Budget & Finance Committee. Business Services Manager Cortes stated there were no student loans, and outstanding computer loans totaled \$16,398. At the time of publication, available funds for computer and student loans were \$33,883.

Board of Directors Internal Committee Assignments for FY16

General Manager Eldredge stated Board Policy No. 3070.2 states the President of the Board of Directors is responsible for assigning members and alternates for internal committees. The FY16 assignments received from President Toy were as follows:

Committee	Board Member	Alternate
Audit	Anjali Lathi Jennifer Toy	Manny Fernandez
Budget & Finance	Manny Fernandez Pat Kite	Jennifer Toy
Construction	Tom Handley Jennifer Toy	Pat Kite
Legal/Community Affairs	Pat Kite Anjali Lathi	Tom Handley
Legislative	Manny Fernandez Tom Handley	Pat Kite
Personnel	Manny Fernandez Jennifer Toy	Anjali Lathi

Discuss and Provide Direction to Staff Regarding Additional Communications on District Hearings and Website Information on Email Addresses

This item was reviewed by the Legal/Community Affairs Committee. General Manager Eldredge stated this item was the result of communications received from constituents prior to the recent sewer service charge public hearing. Said emails were entered into the record and attached to the July 13, 2015, Board meeting packet. General Manager Eldredge requested Board direction regarding responding to said emails, and a potential disclaimer to be added to the District website regarding communicating with the Board via email.

The Board directed staff to develop a disclaimer for the District website to state email communications with the Board of Directors are also received by staff, General Manager Eldredge to work with the Board President to develop a response to emails received prior to the recent public hearing, and directed staff not to respond to the recent letter to the editor.

COMMITTEE MEETING REPORTS:

The Budget & Finance, Legal/Community Affairs, and Personnel Committees met.

GENERAL MANAGER'S REPORT:

General Manager Eldredge reported the following:

- The co-digestion pilot (also known as the cheese waste project) started on July 23, 2015. The material has been injected into digester four at a rate of 1gallon/minute, and gas production has increased by approximately 5% in the short time since the pilot began.
- Collection Services staff was successful in assisting a District customer in finding her wedding ring which had been accidentally flushed. The customer and her husband expressed their gratitude by brining baked goods to Collections staff on the morning of July 27, 2015.
- Environmental Compliance staff will provide an information table at the annual Newark Days to be held September 19 and 20, and Secretary Kite will participate in the parade.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 8:02 p.m. to the next Regular Board Meeting in the Boardroom on Monday, August 10, 2015, at 7:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
SECRETARY TO THE BOARD

PAT KITE
SECRETARY

APPROVED:

JENNIFER TOY
PRESIDENT

Adopted this 10th day of August, 2015



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: July 29, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services
Rollie Arbolante, Customer Service Team Coach
Al D. Bunyi, Associate Engineer

SUBJECT: Agenda Item No. 7 - Meeting of August 10, 2015
**Resolution No. _____ Accept a Sanitary Sewer Easement for Tract 8119
Located Between Alice Street and Washington Boulevard in the City of
Fremont**

Recommendation

Adopt a Resolution to accept a sanitary sewer easement between Alice Street and Washington Boulevard in the city of Fremont.

Background

Lennar Homes of California is constructing Tract 8119 between Alice Street and Washington Boulevard in the city of Fremont. The housing tract will consist of eight duplexes and one single family detached home. Sanitary sewer service to the residential development will be provided by a new 8-inch main in a private street named Casa Bella Common. A Vicinity Map is attached. Because Casa Bella Common does not meet the City of Fremont street dimension requirements and structure setbacks, it was designated as a private street. Consequently, a sanitary sewer easement is required since the sewer main is not built within a dedicated public street. The new sewer main has been constructed and Lennar Homes has granted a sanitary sewer easement for the District to access and maintain the sewer. The easement was granted at no cost to the District.

District staff has reviewed the legal description and plat map of the easement and recommends approval.

PRE/SEG/RA/ADB:ks

Attachments: Vicinity Map
Resolution
Grant of Easement

GRANT OF EASEMENT - TRACT 8119

VICINITY MAP



Site

Legend

- Sewer Mains
- Sewer Sheet Pile History
- Sewer Manholes**
- Manhole
- Riser
- Cap
- Lamphole
- Other types
- Sewer Mains Historical
- Sewer Manholes Historical
- Streets**
- Parcels
- Lakes
- 2009 Aerial Photo

TRACT 8119

SANITARY SEWER EASEMENT

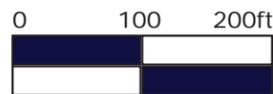
Alice St

Olive Ave

Washington Blvd

For USD use only

Disclaimer:
 The information on this map is provided by Union Sanitary District (USD) for internal use only. Such information is derived from multiple sources which may not be current, be outside the control of USD, and may be of indeterminate accuracy. The information provided hereon may be inaccurate or out of date, and any person or entity who relies on said information for any purpose whatsoever does so solely at their own risk.



RESOLUTION NO. ____

ACCEPT A SANITARY SEWER EASEMENT
FOR TRACT 8119 LOCATED BETWEEN ALICE STREET AND WASHINGTON BOULEVARD
LOCATED IN FREMONT, CALIFORNIA

BE IT RESOLVED by the Board of Directors of UNION SANITARY DISTRICT, that it hereby accepts the Grant of Easement from Lennar Homes of California, Inc., executed on May 13, 2015 as described in the Grant of Easement for Sanitary Sewer Purposes and by attached Exhibit A and Exhibit B. Legal Counsel for the District is hereby authorized to attend to the recordation thereof.

On motion duly made and seconded, this resolution was adopted by the following vote on August 10, 2015:

AYES:

NOES:

ABSENT:

ABSTAIN:

JENNIFER TOY
President, Board of Directors
Union Sanitary District

Attest:

PAT KITE
Secretary, Board of Directors
Union Sanitary District

GRANT OF EASEMENT

FOR SANITARY SEWER PURPOSES

THIS INDENTURE, made this 13th day of May 2015, by and between Lennar Homes of California, Inc., a California Corporation, the Party/Parties of the First Part, and Union Sanitary District, the Party/Parties of the Second Part,

WITNESSETH:

That said Party/Parties of the First Part does hereby grant to the Party of the Second Part and to its successors and assigns forever, for the use and purposes herein stated, the rights of way and easements hereinafter described, located in the City of Fremont, County of Alameda, State of California:

See Exhibit "A" and Exhibit "B"

together with the right and privilege of constructing, reconstructing, cleaning, repairing and maintaining at any time, a sanitary sewer and appurtenances along, upon, over, in, through and across the above described property; together with free ingress and egress to and for the said Party of the Second Part, its successors and assigns, its agents and employees, workmen, contractors, equipment, vehicles and tools, along, upon, over, in, through and across said right of way; together with the right of access by its successors and assigns, its agents and employees, workmen, contractors, equipment, vehicles and tools to said right of way from the nearest public street, over and across the adjoining property, if such there be; otherwise by such route or routes across said adjoining property as shall occasion the least practicable damage and inconvenience to the Party of the First Part, for constructing, cleaning, repairing and maintaining said sanitary sewer and appurtenances; together with free ingress and egress over the land immediately adjoining for maintenance, repair and replacement as well as the initial construction of said sewer.

IN WITNESS WHEREOF the said Party/Parties of the First Part have executed this indenture the day and year first above written.



Signature

By: Gordon D. Jones
(Print or type name and title of signatory)
Party/Parties of the First Part

(Notarize)

**EXHIBIT A
LEGAL DESCRIPTION
SANITARY SEWER EASEMENT CONVEYED TO UNION SANITARY DISTRICT
TRACT 8119
FREMONT, CALIFORNIA**

ALL THAT REAL PROPERTY SITUATE IN THE INCORPORATED TERRITORY OF THE CITY OF FREMONT, COUNTY OF ALAMEDA, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

BEING ALL OF PARCEL A AND THAT CERTAIN PORTION OF PARCEL C LABELED AS SSE - SANITARY SEWER EASEMENT, OF TRACT 8119 RECORDED IN BOOK 327 OF MAPS AT PAGES 3 THROUGH 7, ALAMEDA COUNTY RECORDS AND SHOWN ON EXHIBIT B - PLAT MAP OF SANITARY SEWER EASEMENT GRANTED TO UNION SANITARY DISTRICT.

CONTAINING 10,780 SQUARE FEET OF LAND, MORE OR LESS.

ATTACHED HERETO IS A PLAT TO ACCOMPANY LEGAL DESCRIPTION, AND BY THIS REFERENCE MADE A PART HEREOF.

END OF DESCRIPTION



MARK H. WEHBER, P.L.S.
L.S. NO. 7960



BASIS OF BEARINGS
 THE BASIS OF BEARINGS FOR THIS SURVEY IS DETERMINED BY FOUND
 MONUMENTS AT THE INTERSECTION OF ALICE STREET AND
 PER TRACT 4214 (118 M 70).

LEGEND

- COMMON BOUNDARY
- RIGHT OF WAY LINE
- ADJOINING LOT LINE
- EASEMENT LINE
- CENTERLINE
- MONUMENT LINE
- TOTAL
- (1) RADIAL
- (M-H) MONUMENT TO MONUMENT
- (I) INDICATES REFERENCE NUMBER
- (0) SET STATIONARY MONUMENT STAMPED LS 7176
- (●) FOUND MONUMENT AS NOTED
- (○) FOUND MONUMENT AS NOTED
- (○) MONUMENT SEARCHED FOR, NOT FOUND
- (○) PUBLIC UTILITY EASEMENT
- (○) PUBLIC SERVICE EASEMENT
- (○) EMERGENCY VEHICLE ACCESS EASEMENT
- (○) PEDESTRIAN ACCESS AND SIDEWALK EASEMENT
- (○) PRIVATE WATER EASEMENT
- (○) SANITARY SEWER EASEMENT
- (○) WATER LINE EASEMENT
- (○) PRIVATE WATER LINE EASEMENT AREA
- (○) SANITARY SEWER EASEMENT AREA

REFERENCES

- (0) INDICATES REFERENCE NUMBER
- (1) TRACT 4214 (118 M 70)
- (2) TRACT 4687 (142 M 28)
- (3) DEED 2008-006243
- (4) DEED 2013-131028
- (5) DEED 2014-006699
- (6) DEED 2014-006699

TRACT NO. 8119

EXHIBIT B

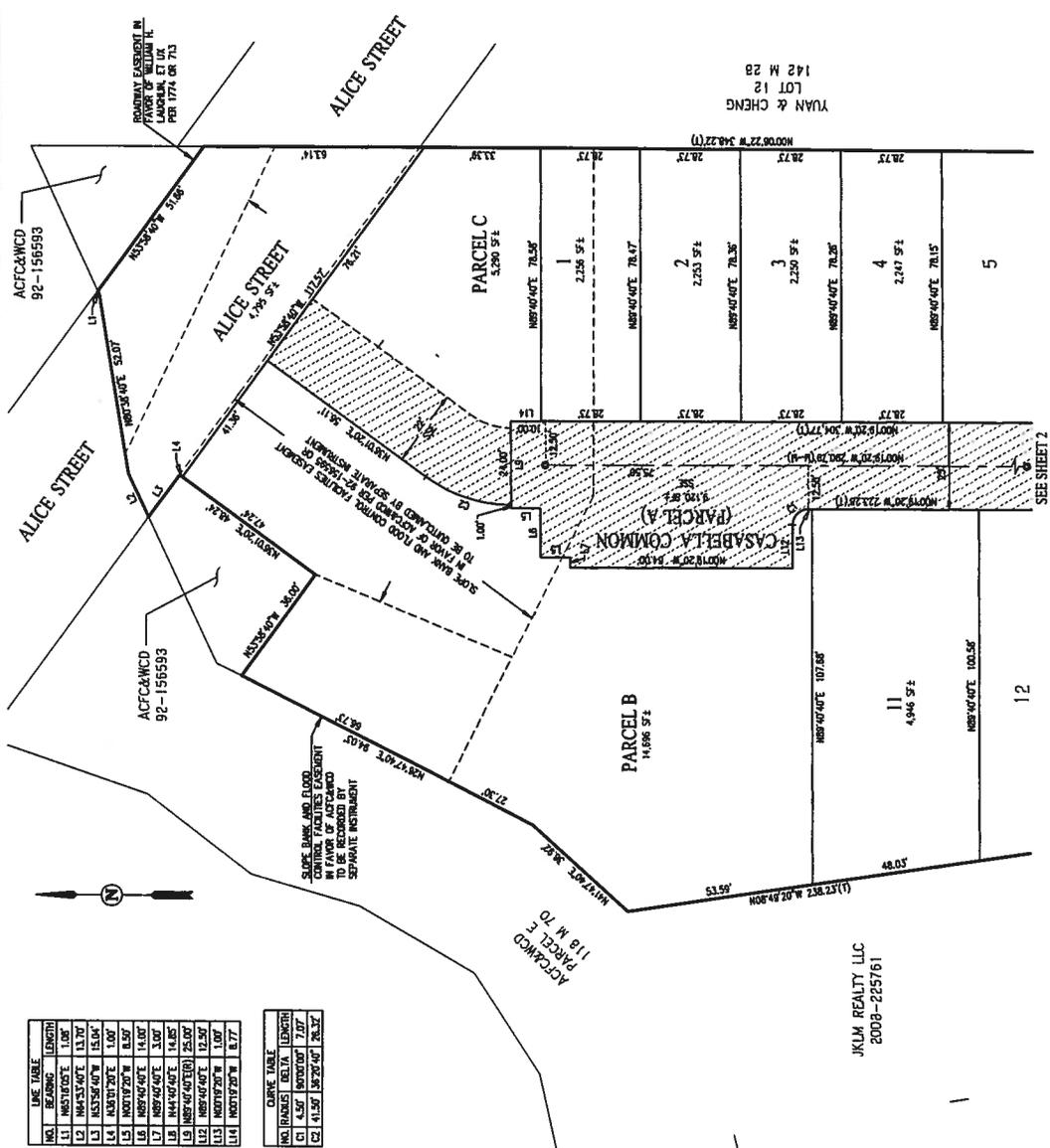
FLAT MAP OF SANITARY SEWER EASEMENT
 GRANTED TO UNION SANITARY DISTRICT
 CITY OF FREMONT, ALAMEDA COUNTY, CALIFORNIA

CARLSON, BARBEE & GIBSON, INC.
 CIVIL ENGINEERS SURVEYORS PLANNERS
 SAN RAMON, CALIFORNIA
 APRIL 2015

SCALE: 1" = 20'



SHEET 1 OF 2



LINE	BEARING	LENGTH
L1	N85°19'07"E	1.00'
L2	N84°33'40"E	13.70'
L3	N53°56'40"W	15.04'
L4	N38°11'20"E	1.00'
L5	N85°19'20"W	8.59'
L6	N85°49'40"E	14.00'
L7	N85°49'40"E	3.00'
L8	N44°43'40"E	14.85'
L9	N85°49'40"E	25.00'
L10	N85°49'40"E	12.50'
L11	N85°19'20"W	1.00'
L12	N85°19'20"W	1.57'

CURVE	TABLE	DELTA	LENGTH
C1	45.9'	109°24'47"	71.07'
C2	41.59'	109°24'47"	78.32'

JKLM REALTY LLC
 2008-225761

1944-000

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS DETERMINED BY FOUND MONUMENTS IN DRISCOLL ROAD, THE BEARING BEING N34°45'14"E PER TRACT 4284 (119 M 70).

LEGEND

- SUBDIVISION BOUNDARY
- RIGHT OF WAY LINE
- ADJOINING LOT LINE
- EASEMENT LOT LINE
- CONTOUR LINE
- MONUMENT LINE
- TOTAL
- (0) RADIAL
- (1) MONUMENT TO MONUMENT
- (1+4) MONUMENTS SET BY SERVICE MASTERS
- (1) SET STANDARD STREET MONUMENT STAMPED LS 7176
- (1) SET STANDARD STREET MONUMENT AS NOTED
- (1) FOUND MONUMENT AS NOTED
- (1) FOUND MONUMENT SEARCHED FOR, NOT FOUND
- (1) PUBLIC UTILITY EASEMENT
- (1) PUBLIC SERVICE EASEMENT
- (1) EMERGENCY VEHICLE ACCESS EASEMENT
- (1) PRIVATE VEHICLE ACCESS EASEMENT
- (1) PRIVATE WALKWAY ACCESS EASEMENT
- (1) SANITARY SEWER EASEMENT
- (1) WATER LINE EASEMENT
- (1) PRIVATE WATER LINE EASEMENT
- (1) SANITARY SEWER EASEMENT AREA

REFERENCES

- (1) TRACT 4284 (119 M 70)
- (1) TRACT 4657 (142 M 20)
- (1) TRACT 4657 (142 M 20)
- (1) REED (2008-306773)
- (1) REED (2008-306865)
- (1) REED (2013-31026)
- (1) REED (2014-00086)

TRACT NO. 8119
EXHIBIT B

PLAT MAP OF SANITARY SEWER EASEMENT
FOR THE CITY OF FREMONT, CALIFORNIA
CITY OF FREMONT, ALAMEDA COUNTY, CALIFORNIA

CARLSON, BARBEE & GIBSON, INC.
CIVIL ENGINEERS SURVEYORS PLANNERS
SAN RAMON, CALIFORNIA

SCALE: 1" = 20'
APRIL 2014
APRIL 2015



SHEET 1 OF 2



JKLM REALTY LLC
2008-225761

LINE	BEARING	LENGTH
L1	N071°22'20"W	6.54'
L2	N00°08'22"W	12.21'
L3	N88°37'17"E	0.95'

NO.	RADIUS	DELTA	LENGTH
C1	19.50'	23°53'53"	0.13'
C2	19.50'	31°04'46"	0.58'
C3	1000.00'	0°25'14"	10.54'

1944-000

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California)

County of Contra Costa)

On May 13, 2015 before me, L. Bitzer, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Gordon D Jones
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature [Handwritten Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____ Document Date: _____

Number of Pages: _____ Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Corporate Officer — Title(s): _____
- Partner — Limited General
- Individual Attorney in Fact
- Trustee Guardian or Conservator
- Other: _____

Signer Is Representing: _____

Signer's Name: _____

- Corporate Officer — Title(s): _____
- Partner — Limited General
- Individual Attorney in Fact
- Trustee Guardian or Conservator
- Other: _____

Signer Is Representing: _____



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: July 31, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer

SUBJECT: Agenda Item No. 8 - Meeting of August 10, 2015
Review and Approve New Fact Sheet Regarding Recently Adopted Sewer Service Charges

Recommendation:

Review and approve new fact sheet regarding recently adopted sewer service charges.

Background:

Now that the FY16 sewer service charges have been adopted, staff is of the opinion that a new fact sheet would be appropriate. Similar to the previous fact sheet, this new document has the potential to be widely distributed and be a helpful tool for the District and Boardmembers to share pertinent facts about the District. Thus, it seemed prudent to bring this document before the Board for review and approval. Staff is requesting the Board provide any revisions at the Board meeting and approve a final version.

