



BOARD MEETING AGENDA
Monday, September 14, 2015
Regular Meeting - 7:00 P.M.

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR LATHI FROM THE GUEST PARKING AREA ON OCASO CAMINO, WEST OF THE INTERSECTION OF PASEO PADRE PARKWAY IN FREMONT, CALIFORNIA. THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC

1. Call to Order.

2. Pledge of Allegiance.

3. Roll Call.

Motion

4. Approve Minutes of the Meeting of August 24, 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. Consider Proposed Changes to the District Mission Statement.

Motion

8. Consider Drafting Response to Recently Received Emails and Provide Direction to Staff *(to be reviewed by the Legal/Community Affairs Committee)*.

Motion

9. Consider the Claim of Mr. Fred Ramos (Star Rooter) for Alleged Losses Related to an Assertedly Mismarked USD Sewer Line *(to be reviewed by the Legal/Community Affairs Committee)*.

- Motion 10. Consider and Provide Direction to Staff Regarding Disclosure Language Pertaining to Email Communications on Board of Directors Webpage *(to be reviewed by the Legal/Community Affairs Committee)*.
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- Motion 11. Designate and Appoint Two Board Members to Ad Hoc Subcommittee for Content Review of Proposition 218 Notification.
-
- Motion 12. Authorize the General Manager to Approve an Agreement with LookingPoint, Inc. for the Phone System Replacement *(to be reviewed by the Budget & Finance Committee)*.
-
- Information 13. Information Items:
a. Check Register.
-
- Information 14. Committee Meeting Reports. *(No Board action is taken at Committee meetings):*
a. Budget & Finance Committee – scheduled for Thursday, September 10, 2015, at 8:30 a.m.
b. Legal/Community Affairs Committee – scheduled for Friday, September 11, 2015, at 9:15 a.m.
c. Construction Committee – will not meet.
d. Personnel Committee – will not meet.
-
- Information 15. General Manager’s Report. *(Information on recent issues of interest to the Board)*.
-
16. 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.
-
17. Adjournment – The Board will adjourn to the next scheduled Regular Meeting will be in the Boardroom on Monday, September 28, 2015, at 7:00 p.m.
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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 SEPTEMBER 14, 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)

Budget & Finance Committee, Thursday, September 10, 2015, at 8:30 a.m.

12. Authorize the General Manager to Approve an Agreement with LookingPoint, Inc. for the Phone System Replacement.
-

Legal/Community Affairs Committee, Friday, September 11, 2015, at 9:15 a.m.

8. Consider Drafting Response to Recently Received Emails and Provide Direction to Staff.
 9. Consider the Claim of Mr. Fred Ramos (Star Rooter) for Alleged Losses Related to an Assertedly Mismarked USD Sewer Line.
 10. Consider and Provide Direction to Staff Regarding Disclosure Language Pertaining to Email Communications on Board of Directors Webpage.
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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
August 24, 2015**

**THIS MEETING WAS TELECONFERENCED WITH DIRECTOR LATHI FROM THE
GUEST PARKING AREA ON OCASO CAMINO, WEST OF THE INTERSECTION OF
PASEO PADRE PARKWAY IN FREMONT, CALIFORNIA.**

CALL TO ORDER

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

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Jennifer Toy, President
Tom Handley, Vice President
Pat Kite, Secretary
Manny Fernandez, Director
Anjali Lathi, Director (*via teleconference*)

STAFF: Paul Eldredge, General Manager
Karen Murphy, District Counsel
Rich Cortés, Business Services Manager
Armando Lopez, Treatment & Disposal Services Manager
Sami Ghossain, Technical Services Manager
James Schofield, Collection Services Manager
Robert Simonich, Fabrication, Maintenance, and Construction Manager
Kathy Destafney, Business Services Manager
Chris Pachmayer, Electrical/Support Team Manager
Sheila Tolbert, Human Resources Manager
Laurie Brenner, Organizational Performance Program Manager
Roslyn Fuller, Purchasing Agent
Todd Jacob, IT Administrator
Mike Marzano, Environmental Health and Safety Program Manager
Michelle Powell, Communications and Intergovernmental Relations Coordinator
Jamie Rojo, Accounting Technician
Maria Scott, Principal Financial Analyst
Kristina Silva, Administrative Specialist

GUEST: Alice Johnson, League of Women Voters

APPROVAL OF THE MINUTES OF THE MEETING OF AUGUST 10, 2015

It was moved by Secretary Kite, seconded by Vice President Handley, to Approve the Minutes of the Regular Meeting held August 10, 2015. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy (*via roll call*)
NOES: None
ABSENT: None
ABSTAIN: None

MONTHLY OPERATIONS REPORT

This item was reviewed by the Budget & Finance Committee.

- a. Monthly Odor Report & Financial Reports: General Manager Eldredge stated there was one odor reported during the month of July 2015, by a resident located on Bret Harte Court in Fremont. District staff inspected the USD mains and city storm drain inlets in the area, and no odor was detected. Staff followed up with the resident by providing information regarding how District lines are cleaned, and advised the individual to run water in their sinks to fill the P-Traps within their home.

Principal Financial Analyst Scott reported the following for the month of July:

- Revenues:
 - \$519,000 received in capacity fees for Washington Hospital Phase II
 - \$101,000 for new Ohlone College buildings
 - \$58,000 for Synergy Corporate Housing in Union City
 - \$329,000 received in State Revolving Fund proceeds for the Thickener project
- Expenses:
 - \$65,000 credit was received from ACWD for the washer rebate program
 - \$76,000 for actuators and pumpers purchased from the Plant & Pump Station Renewal & Replacement
 - \$411,000 payment made to the State Revolving Fund loan for the Boyce Pump Station

July 2015 investment activities for purchases, interest payments, and maturities were reviewed.

Internal fund activity and CalPERS Retiree Medical Trust Statements were reviewed.

- b. Annual Performance Report for District-wide Balanced Scorecard Measures: Operational Performance Program Manager Brenner stated the 2015 USD

Strategic Performance Report, included in the meeting packet, summarizes the District's progress meeting operational and safety objectives and targets for Fiscal Year 2014-15.

Operational Performance Program Manager Brenner highlighted several results, both positive and negative, included in the staff report.

- There were two incidents of critical asset failure with impacts. Both incidents were associated with rapid regrowth of roots in the sewer mains.
 - The District had two Category 1 sanitary sewer overflows. The first occurred on October 28, 2014, in Fremont on Palm Avenue. It was reported that 495 gallons had spilled; 445 gallons of the amount spilled were captured. The second overflow occurred on April 23, 2015, in Fremont on Mission Boulevard. It was reported that 3,911 had spilled; 300 gallons of the amount spilled were captured.
 - Operational expenditures were 93% of budget, missing the target of 95% by 2%.
 - District staff responded to 97.7% of all calls for service within one hour. The average response time was less than 42 minutes.
 - 94% of planned outreach activities were completed. California Association of Sanitation Agencies (CASA) presented the District with their Fiscal Year 15 Achievement Awards in the Outstanding Public Outreach and Education category at the CASA conference held in August 2015.
 - Employee turnover rate was 6.2%. 1.6% was due to resignations, the remaining amount was due to planned retirements.
 - Assessments of the training module program exceeded the annual target by 15%.
 - Three lost-time injuries occurred during Fiscal Year 2015
 - Three incidents of vehicle or equipment damage occurred.
 - 80% of employees were trained on mandatory safety subjects.
 - The Workers Compensation Experience Modifier (X-Mod) was decreased to 1.01 from 1.16.
 - 300 worksite inspections were performed by management.
- c. Business Services Balance Score Card Measurements and Results were displayed on poster boards at the back of the Boardroom. Those who were present reviewed the posters. The posters reflected the information included in the meeting packet.

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications at either meeting location.

APPROVE THE PUBLICLY AVAILABLE PAY SCHEDULE

This item was reviewed by the Personnel Committee. Business Services Manager Cortes stated the salary changes contained in the current pay schedule reflect the salary for the newly created Communications and Intergovernmental Communications Coordinator, adjustment to the Buyer I salary, and adjustments made to the Unclassified employee pay ranges as the result of the 2014 salary survey.

It was moved by Director Fernandez, seconded by Secretary Kite, to Approve the Publicly Available Pay Schedule Effective August 22, 2015. Motion carried by the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy (*via roll call*)
NOES: None
ABSENT: None
ABSTAIN: None

DISCUSS AND PROVIDE DIRECTION (AS NECESSARY) REGARDING PUBLIC OUTREACH, SCHEDULING, AND PROCEDURES FOR SEWER SERVICE RATES

This item was reviewed by the Legal/Community Affairs Committee. General Manager Eldredge stated that at a previous meeting Vice President Handley requested scheduling a discussion regarding public outreach for annual rate hearings, public outreach for Proposition 218 rate notification, and the District's procedure for responding to protest emails and customer communication.

It was agreed to have the District hold one town hall meeting for the Proposition 218 rate notification prior to the Public Hearing. The desired date for the Public Hearing is December 14, 2015. Concerns were expressed that the schedule of deadlines for preparation was too aggressive. A consensus was reached that an alternate date of January 25, 2016, could be used at Staff's discretion.

Information for fact sheets and notifications will be subject to legal review. The Board agreed an Ad Hoc Committee, consisting of two Board members, should review the content of the Proposition 218 notification mailer.

Board members agreed that it is important to acknowledge and respond in a timely manner to customer communications. Any protest emails and customer communications regarding sewer service rates will be incorporated into the public record and the author will be advised of the public hearing date.

The Board agreed to the following by consensus:

1. Public outreach for annual rate hearing procedures will not change as proposed by staff.
2. Public outreach for Proposition 218 rate notification will include a town hall meeting. The Union Sanitary District Boardroom may be used if an outside

location is not feasible. The town hall meeting is a one-time trial evaluation. A Public Hearing was tentatively scheduled for December 14, 2015. An alternate date of January 25, 2016, can be utilized if needed at staff's discretion. A two-member ad hoc committee will be created for the Proposition 218 rate notification information.

3. A standard response will be created for any protest email and customer communication regarding sewer service rates.

It was moved by Secretary Kite, seconded by Director Fernandez, to direct staff to proceed with the addition of a town hall meeting to occur prior to the Public Hearing to consider rates; to proceed to schedule the Public Hearing for Proposition 218 rate notification with a desired date of December 14, 2015 (or alternate date of January 25, 2016); to create a two-member ad hoc committee to review content of the Proposition 218 rate notification information; and to have staff create a standard response to reply to communications regarding sewer service rates. Motion carried by the following vote:

AYES:	Fernandez, Handley, Kite, Lathi, Toy (<i>via roll call</i>)
NOES:	None
ABSENT:	None
ABSTAIN:	None

AUTHORIZE THE GENERAL MANAGER TO EXECUTE AN AGREEMENT AND TASK ORDER NO. 1 WITH WEST YOST ASSOCIATES FOR THE DESIGN OF THE SLUDGE DEGRITTER SYSTEM PROJECT

Technical Services Manager Ghossain stated the Degritter Building was constructed in 1985, and used to house five belt filter presses to dewater biosolids prior to disposal. The District replaced the belt filter presses with centrifuges, and replaced the original grit removal equipment with two degritter units. The two existing sludge degritters receive sludge flow from primary clarifiers 1 through 6. Both degritters are required to operate concurrently in order to handle the sludge flow from the primary clarifiers. When one of the degritters is out of service, the other unit does not have the capacity to process all of the primary sludge flow. This results in additional sludge accumulation in the primary clarifiers and the lower sludge flow rate could affect the ability of the thickeners to efficiently settle the solids. Therefore, operation staff determined an additional degritter was needed. Staff also identified a need to install a new chemical tank and pump system to dose ferrous chloride into the degrittled sludge pipeline. The proposed project will construct a third degritter, install new sludge piping, instrumentation, grit conveyor, chemical tank, and chemical metering pumps.

Staff prepared a Request for Proposal for design services for the project and contacted five firms from the District's consultant short list. Design of the project is schedule to be completed in the summer of 2016, with construction to follow in fall of 2016. Staff recommended the Board authorize the General Manager to execute an Agreement and

Task Order No. 1 with West Yost Associates in the amount of \$180,629 for design of the Sludge Degritter System Project.

It was moved by Vice President Handley, seconded by Secretary Kite, to Authorize the General Manager to Execute an Agreement and Task Order No. 1 with West Yost Associates for the Design of the Sludge Degritter System Project. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy (*via roll call*)
NOES: None
ABSENT: None
ABSTAIN: None

DESIGNATE AND APPOINT TWO BOARD REPRESENTATIVES TO AD HOC SUBCOMMITTEE ON GENERAL MANAGER CONTRACT NEGOTIATIONS

District General Counsel Murphy stated that per the employment agreement between the District and Mr. Eldredge, the General Manager's salary should be reviewed annually. This agenda item requested two representatives be designated to an Ad Hoc Subcommittee.