Attachment: Draft Sewer Service Charges Fact Sheet



Rate Increase FY 2016

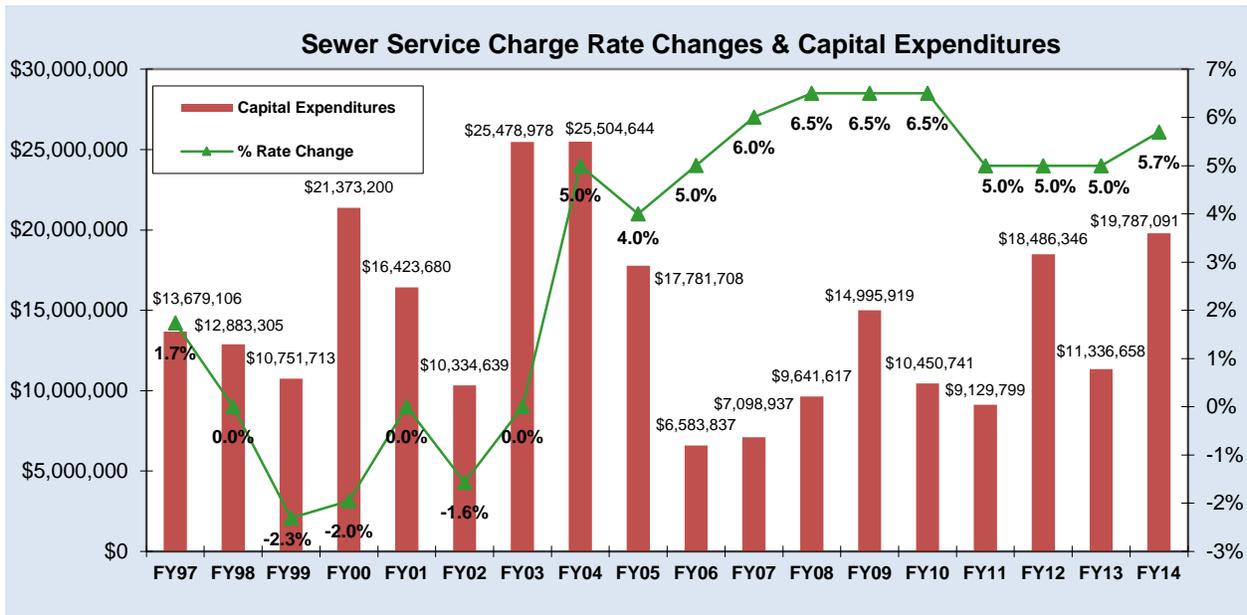
Union Sanitary District (USD) is an award winning public agency providing wastewater service to the Tri-Cities (Fremont, Newark and Union City). USD held a public hearing in July 2015 to consider the third and final rate increase recommended by a 2013 rate study. In 2013, USD sent a Proposition 218 notice to all property owners in Fremont, Newark, and Union City regarding rates for Fiscal Years 2014, 2015, and 2016. Before the July 2015 hearing, USD published notices in two newspapers and on its website containing information regarding time, place, and format for public comment.

The District recognizes that no one enjoys a rate increase and continuously looks for ways to reduce costs while maintaining a high level of service. Only four agencies of 26 surveyed in the Bay Area have rates lower than USD. To meet increased expenses, and to allow for necessary and required maintenance and upgrades to the District's infrastructure, USD staff recommended the Board adopt a modest increase in sewer service charges for all customers. For single-family homeowners (the majority of USD's customers) the increase equates to \$1.67 per month, bringing the annual total to \$377 for Fiscal Year 2016.

Background:

USD strives to keep rates low and stable

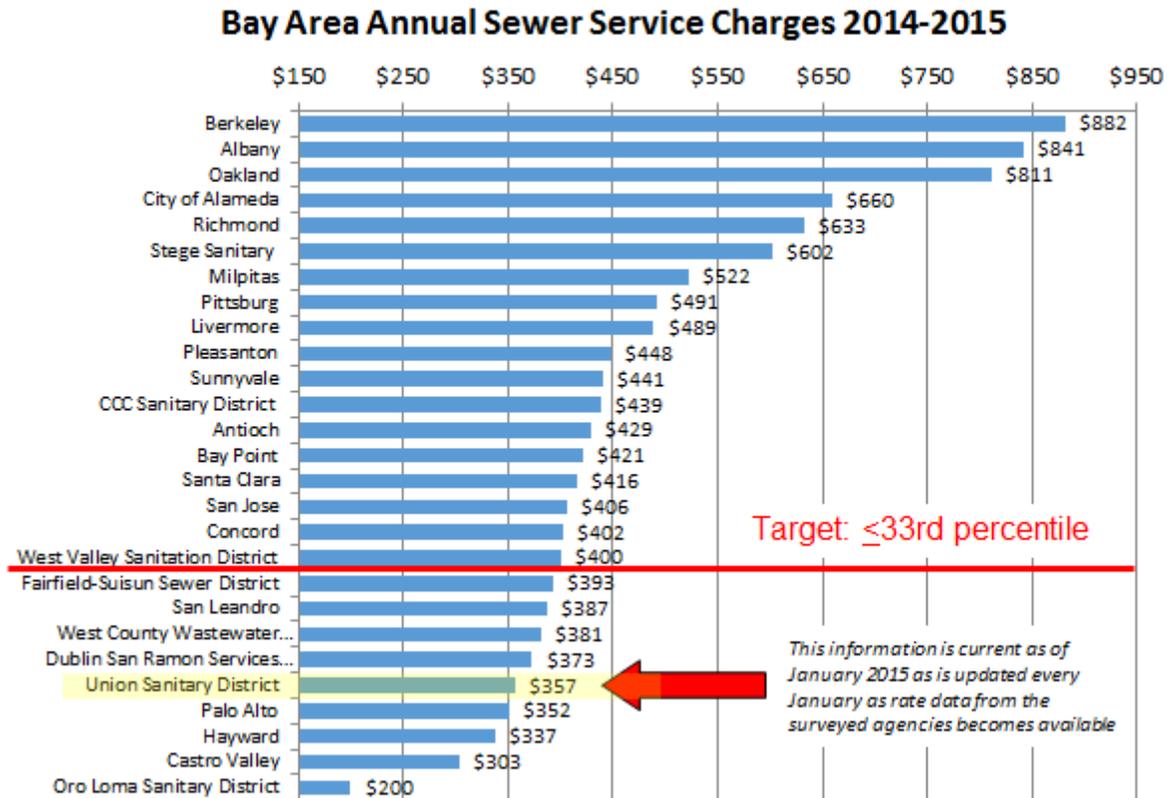
Beginning in 2004, USD implemented a rate increase program for the purpose of funding capital improvements and keeping pace with increasing operation costs facing the agency. Prior to 2004, USD had not increased rates since 1997, and in fact decreased them in 1999, 2000, and 2002. During that time, the District used reserves to finance the majority of its capital projects, which significantly decreased this account. A modest rate increase program was implemented in 2004 to carry out the Board's philosophy of keeping rates relatively stable over time and insulate ratepayers from large fluctuations. USD's goal is to keep sewer service charges as low as possible and protect customers from the price spikes that can occur in a service delivery business. Under this program, USD's sewer service charges have increased an average of 5.5 percent each year since 2004. A graph illustrating the recent history of rates and capital expenditures is shown on the following page.



The District plans 10 years in advance for capital projects and needs; however, these capital expenditures are evaluated on an annual basis. Capital expenditures for FY 2015 are anticipated to total \$15.3 million. Currently, capital expenditure projected totals for Fiscal Years 2016, 2017, and 2018 are \$16.75, \$23.25, and \$26.2 million respectively.

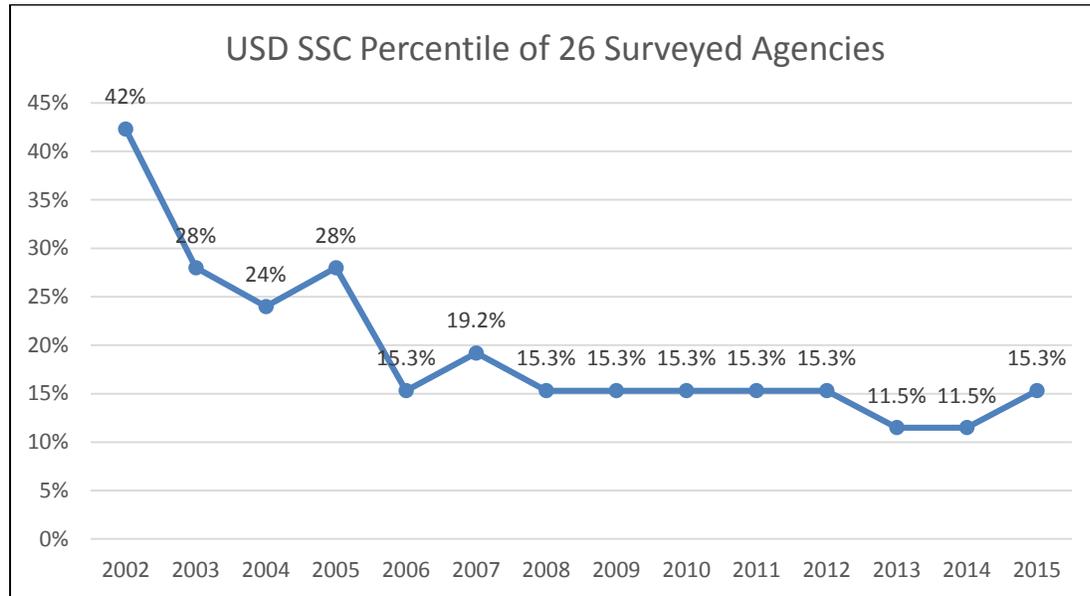
USD rates in perspective

USD conducts an annual rate comparison survey of 26 Bay Area wastewater agencies. It is the District's goal to remain in the lower 1/3 of agencies surveyed, meaning USD's rates would be lower than 2/3 of neighboring agencies. Today, only **four** districts have lower rates.



USD's rate comparison history

The graph below shows USD's rate percentiles since the District began surveying 26 Bay Area wastewater agencies annually in 2002. USD's rates are currently in the 15th percentile.



Compared to other utilities and services, USD's rates are the lowest.



A typical household in USD's service area pays considerably more for services like those below:

Sewer Rate shown is USD's FY 2015 single-family residential rate (July 1, 2014 - June 30, 2015)

Other monthly utility rates are based on a typical residential household and were obtained from service providers in August 2014. Cell phone monthly bill is based on a typical calling plan for a family of four.

USD's Capital Improvement Program is a large driver for increased rates:

USD maintains a large number of facilities and equipment, including more than 811 miles of sewer lines, seven pump stations, the treatment plant and other infrastructure – much of it built in the late 1970s. Responsible, timely upkeep of these facilities has allowed the District to avoid catastrophic failures, interruptions to service, major spills, and sinkholes that often plague other utilities and agencies.

Since 2004, the primary focus of the District's Capital Improvement Program has been on rehabilitation, replacement and repair of its pump stations and treatment plant equipment. For Fiscal Years 2004 - 2014, USD spent more than \$151 million on capital projects. The plant operates 24/7/365 to process an average of 23 million gallons of untreated sewage every day,

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and operates and maintains more than 50 major treatment process units and buildings. A large portion of District facilities are now over 35 years old.

USD's Proposed Rate Increase Compared to Inflation

The Consumer Price Index, typically referred to as inflation, for the San Francisco Bay Area has averaged approximately 3% annually. The proposed rate increase does exceed inflation as it takes operational and capital increases into consideration, which are not the types of expenses included in CPI computations. Capital expenses, or the cost of projects required to maintain the integrity of the District's infrastructure, are based upon a prioritized need and life cycle of the infrastructure. Limiting rate increases to accommodate inflation only would result in a short-fall in funds necessary to safely and responsibly operate the District and maintain/rehabilitate infrastructure. The difference in revenues between 5.7% and 3% over the next four years would equate to approximately 14.5 million dollars in lost revenue.

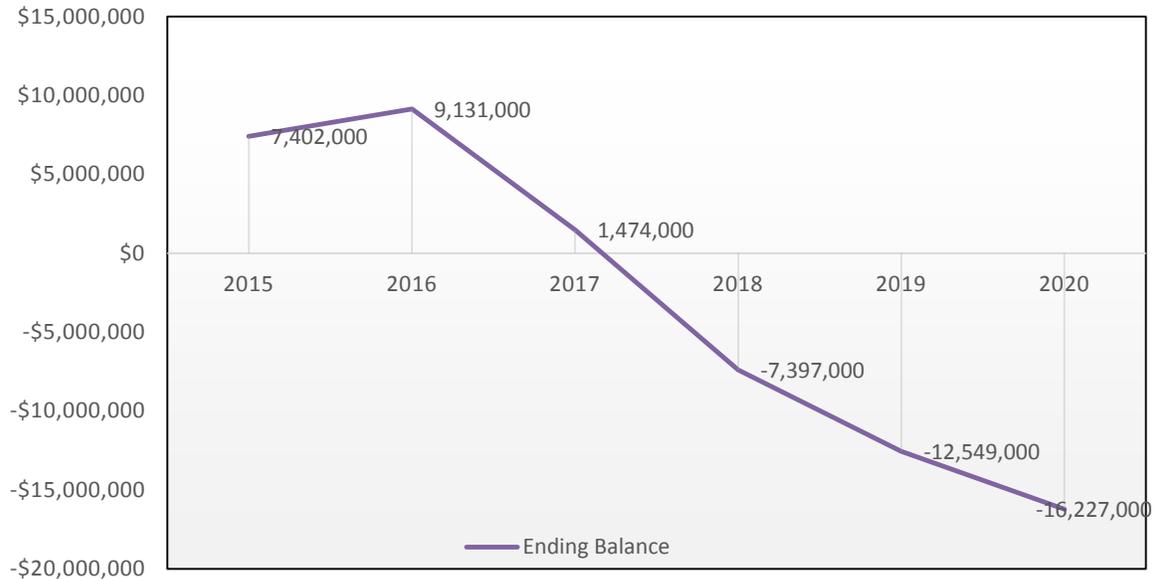
Without this revenue, District staff would have to be significantly reduced and/or capital projects would be postponed or not completed. All of the projects proposed in the District's CIP program are necessary, thus delaying projects raises the likelihood of failure, increases project costs, and leads to possibly even larger future rate increases. Approximately 15 critical projects in the current CIP budget would need to be deferred to a later date if revenues were decreased.

Deferring and deleting planned CIP projects increases the risk of failure. Repair and replacement costs increase when infrastructure fails due to the emergency nature of this work. These additional costs include but are not limited to uncompetitive bids, clean-up, claims for damage, traffic delays, material and labor premiums and environmental impacts that can lead to permit violations and fines. A planned repair and replacement program is significantly more cost effective and efficient. The deferment of projects does not secure a reduced rate as these projects will need to be completed at some point.

If the rate increase were reduced to 3%, utilizing the CIP budget currently recommended by staff, the Structural Renewal & Replacement Fund balances would be negative. Under this scenario negative fund balances would begin in FY 2018 and would extend for five consecutive years, with the largest negative balance of \$16.2 million in FY 2020. This would not only violate the District's adopted Reserve Fund Policy, but also significantly weaken its financial stability. In accordance with generally accepted government accounting standards, the District's policy states that, at a minimum, the fund should remain positive throughout a ten year planning period.

The graph on the following page shows the District's fund balances under a 3% scenario:

Fund Balance - 3% Rate Increase Scenario



Additional Costs

In addition to funding USD's capital improvement program, rate increases have been implemented in part to address other rising costs. Approximately 42% of the District's total budget is dedicated to personnel expenses, which is within range of other service providers in this industry. Every business has faced steeply rising employee costs, USD is no different. To help offset these rising costs, all USD employees pay a portion of their health care and pension benefits. By March of 2016, employees of USD will be paying approximately 30% of the overall pension costs. In addition, USD is subject to pension reforms enacted by the State. These reforms reduce the retirement benefit and raise the retirement age for new USD employees that have not participated in the previous retirement program. Currently, approximately 10% of USD's workforce participate in the new program.

Chemicals, electricity, and fuel also account for a significant portion of the District's budget - those costs have similarly increased substantially over the last 10 years. Chemical costs alone were over \$1.8 million in FY 2014. USD's electricity bill in FY 2014 was over \$2.1 million. While USD uses renewable energy wherever possible and works toward energy-independence, the District must still purchase power from outside sources, generally at rising costs every year. Moreover, the cost of complying with state and local regulations, including annual permit fees, also continues to rise.

Efficiency/Technology

One of the many factors keeping USD's rates low is efficient service and use of technology. By implementing technology to streamline permitting, plant operations, maintenance management and engineering services, the District has been able to maintain conservative staffing levels, thus helping to control costs. USD also teams with neighboring agencies to

purchase chemicals and equipment at discounted prices. Careful financial planning allows USD to finance capital improvements at very low, below-market rates.

Award Winning Service/Agency

USD is proud of its award winning service. Since 2004, nearly every team or workgroup at USD has received awards. A partial list of those awards includes:

- Peak Performance Platinum Award from the National Association of Clean Water Agencies (NACWA) for five years of 100% compliance at the District's Treatment Plant. USD's Plant has been recognized for 21 consecutive years by NACWA (and its predecessor, the Association of Metropolitan Sewerage Agencies or AMSA) for outstanding performance
- Engineering Achievement Award for 2014 from the California Water Environment Association (CWEA)
- CWEA Collection System Worker of the Year – 2013
- CWEA AI Ditman Professional Development Award - 2013
- CWEA Safety Program of the Year – Statewide Award 2010
- CWEA Treatment Plant of the Year for the State of California - 2009
- CWEA Collection System Maintenance Program of the Year - 2005, 2009, 2010, 2012
- US EPA Pretreatment Program of the Year (National Award) - 2008
- Distinguished Project Award, 2007 - American Public Works Association
- Training Magazine International Top 125 Training Programs (private and public sector businesses) – 2011 (USD was one of only 3 public sector agencies of the 125 companies)

For more information, please take a look at USD's previous newsletters which can be found on the District's website at www.unionsanitary.ca.gov . Go to the "links and glossary" tab and look for Customer Focus to read District newsletters.



Protecting the Tri-Cities and San Francisco Bay

5072 Benson Road
Union City, CA 94587
(510) 477-7500

www.unionsanitary.ca.gov

email: contactusd@unionsanitary.ca.gov

**UNION SANITARY DISTRICT
CHECK REGISTER
7/18/2015-7/31/2015**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158314	7/23/2015	64002	RANGER PIPELINES INC	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$471,133.50	\$471,133.50
158269	7/23/2015	5839	CAL SAN RISK MNGT AUTH	7/1/15-16 WC PROGRAM	\$350,247.00	\$425,961.29
	7/23/2015	5736		07/15 - 06/16 PROPERTY INSURANCE RENEWAL	\$75,714.29	
158285	7/23/2015	2951	EAST BAY DISCHARGERS AUTHORITY	RNWL & REPL FUND ASSES FY16	\$113,850.00	\$411,347.96
	7/23/2015	2943		O&M ASSESSMENT, JUL-SEP 2015	\$297,497.96	
158323	7/23/2015	20150528	SWRCB - STATE WATER RESOURCES	SRF LOAN #C065222110 - BOYCE LIFT	\$411,063.52	\$411,063.52
158284	7/23/2015	4690	DW NICHOLSON CORP	COGENERATION PROJECT	\$341,308.36	\$341,308.36
158292	7/23/2015	800394.11	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II	\$333,226.75	\$333,226.75
158278	7/23/2015	20150063	COVELLO GROUP INC	NEWARK BACKYARD SS & MISC SEWER SPOT REPAIR PH 6	\$35,628.25	\$74,157.44
	7/23/2015	201303514		THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	\$36,673.19	
	7/23/2015	201300828		COGENERATION PROJECT	\$1,856.00	
158310	7/23/2015	170120150709	PACIFIC GAS AND ELECTRIC	SERV TO 06/22/15 PLANT	\$62,442.96	\$62,654.45
	7/23/2015	380420150709		SERV TO 06/29/15 CHERRY ST PS	\$211.49	
158389	7/30/2015	30103445	SYNAGRO WEST LLC	JUNE 2015 BIOSOLIDS DISPOSAL	\$51,153.48	\$51,153.48

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158332	7/23/2015	2027591	WEST YOST & ASSOCIATES	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$3,451.50	\$44,110.53
	7/23/2015	2027787		JARVIS AVENUE SS REPLACEMENT (MISC SS SPOT REPAIRS - PH	\$2,026.50	
	7/23/2015	2027788		PINE STREET EASEMENT	\$3,223.50	
	7/23/2015	2027806		ALVARADO-NILES ROAD SS REHABILITATION	\$57.50	
	7/23/2015	2027588		JARVIS AVENUE SS REPLACEMENT (MISC SS SPOT REPAIRS - PH	\$2,774.50	
	7/23/2015	2027589		PLANT FACILITIES IMPROVEMENTS	\$18,296.00	
	7/23/2015	2027789		NEWARK BACKYARD SS RELOCATION - PHASE 2	\$1,580.50	
	7/23/2015	2027836		PINE STREET EASEMENT	\$12,700.53	
158308	7/23/2015	6945	OMP-I&G CREEKSIDE INVESTORS	REFUND # 18260	\$34,790.00	
158379	7/30/2015	201507	NICHOLAS J PEROS	SCADA MASTER PLAN & SCADA STANDARDS	\$22,161.64	\$22,161.64
158293	7/23/2015	800394.11E	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II - ESCROW PYMT	\$17,538.25	\$17,538.25
158263	7/23/2015	3PU03	BAY AREA AIR QUALITY MGMT DIST	ANNUAL PERMIT RNWL-PLANT A1209	\$16,190.00	\$16,190.00
158288	7/23/2015	902222339	EVOQUA WATER TECHNOLOGIES	26,070 LBS HYDROGEN PEROXIDE	\$12,159.05	\$12,159.05
158262	7/23/2015	883	AUTOMATED NETWORK CONTROLS	SCADA / PLC PROGRAMMING SERVICES	\$11,374.01	\$11,374.01
158307	7/23/2015	86420150701	DAVID M O'HARA ATTY AT LAW	GENERAL LEGAL - MAY 2015	\$5,743.50	\$11,235.00
	7/23/2015	000720150701		LEGAL SVCS- TRANSITION	\$4,294.50	
	7/23/2015	97720150701		CIP LEGAL - JUNE 2015	\$1,197.00	
158298	7/23/2015	9017456379	KEMIRA WATER SOLUTIONS, INC.	8.13 DRY TONS FERROUS CHLORIDE	\$5,341.41	\$10,735.38
	7/23/2015	9017456756		8.21 DRY TONS FERROUS CHLORIDE	\$5,393.97	

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158370	7/30/2015	2616	KOFF & ASSOCIATES	EXECUTIVE RECRUITMENT SERVICES - HRA & BS MGR	\$10,582.50	\$10,582.50
158372	7/30/2015	11559	LOOKINGPOINT INC	MPLS MIGRATION CONSULTING	\$10,000.00	\$10,000.00
158394	7/30/2015	116360	VAVRINEK, TRINE, DAY & CO LLP	AUDITING SERVICES JUNE 2015	\$9,600.00	\$9,600.00
158326	7/23/2015	691562	UNIVAR USA INC	5,080 GALS SODIUM HYPOCHLORITE	\$2,358.70	\$9,275.82
	7/23/2015	691342		5,029 GALS SODIUM HYPOCHLORITE	\$2,335.02	
	7/23/2015	691553		4,996 GALS SODIUM HYPOCHLORITE	\$2,319.69	
	7/23/2015	691851		5,000 GALS SODIUM HYPOCHLORITE	\$2,321.55	
	7/23/2015	390762		5,000 GALS SODIUM HYPOCHLORITE	\$-2,321.55	
	7/23/2015	694507		5,003 GALS SODIUM HYPOCHLORITE	\$2,262.41	
158392	7/30/2015	693223	UNIVAR USA INC	5,032 GALS SODIUM HYPOCHLORITE	\$2,275.53	\$6,825.22
	7/30/2015	693783		5,031 GALS SODIUM HYPOCHLORITE	\$2,275.07	
	7/30/2015	693804		5,030 GALS SODIUM HYPOCHLORITE	\$2,274.62	
158351	7/30/2015	29143	COLANTUONO HIGHSMITH & WHATLEY	PROP 218 ADVICE	\$6,224.75	\$6,224.75
158318	7/23/2015	20150716	SAN JOSE WATER CO FBO BAYWORK	ANNUAL FEE FOR FY 2015-2016	\$6,105.00	\$6,105.00
158259	7/23/2015	63482	AIR & TOOL ENGINEERING COMPANY	1 CONCRETE CHAIN SAW	\$5,671.91	\$5,671.91
158306	7/23/2015	101878	MUNICIPAL MAINT EQUIPMENT INC	1 EA ANTI-BLAST NOZZLE	\$5,354.49	\$5,354.49
158273	7/23/2015	44083402	CINTAS FIRE PROTECTION	INSPECTION, SP 5 YEAR & 7 GAUGES FOR SPRINKLER SYSTEMS	\$4,631.00	\$5,321.00
	7/23/2015	44615942		INSPECTION,ANNUAL,SPRINKLER SYSTEM WET TYPE	\$395.00	
	7/23/2015	44615974		INSPECTION,QTRLY,SPRINKLER SYSTEM WET TYPE	\$295.00	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158281	7/23/2015	256844	CURTIS & TOMPKINS LTD	70 LAB SAMPLE ANALYSIS	\$1,155.00	\$5,105.00
	7/23/2015	256860		4 LAB SAMPLE ANALYSIS	\$630.00	
	7/23/2015	251787		22 LAB SAMPLE ANALYSIS	\$440.00	
	7/23/2015	256806		30 LAB SAMPLE ANALYSIS	\$495.00	
	7/23/2015	256862		6 LAB SAMPLE ANALYSIS	\$945.00	
	7/23/2015	256773		2 LAB SAMPLE ANALYSIS	\$315.00	
	7/23/2015	256805		6 LAB SAMPLE ANALYSIS	\$525.00	
	7/23/2015	256801		2 LAB SAMPLE ANALYSIS	\$315.00	
	7/23/2015	254568		3 LAB SAMPLE ANALYSIS	\$105.00	
	7/23/2015	256769		17 LAB SAMPLE ANALYSIS	\$180.00	
158371	7/30/2015	10959805	KRONOS INC	CONFIGURATION & TESTING SUPPORT, PROJECT MGMT	\$4,680.00	\$4,680.00
158319	7/23/2015	445.6	SCHEIDEGGER & ASSOCIATES	STEVENSON COMMUNICATION TOWER PROJECT	\$4,635.00	\$4,635.00
158377	7/30/2015	5699940	NATIONAL TECHNOLOGY TRANSFER	REGIS FOR MECHANICAL DRIVE - 3 DAY LAB - NOEGEL	\$1,499.00	\$4,497.00
	7/30/2015	5714910		REGIS FOR MECHANICAL DRIVE - 3 DAY LAB - STRASBURG	\$1,499.00	
	7/30/2015	5699944		REGIS FOR MECHANICAL DRIVE - 3 DAY LAB - SEPULVEDA	\$1,499.00	
158313	7/23/2015	150630	PROSAFE	40 HRS INSPECTIONS & 4 HRS SPCC	\$4,400.00	\$4,400.00
158268	7/23/2015	189899	BURKE, WILLIAMS & SORENSON LLP	SPECIAL COUNSEL SERVICES - MAY 2015	\$3,929.81	\$3,929.81
158353	7/30/2015	89515	DEGENKOLB ENGINEERS	SEISMIC STUDY	\$3,900.00	\$3,900.00

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158261	7/23/2015	4017275220150706	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 07/02/15 - FREMONT BLVD	\$120.32	\$3,643.27
	7/23/2015	4017274120150706		SERV TO: 07/02/15 - FREMONT BLVD	\$3,522.95	
158380	7/30/2015	103220	PIIAN SYSTEMS LLC	6 ODOR NEUTRALIZER - INDUSTRIAL CONCENTRATE (5 GALLON P	\$3,623.61	\$3,623.61
158378	7/30/2015	7136	OMP-I&G CREEKSIDE INVESTORS	REFUND # 18293	\$3,300.00	\$3,300.00
158304	7/23/2015	34683988	MCMaster SUPPLY INC	8 EA GRADE 70 WELDED CHAIN W/HOOKS	\$545.81	\$3,003.94
	7/23/2015	34785693		ASTD PARTS & MATERIALS	\$807.85	
	7/23/2015	34853384		ASTD PARTS & MATERIALS	\$189.76	
	7/23/2015	34980765		2 EA POLYPROPYLENE CAM & GROOVE HOSE COUPLINGS	\$40.97	
	7/23/2015	34683987		2 EA OPEN-TOP BAGS	\$168.64	
	7/23/2015	34785692		6 EA MULTIPURPOSE GAUGES	\$68.60	
	7/23/2015	33175524		5 EA GASKETS	\$9.30	
	7/23/2015	34683986		4 EA GRAB HOOK RATCHET LOAD BINDER	\$517.52	
	7/23/2015	34836308		20 EA STRUT-MOUNT CLAMPS	\$120.96	
	7/23/2015	35035994		ASTD PARTS & MATERIALS	\$534.53	
158275	7/23/2015	20150630	COLLISON ENGINEERING	HAYWARD MARSH PERMIT METAL STUDY	\$3,000.00	\$3,000.00
158386	7/30/2015	2614	SIGNET TESTING LABS INC	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$2,869.00	\$2,869.00
158295	7/23/2015	116740401	HOFFMEYER COMPANY INC	ASTD PARTS & MATERIALS	\$2,679.62	\$2,679.62
158321	7/23/2015	20150630	STATE BOARD OF EQUALIZATION	SALES & USE TAX 4/15-6/15	\$2,675.00	\$2,675.00
158354	7/30/2015	7969	DEMIGUEL PLUMBING	REFUND # 18284	\$2,500.00	\$2,500.00

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158309	7/23/2015	XCTZOOQ	PACHECO BROTHERS GARDENING INC	LANDSCAPE MAINTENANCE SERVICES JULY 2015	\$1,365.00	\$2,280.00
	7/23/2015	XCTZOOR		WEED ABATEMENT WORK JULY 2015	\$915.00	
158282	7/23/2015	20150715	CWEA-NRTC	CERT RENEWAL - COLL SERV 12 EMPLOYEES	\$2,019.00	\$2,019.00
158391	7/30/2015	5304	TITUS INDUSTRIAL GROUP INC	3 GMI 26" BLACK COMPOSITE WATER RESISTANT MANHOLE	\$2,000.73	\$2,000.73
158276	7/23/2015	20150629	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL	\$1,877.30	\$1,877.30
158345	7/30/2015	331231	CALTROL INC	4 PRESSURE GAUGES	\$1,731.57	\$1,731.57
158361	7/30/2015	111131512001	GEXPRO	PROFICY IFIX ICLIENTTS LICENSE	\$1,656.14	\$1,656.14
158336	7/30/2015	63457	AIR & TOOL ENGINEERING COMPANY	ASTD PARTS & MATERIALS	\$1,608.94	\$1,608.94
158398	7/30/2015	34084	WECO INDUSTRIES LLC	REPAIR OF CCTV SYSTEM ON TRUCK # T2372	\$492.68	\$1,530.32
	7/30/2015	34448		REPAIR OF OZIII CAMERA	\$1,037.64	
158339	7/30/2015	7239	AMERICAN DISCOUNT SECURITY	JULY SECURITY GUARD SERVICES	\$759.00	\$1,518.00
	7/30/2015	6926		APRIL SECURITY GUARD SERVICES	\$759.00	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158265	7/23/2015	10769700	BLAISDELL'S	ASTD OFFICE & BREAK ROOM SUPPLIES	\$600.21	\$1,322.67
	7/23/2015	10795540		ASTD OFFICE SUPPLIES	\$29.66	
	7/23/2015	10798520C		1 BINDER	\$-8.79	
	7/23/2015	10795541		1 BX COR TAPE	\$20.88	
	7/23/2015	10798520		1 BINDER	\$8.79	
	7/23/2015	10772630		1 BX CLASP ENVELOPES	\$7.83	
	7/23/2015	10694740C		1 TONER CREDIT	\$-113.29	
	7/23/2015	10802610		ASTD OFFICE SUPPLIES	\$57.71	
	7/23/2015	10703151C		1 PK CNTRL FILE HNGR CREDIT	\$-54.99	
	7/23/2015	10798060		1 PK MSG SPEED FORM	\$71.49	
	7/23/2015	10768730		12 RM CUP XEROX PAPER	\$67.19	
	7/23/2015	10803580		1 12" WHISPER CLOCK	\$16.49	
	7/23/2015	10794240		1 SIT/STAND WORKSTATION FOR ROSLYN FULLER	\$619.49	
158328	7/23/2015	30783	VALLEY OIL COMPANY	2 DRS XLD 15/40 OIL	\$1,199.18	\$1,199.18
158340	7/30/2015	596638208	AT&T	SERV: 07/10/15 - 08/09/15	\$1,178.56	\$1,178.56
158344	7/30/2015	10813270	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$60.81	\$1,160.81
	7/30/2015	10787300		2 156572A6CBM01 NTF CHAIR, STRATA, MED,	\$1,100.00	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158296	7/23/2015	200674830	IRON MOUNTAIN	DATA/MEDIA OFF-SITE STORAGE JUNE 2015	\$236.43	\$1,158.31
	7/23/2015	649		OFF-SITE STORAGE AND SERVICE - JUNE 2015	\$629.33	
	7/23/2015	4026		OFF-SITE STORAGE AND SERVICE - JUNE 2015	\$292.55	
158374	7/30/2015	98386	MCINERNEY & DILLON, P.C.	LEGAL SERVICES - WESTERN ENERGY SYSTEMS	\$864.00	\$1,152.00
	7/30/2015	98341		LEGAL SERVICES	\$288.00	
158352	7/30/2015	255069	CURTIS & TOMPKINS LTD	13 LAB SAMPLE ANALYSIS	\$1,080.00	\$1,140.00
	7/30/2015	256883		3 LAB SAMPLE ANALYSIS	\$60.00	
158397	7/30/2015	303938	WATSON-MARLOW INC	TRIAL AGREEMENT BREDEL 40 PUMP	\$-1,764.14	\$1,055.08
	7/30/2015	303940		TRIAL AGREEMENT BREDEL 40 PUMP	\$1,055.08	
	7/30/2015	299757		TRIAL AGREEMENT BREDEL 40 PUMP	\$1,764.14	
158267	7/23/2015	84961	BRUCE BARTON PUMP SERVICE INC	1 SUMP PUMP	\$1,049.07	\$1,049.07
158301	7/23/2015	20150720	ARMANDO LOPEZ	EXP REIMB: AIRFARE & REGIS FEE - WEFTEC 2015 (SEPT)	\$1,007.99	\$1,007.99
158338	7/30/2015	10324	ALLIED FLUID PRODUCTS CORP	2 4X20KANALINE SR PVC HOSE	\$492.75	\$987.75
	7/30/2015	45818		2 4X20 KANALINE SR PVC S/D HOSE	\$495.00	
158325	7/23/2015	28287	THOMAS AND ASSOCIATES	ASTD PARTS & MATERIALS	\$971.02	\$971.02
158324	7/23/2015	686518640	TELEPACIFIC COMMUNICATIONS	WIRELESS INTERNET BACKUP - JULY	\$960.00	\$960.00
158385	7/30/2015	8122768071615	SIERRA SPRING WATER COMPANY	BOTTLESS COOLERS RENTAL	\$239.00	\$925.30
	7/30/2015	4868173071615		WATER SERVICE 06/19/15 - 07/16/15	\$686.30	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158290	7/23/2015	1083702975	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$27.17	\$923.10
	7/23/2015	1083704896		UNIFORM LAUNDERING SERVICE	\$15.16	
	7/23/2015	1083704893		UNIFORM LAUNDERING SERVICE	\$100.87	
	7/23/2015	1083704894		UNIFORM LAUNDERING SERVICE	\$90.49	
	7/23/2015	1083702973		UNIFORM LAUNDERING SERVICE	\$100.87	
	7/23/2015	1083702978		UNIFORM LAUNDERING SERVICE	\$11.20	
	7/23/2015	1083704897		UNIFORMS AND MATS	\$59.22	
	7/23/2015	1083704895		UNIFORM LAUNDERING SERVICE	\$27.17	
	7/23/2015	1083702976		UNIFORM LAUNDERING SERVICE	\$15.16	
	7/23/2015	1083702972.1		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
	7/23/2015	1083704892.2		UNIFORM LAUNDERING SERVICE	\$121.26	
	7/23/2015	1083702974		UNIFORM LAUNDERING SERVICE	\$90.49	
	7/23/2015	1083702977		UNIFORMS AND MATS	\$64.02	
	7/23/2015	1083704898		UNIFORM LAUNDERING SERVICE	\$11.20	
	7/23/2015	1083702972.2		UNIFORM LAUNDERING SERVICE	\$121.26	
	7/23/2015	1083704892.1		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
158396	7/30/2015	7113	WARM SPRINGS CONSTRUCTORS	REFUND # 18278	\$897.50	\$897.50
158264	7/23/2015	61553	BEECHER ENGINEERING	STANDBY POWER SYSTEM UPGRADE	\$850.00	\$850.00
158271	7/23/2015	97929	CDW GOVERNMENT LLC	SMARTNET FOR R&R	\$849.00	\$849.00

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158337	7/30/2015	9041096510	AIRGAS NCN	2 CYL ARGON	\$817.12	\$817.12
158260	7/23/2015	9928392076	AIRGAS NCN	CYLINDER RENTAL	\$815.80	\$815.80
158289	7/23/2015	9626	FREMONT EXPRESS COURIER SVC	COURIER SERVICES: JUNE 2015 DAILY MAIL/7 BOARDMEMBER DE	\$805.00	\$805.00
158266	7/23/2015	11244796	BROWN & CALDWELL CONSULTANTS	ALVARADO POTABLE WATER TANK/USE STUDY	\$800.80	\$800.80
158331	7/23/2015	34449	WECO INDUSTRIES LLC	REPAIR OF CAMERA	\$779.94	\$779.94
158335	7/30/2015	32961	ABACUS PRODUCTS INC	500 PLUMBER PENS	\$756.00	\$756.00
158294	7/23/2015	1580011	HANSON AGGREGATES INC	8.57 TONS 1/2 MED TYPE A AC-R	\$646.33	\$646.33
158274	7/23/2015	35449	CLAREMONT BEHAVIORAL SERVICES	AUG 2015 EAP PREMIUM	\$634.80	\$634.80
158369	7/30/2015	1020140	INDUSTRIAL SAFETY SUPPLY	ASTD CAL GAS	\$615.60	\$615.60
158317	7/23/2015	27717	SAFARI BOOKS ONLINE LLC	RENEW 10 SLOT BOOKSHELF WITH DOWNLOADS	\$598.00	\$598.00
158376	7/30/2015	150751	METROMOBILE COMMUNICATIONS INC	ANNUAL RADIO SERVICE - JULY 2015	\$582.75	\$582.75
158342	7/30/2015	69667	BELILOVE COMPANY ENGINEERS	1 NEODYNE PRESSURE SWITCHES	\$567.56	\$567.56
158388	7/30/2015	230355300	STEVEN ENGINEERING INC	4 PHOENIX UPS-BAT/VRLA/24DE/7.2AH	\$564.30	\$564.30
158401	7/30/2015	80339979	XEROX CORPORATION	MTHLY MAINTENANCE BASED ON USE	\$15.47	\$503.86
	7/30/2015	80339977		MTHLY MAINTENANCE BASED ON USE	\$389.10	
	7/30/2015	80339983		MTHLY MAINTENANCE BASED ON USE	\$99.29	
158277	7/23/2015	7907	COMPLETE ENVIRON SOLUTIONS	REFUND # 18259	\$500.00	\$500.00
158287	7/23/2015	7917	EVENFLOW PLUMBING CO. INC.	REFUND # 18270	\$500.00	\$500.00
158300	7/23/2015	11536	LOOKINGPOINT INC	MONTHLY PREMIER SERVICE - JULY 2015	\$500.00	\$500.00

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158322	7/23/2015	7967	STREAMLINE PLUMBING & DRAIN	REFUND # 18268	\$500.00	\$500.00
158347	7/30/2015	7942	FRANKLIN CHAN	REFUND # 18283	\$500.00	\$500.00
158349	7/30/2015	7794	SARAVANA CHILLA	REFUND # 18282	\$500.00	\$500.00
158356	7/30/2015	7961	DRAIN DOCTOR	REFUND # 18280	\$500.00	\$500.00
158357	7/30/2015	7958	DRAIN LINE PLUMBING SEWER SPEC	REFUND # 18281	\$500.00	\$500.00
158359	7/30/2015	7920	FREMONT PAIN TREATMENT CENTER	REFUND # 18290	\$500.00	\$500.00
158393	7/30/2015	7965	VALDEZ CONSTRUCTION COMPANY	REFUND # 18279	\$500.00	\$500.00
158383	7/30/2015	2630100001	S & S SUPPLIES & SOLUTIONS	ASTD SAFETY SUPPLIES	\$487.96	\$487.96
158360	7/30/2015	1083706805	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$15.16	\$444.81
	7/30/2015	1083706802		UNIFORM LAUNDERING SERVICE	\$100.87	
	7/30/2015	1083706807		UNIFORM LAUNDERING SERVICE	\$11.20	
	7/30/2015	1083706806		UNIFORMS AND MATS	\$59.22	
	7/30/2015	1083706804		UNIFORM LAUNDERING SERVICE	\$27.17	
	7/30/2015	1083706803		UNIFORM LAUNDERING SERVICE	\$90.49	
	7/30/2015	1083706801.1		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$33.78	
	7/30/2015	1083706801.2		UNIFORM LAUNDERING SERVICE	\$106.92	
158297	7/23/2015	20150721	TODD JACOB	EXP REIMB: IT TEAM FY15 SAFETY INCENTIVE GIFT CARDS	\$441.10	\$441.10
158286	7/23/2015	1000385354	ENVIRONMENTAL EXPRESS	ASTD COPPER, 1000UL/ML, 250ML STANDARD. ENV.	\$433.38	\$433.38
158350	7/30/2015	50405	CITYLEAF INC	PLANT MAINTENANCE - JUL 2015	\$429.65	\$429.65