It was moved by Director Fernandez, seconded by Vice President Handley, to appoint Secretary Kite and Vice President Handley to serve as representatives to the Ad Hoc Subcommittee on General Manager Contract Negotiations. Motion carried with the following vote:

AYES: Fernandez, Handley, Kite, Lathi, Toy (*via roll call*)
NOES: None
ABSENT: None
ABSTAIN: None

INFORMATION ITEMS:

Check Register

All questions were answered to the Board's satisfaction.

PG&E Net Metering Annual True-up for FY 15

This item was reviewed by the Budget & Finance Committee. Treatment & Disposal Services Manager Lopez stated the District's electrical service for the wastewater treatment plant was converted to a Net Energy Metering (NEM) tariff with the installation of the solar carport project in August 2011. The cost of electrical generation and related non-generation charges are billed at the end of a 12-month period, which is known as the "true-up" bill. A true-up bill in the amount of \$770,152.28 was received in August which includes previously unbilled charges accumulated between July 2014 and June 2015. The payment appears on the current check register. The total FY15 cost for electricity at the treatment plant was \$1,361,495.54.

National Association of Clean Water Agencies (NACWA) Peak Performance Award for Calendar Year 2014

Treatment & Disposal Services Manager Lopez stated the District received a Platinum Peak Performance Award from NACWA for the 2014 calendar year. NACWA Peak Performance Awards recognize member agency facilities for outstanding compliance with their National Pollutant Discharge Elimination System (NPDES) permit limits. The Platinum Award recognizes facilities that have achieved 100% compliance with their NPDES permits for five consecutive calendar years. The District has been recognized through the Peak Performance Award Program for the past 22 years and has been presented with 2 Silver Awards, 16 Gold Awards, and 4 Platinum Awards. The Peak Performance Award reflects the District's commitment to excellence in environmental protection.

The National Association of Clean Water Agencies (NACWA) Excellence in Management (EIM) Gold Award

Operational Performance Program Manager Brenner stated the District was selected to receive an Excellence in Management Gold recognition award from NACWA, based on our management practices, performance measures and results. In order to be eligible for this award, Peak Performance awards must have been previously achieved. This award is good for 3 years and enables the District to be eligible for other certifications.

Report from the East Bay Dischargers Authority (EBDA) Commission Meeting held August 13, 2015

Vice President Handley stated nutrient reduction was the main focus of the discussion at the meeting. The Managers Advisory Committee reviewed submitted proposals for the Hayward Effluent Pump Station and discussed the selection process. The Operations and Maintenance (O&M) Committee provided an update regarding EBDA performance.

COMMITTEE MEETING REPORTS:

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

GENERAL MANAGER'S REPORT:

General Manager Eldredge reported the following:

- Sheila Tolbert, newly hired Human Resources Manager was introduced.
- Chris Pachmayer, recently promoted Electrical/Support Team Manager was introduced. Mr. Pachmayer was previously an Associate Engineer in the Capital Improvements Projects team.
- The Co-digestion Pilot program experienced minor operational issues; these type of issues are typical with pilot programs. An increase in gas emission has been documented and the District will continue to document progress for several months evaluate this program.
- A bike rack will be installed in front of the District Administration Building.
- The District will host a vendor fair on October 15, 2015.

- The General Manager will be out of the office September 7 - 18, 2015.
- The District received an award at the California Association of Sanitation Agencies (CASA) conference in recognition of our open house. Many agencies at the conference reached out to USD staff to enquire about the specifics of the open house.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 8:54 p.m. to the Special Meeting to be held in the Boardroom on Thursday, August 27, 2015, at 11:30 a.m.

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

SUBMITTED:

ATTEST:

REGINA McEVOY
SECRETARY TO THE BOARD

PAT KITE
SECRETARY

APPROVED:

JENNIFER TOY
PRESIDENT

Adopted this 14th day of September, 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: September 14, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Laurie Brenner, Organizational Performance Program Manager

SUBJECT: Agenda Item No. 7 - Meeting of September 14, 2015
Consider Proposed Changes to the District Mission Statement

Recommendation

Review and edit proposed new language in the District Vision and Mission Statements as necessary. Seeking Board approval of proposed changes.

Background

The Executive Team reviews the District's Vision and Mission statements on an annual basis during strategic planning activities. Due to the changing nature of the water and wastewater industry, that team has proposed the addition of language reflecting the District's desire to increase recycling and beneficial resource reuse activities to minimize our impacts on the environment.

Both the original document and the DRAFT including proposed changes (in red font) are attached for your consideration.



MISSION STATEMENT

April 25, 2006

To safely and responsibly collect and treat wastewater for the Tri-cities while protecting human health and improving the environment in a way that benefits our customers, employees and the community.

How we accomplish our Mission:

We demonstrate our commitment to safety by:

- Having an effective safety program
- Protecting employees and the community
- Committing resources (equipment, training, staff)
- Planning to work safely
- Looking out for each other while we work

We demonstrate responsibility by:

- Being fiscally responsible
- Being accountable for our actions and decisions
- Anticipating and meeting future needs and demonstrating stewardship
- Maintaining compliance with laws and regulations
- Effectively managing our assets
- Continuously improving our processes

We collect and treat wastewater, including:

- Maintaining our infrastructure
- Providing capacity in the collection system and plant
- Regulating connections
- Disposing of treated wastewater and biosolids
- Effectively using technology
- Having effective pretreatment and pollution prevention programs
- Testing for compliance

We protect human health by:

- Preventing sewer spills and back-ups
- Reducing health risks through treatment of wastewater
- Responding to emergencies

We improve the environment by:

- Enhancing the San Francisco Bay and Hayward Marsh ecosystems
- Maintaining compliance with effluent and air quality regulations
- Promoting pollution prevention
- Recycling biosolids
- Co-generating electric power



MISSION STATEMENT

April 25, 2006

We benefit our customers by:

- Providing reliable service
- Being fiscally responsible and cost effective, and providing value
- Promptly responding to customers' needs
- Being professional and courteous
- Proactively and creatively meeting customer needs
- Supporting businesses through permitting, education and by providing capacity

We benefit our employees by:

- Providing competitive wages and benefits in a stable work environment
- Providing a safe work environment
- Demonstrating equality and fairness
- Valuing employee input, and offering opportunities for involvement and creativity
- Recognizing employee contributions
- Providing training and resources
- Communicating and sharing information openly and honestly
- Encouraging cooperation and collaboration

We benefit the community by:

- Protecting the environment and controlling odors
- Communicating with the public and educating them on wastewater issues
- Responding to emergencies and providing mutual aid
- Participating in community outreach activities and charity events
- Contributing to the wastewater treatment profession by participating in professional associations, partnering with other agencies and organizations, and sharing best practices
- Working cooperatively with cities and other government agencies



MISSION STATEMENT

June 2015 revision **DRAFT**

To safely and responsibly collect, treat and **recover/reuse** wastewater **generated by our customers**, while protecting human health and improving the environment in a way that benefits **all stakeholder groups**.

How we accomplish our Mission:

We demonstrate our commitment to safety by:

- Having an effective safety program
- Protecting employees and the community
- **Allocating adequate resources to ensure safe operations** (equipment, training, staff)
- Planning to work safely
- **Collaboratively promoting a safe work environment**

We demonstrate responsibility by:

- Being fiscally responsible
- Being accountable for our actions and decisions
- Anticipating and meeting future needs and demonstrating stewardship
- Maintaining compliance with laws and regulations
- Effectively managing our assets
- Continuously improving our processes
- **Looking for innovative ways to reduce or reuse our waste streams**

We collect, treat and **recover/reuse** wastewater, including:

- Maintaining our infrastructure
- Providing capacity in the collection system and plant
- Regulating connections
- Increasing our efforts for resource recovery (biogas, biosolids, etc.)
- Effectively using technology
- Having effective pretreatment and pollution prevention programs
- Testing for compliance
- **Maximizing water reclamation and reuse potential**
- **Working towards energy neutrality**

We protect human health by:

- Preventing sewer spills and back-ups
- Reducing health risks through treatment of wastewater
- Responding to emergencies



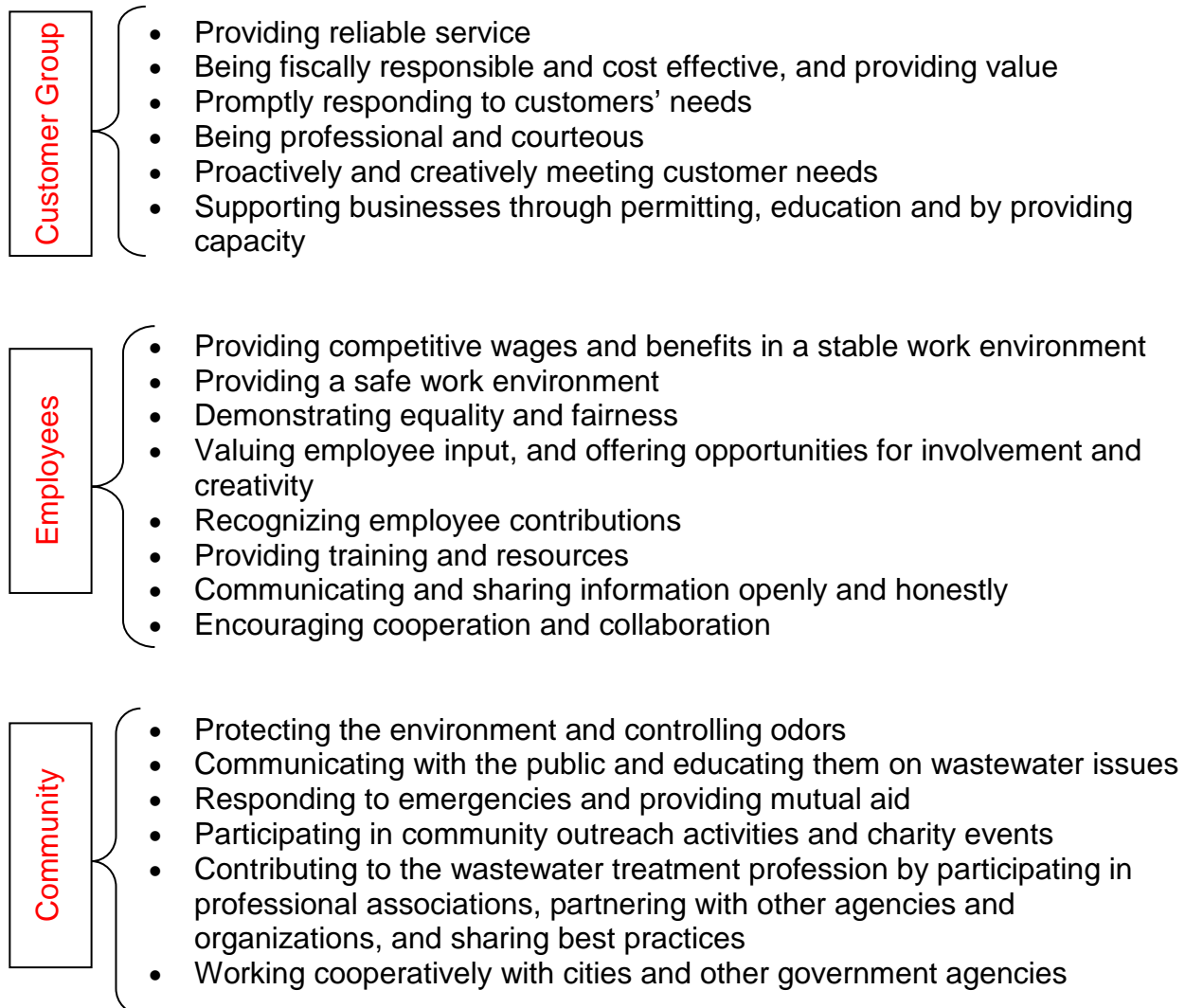
MISSION STATEMENT

June 2015 revision **DRAFT**

We improve the environment by:

- Improving water quality in the San Francisco Bay and estuary
- Maintaining compliance with effluent and air quality regulations
- Promoting pollution prevention through our outreach and educational programs
- Utilizing solar installations whenever feasible; maximizing our use of green energy sources

We benefit our stakeholder groups by:





Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: September 1, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Karen W. Murphy, General Counsel

SUBJECT: Agenda Item No. 8 - Meeting of September 14, 2015
Consider Drafting Response to Recently Received Emails and Provide Direction to Staff

Recommendation

Consider responding to recently received emails and provide direction to staff.

Background

Director Lathi requested this item be presented to the Board for consideration, and Vice President Handley seconded the request. The Board of Directors received the two attached emails requesting a response from the District.

Staff recommends the Board choose one of the following options:

1. Do not send a response to the attached emails.
2. Authorize staff to draft and send a response to the attached emails.
3. Authorize staff to work with the Board President to draft and send a response to the attached emails.