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158330	7/23/2015	20150716	JANINNE WARD	EXP REIMB: SOCIAL COMMITTEE FAIR TICKETS	\$400.00	\$400.00
158366	7/30/2015	601680269	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES	\$387.29	\$387.29
158333	7/23/2015	2137224	WHAT'S HAPPENING INC	AD NAME: PUBLIC HEARING NOTICE	\$378.00	\$378.00
158395	7/30/2015	8041846962	VWR INTERNATIONAL LLC	2 GRADUATED CYLINDER PP 250ML & 1PK BOTTLE RECT HDPE	\$135.71	\$298.68
	7/30/2015	8041846963		1 SPEC COLOR DPD CHLORINE LR	\$162.97	
158341	7/30/2015	243072	AUTO BODY TOOLMART	ASTD PARTS & MATERIALS	\$295.09	\$295.09
158382	7/30/2015	7579572700	RS HUGHES CO INC	ASTD PPE & SAFETY SUPPLIES	\$280.07	\$280.07
158312	7/23/2015	110069	PREFERRED ALLIANCE INC	JUNE 2015 SERVICE FEE	\$273.00	\$273.00
158362	7/30/2015	1248518908	GLACIER ICE COMPANY INC	184 7-LB BAGS OF ICE	\$255.76	\$255.76
158311	7/23/2015	7993254	PILLSBURY WINTHROP SHAW PITTM	LABOR & EMPLOYMENT LAW FEES	\$255.00	\$255.00
158320	7/23/2015	20150701	SPOK INC	JULY 2015 PAGER SERVICE	\$220.70	\$220.70
158399	7/30/2015	20150727.1	WEF-WATER ENVIRONMENT FEDERATI	WEF MEMBERSHIP D DRAKE	\$218.00	\$218.00
158400	7/30/2015	20150727.2	WEF-WATER ENVIRONMENT FEDERATI	WEF MEMBERSHIP M COSTELLO	\$218.00	\$218.00
158334	7/23/2015	25156	WILEY PRICE & RADULOVICH LLP	LABOR & EMPLOYMENT LAW FEES	\$208.00	\$208.00
158358	7/30/2015	1112065	FASTENAL	ASTD PARTS & MATERIALS	\$195.13	\$195.13
158381	7/30/2015	20153501	QUICK SPACE RENTALS	GUARD BOOTH RENTAL JULY 2015	\$192.50	\$192.50
158387	7/30/2015	20150729	JENNIFER SIO-KWOK	EXP REIMB: LUNCH BUYER I/II QAI PANEL	\$48.85	\$174.75
	7/30/2015	20150728.1		EXP REIMB: LUNCH EC INSPECTOR RECRUITMENT PANEL	\$91.25	
	7/30/2015	20150728.2		EXP REIMB: LUNCH BUYER I/II RECRUITMENT PANEL	\$34.65	

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158364	7/30/2015	3I5435	HARRINGTON INDUSTRIAL PLASTICS	2 EA ELBOWS	\$17.39	\$170.55
	7/30/2015	3I5111		1 EA 1/2" VALVE DEGAS AUTO VENT	\$317.06	
	7/30/2015	3I5322		CREDIT FOR 360 FEET OF 2" PVC PIPE	\$-534.60	
	7/30/2015	3I5434		360 FT PVC PIPE & 15 EA COUPLINGS	\$370.70	
158390	7/30/2015	20150728	RUFUS TAI	EXP REIMB: PMI MEMBERSHIP RENEWAL	\$164.00	\$164.00
158363	7/30/2015	9771796977	GRAINGER INC	2 EA HINGE HANDLES	\$205.50	\$160.73
	7/30/2015	9772991114		2 EA PATCH CORDS	\$44.80	
	7/30/2015	9786369398		CREDIT FOR 1 EA REMOTE START FOR GAS VIPER	\$-137.51	
	7/30/2015	9770663392		2 EA SOCKETS	\$47.94	
158375	7/30/2015	35016692	MCMASTER SUPPLY INC	4 EA RECHARGEABLE SEALED LEAD-ACID BATTERIES	\$154.61	\$154.61
158348	7/30/2015	20150728	RAYMOND CHAU	EXP RIEMB: CIP TEAM QTLY SAFETY STRATEGY RECOGNITION	\$151.68	\$151.68
158291	7/23/2015	9763189009	GRAINGER INC	1 EA REMOTE START FOR GAS VIPER	\$137.51	\$137.51
158315	7/23/2015	20150722	THERESA RODRIGUEZ	EXP REIMB: MANAGEMENT MEETING LUNCH	\$136.97	\$136.97
158299	7/23/2015	1407190	LIEBERT CASSIDY WHITMORE	LEGAL SERVICES	\$120.00	\$120.00
158270	7/23/2015	109519	STATE OF CALIFORNIA	3 NEW HIRE FINGERPRINTS	\$111.00	\$111.00
158343	7/30/2015	20150717	JUDI BERZON	EXP REIMB: LUNCH FOR RECRUITMENT PANEL/SNACKS FOR PAN	\$92.42	\$92.42
158303	7/23/2015	20150716	REGINA MCEVOY	EXP REIMB: LUNCH FOR ET MEETING	\$90.00	\$90.00
158327	7/23/2015	9853265.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 08/27/15	\$82.11	\$82.11
158272	7/23/2015	403021	CHEMETRICS INC	NITRITE VACU-VIALS KIT.CHEMETRICS CAT	\$65.64	\$65.64

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158316	7/23/2015	7576820101	RS HUGHES CO INC	4 BXS MICROFLEX SAFEGRIP LATEX GLOVES	\$63.55	\$63.55
158373	7/30/2015	20150721	REGINA MCEVOY	EXP REIMB: CAKE FOR DAVID O'HARA'S RETIREMENT	\$60.00	\$60.00
158384	7/30/2015	85340220150723	SAN FRANCISCO WATER DEPT	SERVICE 06/20/15 TO 07/22/15	\$57.20	\$57.20
158355	7/30/2015	615320150718	DISH NETWORK	AUG 2015 - SERVICE FEE	\$50.90	\$50.90
158279	7/23/2015	20150716	CSDA CAL SPECIAL DIST ASSOC	MEMBERSHIP DUES 7/01/15-6/30/16	\$50.00	\$50.00
158367	7/30/2015	5546926	HOSE & FITTINGS ETC	ASTD PARTS & MATERIALS	\$40.56	\$40.56
158302	7/23/2015	77773089	MATHESON TRI-GAS INC	CYLINDER RENTAL - JUNE 2015	\$34.35	\$34.35
158283	7/23/2015	XJJJ5J1R8	DELL MARKETING LP C/O DELL USA	1 DELL MONITOR SOUND BAR	\$29.55	\$29.55
158368	7/30/2015	290656266	IDEXX DISTRIBUTION INC	IDEXX QUANTI-TRAY COMPARATOR	\$26.79	\$26.79
158346	7/30/2015	445551	CENTERVILLE SAW AND TOOL	ASTD PARTS & MATERIALS	\$21.18	\$21.18
158280	7/23/2015	816312	CUMMINS PACIFIC LLC	ASTD PARTS & MATERIALS	\$925.33	\$20.97
	7/23/2015	815980		ASTD PARTS & MATERIALS	\$1,780.77	
	7/23/2015	2764733		2 CIR BKR	\$232.08	
	7/23/2015	842932		CREDIT ASTD PARTS & MATERIALS	\$-214.40	
	7/23/2015	842953		CREDIT ASTD PARTS & MATERIALS	\$-2,702.81	
158365	7/30/2015	19901	HAYWARD PIPE AND SUPPLY	2 EA NIPPLES	\$14.60	\$14.60
158329	7/23/2015	9748156923	VERIZON WIRELESS	WIRELESS SERV 06/02/15-07/01/15	\$14.04	\$14.04
158305	7/23/2015	24847447	MOTION INDUSTRIES INC	2 EA OIL SEALS	\$10.36	\$10.36

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
Invoices:				Checks:		
		Credit Memos :	9			-7,852.08
		\$0 - \$1,000 :	159		\$0 - \$1,000 :	80
		\$1,000 - \$10,000 :	60		\$1,000 - \$10,000 :	44
		\$10,000 - \$100,000 :	14		\$10,000 - \$100,000 :	13
		Over \$100,000 :	7		Over \$100,000 :	6
		Total:	249		Total:	143
			47,168.01			30,469.67
			178,770.72			150,465.11
			417,404.15			378,841.73
			2,318,327.09			2,394,041.38
			2,953,817.89			2,953,817.89



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: July 28, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Rich Cortes, Business Services Manager

SUBJECT: Agenda Item No. 9b - Meeting of August 10, 2015
Information Item: **CalPERS Replacement Benefit Plan**

Recommendation

Information Only.

Background

Internal Revenue Code Section 415(b) is a federal provision that limits the annual retirement benefit a retiree can be paid from a tax qualified defined benefit pension plan such as CalPERS. For 2015 the annual limit is \$210,000 for members who retire at ages 62-65. The annual limit is reduced if you retire at a younger age.

CalPERS has established a Replacement Benefit Plan (RBP), in accordance with Government Code Section 21750. Based on the statute all contracting agencies participate in the RBP. The RBP ensures that members are provided with retirement benefits that would have been received had the IRC 415 (b) limit not been in place.

At the time a member retires, CalPERS calculates the IRC 415(b) limit. For those retirees whose retirement payment exceeds the limit, CalPERS invoices employers for the amount above the limit based on the amount of service credit earned by the member with that employer. CalPERS factors these "extra" payments into our future actuarial reports as a gain which will reduce the employer contribution (in other words the District is not paying twice for the benefit).

The District first became affected by the RBP with the retirement of two managers late last year. The District has been invoiced and paid a total of \$46,335 for both individuals to CalPERS. According to CalPERS, this will be an annual invoice. Staff hired an actuary to project what additional future payments might be necessary based on this program so that future budgets could be more accurately projected. The attached table shows the results of the actuary's analysis. For FY'16, we have budgeted a total of \$88,000. Future costs will primarily depend on when employees retire, actual age of retiree, and federal limit changes. Staff will discuss this budget item during the spring Board Budget Workshop.

Attachment

Union Sanitary District

Estimated Future Limitations to Plan Benefits

No.	Dates:				Age:			Service:				Earnings:		Reduced Retirement Benefit :					
	DOB	Spouse DOB	DOH	DOR	As of 4/30/15	At DOR	Spouse At DOR	As of 4/30/15			Future	Current	Final	Benefit Without Limit	Benefit Limit	Initial Reduction	Reduction Value @ 4% as of 4/30/15		
								With USD	PERS	Sick Leave Credit							Total	USD Portion	Value Assigned To USD
1	3/19/58	2/4/56	6/16/85	12/31/15	57.12	57.78	59.91	29.87	31.83	1.31	0.66	211,502	211,502	161,737	126,310	(35,427)	(802,561)	94.20%	(756,024)
2	1/5/64	NA	5/26/93	12/31/25	51.32	61.99	NA	21.93	27.93	0.88	10.66	189,931	281,144	277,413	226,835	(50,578)	(600,939)	84.80%	(509,586)
3	9/1/67	2/20/69	7/15/91	12/31/22	47.66	55.33	53.86	23.79	23.79	0.98	7.66	162,500	213,839	155,955	127,985	(27,969)	(533,125)	100.00%	(533,125)
3	9/1/67	2/20/69	7/15/91	12/31/23	47.66	56.33	54.86	23.79	23.79	0.98	8.66	162,500	222,393	166,401	140,314	(26,087)	(469,170)	100.00%	(469,170)
3	9/1/67	2/20/69	7/15/91	12/31/24	47.66	57.33	55.86	23.79	23.79	0.98	9.66	162,500	231,289	177,371	153,930	(23,440)	(397,505)	100.00%	(397,505)
3	9/1/67	2/20/69	7/15/91	12/31/25	47.66	58.33	56.86	23.79	23.79	0.98	10.66	162,500	240,540	188,877	172,064	(16,813)	(268,663)	100.00%	(268,663)
3	9/1/67	2/20/69	7/15/91	12/31/26	47.66	59.33	57.86	23.79	23.79	0.98	11.66	162,500	250,162	200,937	188,990	(11,948)	(179,769)	100.00%	(179,769)
3	9/1/67	2/20/69	7/15/91	12/31/27	47.66	60.33	58.86	23.79	23.79	0.98	12.66	162,500	260,168	213,572	207,881	(5,691)	(80,577)	100.00%	(80,577)
4	8/20/70	2/27/68	8/7/88	12/31/25	44.70	55.36	57.84	26.73	26.73	0.07	10.66	183,402	271,479	233,881	137,938	(95,943)	(1,564,908)	100.00%	(1,564,908)
5	5/5/68	10/27/72	5/2/94	12/31/21	46.99	53.65	49.18	20.99	20.99	0.68	6.66	153,990	194,846	116,581	108,555	(8,026)	(169,556)	100.00%	(169,556)
5	5/5/68	10/27/72	5/2/94	12/31/22	46.99	54.65	50.18	20.99	20.99	0.68	7.66	153,990	202,640	130,129	121,240	(8,889)	(177,564)	100.00%	(177,564)
5	5/5/68	10/27/72	5/2/94	12/31/23	46.99	55.65	51.18	20.99	20.99	0.68	8.66	153,990	210,746	141,110	132,825	(8,285)	(156,413)	100.00%	(156,413)
5	5/5/68	10/27/72	5/2/94	12/31/24	46.99	56.65	52.18	20.99	20.99	0.68	9.66	153,990	219,175	150,726	145,607	(5,120)	(91,288)	100.00%	(91,288)
5	5/5/68	10/27/72	5/2/94	12/31/25	46.99	57.65	53.18	20.99	20.99	0.68	10.66	153,990	227,942	160,809	162,632	-	-	100.00%	-
5	5/5/68	10/27/72	5/2/94	12/31/26	46.99	58.65	54.18	20.99	20.99	0.68	11.66	153,990	237,060	171,370	178,482	-	-	100.00%	-

Assumptions:

CPI = 2.50%. **The CPI is used to project the current IRC dollar limit to the year of termination** ; Future Salary Increases = 4.00%; Mortality table used to determine value = 2000 RP Combined Table projected generationally by Scale AA; No mortality was assumed between 4/30/2015 and the assumed retirement age; For reducing benefits for optional forms we used 7.5% interest and a 50/50 blend of the 2000 RP Combined table projected statically to the year of retirement by Scale AA; Discount rate used for valuation (4%) was approximately the rate required by the Pension Discount Curve on April 30, 2015; Benefit form is a joint and 100% survivor annuity with 2% COLA; Participant 2 was assumed to receive a single life annuity with 2% COLA; Union Sanitary District is assumed to be responsible for the fraction of the benefit represented by the ratio of the participant's service with Union Sanitary District to the participant's total PERS service. The current sick leave balance was assumed to stay constant to retirement and the entire amount credited was assumed to be attributable to Union Sanitary District.

Limitation of Use:

Estimating IRC 415 limits requires interpretations of complex regulations. The calculations in this exhibit were performed in accordance with our understanding of these regulations. However, Bickmore does not practice law nor can Bickmore provide tax advice. Union Sanitary District may wish to have the methodologies used to derive these estimated reductions reviewed by a tax attorney or other tax specialist.

Notes:

DOB = Date of Birth; DOH = Date of Hire; DOR = Date of Retirement



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers
Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: July 30, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services

SUBJECT: Agenda Item No. 9c – Meeting of August 10, 2015
Information Item: **Fourth Quarterly Report on the Capital Improvement Program for FY 15**

Recommendation

Information Only.

Background

In June 2014, the Board approved the Capital Improvement Program (CIP) budget for FY'15 in the amount of \$14.87 million for the design and construction of 21 projects. The fourth quarter expenditures for FY'15 are shown on the attached budget projection graphs. These graphs depict actual expenditures versus approved budget for the Capacity Fund 900, the Renewal and Replacement Fund 800 as well as for both funds, combined.

The total FY'15 CIP expenditures up to June 30, 2015, were over the projections for the fourth quarter by about \$1 million.

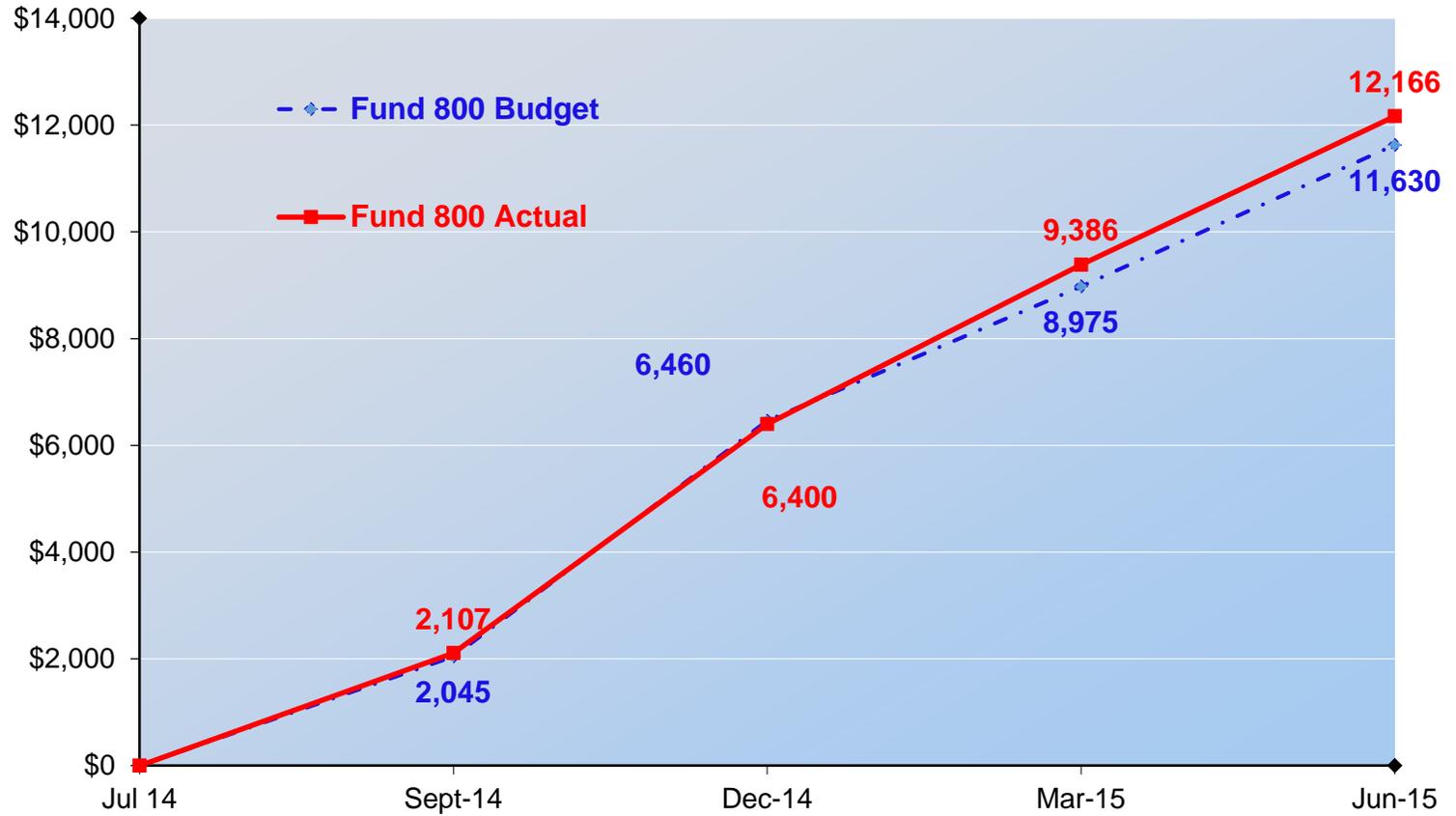
These primary variances are tabulated as follows:

Project	Variance at the end of 4 th Quarter (x \$1000)	Comments
Newark Backyard SS Relocation - Phase II	+ 595	Construction was not anticipated to start in earnest until the start of FY'16. However, Contractor was able to make headway and earn two progress payments by end of FY'15.
Cogen Project	+ 590	Most of this variance was for unforeseen Contract Change Orders.
Stevenson Property Backup Communications Tower	- 585	Construction of the tower has been deferred to explore the use of AT&T fiber optics instead.
Digester No. 5	+400	Most of this variance was for a higher contract bid amount and unforeseen Contract Change Orders above approved budget.
Total Variance for the 4th Qtr.	+ 1,000	

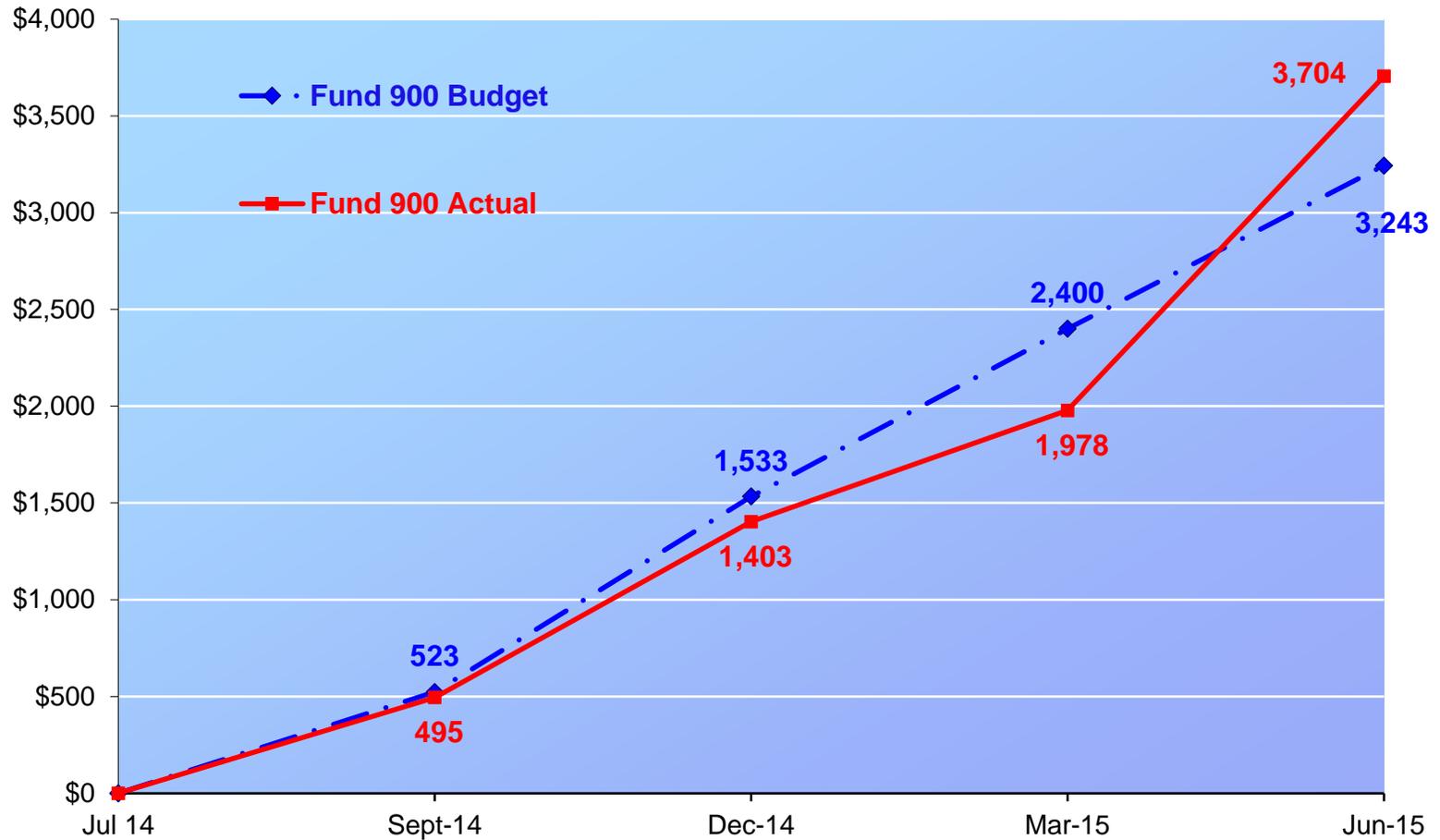
PRE/SEG:av

Attachment: Budget Projection Graphs

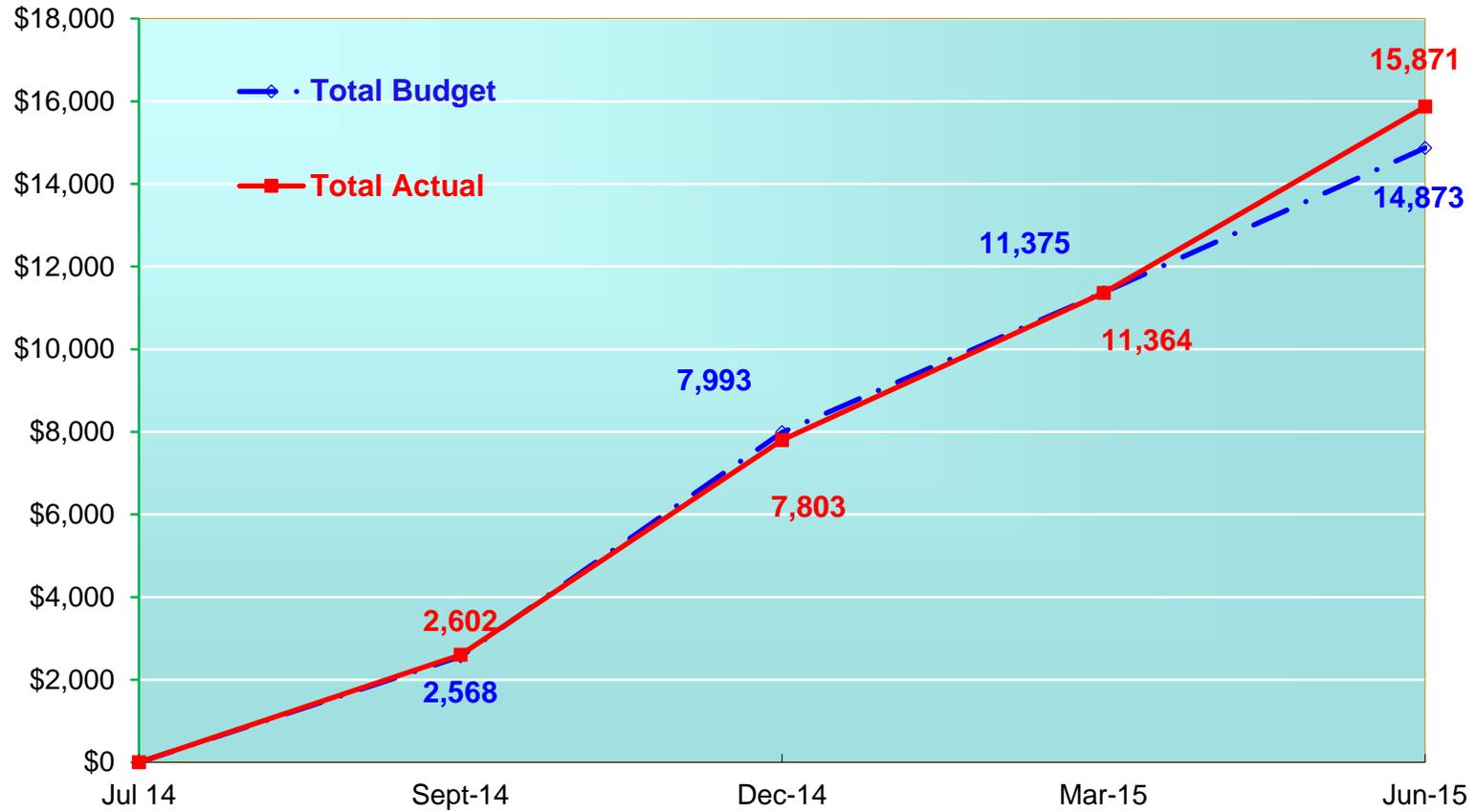
Structural R&R



Capacity



Total Cumulative



**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: July 30, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services

SUBJECT: Agenda Item No. 9d – Meeting of August 10, 2015
Information Item: **Status of Priority 1 CIP Projects**

Recommendation

Information Only.

Background

In June 2014, the Board approved the Capital Improvement Program budget for FY'15 in the amount of \$14.87 million for the design and construction of 21 projects.

These 21 projects are further ranked as Priority 1 and 2 projects based on a criteria prepared by staff and approved by the Executive Team. A copy of the criteria used to prioritize the projects is attached for your reference.

The status of the Priority 1 CIP projects is reviewed by the Executive Team at the end of each quarter and a copy of the status report is attached for the Board's review. For FY'15, nine (9) projects are ranked as Priority 1 projects and the remaining twelve (12) are ranked as Priority 2 projects.

Also attached is a tabular summary of the number and nature of the ongoing CIP projects at the District during FY'15.

PRE/SEG:ks

Attachments: Priority 1 CIP Project Criteria
Priority 2 & 3 CIP Project Criteria
Priority 1 CIP Projects Status Report
Summary of CIP Projects for FY 15

PRIORITY 1 CIP PROJECT CRITERIA

Priority 1 Projects:

1. Project to repair or prevent an imminent critical infrastructure failure that could result in a threat to the public, or result in permit non-compliance.
2. A project designed to address public health and safety or employee health and safety.
3. Project to provide additional capacity in order to allow connection to the District system or to prevent a potential wet weather overflow from occurring.
4. Projects that have a deadline tied to receiving a loan or grant funding.
5. Projects where we have made a timeline commitment to a customer or other outside stakeholder.
6. A project in which the District may suffer financial losses or claims should the project be delayed.
7. A project which is part of a sequence of projects whose delay could result in delays to other projects at USD or other agencies.
8. A project in which an internal commitment has been made to provide a facility that significantly impacts another group from efficiently and effectively carrying out their core work. (Not a “nice to have” type project)

These criteria can apply to a study, design, or construction project.

PRIORITY 2 & 3 CIP PROJECT CRITERIA

Priority 2 Projects

1. These are planned projects related to the replacement of electrical and mechanical equipment identified by the Plant Master Plan – this equipment is not in imminent danger of failure but needs to be replaced at a future date.
2. These are planned pipeline rehab/replacement projects that are identified either by the Master Plan or by the Maintenance staff and need to be completed to improve the condition of existing sewers to safeguard against potential maintenance problems – these pipelines are not in imminent danger of failure.
3. These projects do not have any immediate negative impacts on either other agencies or other projects.
4. Examples: Blacow Road Sewer Replacement, Cast Iron Pipe Replacement, Thickener Mechanism 3&4 Replacement, Rehab of Clarifiers 5&6.

Priority 3 Projects

1. These are capacity projects identified by the master plans that will address future capacity needs of the District.
2. These projects are place holders and need to be defined at a future date
3. The District will not suffer any financial loss or claim, if these projects are delayed.
4. Examples: Cedar Relief Sewer, Hetch Hetchy Relief Sewer, Digester No. 7, Secondary Clarifiers 7 & 8.

Priority 1 Projects for FY 15 – Status Report

	Project	Planned Milestones	Status after 1st Quarter	Status after 2nd Quarter	Status after 3rd Quarter	Status after 4th Quarter
1	Alvarado-Niles Blvd. Sewer Rehab	Complete design by May, open bids by June, 2015.	50% design due November 21, 2014.	90% design is due on February 6th.	100% design submittal received and review commenced.	Design is complete. Construction is postponed to FY 16 and 17 per Union City's request.
2	Jarvis Ave. Sewer Replacement	Complete construction by January, 2015.	Construction work is approximately 45% complete.	Board accepted project on November 24th.	Completed in 2 nd Quarter.	Completed in 2 nd Quarter.
3	Pine St. Easement	Complete preliminary design and begin environmental review process by June, 2015.	Design consultant is selected and negotiations underway for task order to evaluate pipe bridge alternatives.	Field surveying and geotech investigation to be completed in February.	Completed field surveying and geotech investigation. Bridge Alternatives Tech Memo due in April.	Workshop to review Bridge Alternatives was conducted. Draft Tech Memo (TM) was received in May. Final TM was submitted in July.
4	Upper Hetch Hetchy Sewer Rehab	Complete construction by April, 2015.	Rehabilitation of 24 and 27-inch pipe in Fremont is complete. Construction work is approximately 65% complete.	Construction is approximately 90% complete.	Board accepted project on February 9 th .	Completed in 3 rd Quarter.
5	Fremont & Paseo Padre Lift Station Internal Lift Pumps	Complete condition assessment by October 2014, Complete design by June 2015	Condition assessment of pumps is complete. RFP to consultants for design services will be issued in October.	Preliminary design memo is due March 13th and 50% design is due on April 10th.	Preliminary design memo received and review commenced; comments due back to Consultant in April.	Received 90% design on June 25 th . Final design was submitted in July.
6	Wet Weather Flow Management	Site Use Study: Presentation to USD Board by May, 2015 Complete draft report by June 2015.	Kickoff meeting was conducted on September 2 nd . Workshop No. 1 is scheduled for November 18 th .	Workshop No. 1 occurred on November 18. Draft report is due in February.	Workshop No. 2 held on January 6 th . Draft report was received in March.	Conducted Board workshop on June 15 th . Final report completed in May.

7	Cogeneration Project	Complete construction by December, 2014.	Commissioning of the engine generator system is complete. Operational testing of the engine generator and digester gas conditioning systems has begun. Construction work is approximately 94% complete.	Accepted engines and digester gas conditioning system on November 17th. Demolition and site work remain. Construction anticipated to be complete in February.	Issued Substantial Completion on March 4 th . Work on punch list items has begun and will continue into the 4 th quarter.	Completed in 3 rd Quarter.
8	Thickener Control Bldg. Modifications Project	Complete the construction of the Electrical Building (structure only) by June 2015. Complete installation of major electrical work by August 2015. Complete construction by November, 2016.	Excavation of the new TPS pipeline trench and electrical building foundation is complete. Construction work is approximately 5% complete.	Underground ductbanks installation continued. Demolition of an existing slab adjacent to the Heating and Mixing Building No. 1 has been slowed due to unforeseen underground utilities.	Completed installation of new TPS pipeline & major underground electrical ductbanks. New Electrical Bldg foundation and walls are complete. Roof will be installed in April. Commenced with electrical equipment installation in the new electrical room in Heating and Mixing Building No. 1	New Thickener Electrical Building is complete. New MCCs and PLCs were installed in the Thickener Electrical Building and Heating and Mixing Building No. 1. Installation of the sludge and scum bypass pipelines has begun.
9	Digester No. 5 Rehab	Complete construction by February 2015	Removal of sealant between the dome and concrete tank wall and preparation for steel dome supports has begun. Work is approximately 12% complete.	Discovered significant corrosion damage to the digester dome skirt that required repairs. Still on track for completion in February.	Issued Project Substantial Completion on February 27 th . Contractor began work on punch list items and will continue into the 4 th quarter.	Completed in 3 rd Quarter.

SUMMARY OF CIP PROJECTS FOR FY 15

Type of Project	Number of Projects	Names of Projects
Collection System	Six	<ol style="list-style-type: none"> 1. Alvarado-Niles Blvd. Sewer Rehab 2. Jarvis Ave. Sewer Relocation 3. Newark Backyard Sewer Relocation 4. Pine Street Easement Repair 5. Upper Hetch Hetchy Sewer Rehab Project 6. Veasy Street Sewer Improvements Project
Transport System	Five	<ol style="list-style-type: none"> 1. Boyce Road Lift Station 2. Cherry Street Pump Station Improvements 3. Fremont & PP LS Internal Lift Pumps 4. Stevenson Property Backup Comm Tower 5. Wet Weather Flow Management
Treatment System	Ten	<ol style="list-style-type: none"> 1. Aeration System Rehab 2. Cogeneration Project 3. Digester No. 5 Rehab 4. Generator Controls Upgrade 5. MCC Replacement Project, Phase III 6. Plant Facilities Improvements Project 7. 60" Primary Effluent Pipe Rehab 8. Sludge Drying (BACWA Study) 9. Thickener Control Bldg Improvements Project 10. Water Storage Tank and Well



Summary of the EBDA Commission Meeting

Thursday, July 16, 2015 at 9:30 a.m.

Prepared by: P. Eldredge

- Commissioners Handley, Dias, Johnson, Peixoto, and Prola were present.
- The Consent Calendar was approved unanimously and included the Commission Meeting Minutes, List of Disbursements, and Treasurer's Report.
- The Commission unanimously approved the reports from the General Manager, Managers Advisory, Financial Management, Regulatory Affairs, and Operations & Maintenance committees. The following items were discussed:
 - **General Managers Report** The General Manager deferred his comments to specific agenda items.
 - **Managers Advisory Committee (MAC)** met with the General Manager on July 15, 2015. The Committee discussed the selection process for the Outfall Inspection Project contractor. The results will be presented to the Commission in August. The MAC discussed recycled water use and the long-term EBDA JPA.
 - **Financial Management Committee** approved the June List of Disbursements and Preliminary Treasurer's Report. The Committee was advised on improvements made to EBDA's accounts payable process since the implementation of the cloud-based Financial Edge software.
 - **Regulatory Affairs Committee** reviewed June permit compliance. The Committee discussed a resolution authorizing a personal services agreement with Eisenberg, Olivieri, and Associates, Inc. for assistance with the NPDES permit reissuance. The Regulatory Committee recommended that the Commission adopt the resolution. Lastly, the Committee reviewed the Water Board's inspection of the MDF. At the recommendation of the inspector, James Parrish, EBDA has modified the calculation procedure for total coliform from a running geometric mean to a monthly geometric mean. This change will have no impact on compliance. In general, Mr. Parrish was impressed with the level of redundancy in place at the facility.
 - **Operations and Maintenance (O&M) Committee** met with the General Manager on July 13, 2015 and was updated on EBDA performance. The Committee was updated on the status of the AEPS VFD and harmonic filter project. The VFDs have been ordered and are expected to arrive before September 2015. Phase 2 of the OLEPS PLC project is underway. The Committee discussed the selection process for the Outfall Pipe Inspection Project contractor. Contractor interviews were held on July 13 the Committee and Commission will be updated in August.
 - **Ad-Hoc Committee** met with General Manager and discussed the response letter from Castro Valley Sanitary District. The Authority's legal counsel met with the Ad Hoc Committee to discuss the general options of extending, modifying or terminating the long-term EBDA JPA. He emphasized that terminating the JPA is not practical and not likely to meet regulatory approval. He reminded the Commission that the inception of the JPA was dependent upon a vision of the needs for the East Bay in the upcoming 40 years. That vision guided the formation of EBDA, and

he suggested that this would be an appropriate time to develop a similar long-term vision. The Ad Hoc Committee concurred as did the full Commission and directed the General Manager to schedule a workshop for the member agencies to begin to develop a long-term vision for EBDA to help frame the future roles for the organization.

The Commission unanimously passed the following resolution:

- Commissioner Prola moved to approve the resolution authorizing a personal services agreement with Eisenberg, Olivieri, and Associates, Inc. The motion was seconded by Commissioner Johnson and carried unanimously (Handley, Johnson, Prola, Peixoto, Dias; ayes).

Argus

c/o Bay Area News Group-East Bay
6086 Stewart Avenue
Fremont, CA 94538
510-403-4483

2054285

UNION SANITARY DISTRICT
ATTN: ACCOUNTS PAYABLE
PO BOX 5050
UNION CITY, CA 94587

PROOF OF PUBLICATION
FILE NO. Ordinance #31.38

In the matter of

Argus

The Argus

I am a citizen of the United States. I am over the age of eighteen years and not a party to or interested in the above-entitled matter. I am the Legal Advertising Clerk of the printer and publisher of The Argus, a newspaper published in the English language in the City of Fremont, County of Alameda, State of California.