Attachments

Regina McEvoy

From: Paul Eldredge
Sent: Wednesday, September 02, 2015 3:11 PM
To: Karen Murphy
Cc: Regina McEvoy
Subject: FW: Ordinance NO.31.38

Email for agenda item #1

Paul R. Eldredge, P.E.
General Manager
Union Sanitary District
510-477-7502
paule@unionsanitary.ca.gov

-----Original Message-----

From: Timothy Swenson [REDACTED]
Sent: Thursday, July 09, 2015 8:32 PM
To: Board of Directors <BoardofDirectors@unionsanitary.ca.gov>; ContactUSD
<ContactUSD@unionsanitary.ca.gov>
Subject: Ordinance NO.31.38

In the July 9th edition of The Argus, Eric Tsai wrote an opinion piece entitled "Public input needed over sanitary district's rate hikes."
Eric makes some interesting points, esp. the one about so few people attending USD public board meetings.

So, I downloaded the packet for the next board meeting and gave it a read. I was intrigued this one sentence on page 27 of the package:

"A majority of the property owners have not protested the rate increase in accordance with Proposition 218 requirements."

I'm unfamiliar with Prop 28, so I found the text of the proposition and reviewed it. The section that I believe that statement from page 27 is referring to is as follows:

"(e)The agency shall not impose an assessment if there is a majority protest. A majority protest exists if, upon the conclusion of the hearing, ballots submitted in opposition to the assessment exceed the ballots submitted in favor of the assessment."

This was from Section 4 of the proposition. Further down I found this section:

"(a) Any assessment imposed exclusively to finance the capital costs or maintenance and operation expenses for sidewalks, streets, sewers, water, flood control, drainage systems or vector control. Subsequent increases in such assessments shall be subject to the procedures and approval process set forth in Section 4."

It clearly states that USD is required to follow the procedure in Section 4. Given the statement on Page 27, it appears that USD also feels that it must follow Section 4. Section 4 states:

"(c) The amount of the proposed assessment for each identified parcel shall be calculated and the record owner of each parcel shall be given written notice by mail of the proposed assessment,"

The problem I see is that Section 4 requires USD to sent out a mailer to all property owners that are affected by the rate increase (hence the term "ballot" in section (e). I have not seen any mailing from USD with a ballot for me to vote on the increase.

Hopefully it can be explained how item (e) from Section 4 can be applied without applying section (c).

Timothy Swenson

[REDACTED]

Union City, CA 94587

[REDACTED]

Regina McEvoy

From: Paul Eldredge
Sent: Wednesday, September 02, 2015 3:11 PM
To: Karen Murphy
Cc: Regina McEvoy
Subject: FW: Comments on Sewer Service Charge Staff Report

Email for agenda item #2

Paul R. Eldredge, P.E.
General Manager
Union Sanitary District
510-477-7502
paule@unionsanitary.ca.gov



From: Eric Tsai [REDACTED]
Sent: Tuesday, July 14, 2015 11:29 AM
To: Board of Directors <BoardofDirectors@unionsanitary.ca.gov>
Subject: Comments on Sewer Service Charge Staff Report

Directors,

The Board packet for the July 13 Board meeting contained a staff report for the proposed sewer service charge increase.

The staff report notes that the District received several emails that contained "inaccurate and confusing" information. Most of the people who emailed the District received information from me so I would like to address the "inaccurate and confusing" information.

Public: In the last 10 years (2006 – 2015) USD has raised the sewer service charge by 74%.

District: The total percentage of rate increase over this period of time adds up to 56.9%.

My response: The District's figure of 56.9% is calculated by adding up each year's rate increase. Adding up each year's rate increase is a very odd method to inform the public how much rates have increased over a period of time. In 2005, the sewer service charge was \$205.30. In 2015, the sewer service charge was \$357.02. This is a 73.9% increase in 10 years and not a 56.9% increase in 10 years.

It is very surprising the District would state the figure of 56.9% as no one in finance, accounting, or people with common sense would use that figure to assess how much rates have increased over the last 10 years.

Public: During the same time period, employee compensation increased 65%.

District: During this period of time, employee's salaries increased by 45.5% while employee total compensation (salary, health benefits, pension etc.) increased by 54.6%.

My response: I do not know how the District arrived at 54.6% but this is how I arrived at 65%:

On page 28 of the fiscal year 2005 CAFR, I added "Salaries and wages," "Employee benefits," and "Temp help" for 2004. This figure is \$12.8 million. On page 37 of the fiscal year 2014 CAFR, the same line items for 2014 add up to \$21.2 million. The 10 year increase in total employee compensation is 65%.

I would like the District to explain why my calculation is incorrect and how the District arrived at 54.6%.

Public: Nearly 2/3 of USD's operating expenses are spent on employee compensation.

District: Approximately 41% of the District's total budget accounts for salary and benefits for employees.

My response: As I calculated above, total employee compensation in 2014 was \$21.2 million while operating expenses (excluding depreciation) was \$32.9 million. Therefore, 64.3%, or nearly 2/3, of the District's operating expenses are spent on employee compensation. I am not sure how this fact is "inaccurate and confusing".

The District calculated the 41% figure based on the District's total budget, which includes capital expenditures. When analysts review the financial metrics of companies, they compare each operating expense as a percentage of total operating expenses. They do not compare each operating expense to the total budget. I would like the District to confirm whether or not total employee compensation in 2014 was 64.3% of total operating expenses (excluding depreciation).

Given that the District has accused the public of relying on "inaccurate and confusing" information, it is incumbent on the District to back up their statements. I would also hope the Directors would voluntarily challenge District staff on their figures rather than accept everything they say as fact.

My last comment has to do with emails to the bod@unionsanitary.ca.gov address. The staff report includes emails to that address; yet, the headers of each email says Paul Eldredge. Can you explain this? Does Mr. Eldredge or any other staff member automatically receive emails sent to bod@unionsanitary.ca.gov? If so, this is a problem that needs to be corrected immediately as the public should be able to communicate with their representatives in confidence. If you decide to later share emails with District staff, that is your decision, but emails sent to the Board should not be automatically sent to District staff.

-Eric Tsai

**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: September 8, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
J. Leah Castella, Assistant General Counsel

SUBJECT: Agenda Item No. 9 – Meeting of September 14, 2015
**Consider the Claim of Mr. Fred Ramos (Star Rooter) for Alleged Losses
Related to an Assertedly Mismarked USD Sewer Line**

Recommendation

Deny Claim and send written notice of denial to claimant.

Background

Mr. Fred Ramos of Star Rooter entered an Underground Service Alert request for the District to mark our main in the vicinity of Cushing Rd and Fremont Blvd for a sewer lateral replacement they were performing. On April 15, 2015, Mr. Ramos submitted a claim to the District and asserted that the District mismarked the line, and as a result, additional costs were incurred. To support his claim, Mr. Ramos provided the District with a series of invoices, but did not specify which if any invoices were for work done as a result of the allegedly mismarked line. Nor is it possible to tell from the invoices whether the line was, in fact, mismarked. During our initial conversation with Mr. Ramos, he was unable to provide an accurate accounting of the costs incurred. We then forwarded the claim to Carl Warren, our insurance adjuster, for further investigation and processing.

Mr. Warren has requested that Mr. Ramos provide him with additional information regarding the claim on six different occasions. In lieu of providing additional information that would allow us to accurately assess whether the line was mismarked and whether additional costs were incurred as a result of mismarking, the only additional information provided by Mr. Ramos is a single check that he received from his client for \$60,750.00. Mr. Ramos did not include with the check any information that would allow us to ascertain whether there is still a

balance due and/or whether the amount paid was higher than anticipated as a result of the allegedly mismarked line. Since receipt of the check on June 5, 2015, Mr. Warren has heard nothing from Mr. Ramos.

Because it has been more than 45 days since this claim was submitted, it is currently deemed denied by operation of law. When a claim is denied by operation of law, a claimant has two years to file a complaint. A public agency can, however, send a notice of rejection of claim even after a claim is deemed denied by operation of law. By doing so, the agency can shorten the statute of limitations from two years to six months. Since Mr. Ramos has failed to substantiate his claim despite numerous attempts to get additional information, we recommend denying the claim and sending a notice of rejection of claim to Mr. Ramos.



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: September 2, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul Eldredge, General Manager/District Engineer
Sami Ghossain, Technical Services Manager
Michelle Powell, Communications and Intergovernmental Relations Coordinator

SUBJECT: Agenda Item No. 10 - Meeting of September 14, 2015
**Consider and Provide Direction to Staff Regarding Disclosure Language
Pertaining to Email Communications on Board of Directors Webpage**

Recommendation

Consider and provide direction regarding disclosure language to be posted below Board email addresses on the District's website.

Background

The July 27, 2015, Board meeting included a discussion regarding addition of an email disclosure statement to the Board's webpage. The discussion occurred following an inquiry from a constituent inquiring if "all Board member emails" were also directed to staff members and whether such communications are confidential.

District email communications are governed by the California Public Records Act. Pursuant to this Act, email communications to individual members or to the entire Board of Directors, referencing District business and directed to official email addresses, are treated as public records. It is not uncommon for certain agency employees to receive copies of emails sent to the governing body. This is to ensure that any time-sensitive emails are reviewed in a timely fashion and that correspondence regarding agenda items are properly incorporated into the public record.

The Board was informed that some agencies place a “disclaimer” on their website which states that emails sent to the Board of Directors are subject to disclosure. After consideration of the matter, the Board directed staff to develop disclosure language for its page on the public website.

Draft language:

The language below is proposed verbiage to be posted on the Board page of USD’s Public Website (image of draft web page attached):

Emails sent to the entire Board at BOD@unionsanitary.ca.gov are automatically forwarded to certain USD staff members. This is to ensure that any time-sensitive issues are brought to the District’s attention in a timely manner, and to incorporate correspondence pertaining to agenda items into the public record. Emails to individual board members are not automatically forwarded to staff.

District email communications are governed by the California Public Records Act. Pursuant to the Act, emails to individual Board members or the entire Board of Directors regarding District business that are sent to the official addresses above are treated as public records.

Staff requests that the Board consider this verbiage and provide direction regarding adding disclosure language to the public website.



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[what's new](#)
[employment](#)
[homeowner information](#)
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[environmental programs](#)
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[preventing and reporting odors](#)
[permits & fees](#)
[sewer service charges](#)

[union sanitary district](#) > [about us](#) > [board of directors](#)

BOARD MEETINGS

Regular Board meetings are scheduled
on the 2nd and 4th Monday of each month
at 7:00 p.m. in the Boardroom at District Headquarters

Important Links:

AGENDA
for the next Board Meeting
(usually available 5 days before each
Board meeting)

BOARD PACKET
most current complete packet

Committee Meeting Notice
for the next Board meeting
(Usually available 9 days before each
Board meeting)

Special Board Workshops and
other Meeting Notices

Information about Board Meetings may be obtained by calling
(510) 477-7503

District Headquarters:

5072 Benson Road
Union City, CA 94587-2508

[Map](#)

Contacting the Board

Contact the Board by email at
BOD@unionsanitary.ca.gov
or individually as follows:

Manny Fernandez	<u>mfernandez@unionsanitary.ca.gov</u>
Tom Handley	<u>thandley@unionsanitary.ca.gov</u>
Pat Kite	<u>pkite@unionsanitary.ca.gov</u>
Anjali Lathi	<u>alathi@unionsanitary.ca.gov</u>
Jennifer Toy	<u>jtoy@unionsanitary.ca.gov</u>

Emails sent to the entire Board at BOD@unionsanitary.ca.gov are automatically forwarded to certain USD staff members. This is to ensure that any time-sensitive issues are brought to the District's attention in a timely manner, and to incorporate correspondence pertaining to agenda items into the public record. Emails to individual board members are not automatically forwarded to staff.

District email communications are governed by the California Public Records Act. Pursuant to the Act, emails to individual Board members or the entire Board of Directors regarding District business that are sent to the official addresses above are treated as public records.



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: September 4, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul Eldredge, General Manager/District Engineer
Sami Ghossain, Technical Services Manager
Michelle Powell, Communications and Intergovernmental Relations Coordinator

SUBJECT: Agenda Item No. 11 - Meeting of September 14, 2015
Designate and Appoint Two Board Representatives to Ad Hoc Subcommittee for Content Review of Proposition 218 Notification

Recommendation

Staff requests that the Board designate and appoint two representatives to an ad hoc subcommittee for content review of a Proposition 218 notification, and decide whether the ad hoc subcommittee will provide final review and approval of the notification mailer without further Board review.

Background

The August 24, 2015, Board meeting included a discussion regarding creation of an ad hoc subcommittee to review content of a Proposition 218 notification. The discussion occurred following a Board decision to tentatively schedule a Public Hearing for December 14, 2015, to consider rates for FY 2017, FY 2018, and FY 2019. In order to meet scheduling needs for notification mailing requirements, the Board decided that review of notification content by an ad hoc subcommittee would be the most efficient process for obtaining Board input. The Board also determined that staff has discretion to utilize the alternate date for the public hearing of January 25, 2016, if necessary.

In order to stay on schedule for a December 14, 2015 public hearing, there is limited opportunity for the ad hoc subcommittee to make revisions. The tentative schedule is for the ad hoc subcommittee to meet during the week of September 21, 2015, to complete review and

comment on the content of the draft notification. If a second ad hoc subcommittee meeting is desired, it must also take place during the same week. This timeline is based on the need to provide enough time for graphic design of the notification, preparation of the finalized artwork for printing, and to meet the printer's requirements for printing and mailing preparation before the legal mailing deadline of October 30, 2015. Options for mailer sizes will be exhibited for the subcommittee's information; however, final content choices and cost considerations will determine the selection of mailer size.

Approved content will be forwarded to a graphic designer for incorporation into a mailer layout. Graphic design is tentatively scheduled to take place between the dates of September 25, 2015 and October 1, 2015. Final review and approval of the notification mailer must be completed by Friday, October 2, 2015, by the ad hoc subcommittee or the full Board. This means that the ad hoc committee, or the full Board, will need to meet to review the final draft of the notification mailer on October 2, 2015. Print preparation and forwarding of artwork to the printer will take place the week of October 5, 2015. If meeting this timeline is not possible, staff can then utilize the alternate date for the public hearing of January 25, 2016.

Staff believes the most productive way to obtain detailed feedback from the subcommittee members will be at an in-person meeting at District offices. All edits and revisions would be discussed and decided upon at the subcommittee meeting. An in-person meeting will allow for clear communication, ensure understanding and agreement on final edits between all participants, and avoid extension of the review deadline. The Board may also decide as part of this Agenda item if the ad hoc subcommittee would have final approval of content and the notification mailer without further review by the entire Board.

Staff requests that the Board designate and appoint two representatives to an ad hoc subcommittee for content review of a Proposition 218 notification, and decide whether the ad hoc subcommittee will provide final review and approval of the notification mailer without further Board review.

**Directors**

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: September 14, 2015

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Richard A. Cortes, Business Services Manager
Todd W. Jacob, Information Technology Administrator

SUBJECT: Agenda Item No. 12 - Meeting of September 14, 2015
Authorize the General Manager to Execute an Agreement with LookingPoint, Inc. for the Phone System Replacement

Recommendation

Authorize the General Manager to execute an agreement with LookingPoint, Inc. for the phone system replacement for an amount not to exceed \$194,094.04. In addition, approve \$82,000 in other project related costs.

Background

The District's current Nortel phone system is a critical system that was implemented with the new Administration building in 2001. Minor upgrades have been performed over the last 14 years but it is at the end of life. Furthermore, Nortel went bankrupt several years ago so there is no existing Nortel upgrade path.

Staff reviewed the Cisco, Avaya, and Microsoft phone system solutions and selected Cisco based on the District's current and future needed, reliability, compatibility with the existing Cisco network infrastructure, and the Gartner study on ["Magic Quadrant for Corporate Telephony"](#) showing Cisco as the leader with 14.5% market share.

Staff decided to use the pre-negotiated CMAS (California Multiple Award Schedule) contract to obtain pricing from the following vendors that we currently do business with.

- VOX, the District's current phone system support provider
- LookingPoint, the District's current network support provider
- CDWG, the District's primary IT reseller

Quotes were received from all three vendors above and evaluated by the Phone System Upgrade project team:

- Todd Jacob, Information Technology Administrator
- Robert Simonich, Fabrication, Maintenance, and Construction Manager
- Michael Gill, Senior Network Administrator

Description	VOX	LookingPoint	CDWG
Quote Total	\$ 212,949.93	\$ 194,094.04	\$ 223,687.52

Network Upgrades	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
Fabrication and Cabling	\$ 25,000.00	\$ 25,000.00	\$ 25,000.00
IT Staff Training	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00
Additional Items Estimated Total	\$ 82,000.00	\$ 82,000.00	\$ 82,000.00

Final Implementation Total	\$ 294,949.93	\$ 276,094.04	\$ 305,687.52
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Note that the conversion from a digital phone system to an IP phone system requires new network switches, cabling, and IT training to implement and support this new Cisco IP phone system at an estimated cost of \$82,000.

The budget for this project is \$250,000 funded out of the Information System renewal and replacement (ISR&R) fund. The final implementation cost for LookingPoint is \$276,094.04 which is \$26,094.04 over the project budget and will be absorbed by the ISR&R fund.

The project is scheduled to be completed by June 2016.

Staff recommends the Board authorize the General Manager to execute an agreement with LookingPoint, Inc. for the phone system replacement for an amount not to exceed \$194,094.04. In addition, approve \$82,000 in other project related costs.

PRE/RAC/TWJ

Attachments: Quote, Statement of Work

LOOKINGPOINT

Prepared For

Union Sanitary District
 Michael Gill
 5072 Benson Road
 Union City, CA 94587-2508
 Phone: 5104777522
 Fax:
 Email: michael_gill@unionsanitary.com
 Web:

Prepared By

Jack Cartwright
 Phone: 925-566-3473
 Email: jack@lookingpoint.com

Purchase Order Payable to:

LookingPoint, Inc.
 391 Taylor Blvd, Suite 120
 Pleasant Hill, CA 94523
 Federal Tax ID: 27-1173205

Email or FAX Purchase Order and this form, signed to:

Orders@lookingpoint.com or FAX: 925-405-3847

	Services	Hardware
Terms	Due Upon Receipt	Net 30

Cisco Hardware

Line #	Product	Description	Qty	List Price	Discount	Extended Price
Cisco BE6K Software						
2	R-CBE6K-K9	Cisco Business Edition 6000-Electronic SW Delivery-Top Level	1	\$0.00		\$0.00
3	BE6K-SW-10.X	Business Edition 6000 v10 export restricted software	1	\$0.00		\$0.00
4	BE6K-START-UWL25	BE 6000 - User License Starter Bundle with 25 UWL Licenses	1	\$1,000.00	52.00%	\$480.00
5	BE6K-UCL-ESS	Cisco Business Edition 6000 - Essential User Connect License	71	\$40.00	52.00%	\$1,363.20
6	BE6K-UCL-ENH	Cisco Business Edition 6000 - Enhanced User Connect License	10	\$210.00	52.00%	\$1,008.00
7	BE6K-UWL-STD	Cisco Business Edition 6000 - Workspace License Standard	115	\$325.00	52.00%	\$17,940.00
8	JAB9-DSK-UWL	Jabber for Desktop 9.x for CUWL Only	200	\$0.00		\$0.00
9	JABBER-IPAD-UWL	Cisco Jabber for iPad	200	\$0.00		\$0.00
10	JAB-ADR-CLNT-UWL	Jabber for Android CUWL Only	200	\$0.00		\$0.00
11	JAB-IPH-CLNT-UWL	Jabber for iPhone CUWL Only	200	\$0.00		\$0.00
12	EXPWY-VE-C-K9	Cisco Expressway-C Server Virtual Edition	1	\$0.00		\$0.00
13	EXPWY-VE-E-K9	Cisco Expressway-E Server Virtual Edition	1	\$0.00		\$0.00
14	SW-EXP-8.X-K9	Software Image for Expressway with Encryption Version X8	1	\$0.00		\$0.00
15	UCM-10X-UWLSTD	BE6000 UCM v10 CUWL Standard User License	137	\$0.00		\$0.00
16	UCXN-10X-UWLSTD	BE6000 Unity Connection v10 CUWL Standard License	137	\$0.00		\$0.00
17	JAB-ADR-RTU	Jabber for Android Right to Use	1	\$0.00		\$0.00
18	JAB9-DSK-UWL-RTU	Jabber for Desktop Right to Use Certificate	1	\$0.00		\$0.00
19	IPAD-UWL-RTU	Jabber for iPad Right to Use Certificate	1	\$0.00		\$0.00
20	JAB-IPH-RTU	Jabber for iPhone Right to Use	1	\$0.00		\$0.00
21	WBX-IM1-NH-UWL	Included WebEx Messenger Users (1 Year Term)	137	\$0.00		\$0.00

22	WEBEX-MC-BE-PAK	WebEx Cloud Provisioning - Enabling MC and/or IM for BE 6K	1	\$0.00		\$0.00
23	LIC-EXP-E-PAK	Expressway Series Expressway-E PAK	1	\$0.00		\$0.00
24	LIC-EXP-GW	Enable GW Feature (H323-SIP)	2	\$0.00		\$0.00
25	LIC-EXP-E	Enable Expressway-E Feature Set	1	\$0.00		\$0.00
26	LIC-EXP-TURN	Enable TURN Relay Option	1	\$0.00		\$0.00
27	LIC-EXP-AN	Enable Advanced Networking Option	1	\$0.00		\$0.00
28	LIC-SW-EXP-K9	License Key Software Encrypted	2	\$0.00		\$0.00
29	LIC-EXP-SERIES	Enable Expressway Series Feature Set	2	\$0.00		\$0.00
30	BE6K-UXL-START	BE6K Starter Pack - Single Fulfillment Enforcement	1	\$0.00		\$0.00
31	BE6K-PAK	Cisco Business Edition 6000 - PAK - Single Fulfillment	1	\$0.00		\$0.00
32	UCM-10X-ENH-UCL	BE6K UCM 10X Enhanced User Connect License - Single	10	\$0.00		\$0.00
33	UCM-10X-ESS-UCL	BE6K UCM 10X Essential User Connect License - Single	71	\$0.00		\$0.00

Cisco BE6K Medium Density Servers

35	UCXN-10X-SCPORTS	BE6K - Unity Connection 10x - VM Speech Connect Ports	2	\$0.00		\$0.00
36	BE6M-M4-K9=	Cisco Business Edition 6000M Svr (M4) Export Restricted SW	2	\$9,400.00	52.00%	\$9,024.00
37	BE6K-SW-9X10X	Cisco Business Edition 6000 - Software App Version 9.X 10.X	2	\$0.00		\$0.00
38	VMW-VS5-HYP-K9	Cisco UC Virt. Hypervisor 5.x (2-socket)	2	\$0.00		\$0.00
39	VMW-VS5-SNS	Cisco UC Virt. Hypervisor 5.x - SnS	2	\$0.00		\$0.00
40	R2XX-RAID5	Enable RAID 5 Setting	2	\$0.00		\$0.00
41	CIT-CPU-E52630D	2.40 GHz E5-2630 v3/85W 8C/20MB Cache/DDR4 1866MHz	2	\$0.00		\$0.00
42	CIT-MR-1X162RU-A	16GB DDR4-2133-MHz RDIMM/PC4-17000/dual rank/x4/1.2v	4	\$0.00		\$0.00
43	CIT-MRAID12G	Cisco 12G SAS Modular Raid Controller	2	\$0.00		\$0.00
44	CIT-MRAID12G-1GB	Cisco 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/6)	2	\$0.00		\$0.00
45	CIT-PSU1-770W	770W AC Hot-Plug Power Supply for 1U C-Series Rack Server	2	\$0.00		\$0.00
46	CIT-A03-D300GA2	300GB 6Gb SAS 10K RPM SFF HDD/hot plug/drive sled mounted	12	\$0.00		\$0.00
47	CAB-N5K6A-NA	Power Cord 200/240V 6A North America	2	\$0.00		\$0.00

Cisco Unified IP Phones

49	CP-8851-K9=	Cisco UC Phone 8851	32	\$595.00	52.00%	\$9,139.20
50	CP-8831-K9=	Cisco Unified IP Conference Phone 8831 base and controller	10	\$1,395.00	52.00%	\$6,696.00
51	CP-8811-K9=	Cisco IP Phone 8811 Series	105	\$445.00	52.00%	\$22,428.00
52	CP-7811-K9=	Cisco UC Phone 7811	55	\$195.00	52.00%	\$5,148.00

Cisco VG310

54	VG310	Modular 24 FXS Port VoIP Gateway with PVD3-64	1	\$5,400.00	52.00%	\$2,592.00
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55	SVG3XUK9-15403M	Cisco VG3X0 UNIVERSAL	1	\$0.00		\$0.00
56	MEM-CF-256MB	256MB Compact Flash for Cisco 1900 2900 3900 ISR	1	\$0.00		\$0.00
57	CAB-AC	AC Power Cord (North America) C13 NEMA 5-15P 2.1m	1	\$0.00		\$0.00
58	HWIC-BLANK	Blank faceplate for HWIC slot on Cisco ISR	1	\$0.00		\$0.00
59	SL-VG3X0-UC-K9	Cisco VG3X0 Unified Communications License	1	\$0.00		\$0.00
60	SL-VG3X0-IPB-K9	Cisco VG3X0 IP Base License	1	\$0.00		\$0.00