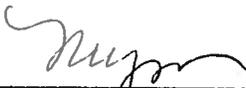
I declare that the Argus is a newspaper of general circulation as defined by the laws of the State of California as determined by this court's order dated July 28, 2008 in the action entitled In the Matter of the Ascertainment and Establishment of the Standing of The Argus as a Newspaper of General Circulation, Case Number HG08-390724. Said order states "The Argus" has been established, printed and published in the City of Fremont, County of Alameda, State of California; That it is a newspaper published daily for the dissemination of local and telegraphic news and intelligence of general character and has a bona fide subscription list of paying subscribers; and...THEREFORE, IT IS ORDERED, ADJUDGED AND DECREED:...That "The Argus" is a newspaper of general circulation for the City of Fremont, County of Alameda, California. Said order has not been revoked.

I declare that this notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

7/18/2015

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated: July 20, 2015



Public Notice Advertising Clerk

Legal No. **0005528395**

Public Notice
Union Sanitary District

On July 13, 2015, the Union Sanitary District Board adopted Ordinance No. 31.38, which codifies rate changes for Sewer Service Charges for Fiscal Year 2016. The following is a summary of the rate changes in Ordinance No. 31.38:

The Sewer Service Charge for all customer categories will increase an average of 5.7%. This will increase the Single Family Dwelling rate to \$377 per year, and the Multi-Family Dwelling rate to \$326. Commercial and industrial unit rates, calculated per 1,000 gallons discharged, will increase approximately 5.7% as well.

This rate increase is part of a 3-year rate increase approved by the Board of Directors at a public hearing on June 24th, 2013. All property owners in the Tri-City area were informed by mail of the rate increase and public hearing in April 2013. These rates were discussed and approved by resolution and ordinance following a noticed public hearing held at the Union Sanitary District Board meeting of June 13, 2015. A copy of the ordinance may be found on our website at www.unionsanitary.ca.gov or may be obtained at our offices located at 5072 Benson Road, Union City, CA.

AR #5528395; July 18, 2015

The Argus

California's drought State Supreme Court douses tiered water rates

Justices let stand lower court's ruling that limits punitive fees

By Howard Mintz

July 23, 2015

hmintz@mercurynews.com

Rejecting the pleas of California officials worried about water conservation, the state Supreme Court on Wednesday left intact a lower court ruling that makes it tougher for cities and water districts to impose punishing higher rates on water wasters.

In its weekly closed-door conference, the Supreme Court refused to soften the statewide impact of an April appeals court ruling that found the city of San Juan Capistrano's system of tiered water rates — common in the Bay Area and elsewhere in California — was unconstitutional because it charged more for water than it cost the city to provide the service.

The appeals court, in finding the city's approach violated voter-approved Proposition 218's restrictions on such fees, "published" the decision, giving it legal weight across the state and prompting Gov. Jerry Brown to warn it placed a "straitjacket" on his mandates to lower water use.

Acting on behalf of the State Water Resources Control Board, Attorney General Kamala Harris in June urged the Supreme Court to "depublish" the ruling, arguing it was "unnecessary and overbroad" and hampered efforts to deal with California's ongoing drought. The move was designed to limit the force of the ruling to San Juan Capistrano's water rates. The League of California Cities also joined the state's effort to persuade the state Supreme Court to depublish the ruling.

But in Wednesday's brief order, the state Supreme Court without comment rejected the state's request, thus forcing local and state officials elsewhere to adapt to the ruling's limitations.

Harris' office referred questions to the water resources board. Board officials said they weren't surprised at the Supreme Court's decision.

"While the court of appeal's decision makes it more difficult for local agencies to justify their water conservation rates, the decision does not foreclose conservation pricing," the board said in a statement. "The State Water Resources Control Board will continue to work on implementation of the governor's (conservation order) and will continue to assist local agencies in developing effective and lawful conservation pricing mechanisms." Local officials have warned that the ruling from the Santa Ana-based appeals court may force cities and water districts to rely more on other tools, such as more advertising, water audits, rebate programs for low-water appliances, restrictive rules on lawn watering and fines for violators.

But legal experts and water officials also say water districts will still be able to use the tiered rates if they can demonstrate they are closely tied to the cost of providing water services.

Amid the most severe drought in California's 164-year history, Brown has ordered urban residents to cut water use by 25 percent statewide. One key tool that Brown had recommended was for local governments to set rate structures with higher "surcharges, fees and penalties" for people who use large amounts of water. But that approach — conserve or pay a much higher water bill — was thrown into doubt by the 4th District Court of Appeal's conclusion that such charges may violate Proposition 218, a 1996 ballot measure that barred governments from charging more for a service than it costs to provide. The court did not invalidate the use of rate tiers entirely. It said, however, that cities and water agencies can charge more only if they can document that it costs them more to provide the extra water. The court ruling, because it is "published," sets statewide legal precedent that can be used in other court challenges to water district policies and at a minimum forces local water officials and lawyers to reconsider how they can legally enforce water conservation. As of now, there are two similar legal battles unfolding against the Sweetwater Authority, a San Diego-area water district, and the city of Glendale's water district.

Taxpayer groups have warned of other legal challenges if districts violate Proposition 218's restrictions.

Water agencies have scrambled to interpret the ruling — and in some cases realized they would have to adapt. In Santa Cruz, which charges a \$50 per unit "penalty" for water use over 11 units per house, giving it one of the highest water conservation rates in the state, the city previously indicated it may have to rewrite its rules.

Howard Mintz covers legal affairs. Contact him at 408-286-0236. Follow him at [Twitter.com/hmintz](https://twitter.com/hmintz).

California drought: Santa Barbara to restart desalination plant

Posted: 07/22/2015 11:04:33 AM PDT

MercuryNews.com

SANTA BARBARA -- The Santa Barbara City Council has unanimously voted to spend \$55 million to reactivate the city's desalination plant and tap the ocean to turn salty seawater to fresh water amid an historic drought.

KEYT-TV reports (<http://bit.ly/1g4KPIR>) the council voted Tuesday to restart the facility, which could provide up to 40 percent of Santa Barbara's water.

Council members called the desalination plant an insurance policy against future droughts. It could be online by next year.

The firm IDE American will run the facility, which was built during a dry spell in the 1990s and closed a few years later.

IDE says it will cost between \$1.5 and \$4.1 million a year to run, depending on how much water is needed.

KEYT says customers could be hit with higher rates to help pay for plant operations.

dailypilot.com/news/tn-dpt-me-0725-costa-mesa-sanitary-district-fine-20150724,0,4163119.story

Daily Pilot

State may fine sanitary district more than \$500,000 over sewage spills

By Bradley Zint

6:00 PM PDT, July 24, 2015

State authorities have fined the Costa Mesa Sanitary District more than \$500,000 in connection with two sewage spills that released tens of thousands of gallons of raw materials into Upper Newport Bay.

advertisement

In a 4 1/2-hour hearing Friday afternoon in Irvine, prosecutors from the State Water Resources Control Board's Santa Ana Region alleged that the district failed to address and prevent spills that occurred in Newport Beach in 2013 and on Jan. 1, 2015 — both of which discharged an estimated 85,100 gallons of untreated sewage.

They contended that the district failed to uphold industry standards and undergo sufficient preventive maintenance measures.

Sanitary district officials were quick to acknowledge fault in both incidents, but countered that the recommended \$503,214 fine, issued April 30, is disproportionately high compared to other penalties issued throughout the state and should be less than half that: \$204,995.

District officials also contended that, while sewage spills are clearly bad for the bay, no long-term "acute and chronic" environmental effects connected to the spills have been recorded or proven.

The regularly scheduled monitoring of the Back Bay waters after the spill fell within state standards, the district contended.

"We are not negligent, and we are not bad actors," said district counsel Alan Burns. "It's easy to say after a spill has occurred that you should have done more ... it's quite another thing to manage a sewer system, with a budget, in real time."

Prosecutors said around 9 a.m. on Aug. 31, 2013, a resident on Anniversary Lane, near the Back Bay, reported a sewage leak.

Newport city staff responded and discovered that a Costa Mesa Sanitary District pump station, near Irvine Avenue and Mesa Drive, had failed and was leaking untreated sewage into the Santa Ana-Delhi Channel, which runs into the Back Bay.

By noon, crews had fixed the station. Officials later surmised that the problem was escalated by a Southern California Edison power surge that disrupted the station's monitoring system.

"That's a significant issue to us," said Stephen Mayville, the Santa Ana region's chief of enforcement.

Prosecutors did note that 2,000 gallons of sewage were retrieved, but the vast majority, 77,000 gallons, made it into the bay. County health officials closed off portions of the area for about two days afterward.

Prosecutors and environmentalists contended that the August closure caused significant economic impacts on area businesses that were relying on the "dream weekend" Labor Day crowds using the bay.

"This was not a rainy Labor Day," said Colin Kelly, an attorney with Orange County Coastkeeper, which testified against the district. "This was a perfect Labor Day, except for the sewage."

The second incident, on New Year's Day 2015, was first reported at 11:45 a.m. Newport officials discovered sewage seeping out a manhole within the Fairway Villas apartment complex at 20122 Santa Ana Ave.

The city contacted C&R Drains — a contractor the district pays to handle after-hours sewage emergencies — though prosecutors say C&R failed to show up.

Responders managed to fix the sewage block by 2:49 p.m. County health officials closed off area beaches through Jan. 4.

Prosecutors blamed the sanitary district for failing to maintain the area's line, called Indus. They contended that Indus has been a known problem since 1999 and that the district failed to adequately address it by conducting maintenance measures only twice a year.

District officials responded that the Indus line has not had any sewage leaks in eight years.

"We did the best we could with [the twice-yearly] increased cleaning," said Robin Hamers, district engineer.

Scott Carroll, the district's general manager since 2010, noted that while businesses were likely affected by the spills, none of them have submitted damages claims.

Furthermore, the Back Bay, Carroll said, while certainly a "jewel of the region," is not "pristine" water meant for swimming. It contains many other pollutants, he said, such as traces of copper coming from the paint of boats.

He pointed to the district's comprehensive system of preventive maintenance and repairs, industry awards and said more than \$460,000 has since been pumped into the Irvine avenue station to make sure the spills don't happen from there again. Another \$351,000 has been budgeted to prevent future problems with the Indus line.

District officials also pointed to a \$700,000 emergency vault at the failed Irvine Avenue station that "worked exactly as intended" in August 2013 by storing about 13,000 gallons of sewage that otherwise would have gone into the bay.

Burns and Carroll also questioned the prosecution's credentials, particularly how they have never managed or designed a sewer system.

The Santa Ana region's water board, which will have ultimate say on the fine, did not reach a decision Friday.

Sanitary district officials said funding with the sewer budget is available to absorb whatever penalty is levied, and that the fine will not affect rates.



<http://paloaltoonline.com/news/print/2015/07/24/new-local-organization-capitalizes-on-recycled-water>

Uploaded: Fri, Jul 24, 2015, 8:58 am

New local organization capitalizes on recycled water

Alternative water use in drought-stricken state

by Jamauri Bowles

When the time comes for lawn watering, why use water fresh from the tap when the option of recycled water is available?

Recycled water, or reclaimed water, is wastewater that is treated through physical, chemical and biological processes. This type of water can be used on different landscaping, turf, gardens and crops. However, it is not potable.

For Palo Alto residents, the use of recycled water is brought to them by an environmentally minded organization called RainDance.

RainDance is a Palo Alto-based watering service that reclaims surplus treated water and uses it for residential landscape irrigation. The organization's goal is to allow environmentally conscious homeowners to water their gardens and lawns responsibly. In addition to Palo Alto, RainDance also can serve residents in Atherton, Los Altos, Menlo Park, Portola Valley and Woodside.

Chris Zaharias, a Palo Alto native, founded RainDance this past October. Katherine Glassey, a Palo Alto resident since 1986, became the CEO of the organization in the spring. At first, she was just a RainDance customer. As demands for the service started to pick up and Zaharias began to feel overwhelmed, Glassey stepped in to help him run the company.

Glassey enjoys gardening, which she described as "relaxing and fun." Zaharias also saw her interest in the subject.

"I have a really good self-taught, but pretty deep, understanding of what kinds of plants do well and what kinds of plants do not," Glassey said.

She said that the recycled water that RainDance makes available comes from the Regional Water Quality Control Plant, a water treatment facility in Palo Alto.

"They treat it really carefully so it's available for all other uses, other than drinking," Glassey said.

The plant removes unwanted organic materials and toxins from approximately 22 million gallons of wastewater a day. This water that is owned and operated by the City of Palo Alto is also for the communities of East Palo Alto Sanitary District, Los Altos, Los Altos Hills, Mountain View and Stanford University.

At the Water Quality Plant, RainDance staff fill their 1,000-gallon water delivery trucks with reclaimed water, and then drive to homes to deep-soak gardens with double-wide hoses. Standard residential service brings water once a week and takes about 30 minutes.

Linda DeMeo, also an avid gardener and Palo Alto resident, and her husband used RainDance's service to water their yard, which was a positive experience for them.

"We found the personnel to be more than helpful, and (they) did their job," DeMeo said.

She said that RainDance was very attentive to what she and her husband wanted in their yard to be sprayed and to what extent. She even enjoyed the opportunity to use a RainDance hose to water.

"They let me spray (the yard) myself, which was fun," DeMeo said.

DeMeo finds what RainDance does to be "very clever," and believes that she and her husband will most likely use the service again.

Zaharias said that they should use recycled water for their services, since no one else is really using it.

"It is the essence of what makes this business ... this enterprise feasible," he said.

Canopy is a Palo Alto organization that focuses on providing life-giving benefits of trees to schools, neighborhoods and public spaces on the Midpeninsula. Like RainDance, Canopy is also concerned with cultivating a healthy environment.

Catherine Martineau, executive director of Canopy, said that as an organization, Canopy sees the value recycled water can have. However, she pointed out one concern with it: salinity. This type of water, especially at the Water Quality Plant, contains a high salt content.

"Plants cannot eliminate salt," she said.

This use of recycled water is coming at a time when the state of California is faced with not only a drought, but also restrictions in water use. Back in April, California Gov. Jerry Brown issued an executive order for a mandatory statewide water-use reduction. More than 400 urban water supply agencies in the state are expected to reduce water consumption by 25 percent.

In Palo Alto, citywide water use must be reduced by 24 percent from the period of June 1, 2015, to Feb. 28, 2016. The water usage must also be reported to California's State Water Resources Control Board on a monthly basis. In addition, landscape irrigation was limited to no more than two days a week for residents and businesses.

According to the United States Drought Monitor, nearly all of California is facing intense drought. As of July 14, 1.15 percent of California was listed as facing an abnormally dry drought, 4.12 percent was in a moderate drought, 23.51 percent was in a severe drought, 25.08 percent was in an extreme drought, and 46 percent was in an exceptional drought. Only 0.14 percent was not listed as facing any drought.

Zaharias is concerned that California could be entering a mega-drought: one that could last for the next 10 to 50 years.

"Water is something that we need to live," Zaharias said.

Glasse said, whether or not there is a drought, the use of reclaimed water is still valuable.

"It's the right thing to do any year," she said.

With the drought and imposed water limitations, residents are expected to exercise more control over their water use.

"We have to be smarter (with) the water that we do have," Glassey said.

Martineau also said that it is important to conserve all types of water, whether they are for lawns or trees, and she does not want people to use those water sources thoughtlessly.

While Martineau is cautious about the quality of reclaimed water, she recognizes any good intention behind an attempt to help the environment.

"The use of alternative sources of water is important, and Canopy is very supportive of using alternative sources of water," Martineau said.

Glassey and Zaharias express awareness for what water is best for the environment, and Glassey said that RainDance wants to be "part of the solution."

"Every drop makes a difference," Glassey said.

Reclaimed water for trees

JULY 24, 2015 6:33 PM • BILL PRAMUK

Last time I discussed irrigation with gray water from the clothes washer. In short, with respect to health effects on trees and plants, it is all about the soap. Concerning state regulations, clothes washer rinse water should not be sprayed in the air, must soak into the soil on site, and must not include soiled diaper wash water. Those are a few of the rules for systems that can be set up with out a permit.

Now let us consider reclaimed water, also known as recycled water. This is municipal wastewater, sometimes referred to as black water, which is treated and disinfected. It is not the same thing as gray water. As the lines are being laid out on Fourth Avenue in Coombsville and other areas of Napa, potential users should be aware of some basics regarding its use.

According to the Napa Sanitation District website <http://www.napasan.com/Pages/ContentMenu.aspx?id=109> recycled water is non-potable, but meets the highest quality standard "Unrestricted Use." It is "safe and suitable" for uses such as landscape and food crop irrigation, and some industrial processes.

At the recent International Society of Arboriculture seminar, "Trees and Drought: Using Water Wisely," Arborist Nelda Matheny spoke on "Irrigating Trees with Recycled Water."

I was fortunate to be sitting next to her through the other talks and asked her about Napa's recycled water in comparison to Coombsville well water with its notorious boron levels. She responded that Napa recycled water is probably of better quality than high boron well water for irrigation.

But that does not mean all plants will be free of damage when irrigated with recycled water.

In her talk, Matheny explained that there are four categories of recycled water, based on sample collection and analysis. In the 17 water treatment plants around the Bay Area, recycled water quality varies greatly and it is largely dependent on the quality of the fresh water that services the city.

— Category 1: Good water quality with no restrictions on site use. Santa Rosa recycled water fits this category.

— Category 2: Moderate water quality that is appropriate for nearly all landscapes, except those with plants that are sensitive to salt or boron and soils drain poorly.

— Category 3: Fair water quality that can be used where plants have at least moderate salt or boron tolerance and soils are at least moderately drained. Landscapes on poorly

drained sites must be composed of plants with good salt tolerance or boron tolerance. Matheny said Napa recycled water is in this category.

— Category 4: Poor water quality that is appropriate only for sites having plants tolerant of salt or boron and soils with good drainage, and drought-tolerant landscapes that will be irrigated only a few times per year.

I looked at Napa's May 2015 water quality report at the link mentioned above and compared it to Matheny's "Interpretive guidelines for soil analyses for landscapes in San Francisco Bay Area." I saw what seems to be good news for Napa users. Although not all measurements are given, boron and sodium were in the "Low" range in the most recent report.

With that in mind, users need to be aware that other factors influence the effects on trees and other plants.

Inherent salt tolerance varies greatly with species. While turf grasses and coast live oaks are relatively tolerant of salts and boron, coast redwoods are not.

Site conditions, including soil type, drainage and evapo-transpiration conditions like heat and wind, strongly influence effects of water quality on the plants.

Irrigation methods and scheduling are important as well. Sensitive plants may be damaged when irrigation spray wets the foliage. Salts become more concentrated as the soil dries, so irrigation may need to be increased to compensate for sodium, chloride and boron concentrations in recycled water.

Matheny anticipates that in 10 years in California, "We are not going to have anything but recycled water to use in landscapes."

It is time to get ready.

SFGATE <http://www.sfgate.com/bayarea/article/Bay-Area-water-agencies-start-strong-hit-6405595.php>

Bay Area water agencies start strong, hit conservation targets

By Kurtis Alexander Updated 3:59 pm, Saturday, July 25, 2015

Whether driven by threats or an abiding virtue, Bay Area residents are showing a knack for saving water, meeting and even exceeding new state conservation targets that carry big fines for communities that fall short.

The region's widespread reductions in water use in June, which were as high as 40 percent in the Contra Costa Water District when compared to the same month in 2013, marked a vast improvement over previous months for most of the area's big water suppliers.

Water experts say indifference toward the drought has evolved into a deep understanding of the problem, prompting most homes and businesses to cut back.

California has seen four consecutive dry years, and many of the reservoirs and aquifers that provide drinking water to the Bay Area are at near-record lows.

"I think it's really sunk in," said Lester Snow, executive director of the California Water Foundation, a Sacramento group that strives to improve statewide water management. "I'm seeing neighborhoods that for a long time were green and watering their lawns change. Lawns have started to go brown, and people are paying attention to their water use."

According to water data reported by local suppliers, the city of San Francisco saw its consumption drop 19.5 percent in June over the same month in 2013 — the year used as a baseline by the state to track conservation.

The East Bay Municipal Utility District, meanwhile, which serves much of Alameda and Contra Costa counties, recorded a 31 percent decline. The San Jose Water Company, serving much of the South Bay, saw a 35 percent drop.

The water providers, responding to worsening drought conditions, have boosted public outreach about the need to save in recent months. Some have even started to cap household

water use and levy fines on guzzlers, including the San Jose Water Company, which now requires customers to use just 70 percent of the water they used in 2013.