Cisco 4321 Voice Gateways

62	ISR4321-V/K9	Cisco ISR 4321 Bundle w/UC License CUBE-10	2	\$3,095.00	52.00%	\$2,971.20
63	SL-4320-IPB-K9	IP Base License for Cisco ISR 4320 Series	2	\$0.00		\$0.00
64	SL-4320-UC-K9	Unified Communication License for Cisco ISR 4320 Series	2	\$0.00		\$0.00
65	PVDM4-32	32-channel DSP module	2	\$1,700.00	52.00%	\$1,632.00
66	PWR-4320-AC	AC Power Supply for Cisco ISR 4320	2	\$0.00		\$0.00
67	CAB-AC-C5	AC Power Cord Type C5 US Canada	2	\$0.00		\$0.00
68	MEM-FLSH-4G	4G Flash Memory for Cisco ISR 4300 (Soldered on motherboard)	2	\$0.00		\$0.00
69	MEM-4320-4G	4G DRAM for Cisco ISR 4320 (Soldered on motherboard)	2	\$0.00		\$0.00
70	NIM-BLANK	Blank faceplate for NIM slot on Cisco ISR 4400	2	\$0.00		\$0.00
71	FL-CUBEE-5	Unified Border Element Enterprise License - 5 sessions	4	\$0.00		\$0.00
72	SISR4300UK9-313S	Cisco ISR 4300 Series IOS XE Universal	2	\$0.00		\$0.00
73	NIM-1MFT-T1/E1	1 port Multiflex Trunk Voice/Clear-channel Data T1/E1 Module	2	\$1,430.00	52.00%	\$1,372.80

Cisco Emergency Responder

75	PVDM4-32	32-channel DSP module	2	\$1,700.00	52.00%	\$1,632.00
76	R-EMRGNCY-RSPNDR	Emergency Responder Electronic Software Delivery	1	\$0.00		\$0.00
77	ER10-USR-1	EMRGNCY RSPNDR USR LIC 1 PHN FOR NEW 10X SYSTEM	218	\$20.00	52.00%	\$2,092.80
78	ER10-PAK	EMRGNCY RSPNDR 10.X PAK	1	\$0.00		\$0.00

Cisco SIP Informacast

80	ER10-SW-K9	EMRGNCY RSPNDR 10 SW NEW	1	\$0.00		\$0.00
81	SP-INFORMACST-50=	InformaCast - 50 End Point Licenses	5	\$2,750.00	52.00%	\$6,600.00
82	SP-PRODUCTS-TERMS	Buyer Acceptance of SolutionsPlus Terms and Conditions	5	\$0.00		\$0.00

Cisco Hardware Subtotal				\$92,119.20		
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Headsets

Line #	Product	Description	Qty	List Price	Discount	Extended Price
Jabra Headsets						
2	5578-230-109	JABRA STEALTH UC BT HEADSET	10	\$150.00	15.00%	\$1,275.00
3	935-15-509-205	JABRA PRO 935 BT DUAL CONNEC FOR SOFTPHONES & MOBILE DEV	14	\$313.00	15.00%	\$3,724.70
Headsets Subtotal						\$4,999.70

RightFax

Line #	Product	Description	Qty	List Price	Discount	Extended Price
RightFax						
2	S-CPRFPGBSN-A	Fax Server, RightFax Business Edition	1	\$1,995.00	.00%	\$1,995.00
3	S-CPRFPGDDCFOIPU	RightFax FOIP Enable an Existing Right Fax Document Delivery Channel	1	\$550.00	.00%	\$550.00
4	S-CPRFPGDDCFOIP	RightFax FOIP Enable Fax Channel	1	\$1,445.00	.00%	\$1,445.00
5	S-CPRFPGBSN-A	Fax Server, RightFax Business Edition	1	\$647.50	.00%	\$647.50
6	S-CPRFPGDDCFOIPU	RightFax FOIP Enable an Existing Right Fax Document Delivery Channel	1	\$178.51	.00%	\$178.51
7	S-CPRFPGDDCFOIP	RightFax FOIP Enable Fax Channel	1	\$468.99	.00%	\$468.99
RightFax Subtotal						\$5,285.00

Cisco Maintenance

Line #	Product	Description	Qty	List Price	Discount	Extended Price
Cisco SMARTnet (1 Year)						
2	CON-ECMU-RCBE6KK	SWSS UPGRADES Cisco Business Editi	1	\$0.00		\$0.00
3	CON-ECMU-UCMUWLST	SWSS UPGRADES BE6K UCM 10X CUWL BE	137	\$39.00	5.00%	\$5,075.85
4	CON-ECMU-UCMENHUC	SWSS UPGRADES BE6K UCM 10X Enhance	10	\$24.00	5.00%	\$228.00
5	CON-ECMU-UCMESSUC	SWSS UPGRADES BE6K UCM 10X Essenti	71	\$5.00	5.00%	\$337.25
6	CON-SNT-BE6M4M4K	SMARTNET 8X5XNBD Cisco Business Edition 6000M Svr (M4) E	2	\$315.00	5.00%	\$598.50
7	CON-SNT-CP8811K9	SMARTNET 8X5XNBD Cisco IP Phone 8811 Series	105	\$16.00	5.00%	\$1,596.00
8	CON-SNT-VG310ICV	SMARTNET 8X5XNBD Cisco VG310 - Modular 24 FXS Port Voice	1	\$449.00	5.00%	\$426.55
9	CON-ECMU-EMRGNCY	SWSS UPGRADES EMRGNCY RSPNDR	1	\$0.00		\$0.00
10	CON-ECMU-ER10USR1	SWSS UPGRADES EMRGNCY RSPNDR USR LIC 1 PHN FOR NEW 10X	218	\$2.00	5.00%	\$414.20

11	CON-SNT-ISR4321V	SMARTNET 8X5XNBD Cisco ISR 4321 UC Bundle PVD4-32 UC L	2	\$381.00	5.00%	\$723.90
12	CON-ECMU-LUCXN1L9	SWSS UPGRADES Unity Connection 10.x SW Feature Licens	1	\$0.00		\$0.00
13	CON-SNT-CP78119K	SNTC-8X5XNBD Cisco UC Phone 7811	55	\$10.00	5.00%	\$522.50
Cisco Maintenance Subtotal						\$9,922.75

Shipping

Line #	Product	Description	Qty	List Price	Discount	Extended Price
1		Shipping is FOB	1	\$200.00	.00%	\$200.00
CMAS Contract Number: 3-14-70-3092A Supplement NO: N/A CMAS Contract Term: 7/22/2014 - 9/30/2017 Contract Category: Information Technology Goods & Services Applicable Terms and Conditions: August 2010 Maximum Order Limit: \$500,000.00 For use by: State and Local Government Agencies Base GSA Schedule NO: GS-35F-0511T Base Schedule Holder: EC America Inc.						
Shipping Subtotal						\$200.00

LOOKINGPOINT

Quote Summary		Amount
	Cisco Hardware	\$92,119.20
	Headsets	\$4,999.70
	RightFax	\$5,285.00
	Cisco Maintenance	\$9,922.75
	Subtotal	\$112,326.65
	Shipping	\$200.00
	Tax	\$10,240.39
	Total	\$122,767.04

By signing this Service Order, the parties agree to the terms and conditions set forth on this Service Order and on the attached Terms.
All hardware, software and licensing will be invoiced when shipped.

Terms of this Quote:

Returns are subject to a 25% restocking fee.
Opened items are NOT returnable.
Service fee applies to all credit card purchases.
18% Finance charge applies to past due invoices.

Shipping:

All shipping is FOB.
All shipping is estimated based on requested class of shipping (Next Day, Second day, etc.).
Changes to class may result in increased shipping charges.

Customer Signature _____

Name _____

Title _____

Date _____

Union Sanitary District

Unified Communications Deployment

SoW Version: 1.1

Presented by: **Jack Cartwright**
Phone: **925-566-3473**
Email: **Jack@LookingPoint.com**



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1. Document Control

1.1. Preparation

Prepared By:	Notes	Date
Sean Barr	First Draft	6/11/2015
Sean Barr	Second Draft	8/26/2015

1.2. Release Information

Version	Date	Pages Affected	Remarks
1.0	6/11/2015	All	First Draft
1.1	8/26/2015	All	Added Nortel Configuration Review

1.3. Copyright and Intellectual Property

Copyright and other Intellectual property rights in any original projects, specifications, reports or other items arising in the course of, or resulting from the project shall remain the property of LookingPoint, Inc. although **Union Sanitary District** shall have a non-exclusive and non-transferable license to all such items for its own purposes. Nothing in this agreement shall enable either party to make use of any intellectual property rights vested in the other party prior to the commencement of this assignment.

2. Project Summary

2.1. Project Introduction

Union Sanitary District is looking to deploy a new Cisco Unified Communications infrastructure. They will be implementing a Unified Communications Manager, Unified Unity Connection, Presence, Cisco Paging Server, Cisco Emergency Responder, and Voice Gateways to support their telecommunications needs. We will also be implementing a fax solution to enable inbound faxing capability.

Union Sanitary District has engaged LookingPoint to complete the deployment of the new system. This solution will be designed using Cisco virtual application servers and VMware vSphere hypervisor running on Cisco UCS server hardware.

3. Project Proposal

LookingPoint will provide a Principal Network Architect to design and review configurations. The Principal Network Architect will be responsible for the overall success of the project. Major design changes and issues related to the project will be escalated to this resource.

LookingPoint will also provide a Senior Network Engineer to implement and deploy the design. This resource will work onsite and remotely as needed to complete the project. In some cases the Principal Network Architect will fulfill this role.

3.1. Methodology

Aligning our implementation process with Cisco's Prepare, Plan, Design, Implement, Operate, and Optimize (PPDIOO) methodology, LookingPoint has used this as a guide in developing our process to ensure project discovery, design, delivery and support.

3.2. Planning and Design

LookingPoint staff will meet with key stakeholders to asses and document site information. We will work with your team to explain and gather information required to complete the System Build Document.

LookingPoint will review the information gathered and identify any issues if they exist. Based on the review we will produce an end state architecture. The end state architecture will be comprised of these documents (Network Diagram(s) and System Build Document). We will review this document prior to installation to ensure smooth project delivery.

Planning and Design Objectives

- Develop project plan and timeline
- Develop cutover and migration plan
- Develop high-level test plan
- Finalize device versions
 - o Routers
 - o Communications Manager
 - o Presence
 - o Cisco paging server

UC Design	
Task	Description
Discover	<ul style="list-style-type: none"> • Conduct Analog Discovery Site Walk (Menlo Park) <ul style="list-style-type: none"> o Review physical cross connects o Review security system requirements o Review gates and door entry systems o Document requirements for design process
Nortel PBX Configuration Review	<ul style="list-style-type: none"> • Pull configuration from Nortel PBX • Review existing hunt group configuration • Review existing extensions assigned
High Level Design Review	<ul style="list-style-type: none"> • UC Server Hardware Location <ul style="list-style-type: none"> o Compute/Storage Hosts o VMware Version • Virtual Appliance Sizing, Location and Version <ul style="list-style-type: none"> o Communications Manager o Unity Connection

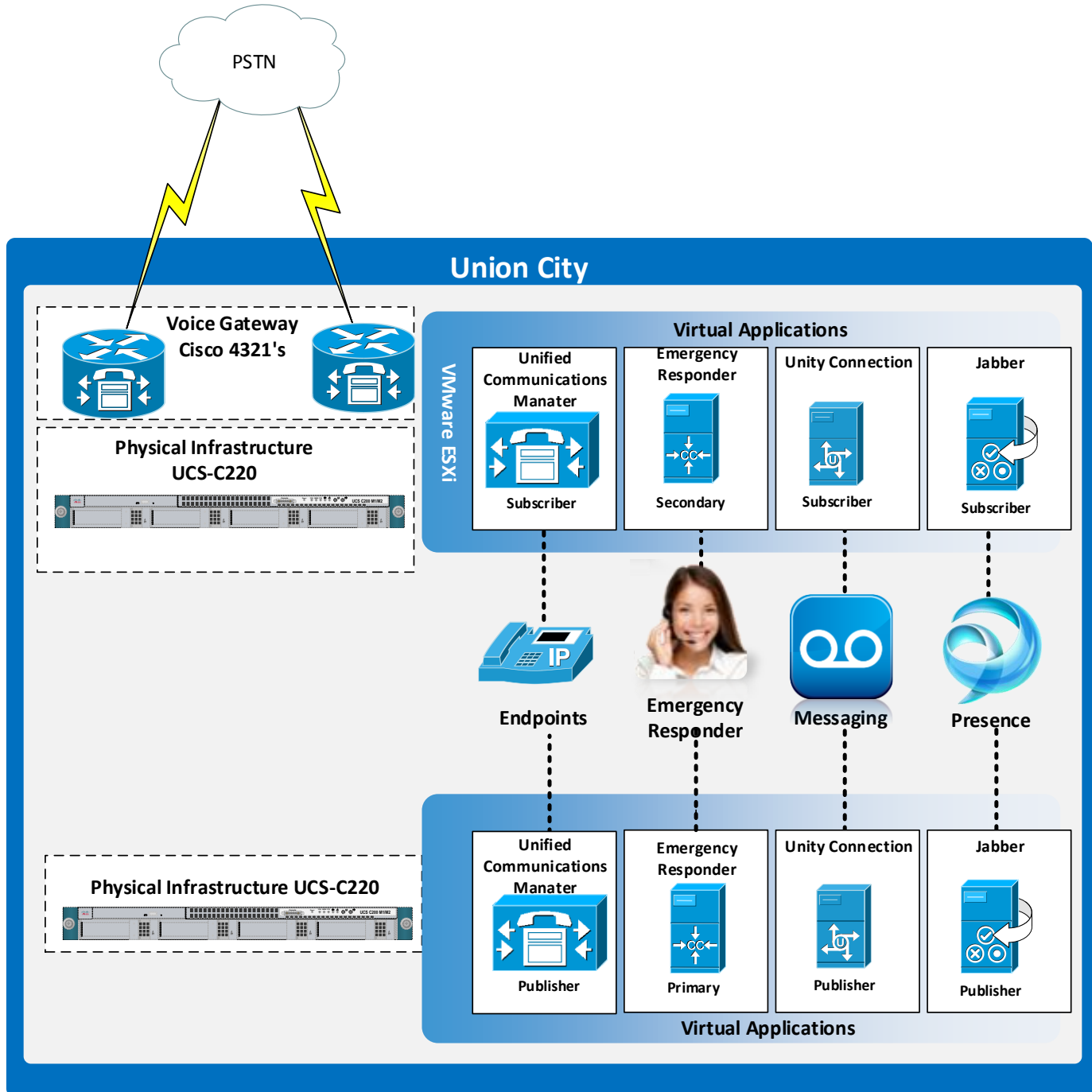
	<ul style="list-style-type: none"> ◦ IM & Presence • PSTN Connectivity <ul style="list-style-type: none"> ◦ Circuit Types and Locations ◦ Voice Gateway Types and Locations • Wide Area Networking <ul style="list-style-type: none"> ◦ Circuit Types and Locations ◦ QoS Implementation • Local Area Networking <ul style="list-style-type: none"> ◦ Switch Models and Locations ◦ Power over Ethernet Capability ◦ VLAN Segmentation • Internet Connectivity <ul style="list-style-type: none"> ◦ Circuit Types and Locations ◦ Teleworker Connectivity Method • Identity Store (Active Directory)
UC Features Design	<ul style="list-style-type: none"> • Communications Manager <ul style="list-style-type: none"> ◦ IP Phone Features ◦ Call Routing Features • Unity Connection <ul style="list-style-type: none"> ◦ Mailbox Features ◦ Unified Messaging • IM & Presence <ul style="list-style-type: none"> ◦ Jabber Desk Phone Control ◦ Jabber Softphone ◦ Phone-only or Full UC ◦ Persistent Chat
Dial Plan Design	<ul style="list-style-type: none"> • Intra-site Dial Plan • Inter-site Dial Plan • PSTN Access Code • E.164 Support • Class of Control • Reserved System Number
Design Documentation	<ul style="list-style-type: none"> • Output documentation <ul style="list-style-type: none"> ◦ Updated High Level Design Diagram ◦ UC Features Design Document ◦ Dial Plan Design Document ◦ Phone System Design Sheet (customer populated)

3.3. Equipment List

This Section defines in scope equipment to be configured. This equipment list should closely match the BOM purchased for site deployment.

Reference Unified Communications Bill of Materials (BoM):

Network Diagram



3.4. Staging and Configuration

This section defines how each hardware element will be configured. It also outlines what feature(s) will be enabled as a part of this project.

Stage Voice Gateways

- Install selected IOS to match Union Sanitary District's standard.
 - If standard does not exist LookingPoint will select an Image.
- Label equipment with hostname information
 - Customer to provide label maker.



- Configure Equipment for Deployment.
 - Configure IP addresses based on customer IP scheme.
 - Configure applicable hostnames.
 - Configure TACACS / RADIUS Authentication (Customer to provide authentication system) *Note any equipment that does not support these authentication methods cannot be integrated.*
 - Configure SSH access class to prevent unauthorized management connections.
 - Configure loopback address for management and monitoring.
 - Configure SNMP strings and ACL to prevent unauthorized SNMP connections.

Hardware Configuration

- Configure Voice Router
 - Configure SIP to communicate with Communications Manager.
 - Configure Dial-plan to support in and outbound call routing.
 - Configure SRST to support onsite dialing when the system goes offline.
 - Configure analog voice cards. (POTS and PRI)
 - Configure VLAN Gateway
 - Configure DHCP relay address if customer plans to use an existing DHCP server. Or configure DHCP on the router.
- Install CUCM 10.X
 - Deploy OVF template on UCS server running VMware
 - Upload install media to VMware datastore
 - Install CUCM 10.x application
 - Configure network settings
 - IP
 - Hostname
 - DNS
 - NTP
 - SMTP
 - Configure OS Administration Credentials
 - Configure Application Administration Credentials
 - Configure database secret password
 - Install product licenses
- Install Unity Connection 10.X
 - Deploy OVF template on UCS server running VMware
 - Upload install media to VMware datastore
 - Install CUCM 10.x application
 - Configure network settings
 - IP
 - Hostname
 - DNS
 - NTP
 - SMTP
 - Configure OS Administration Credentials
 - Configure Application Administration Credentials



- Configure database secret password
 - Install product licenses
- Install Cisco Paging Server 10.X
 - Deploy OVF template on UCS server running VMware
 - Upload install media to VMware datastore
 - Install CUCM 10.x application
 - Configure network settings
 - IP
 - Hostname
 - DNS
 - NTP
 - SMTP
 - Configure OS Administration Credentials
 - Configure Application Administration Credentials
 - Configure database secret password
 - Install product licenses
- Install Emergency Responder 10.X
 - Deploy OVF template on UCS server running VMware
 - Upload install media to VMware datastore
 - Install CUCM 10.x application
 - Configure network settings
 - IP
 - Hostname
 - DNS
 - NTP
 - SMTP
 - Configure OS Administration Credentials
 - Configure Application Administration Credentials
 - Configure database secret password
 - Install product licenses
- Install Unified IM & Presence 10.X
 - Deploy OVF template on VMware for supported server specifications
 - Upload install media to VMware datastore
 - Install CUP 10.x application
 - Configure network settings
 - IP
 - Hostname
 - DNS
 - NTP
 - SMTP
 - Configure OS Administration Credentials
 - Configure Application Administration Credentials
 - Configure database secret password
- Install VMware tools on all virtual appliances
- Configure automatic virtual machine startup/shutdown policy in VMware (With Union Sanitary District Staff)



3.5. Implementation of Unified Communications

This section defines the Unified Communications infrastructure and customer requirements.

Customer Requirements

- Customer to complete the Phone System Build Document. The information needed to complete this is: Phone MAC Address, Phone Extension, Phone DID, User ID, Department, Class of restriction and phone type.
- All carrier coordination and scheduling of circuit installation is a customer responsibility. LookingPoint offers carrier coordination service at an hourly rate.
- Customer will create AD user accounts and Update their IP Phone field in Active directory to support Corporate Directory.
- Customer will configure all switch ports and DHCP scope to support IP Phones.
- Customer will be responsible to place handsets at all locations.

LookingPoint will Configure the following components

CUCM (Call Control) x2	
Task	Description
System Configuration	<ul style="list-style-type: none"> • Unified CM Auto-Registration Policy • Unified CM Groups • Date/Time Groups • Enterprise Parameters <ul style="list-style-type: none"> ◦ Enable BLF for Call Lists • CM Service Parameters <ul style="list-style-type: none"> ◦ Enable CDR ◦ Enable Call Diagnostics ◦ Max Ad-hoc conference participants ◦ Max MeetMe conference participants • LDAP integration with Active Directory • Region Codec Selection • Location Call Admission Control • SRST References • Device Pools
Media Resource Configuration	<ul style="list-style-type: none"> • CUCM Software Media Resources <ul style="list-style-type: none"> ◦ Annunciator ◦ Conferencing ◦ Media Termination Point ◦ Music on Hold Server • Create CUCM Software Media Resource Group • Hardware Media Resources <ul style="list-style-type: none"> ◦ Conference Bridge ◦ Transcoder • Media Resource Groups / Lists
Call Routing Configuration	<ul style="list-style-type: none"> • Class of Control <ul style="list-style-type: none"> ◦ Partitions ◦ Calling Search Spaces • Translation Patterns • Route Groups / Lists / Patterns • Calling / Called Transformation Patterns • Call Park Ranges • MeetMe Conference Ranges • Direct to voicemail dialing (* + extension)
Phone Configuration	<ul style="list-style-type: none"> • Phone Button Templates



	<ul style="list-style-type: none"> • Soft Key Templates • Customize Phone Background Wallpaper • Common Phone Profiles • Bulk Administration Phone Templates • Bulk Administration Directory Number Templates • Bulk Import Phones <ul style="list-style-type: none"> ◦ Physical IP Phones ◦ Jabber Soft Phones (CSF) ◦ User Device Profiles (Extension Mobility)
User Configuration	<ul style="list-style-type: none"> • Update users Controlled Devices <ul style="list-style-type: none"> ◦ Physical IP Phones ◦ Jabber Soft Phones (CSF) • Update users Controlled Device Profiles <ul style="list-style-type: none"> ◦ User Device Profile (Extension Mobility) • Update users Primary Extension • Create UC Service Profile with: <ul style="list-style-type: none"> ◦ IM & Presence Service ◦ Voicemail Service ◦ CTI Service ◦ Mail store Service ◦ Conferencing Service • Assign users to a UC Service Profile • Enable Mobility (Single Number Reach) • Assign users to appropriate Access Control Groups
PSTN Trunk Configuration	<ul style="list-style-type: none"> • SIP Trunk[s] to Cisco Voice Gateways for PSTN Access • Add Trunk[s] to Route Group[s]
Voicemail Configuration	<ul style="list-style-type: none"> • SIP Trunk[s] to Voicemail Service • Add Trunk[s] to Route Group[s] • Voicemail Pilot • Voicemail Profile • Route Pattern
Security Certificate Configuration	<ul style="list-style-type: none"> • Assist in generating and registering trusted 3rd party certificate.
Monitoring Configuration	<ul style="list-style-type: none"> • SNMP Community for Remote Monitoring • SNMP Traps to Remote NMS • SMTP System Email Alerts to IT Helpdesk
Disaster Recovery Configuration	<ul style="list-style-type: none"> • SFTP Backup Device Location (Customer Provided) • Enable Backup Schedule

Unity Connection (Voicemail) x2

Task	Description
System Configuration	<ul style="list-style-type: none"> • Authentication Rules <ul style="list-style-type: none"> ◦ Voice Mail Authentication Rule ◦ Web Application Authentication Rule • Restriction Tables (if outbound PSTN access needed) • Upload Holiday Schedule • Modify Business Hours Schedule • LDAP Integration with Active Directory • SMTP Smart Host
Telephony Configuration	<ul style="list-style-type: none"> • Phone System Configuration (CUCM SIP Trunk) • Add Port Groups • Add Ports
Unified Messaging Configuration	<ul style="list-style-type: none"> • Add Unified Messaging Service
Message Storage Configuration	<ul style="list-style-type: none"> • Mailbox Quotas • Message Aging Policies
Call Management Configuration	<ul style="list-style-type: none"> • System Call Handlers • Directory Handlers • Custom Call Routing (if necessary)
Class of Service Configuration	<ul style="list-style-type: none"> • Customize Class of Service Feature Set