The push for water savings has intensified since Gov. Jerry Brown ordered the agencies, starting in June, to meet specific conservation goals.

California's 400 largest urban suppliers are required to decrease their monthly water use between 8 and 36 percent over 2013 levels, with the depth of the cut based on how much they saved in the past. Those that don't hit the new goals face penalties of \$500 for each day of noncompliance as well as a cease-and-desist order that carries \$10,000-a-day penalties for violations.

While many water agencies volunteered their level of savings in June to The Chronicle, a full state report on each supplier's progress is expected this week.

All of the Bay Area's big suppliers, according to their data, met their marks.

"I'd like to think that all the strategies and messaging out there has been resonating with people," said Tyrone Jue, a spokesman for the San Francisco Public Utilities Commission, which provides water to the city. "You have to be living under a rock not to know how bad of a drought we're in right now."

The weather last month, which can have a big effect on how much water people use, was similar to June of 2013, the month used as a baseline for the reductions, according to the National Weather Service.

Officials with the State Water Resources Control Board, which is in charge of enforcing the governor's conservation mandates, said last week they haven't decided how hard to come down on laggards. They've stated in the past that there may be an initial grace period.

However, the board this month showed its willingness to crack down on heavy water use, slapping a first-of-its-kind penalty on an agricultural water agency accused of violating irrigation restrictions. The Byron Bethany Irrigation District in Tracy faces a \$1.5 million fine.

The boost in water savings by Bay Area suppliers in June comes after a mediocre performance during much of the previous year. While the region fared better than most parts of the state, averaging a 14.7 percent reduction compared with 2013, that’s short of the governor’s initial call for 20 percent cuts.

In May, a month after the governor announced that strict water rationing was in the pipeline, Bay Area savings jumped to 31.9 percent.

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June water conservation

The Bay Area’s largest water suppliers saw big reductions in water use in June, the first month that agencies were required to meet state conservation targets — or face penalties. The targets are based on an agency’s historical water use.

*June of 2013 is the baseline year for reductions	District	% reduced	Target
	Alameda County Water District	36%	16%
	Contra Costa Water District	40%	28%
	East Bay Municipal Utility District	31%	16%
	Marin Municipal Water District	26%	20%
	San Jose Water Company	35%	20%
	SFPUC (City of San Francisco)	19.5%	8%

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EBMUD board rejects offering rebates to switch from grass to turf

Updated: 07/28/2015 03:47:25 PM PDT

ContraCostaTimes.com

OAKLAND -- East Bay residents won't be getting rebates from the area's biggest water district to replace their live lawns with fake grass despite the potential to save water in a drought.

Citing environmental concerns, the East Bay Municipal Utility District board Tuesday rejected a proposal to offer homeowners rebates of up to \$1,250 to switch from live to artificial grass.

Board members noted concerns of environmentalists that the push for synthetic grass would produce more waste at landfills, reduce habitat for bugs and birds, kill valuable microbes in soil, heat surface temperatures, and reduce water percolation into the earth.

In its so-called cash for grass program, the district already provides rebates of 50 cents per square foot to homeowners who replace grass with drought-tolerant plants such as salvia, rockroses, meadow grasses and rosemary.

Water district staffers had proposed expanding the rebate program on a trial basis to turf as well, but the board rejected it 7-0.

The artificial turf industry argues its product saves water and money, along with time spent on mowing and trimming. It typically costs \$12 or more per square foot to buy and install synthetic turf, district officials said.

EBMUD Director Marguerite Young of Oakland said she doubted a rebate would have motivated customers to switch to synthetic turf because there already is a strong demand for the product.

Marin County Takes Major Step Toward Safe Disposal of Drugs

Marin poised to join 4 Bay Area counties in instituting a ‘take-back’ ordinance

By Deanne Goodman (Patch Staff) July 28, 2015

The Marin County Board of Supervisors voted July 28 to approve the first reading of an ordinance that requires pharmaceutical companies to manage and fund a comprehensive countywide program to collect and dispose of unwanted, unused and expired over-the-counter and prescription drugs.

A merit hearing for the ordinance, co-authored by the Marin County Department of Health and Human Services (HHS) and the Marin Community Development Agency’s Environmental Health Services (EHS) division, is scheduled for 10:30 a.m. August 11 in the Marin County Civic Center Board Chamber in San Rafael.

If finalized, the ordinance would go into effect on September 11, 2015, and Marin would join the ranks of Alameda, San Francisco, San Mateo, and Santa Clara counties, all of which have similar ordinances in place to address the growing issue of prescription drug abuse, misuse, and disposal. Nationally, overdose-related deaths from pharmaceutical drugs have surpassed the combined number of deaths attributed to heroin and cocaine overdoses.

“We’re learning that the same medicines we use to improve our health are also causing real harm in this epidemic of misuse,” said Dr. Matt Willis, Marin County’s Public Health Officer. “Too often, our medicine cabinets are the source of drugs that end up being abused. As we raise awareness of this problem, people are asking for safe and convenient ways to dispose of leftover medications. This ordinance provides that.”

In addition to posing serious potential health risks, unwanted pharmaceutical drugs that are not properly discarded can also be an environmental hazard. Toxins in medications flushed down drains or toilets are not removed in sewage treatment plants and can pollute local water supplies and endanger wildlife when released into the San Francisco Bay or local streams. Additionally, drugs thrown into the trash and end up in landfills can contaminate ground water in addition to posing a serious risk to children and pets that find them before the garbage is picked up.

Without options for safe disposal, the alternative to flushing or dumping unwanted pharmaceutical drugs – keeping them at home – can sometimes pose an even greater threat to residents. Nearly one in five Marin teens report having used prescription narcotics recreationally and 27 people in Marin County died from accidental drug overdose in 2013, the most recent year for which numbers have been calculated.

The County has concluded that the current 16 safe drug take-back locations are inadequate to serve the needs of the county’s 258,000 residents and recommends a minimum of 25 locations. Recent studies have revealed that nearly half of the U.S. population takes at least one prescription drug, and 40 percent of adults age 65 and older take five or more. It is expected that the use of prescription drugs in the county will increase in step with Marin’s median age, and Willis said the problem is “the biggest addiction crisis Marin has ever faced.”

The ordinance will require pharmaceutical companies whose drugs are sold in Marin County to submit a stewardship plan within one year that would describe how they would operate a safe disposal program to collect and destroy unwanted drugs and medications. In addition, companies would be required to provide outreach and education to the community on the safe drug disposal. The County will provide assistance and approval to plans, and companies would be fully responsible for any associated administrative costs to the County in addition to fully covering the costs of implementing their safe disposal plans.

The ordinance, which would apply countywide and also covers medications intended for animals, is part of a series of initiatives Marin HHS and EHS have pursued in curbing prescription drug use and abuse in Marin. Last winter they collaborated with RxSafe Marin, a coalition of community stakeholders, to produce the eight-page informational guide, *A Prescription for Change*. The guide was created as an education tool and community resource on the dangers of prescription drug abuse.

“Having a network of safe and convenient drop-off locations will be a key component to making the community safer in years to come,” said Rebecca Ng, who leads the EHS division.

The Argus

California's drought Fake turf rebates scrapped by board

EBMUD plan rejected over environmental issues

By Denis Cuff *Wednesday, July 29, 2015*

dcuff@bayareanewsgroup.com

OAKLAND — Saying it might cause more harm than good, East Bay water officials Tuesday rejected the idea of giving homeowners a break for ripping up live grass and replacing it with plastic turf — drought or no drought.

Despite the potential to save water, the East Bay Municipal Utility District board unanimously opposed a proposal to give rebates of up to \$1,250 to switch from live to artificial grass.

Board members noted concerns of environmentalists that the push for synthetic grass would produce more waste at landfills, reduce habitat for bugs and birds, kill valuable microbes in soil, heat surface temperatures and reduce water percolation into the earth. But mostly they said they were moved by a letter from Liz Baker, of Castro Valley.

"I have spent 77 years observing the wonders of nature as a farm girl, then a teacher, parent and then grandparent," Baker wrote. "Now I walk through my lawnless native habitat garden and watch ladybird beetles devour aphids. ... I watch carpenter bees and honeybees pollinate my flowers."

She added that if she had installed plastic turf, "life for my grandchildren and me would not have been so amazing." In its so-called cash-forgrass program, the district already provides rebates of 50 cents per square foot to homeowners who replace grass with droughttolerant plants such as sage, rockroses, meadow grasses and rosemary.

Water district staffers had proposed expanding the rebate program on a trial basis to turf as well, but the board voted 7-0 against. "This is a bad idea," Castro Valley landscaper Peter Rosen said of the rebates. "You should nip it in the bud and not bring it back." The artificial turf industry argues its product saves water and money, along with time spent on mowing and trimming. It typically costs \$12 or more per square foot to buy and install synthetic turf, district officials said.

EBMUD Director Marguerite Young, of Oakland, said she doubted a rebate would have motivated customers to switch to synthetic turf because there already is a strong demand for the product, and the 50-cent rebate would cover only a small part of the cost of artificial turf.

Rebates for fake grass have divided California's water suppliers. The Contra Costa Water District and city of Santa Cruz are among agencies that offer the rebates for synthetic turf because customers want it to reduce water use and labor. But most Bay Area suppliers, including the Santa Clara Valley Water District, do not offer rebates,

saying the environmental headaches are not worth the water savings. The East Bay district supplies water to some 1.4 million people in Contra Costa and Alameda counties. According to a report from EBMUD staff, artificial turf playfields can reach temperatures of 160 degrees on hot summer days, 60 degrees higher than on grass. When artificial turf wears out after some 10 or 12 years, it typically is thrown away in a landfill, although there are some new applications to recycle it, EBMUD officials said.

Contact Denis Cuff at 925943-8267. Follow him at [Twitter.com/deniscuff](https://twitter.com/deniscuff).

You Don't Drink Treated Sewage? Gross!

5 Jul 29, 2015 1:46 PM EDT

By Justin Fox

At the end of a tour of Orange County, California's Groundwater Replenishment System - and they give lots of tours -- a visitor is shown three big sinks with water flowing into them. On the right is the brown brew known as the brine -- the small, salty remnant of water that the facility just can't clean. In the middle sink is slightly discolored water that's been through the first stage of the cleansing process, a passel of microfilters, after flowing in as treated sewage from the Orange County Sanitation District next door. And pouring into the sink on the left is clear water at the end of its journey through the reverse osmosis units, arrays of ultraviolet lights and chemical reactions that extract or destroy salts, bacteria, viruses, endocrine-disrupting pharmaceutical residues and a multitude of other contaminants.

At this point on Monday my tour guide, Mike Wehner, assistant general manager of the Orange County Water District, grabbed a plastic cup and filled it from the left spigot. He took a swig, then handed me a cup. I filled it, and drank from it. The logo on the cup said, "Tastes like water ... because it is water!" This was true. Not the tastiest water in the world -- the cleaning process removes most of the minerals that give water character -- but not bad at all.

This clear liquid doesn't go straight to Orange County's taps. About a third of the 100 million gallons produced every day by the \$623 million treatment facility, which was built in 2008 and expanded this year, gets pumped into the ground not far away, about five miles from the coast, to keep Pacific Ocean salt water from seeping into the aquifers under the county. The rest is piped inland to the water district's groundwater-recharge basins, not all that far from Disneyland. Later, after local rocks have added some mineral flavor, it will be pumped back out of the ground from wells around the county and delivered to sinks and showers and garden hoses.

Get past all the pumping and repumping and that euphemistic Groundwater Replenishment System name, and it is undeniable that the people of Orange County (or at least the two-thirds of the county served by the Orange County Water District) are drinking treated sewage. Lots of it. The Groundwater Replenishment System, which just added about 30 million gallons a day in capacity, now produces enough to account for 23 percent of the area's water needs in a normal year; the percentage will be even higher this year because of the drought.

This is, let's be clear, pretty dangd awesome. If every water system in California were recycling water like this, in fact, the state's urban water users might barely be facing shortages at all during the current drought.

Along with conservation, reclaimed water is the state's great untapped, or at least undertapped, hydraulic resource. Actor William Shatner wants to pipe in water from Seattle, which isn't going to happen. Central Valley farmers want to roll back decades of environmental regulations that restrict their access to water, which is somewhat more realistic -- the U.S. House of Representatives passed a bill to that effect a couple of weeks ago -- but still pretty unlikely. Some urbanites want to pay farmers to stop growing alfalfa, which is already happening to some extent but faces a lot of barriers.

Meanwhile, about 700,000 acre-feet of municipal wastewater is recycled and reused in California each year, mostly for irrigation (of farms but also golf courses, playing fields and the like). Orange County now accounts for 103,000 acre-feet of it. Last year, the Pacific Institute estimated that there's potential for another 1.2 million to 1.8 million acre-feet a year of water reuse statewide on top of that. That higher figure amounts to about 20 percent of normal urban water use in the state. In April, California Governor Jerry Brown ordered the state's urban water users to cut consumption by 25 percent. So ...pretty close.

Yet no other water utility in California -- or in the world, as best I can tell -- is recycling water for residential use at anything like the scale of Orange County. Attempts to set up similar systems in Los Angeles and San Diego have so far foundered in the face of public and political discomfort with drinking wastewater. Yet somehow in Orange County, that Southern California land of surf, sand, amusement parks, teen dramas, billionaire fixed-income investors and conservative/libertarian politics, it's all cool.

Why is that? It's largely necessity. With 3.1 million residents, Orange County is the sixth-most populous county in the nation and the third-most populous in the state. But it didn't get really big until the 1970s and 1980s, after California's older coastal cities had already grabbed rights to most of the surface water. And so while municipal providers in the county get some water from the Colorado and Sacramento Rivers via the Metropolitan Water District of Southern California, they're mostly stuck with what the Orange County Water District -- a wholesale supplier of groundwater -- can pump out of the ground.

That groundwater has long been replenished with imported water, storm drainage and the water that flows into the county down the Santa Ana River, Southern California's biggest. In recent decades, much of the river flow during dry weather has come from treated sewage from upstream communities (Riverside, San Bernardino). Storm runoff in a heavily populated area such as Orange County isn't exactly pristine, either.

In the 1950s and 1960s, overpumping started to suck salt water from the Pacific into the county's aquifers. The OCWD addressed this first by injecting imported river water into

the ground a few miles inland. Starting in 1971, it began experimenting with using wastewater straight from the sewage treatment plant for this purpose as well. It scaled up that operation later in the decade after the construction of what it called Water Factory 21, a filtering system that was the much smaller precursor to today's Groundwater Replenishment System. The federal government built a desalination facility about the same time that also was used to recharge the county's groundwater, but as energy prices rose that became an expensive boondoggle and was scrapped. It takes a lot less power to clean wastewater, it turns out, than to take the salt out of seawater.

The treated water from Water Factory 21 that was pumped into the ground to form a "hydraulic dike" (Wehner's words) against the sea didn't all stay there; most of it flowed inland and ended up as part of the county water supply. As already mentioned, most of the water that percolates into the ground from the Santa Ana River and from rainstorms starts out of dubious quality as well. So Orange Countians were already drinking formerly dirty water long before the Groundwater Replenishment System started treating water in 2008. The water from the system is actually much cleaner than any of the other water (including imported river water) used to recharge the county's aquifers.

Still, the new facility greatly expanded the use of recycled water in Orange County and the water district treated it as a sensitive endeavor requiring lots of public education. Officials met with 1,200 different groups and individuals in the lead-up; they continue to host about 4,000 people on tours every year. These efforts have worked -- there has been no organized opposition. And why should there be? For Orange County, this is now the cleanest, most reliable, most environment-friendly water source available. Eventually it will probably seem offensive not to reuse wastewater in this way -- not just in California but all over the country and the world. What? You *don't* drink treated sewage? Gross!

This column does not necessarily reflect the opinion of the editorial board or Bloomberg LP and its owners.

1. This gets discharged into the ocean. It would have gone there in any case, just diluted by a lot more water.
2. That's \$481 to build the initial facility and \$142 million to expand it.
3. I got that by taking a 670,000-acre-feet-per-year state estimate from 2012 that was cited by the Pacific Institute and adding in Orange County's recent 31,000-acre-foot expansion.
4. Singapore has a water-recycling operation of similar size, but most of the water goes to industrial uses.

5. But they don't have a problem with it in Wichita Falls! This New York Times article has information on some of the other water-reuse projects, as well as more detail on Orange County's.
6. The main issue is that the high salt content of seawater is especially taxing for the reverse-osmosis filters that are the core of a modern water-cleaning process. But desalination technology is improving, and there is now another project in the works for Orange County.

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CALIFORNIA ASSOCIATION OF SANITATION AGENCIES
ENSURING CLEAN WATER FOR CALIFORNIA

For Immediate Release

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July 31, 2015

CASA Applauds Senators Feinstein and Boxer for Emergency Drought Relief Act

Sacramento – The California Association of Sanitation Agencies hailed the introduction yesterday of the California Emergency Drought Relief Act of 2015 by Senators Dianne Feinstein and Barbara Boxer.

The bill is designed to provide immediate and long-term solutions to California’s historic drought, and develops a framework for enhanced recycled water funding as well as other important provisions.

“CASA applauds Senator Feinstein’s leadership to bolster sustainable water supplies while helping protect and improve the environment,” said CASA President, David Williams.

Working with the Association of California Water Agencies and WaterReuse California, CASA was able to provide Senator Feinstein with the most recent information available on California’s recycled water projects and the significant potential for development of new water supplies in the state. That information was used to develop a list of more than 100 projects that could provide more than 850,000 acre-feet of water in coming years.

“CASA appreciates the opportunity to collaborate with the Senator on drought legislation that helps identify potential recycled water projects in the state,” noted Bobbi Larson, CASA’s Executive Director. “California’s wastewater agencies stand ready to provide reliable, sustainable water supplies to address drought conditions.”

The legislation also contains \$200 million for the Bureau of Reclamation’s water recycling and reuse program, and proposes a new funding mechanism known as the Reclamation Infrastructure Finance and Innovation Act, modeled on the Water Infrastructure Finance and Innovation Act.

“The bill represents a commendable effort to fund local, sustainable water supplies,” said President Williams. “CASA will provide additional review and feedback on a variety of the bill’s provisions, and we look forward to working with Senators Feinstein and Boxer as the legislation moves forward in the coming months.”

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The California Association of Sanitation Agencies is the statewide organization representing public agencies that provide wastewater collection, treatment and water recycling services to millions of Californians.

Country club golf course plans sewer plant as newer fix for grass water woes

Updated: 08/01/2015 06:16:45 PM PDT

InsideBayArea.com

DIABLO -- Responding to Mother Nature and bureaucrats ordering water cutbacks, a century-old private golf course at the base of Mount Diablo plans to become what is likely the first in California to build its own mini-sewage plant to keep its greens and fairways lush for years to come.

Operators of the 128-acre, 18-hole Diablo Country Club golf course plan to spend \$6 million to \$10 million to build an on-site, 6,000-square-foot sewage plant that could deliver up to 500,000 gallons of recycled water per day. The golf course this year is using an average of about 165,700 gallons per day.

"We want to control our own destiny and have a sustainable water supply," said Larry Marx, general manager of the country club, which is surrounded on three sides by million-dollar and multimillion dollar homes. "It's hard to see how any California golf course in 10 to 15 years will rely entirely on potable water."

The project will be paid for by the club's 436 members through their annual golfing dues, Marx said.

Effluent for the affluent -- it's the latest example of how the drought is changing water use in the state.

Water scarcities and rising prices have spurred about one-third of the state's golf courses to use recycled water -- highly refined sewer water -- but they typically get it delivered in public pipes from publicly owned sewage plants.

Unincorporated Diablo, east of Danville, however, is locked out of that plumbing loop because it is miles from any pipes that provide reclaimed water.

The country club plans to construct a sewage plant on the golf course and then pipe in untreated sewage from a mainline serving Diablo, Blackhawk and part of Danville. New pipes and renovated ponds would store and deliver the treated water to greens, fairways and tees.

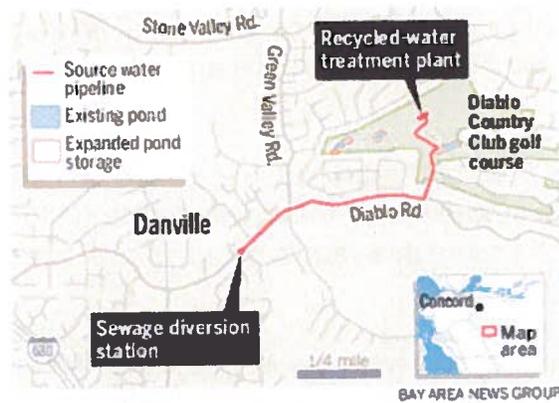
The project will save as much water a year as used by 1,000 average households in the East Bay Municipal Utility District.

Marx said he expects the project to pay for itself in perhaps 15 years by reducing purchases of fresh tap water. The payoff, he said, will be faster if Diablo Country Club can get low-interest state loans to finance the project.

Once online, the recycled water will largely insulate the golf course from drought shortages such as the current crisis. Golf courses and other large landscape customers in EBMUD's jurisdiction were ordered to slash water use 40 percent.

Carl Santa Maria, a country club golf course member, said he is leaning toward supporting the project.

"It's a lot of money," he said, "but we have a responsibility to this 100-year-old course to sustain it, and we need a reliable water supply to do that."



East Bay water and sewer agencies have signed memorandums of understanding to support and help plan the project.

"By reducing their use of potable water, the country club is leaving more for everyone else in EBMUD," said John Coleman, the East Bay water board member who represents the area. "It's a great project."

Linda Hu, an engineer with the Central Contra Costa Sanitary District, said she hopes the

project can serve as a model for others to increase water reliability. "This is breaking new ground for us," she said. "We hope to learn from it."

The Central Contra Costa Sanitary District must approve the project, and has not yet determined whether a full environmental impact report will be required. Contra Costa County is not requiring a land-use permit, according to the sanitary district. Course operators hope to start construction in 2016 and finish by April 2017, in time for the spring irrigation season.

Ironically, the plant is planned in a community that has the highest per-capita residential water use of any within EBMUD boundaries: 345 gallons per day per person, seven times more than low-water use communities such as San Lorenzo and Berkeley.

The project won't do anything to change those numbers, though, because golf course water use is not counted as residential use.

Diablo Country Club golf course operators started talking about the project in 2010. The drought and EBMUD's water cutbacks made it more urgent.

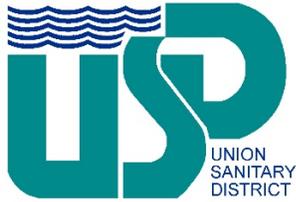
"We want to be good environmental citizens," Marx said, "and we want to have sustainable supplies."

He estimated the project will provide 70 percent of the water used by the golf course.

Marx said the sewage plant will be located as far away as possible from neighbors bordering the country club.

Some 96 percent of the effluent will become recycled water. The solids will be put back in a pipe and shipped to the sanitary district's sewage plant in Martinez for treatment.

Contact Denis Cuff at 925-943-8267. Follow him at [Twitter.com/deniscuff](https://twitter.com/deniscuff)



Rate Increase FY 2016

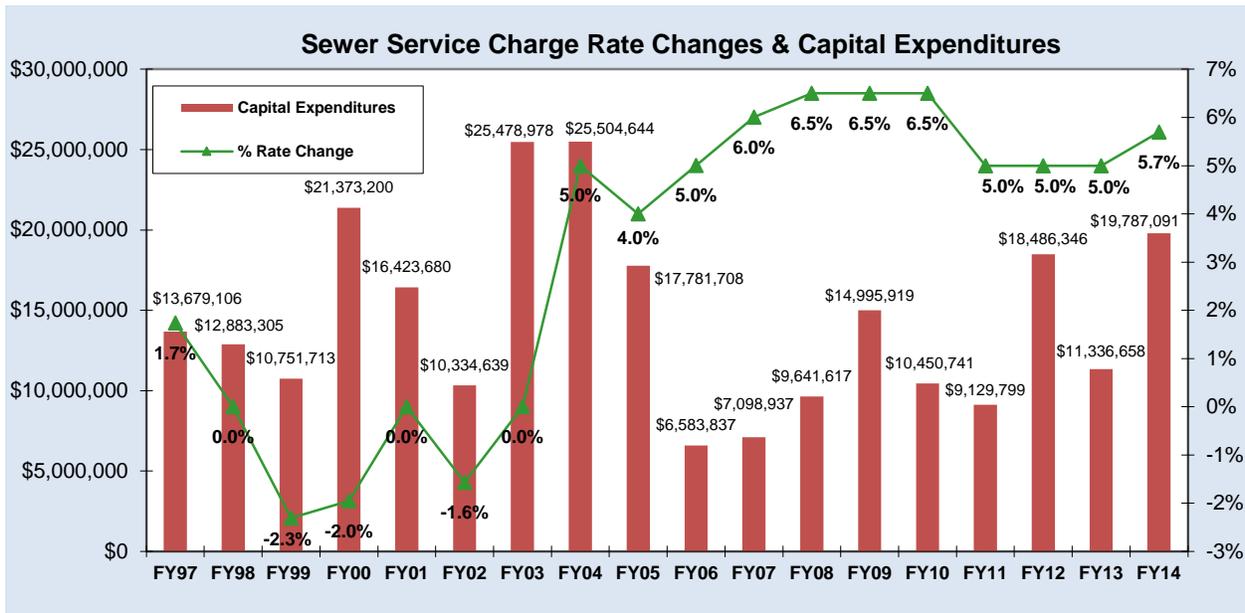
Union Sanitary District (USD) is an award winning public agency providing wastewater service to the Tri-Cities (Fremont, Newark and Union City). USD held a public hearing in July 2015 to consider the third and final rate increase recommended by a 2013 rate study. In 2013, USD sent a Proposition 218 notice to all property owners in Fremont, Newark, and Union City regarding rates for Fiscal Years 2014, 2015, and 2016. Before the July 2015 hearing, USD published notices in two newspapers and on its website containing information regarding time, place, and format for public comment.

The District recognizes that no one enjoys a rate increase and continuously looks for ways to reduce costs while maintaining a high level of service. Only four agencies of 26 surveyed in the Bay Area have rates lower than USD. To meet increased expenses, and to allow for necessary and required maintenance and upgrades to the District's infrastructure, USD staff recommended the Board adopt a modest increase in sewer service charges for all customers. For single-family homeowners (the majority of USD's customers) the increase equates to \$1.67 per month, bringing the annual total to \$377 for Fiscal Year 2016.

Background:

USD strives to keep rates low and stable

Beginning in 2004, USD implemented a rate increase program for the purpose of funding capital improvements and keeping pace with increasing operation costs facing the agency. Prior to 2004, USD had not increased rates since 1997, and in fact decreased them in 1999, 2000, and 2002. During that time, the District used reserves to finance the majority of its capital projects, which significantly decreased this account. A modest rate increase program was therefore implemented ~~in 2004~~ to carry out the Board's philosophy of keeping rates relatively stable over time and ~~insulate-protecting~~ ratepayers from large fluctuations ~~or-USD's goal is to keep sewer service charges as low as possible and protect customers from the~~ price spikes that can occur in a service delivery business. Under this program, USD's sewer service charges have increased an average of 5.5 percent each year since 2004. A graph illustrating the recent history of rates and capital expenditures is shown on the following page.



While the District plans 10 years in advance for capital projects and needs, these capital expenditures are evaluated on an annual basis. Capital expenditures for FY 2015 are anticipated to total \$15.3 million. Currently, capital expenditure projected totals for Fiscal Years 2016, 2017, and 2018 are \$16.75, \$23.25, and \$26.2 million respectively.

USD rates in perspective

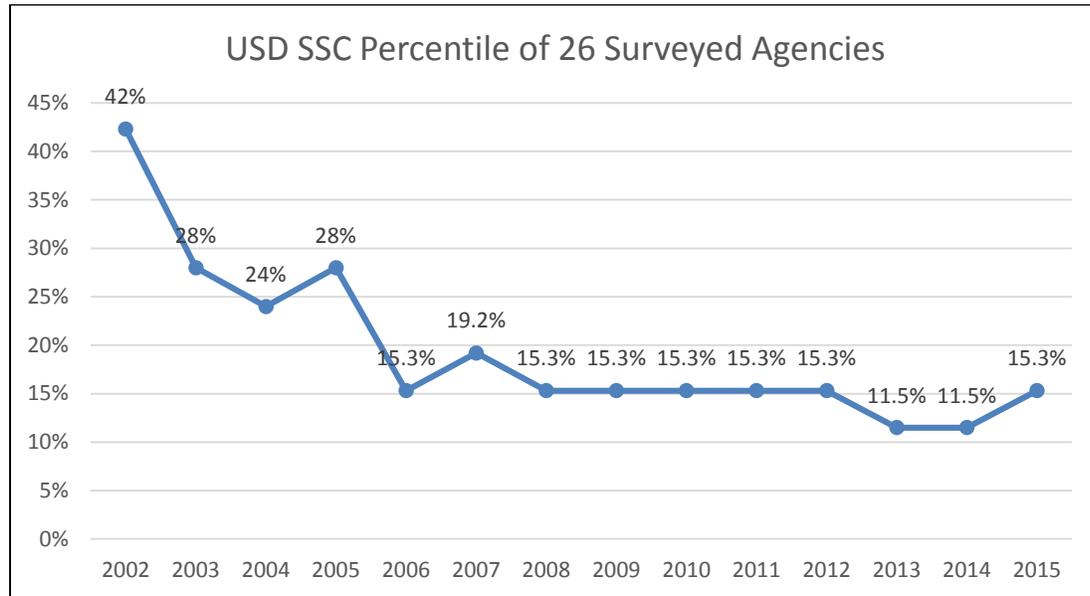
USD conducts an annual rate comparison survey of 26 Bay Area wastewater agencies. The District's goal is to remain in the lower 1/3 of agencies surveyed, meaning USD's rates would be lower than 2/3 of neighboring agencies. Today, only **four** districts have lower rates.

Bay Area Annual Sewer Service Charges 2014-2015



USD's rate comparison history

The graph below shows USD's rate percentiles since the District began surveying 26 Bay Area wastewater agencies annually in 2002. USD's rates are currently in the 15th percentile.



Compared to other utilities and services, USD's rates are the lowest.

A typical household in USD's service area pays considerably more for services like those below:



Sewer Rate shown is USD's FY 2015 single-family residential rate (July 1, 2014 - June 30, 2015)

Other monthly utility rates are based on a typical residential household and were obtained from service providers in August 2014. Cell phone monthly bill is based on a typical calling plan for a family of four.

USD's Capital Improvement Program is a large driver for increased rates:

USD maintains a large number of facilities and equipment, including more than 811 miles of sewer lines, seven pump stations, the treatment plant and other infrastructure – much of it built in the late 1970s. Responsible, timely upkeep of these facilities has allowed the District to avoid catastrophic failures, interruptions to service, major spills, and sinkholes that often plague other utilities and agencies.

Since 2004, the primary focus of the District's Capital Improvement Program has been on rehabilitation, replacement and repair of its pump stations and treatment plant equipment. For

Fiscal Years 2004 - 2014, USD spent more than \$151 million on capital projects. The plant operates 24/7/365 to process an average of 23 million gallons of untreated sewage every day, and operates and maintains more than 50 major treatment process units and buildings. A large portion of District facilities are now over 35 years old.

USD's Proposed Rate Increase Compared to Inflation

The Consumer Price Index, typically referred to as inflation, for the San Francisco Bay Area has averaged approximately 3% annually (between 1996 and 2014). The proposed rate increase does exceed inflation as it takes operational and capital increases into consideration, which are not the types of expenses included in CPI computations. Capital expenses, or the cost of projects required to maintain the integrity of the District's infrastructure, are based upon a prioritized need and life cycle of the infrastructure. Limiting rate increases to accommodate inflation only would result in a short-fall in funds necessary to safely and responsibly operate the District and maintain/rehabilitate infrastructure. The difference in revenues between 5.7% and 3% over the next four years would equate to approximately 14.5 million dollars in lost revenue.

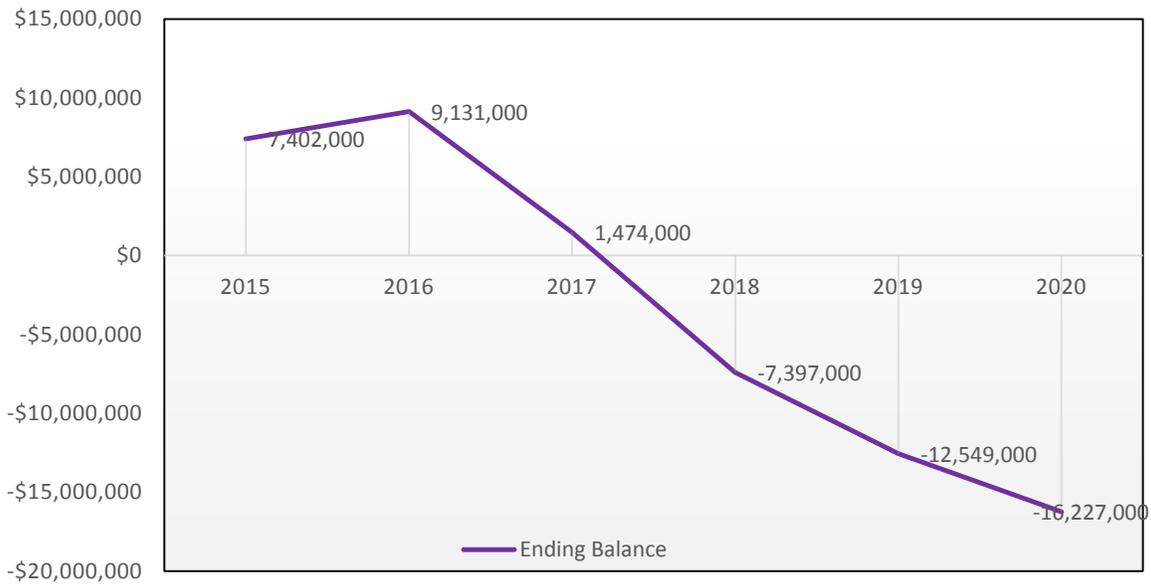
Without this revenue, District staff would have to be significantly reduced and/or capital projects would be postponed or not completed. All of the projects proposed in the District's CIP program are necessary; thus, delaying projects raises the likelihood of failure, increases project costs, and leads to possibly even larger future rate increases. Approximately 15 critical projects in the current CIP budget would need to be deferred to a later date if revenues were decreased.

Deferring and deleting planned CIP projects increases the risk of failure. Repair and replacement costs increase when infrastructure fails due to the emergency nature of this work. These additional costs include but are not limited to uncompetitive bids, clean-up, claims for damage, traffic delays, material and labor premiums and environmental impacts that can lead to permit violations and fines. A planned repair and replacement program is significantly more cost effective and efficient. The deferment of projects does not secure a reduced rate as these projects will need to be completed at some point.

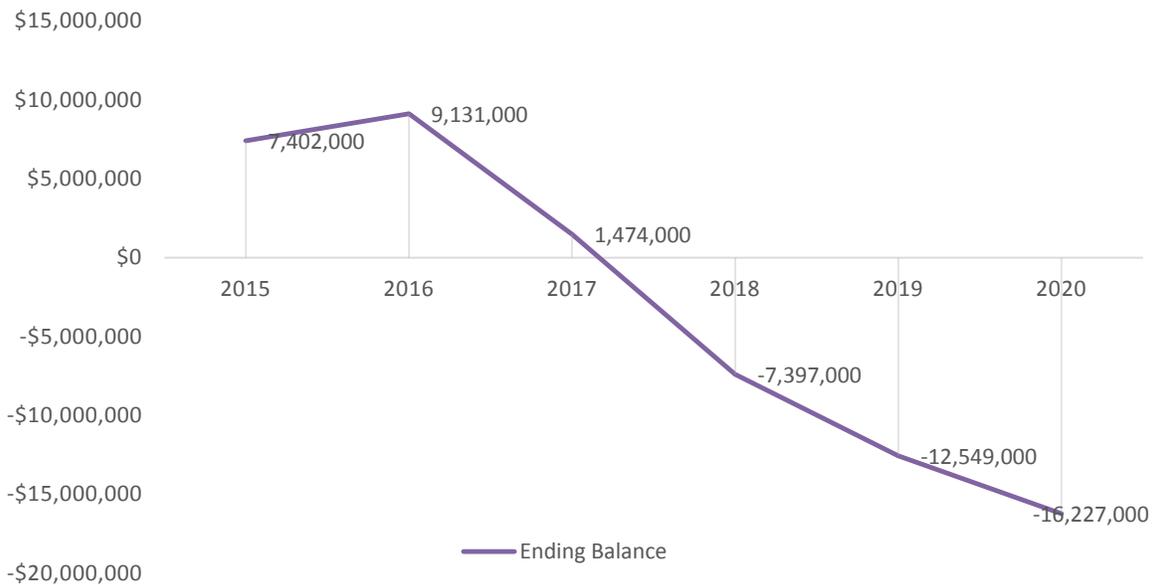
If the rate increase were reduced to 3%, utilizing the CIP budget currently recommended by staff, the Structural Renewal & Replacement Fund balances would be negative. Under this scenario negative fund balances would begin in FY 2018 and ~~would extend for~~ five consecutive years, with the largest negative balance of \$16.2 million in FY 2020. This would not only violate the District's adopted Reserve Fund Policy, but also significantly weaken its financial stability. In accordance with generally accepted government accounting standards, the District's policy states that, at a minimum, the fund should remain positive throughout a ten year planning period.

The graph on the following page shows the District's fund balances under a 3% increase scenario:

Renewal & Replacement Fund Balance – 3% increase scenario:
 (At 3% the monthly increase would be approximately \$10.71 vs. \$19.98 at 5.7%)



Fund Balance - 3% Rate Increase Scenario



Additional Costs

In addition to funding USD’s capital improvement program, rate increases have been implemented in part to address other rising costs. Approximately 42% of the District’s total budget is dedicated to personnel expenses, which is within range of other service providers in this industry. Every business has faced steeply rising employee costs; USD is no different. To help offset these rising costs, all USD employees pay a portion of their health care and pension

benefits. By March of 2016, employees of USD will be paying approximately 30% of the overall pension costs. In addition, USD is subject to pension reforms enacted by the State. These reforms reduce the retirement benefit and raise the retirement age for new USD employees that have not participated in the previous retirement program. Currently, approximately 10% of USD's workforce participate in the new program.

Chemicals, electricity, and fuel also account for a significant portion of the District's budget - those costs have similarly increased substantially over the last 10 years. Chemical costs alone were over \$1.8 million in FY 2014. USD's electricity bill in FY 2014 was over \$2.1 million. While USD uses renewable energy wherever possible and works toward energy-independence, the District must still purchase power from outside sources, generally at rising costs every year. Moreover, the cost of complying with state and local regulations, including annual permit fees, also continues to rise.

Efficiency/Technology

One of the many factors keeping USD's rates low is efficient service and use of technology. By implementing technology to streamline permitting, plant operations, maintenance management and engineering services, the District has been able to maintain conservative staffing levels, thus helping to control costs. USD also teams with neighboring agencies to purchase chemicals and equipment at discounted prices. Careful financial planning allows USD to finance capital improvements at very low, below-market rates.

Award Winning Service/Agency

USD is proud of its award winning service. Since 2004, nearly every team or workgroup at USD has received awards. A partial list of those awards includes:

- Peak Performance Platinum Award from the National Association of Clean Water Agencies (NACWA) for five years of 100% compliance at the District's Treatment Plant. USD's Plant has been recognized for 21 consecutive years by NACWA (and its predecessor, the Association of Metropolitan Sewerage Agencies or AMSA) for outstanding performance
- Engineering Achievement Award for 2014 from the California Water Environment Association (CWEA)
- CWEA Collection System Worker of the Year – 2013
- CWEA AI Ditman Professional Development Award - 2013
- CWEA Safety Program of the Year – Statewide Award 2010
- CWEA Treatment Plant of the Year for the State of California - 2009
- CWEA Collection System Maintenance Program of the Year - 2005, 2009, 2010, 2012
- US EPA Pretreatment Program of the Year (National Award) - 2008
- Distinguished Project Award, 2007 - American Public Works Association

- Training Magazine International Top 125 Training Programs (private and public sector businesses) – 2011 (USD was one of only 3 public sector agencies of the 125 companies)

For more information, please take a look at USD's previous newsletters which can be found on the District's website at www.unionsanitary.ca.gov . Go to the "links and glossary" tab and look for Customer Focus to read District newsletters.



Protecting the Tri-Cities and San Francisco Bay

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