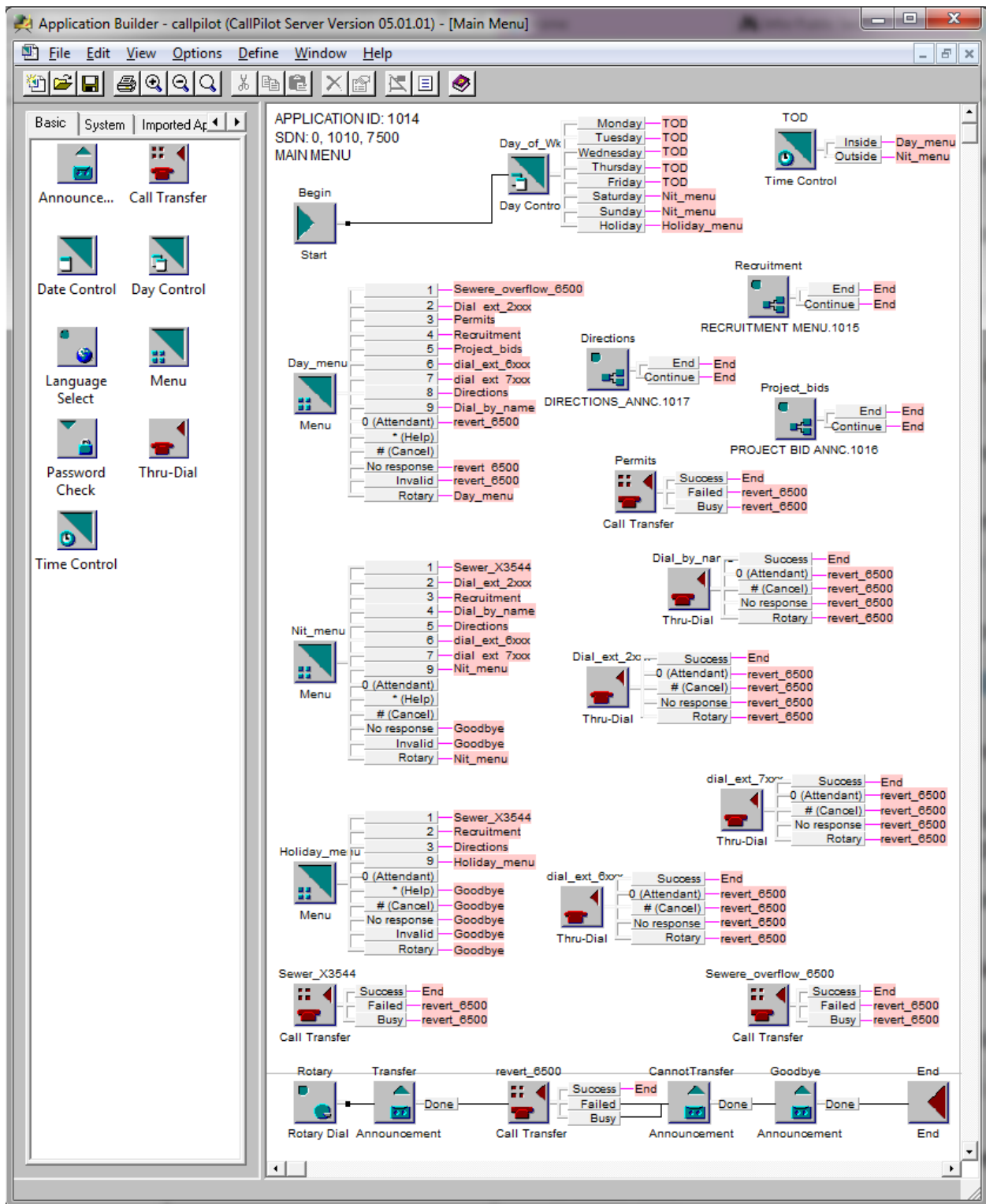
September 3, 2015

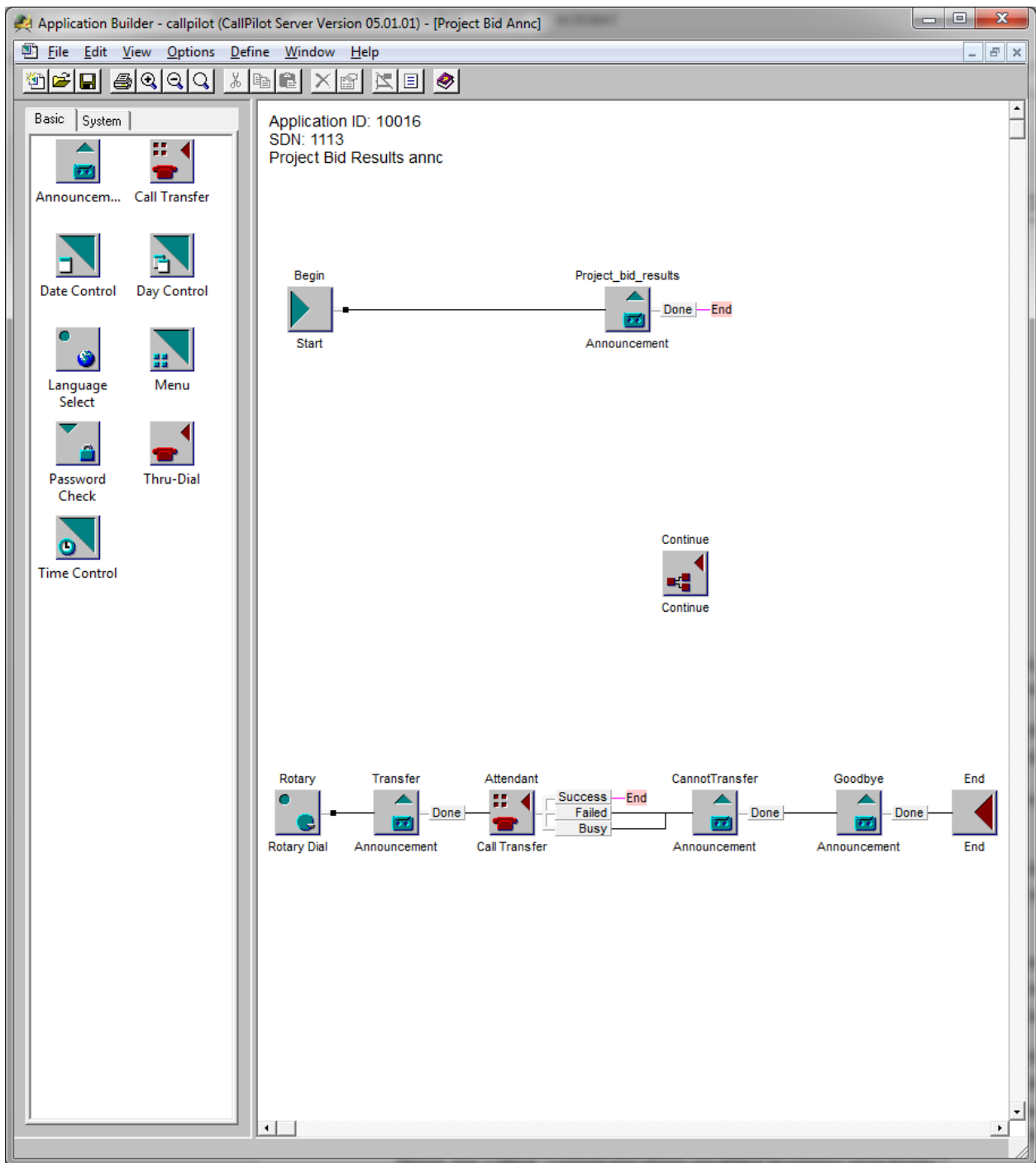
Templates Configuration	<ul style="list-style-type: none">• Customize User Templates
User Configuration	<ul style="list-style-type: none">• Import Users from LDAP using Customized User Template
Security Certificate Configuration	<ul style="list-style-type: none">• Assist in generating and registering trusted 3rd party certificate.
Monitoring Configuration	<ul style="list-style-type: none">• SNMP Community for Remote Monitoring• SNMP Traps to Remote NMS• SMTP System Email Alerts to IT Helpdesk
Disaster Recovery Configuration	<ul style="list-style-type: none">• SFTP Backup Device Location (Customer Provided)• Enable Backup Schedule

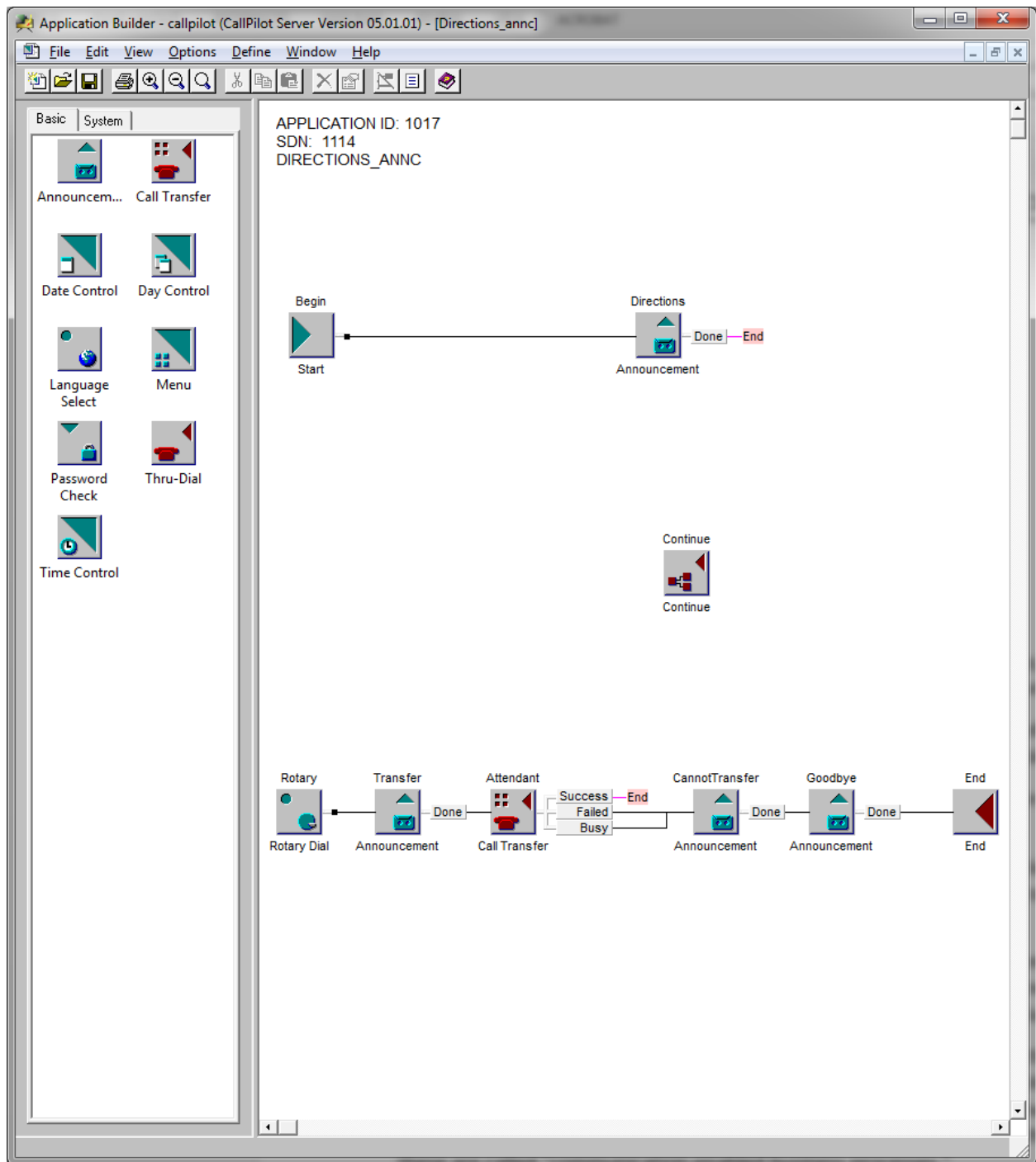
Current IVR Configuration:



September 3, 2015







IM & Presence x2

Task	Description
Presence Configuration	<ul style="list-style-type: none">• Standard Settings<ul style="list-style-type: none">◦ CUCM IM&P Publish Trunk• Advanced Settings<ul style="list-style-type: none">◦ Domain and IM Settings• Add Presence Gateway (CUCM)• Add additional system managed domains (if necessary)
Messaging Configuration	<ul style="list-style-type: none">• Allow clients to log instant message history• External Database for logging (customer provided DB)



	<ul style="list-style-type: none"> • External Database for persistent chat (customer provided DB) • Modify Compliance/Logging Settings as required • Enable Group Chat • Enable Persistent Chat (customer must provide external DB) • Database requirements: PostgreSQL Version 9.1.13
Application Configuration	<ul style="list-style-type: none"> • Legacy clients LDAP mapping (as necessary) • Legacy clients CCMCIP profile (as necessary)
Security Certificate Configuration	<ul style="list-style-type: none"> • Assist in generating and registering trusted 3rd party certificate.
Monitoring Configuration	<ul style="list-style-type: none"> • SNMP Community for Remote Monitoring • SNMP Traps to Remote NMS • SMTP System Email Alerts to IT Helpdesk
Disaster Recovery Configuration	<ul style="list-style-type: none"> • SFTP Backup Device Location (Customer Provided) • Enable Backup Schedule

Cisco Emergency Responder x2

Task	Description
CUCM Configuration	<ul style="list-style-type: none"> • Create Partitions and Calling Search Spaces • Create Translation Pattern for 911 • Create CTI Route Points to send calls to CER • Create Route Patterns per ERL / Assign ELIN as CLID • Create Emergency Response Route Groups/Lists • Create Translation Patterns for 911 ELIN Callback • Create Application User for CER API Access
Emergency Response Configuration	<ul style="list-style-type: none"> • Create CUCM cluster integration • Create Alert Destinations • Create Emergency Response Locations
Phone Tracking Configuration	<ul style="list-style-type: none"> • Add LAN switches for SNMP phone tracking • Add SNMP community strings for LAN switches • Assign switch ports to appropriate ERL • Assign subnets to appropriate ERL (as backup)
Security Certificate Configuration	<ul style="list-style-type: none"> • Assist in generating and registering trusted 3rd party certificate.
Monitoring Configuration	<ul style="list-style-type: none"> • SNMP Community for Remote Monitoring • SNMP Traps to Remote NMS • SMTP System Email Alerts to IT Helpdesk
Disaster Recovery Configuration	<ul style="list-style-type: none"> • SFTP Backup Device Location (Customer Provided) • Enable Backup Schedule

Cisco Voice Gateway

Task	Description
Staging	<ul style="list-style-type: none"> • Install Cisco recommended IOS Version • Configure the following items <ul style="list-style-type: none"> ◦ Hostname ◦ IP Address and Default GW for LAN interface
Import Current Network Configuration	<ul style="list-style-type: none"> • Like for like configuration replacement of existing WAN routers
Update QoS Configuration	<ul style="list-style-type: none"> • Create new class-map for voice traffic (match DSCP) • Update existing policy-map with voice class • Configure the voice-class as a LLQ priority bandwidth • Set IP Precedence or ToS expected by MPLS provider • Validate QoS policy is matching voice traffic in correct class
PSTN/POTS Configuration	<ul style="list-style-type: none"> • Voice translation rules



	<ul style="list-style-type: none"> • Voice translation profiles • Dial-peers
CUCM SIP Configuration	<ul style="list-style-type: none"> • Voice translation rules • Voice translation profiles • Dial-peers • SIP media source interface • SIP control source interface • DTMF method • SIP Keep-alive (Option Ping)
DSP Resource Configuration	<ul style="list-style-type: none"> • SCCP DSP for Conferencing • SCCP DSP for Transcoding (central site only) • SCCP DSP for Media Termination (situationally)
SRST Configuration	<ul style="list-style-type: none"> • Call-manager-fallback settings (SCCP Phones) • Voice Register Pool settings (SIP Phones) • Voice mail routing • Messages button routing • Phone display system message
Management Configuration	<ul style="list-style-type: none"> • SNMP Community for Remote Monitoring • SNMP Traps to Remote NMS • NTP Servers for time synchronization • RADIUS/TACACS+ Servers for remote AAA (to customer provided AAA server) • Local AAA Administration Credentials • Enable SSH and generate keys • Configure SNMP restricted access-control-list • Configure SSH restricted access-control-list • Disable HTTP/HTTPS Server • Configure Netflow Export (to customer provided collector)

Cisco Paging Configuration

Task	Description
Cisco Paging Server	<ul style="list-style-type: none"> • Configure paging server to support basic paging. • Configure up to 4 paging groups • Paging through Cisco phones is supported • Integration with third party speaker system is not included in this statement of work.
CUCM Configuration	<ul style="list-style-type: none"> • Configure route-patterns for paging numbers • Configure route-list/route-groups for paging numbers

RightFAX Fax Configuration

Task	Description
RightFAX Fax Server	<ul style="list-style-type: none"> • Configure RightFAX FAX solution • Integrate RightFAX solution into Communications Manager • Configure each user with an associated Fax number • Integrate fax solution to deliver via email • Exchange/Email system configuration is not included in this statement of work. • RightFAX solution is known to have workserver performance issues. LookingPoint recommends Xmedius FAX solution for this deployment.
CUCM Configuration	<ul style="list-style-type: none"> • Configure route-patterns for FAX numbers



3.6. Cutover and Migration Support

This section describes how we will support cutovers and day one support.

- LookingPoint will support one cutover for this project which includes:
 - Migration of voice services (Cutover Window)
 - Day One Support (Onsite support for end users)
 - Day Two Support (Remote)
- Issues post day two support will be directed to the assigned PM who will engage engineering as needed.

3.7. Monitoring

This section defines the monitor recommendations

1. LookingPoint recommends adding project devices to monitoring. We will provide a list of devices and configure required SNMP or other monitoring requirements.
2. LookingPoint recommends leveraging Prime to monitor the voice infrastructure.

3.8. Testing and Validation

This section defines how the installation will be tested and validated.

1. Create and Validate test plan prior to execution with customer (See Design Phase)
2. Execute test plan per design session.
3. Complete the Device Activation Document including each new network element.
 - a. This document will define the following:
 - i. IP Provisioning
 - ii. Security
 - iii. SNMP and Monitoring
 - iv. Time and NTP
 - v. Monitoring
 - vi. Backup Configuration
4. Communication Manager Validation
 - a. Validate In and Outbound dialing
 - b. Validate Auto Attendants
 - c. Validate Fax numbers and fax delivery
 - d. Validate contact center numbers
 - e. Validate Queue Operation
 - f. Validate 911 operation
 - i. Call 911 from location configured and confirm origin.
5. Voice Validation
 - a. Power off primary UCS server
 - i. Validate Monitoring System Triggered Alert (If applicable)
 - ii. Validate all phone services are still available
 - iii. Power on primary UCS server
 - iv. Validate Network Monitoring



- v. Validate IP phone failback

3.9. Documentation

This section defines what documentation will be included as a part of this project.

1. Device Activation Document
 - a. This will include Device:
 - i. IP Address
 - ii. Serial Number
 - iii. Device Status (Monitored, IOS Version, SSH, Authentication Information)
2. Network Diagram
3. Completed Site Build Document
 - a. Include SmartNet contract numbers in Site Build Document

UC Documentation	
Task	Description
End User Documentation	<ul style="list-style-type: none"> • Customized Quick Start Guide • Customized Self-Care Portal Guide
As-built Documentation	<ul style="list-style-type: none"> • Visio/PDF Diagrams for High Level Architecture • Move, Add, and Change documentation • Device Activation Document (complete system build management information)

3.10. Training

UC End User Training	
Task	Description
End User Training	<ul style="list-style-type: none"> • 6 Classes 45 minute training session to review <ul style="list-style-type: none"> ○ Basic phone operation ○ Dial Plan basics ○ Voicemail setup and access basics
Train the Trainer	<ul style="list-style-type: none"> • Provide two one hour train the trainer session for basic phone system and voicemail functionality. We will provide two sessions for up to 4 people per session. This training will enable the participants to provide in site/department support. <ul style="list-style-type: none"> ○ Basic phone operation ○ Dial Plan basics ○ Voicemail setup and access basics
Quick Reference Guide	<ul style="list-style-type: none"> • A quick reference guide (one to two pages) will be provided by LookingPoint to be placed on all end user workstations prior to the proposed UC solution "go-live". This guide will provide the base knowledge necessary to operate the new IP Phone and Voicemail.



UC Administrator Training	
Task	Description
Administrative Training	<ul style="list-style-type: none"> • 8 hour administrative training to review <ul style="list-style-type: none"> ○ System architecture ○ Call flows ○ Basic Troubleshooting ○ How to: Move, Adds, and Change training

3.11. Project Completion

Once the project is complete we will review all documentation in association to this project. Review the Project issues list to verify no issues remain. If all documents are complete and no issues remain the customer will sign the acceptance document.

30 days after project completion if there are no issues, the project will auto-close.

4. Project Management

This section covers how the PMO will engage with Union Sanitary District to deliver the project.

Based on project scope our project management will include the following services and deliverables:

- **Communication**
 - Project initiation call
 - Deliver project communication plan
 - Project kickoff meeting
 - Reoccurring project status meeting
- **Planning**
 - Create project schedule
 - Validate project deliverables
 - Create implementation plan
 - Schedule LookingPoint and applicable customer project resources with customer
 - Provide task list with associated dates
- **Implementation**
 - Validate schedule is maintained
 - Completion of project task list items
 - Schedule cutovers and or associated maintenance window
 - Issue tracking (as needed)
- **Closeout**
 - Provide required project documentation
 - Deliver customer completion document



5. Change Order Management

LookingPoint will establish with Union Sanitary District representative a Change Management process that will effectively control change and variations to scope, cost and time against the contractual definitions, which is the baseline for this process.

- Identify and document a change request.
- Determine the reason for change.
- Determine the cost and ownership of change.
- Agree and sign off for additional work.
- Change control covers scope, schedule, cost and quality.

No additional work will begin until the change order is approved by LookingPoint and Union Sanitary District.

6. Customer Responsibilities

- Union Sanitary District agrees to provide a suitable work area and network connectivity.
- Union Sanitary District will provide remote access to ensure work can be completed on time.
- Union Sanitary District will provide full administrative-level account access privileges to LookingPoint for use while completing this project.
- Union Sanitary District will provide access to monitoring tools and reports in order to complete any assessment work.
- Union Sanitary District will provide a site contact that we will work with to schedule work and answer questions in order to complete the project.
- Union Sanitary District will notify LookingPoint of any deployment schedule changes, failure to do so may impact resource allocation. Cancellation of onsite services without 72 hour notice will require a change order.
- Union Sanitary District will be responsible for all physical equipment installations; this includes mounting of AP's, Racking of Equipment and Network Cabling.
- Union Sanitary District will provide all required building wiring to support connectivity.
- Union Sanitary District will provide access to all required server room areas and wiring closets.
- Delays caused by Union Sanitary District's failure to meet any responsibilities specified in this Statement of Work shall be billed at an hourly rate, including travel and other expenses. This includes but not limited to site readiness. (i.e. Power, Cooling, Circuits and Server/Telco Racks)
- Union Sanitary District will provide rack or appropriate shelving to install the equipment.
- Union Sanitary District will provide screws and necessary hardware to support mounting of hardware.



- If staging for re-shipment customer will provide a staging area, where we can build equipment.
- Union Sanitary District will provide Power outlets for equipment installation. LookingPoint recommends that equipment be attached to a UPS or surge protector.
- If shipping to remote locations, customer will be responsible for all shipping arrangements and cost. LookingPoint will assist by re-boxing the hardware for shipment. LookingPoint cannot be held liable for damaged equipment.

7. Professional Services Pricing

7.1. Description of Services

For and in consideration of the mutual agreements herein set forth, the parties agree as follows:

Services. During the term of this Agreement, LookingPoint shall apply its skills and experience as applicable and necessary with regard to:

Device Configuration Services – Which may include any of the following: Router, Switch, Firewall, Load Balancer, IPS, Servers and Storage Devices.

Training Services – Which may include any of the following: Virtual, onsite or telephone based instruction, training and preparation of manuals and/or documentation specific for training purposes.

Integration Services - Which may include any of the following: Configuration and/or management of any software (including but not limited to Cisco Communications Manager, Cisco Contact Center, Cisco MARS, Cisco Wireless Controller Server, Cisco ACS and SolarWinds Orion, etc.).

Business Analysis – Which may include requirements and/or business process gathering and analysis. Additionally, the preparation of a 'Solutions Document' outlined in phases (if applicable), with recommended needs and options for implementation.

After Hours Support – After Hours support are hours outside of Monday thru Friday 7am to 7pm



7.2. Hourly Rates (Out of Scope Work)

The rates below will be applied to out of scope work and travel to areas outside of the bay area.

Service Description	Hourly Rate
Standard Hourly Rate (Monday – Friday 7am – 7pm) <i>* 4 Hour Onsite Minimum / * 2 Hour Remote Minimum</i>	250.00
After Hours Rate (Saturday, Sunday and M-F after 7pm) <i>* 8 Hour Onsite Minimum / * 2 Hour Remote Minimum</i>	300.00
Onsite Trip Charge	\$50.00

7.3. Onsite Service Locations

Union City, CA

7.4. Billing Terms

Professional services fees will be billed according to the following schedule.

- Upon receiving signed Purchase Order 25% of professional services will be billed.
- Upon Completion of staging 25% of the professional services will be billed.
- Upon Completion of cutover 25% of the professional services will be billed.
- Upon Project Completion and sign off the remaining 25% will be billed.



7.5. Project Cost

Professional Services Pricing	
Project Management	<i>Included</i>
Design Review and Staging of Equipment	<i>Included</i>
Onsite Installation, Cutover and Testing	<i>Included</i>
Configuration Review	<i>Included</i>
Final Documentation and Closeout	<i>Included</i>
Professional Services (Fixed Price):	\$56,627.00

Out of scope work will fall under the change order process defined above. LookingPoint will notify Union Sanitary District prior to performing work that falls outside of this scope.

Project Acceptance

If the terms are agreeable to Union Sanitary District initial each page and sign below. Once completed please Email or FAX this document and Company PO for the amount mentioned above.

Email: Orders@LookingPoint.com

FAX: 925-405-3847

Customer Signature _____

By _____

Title _____

Date _____

**UNION SANITARY DISTRICT
CHECK REGISTER
8/15/2015-9/04/2015**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158567	8/20/2015	20150624	SWRCB - STATE WATER RESOURCES	SRF LOAN #C064771110 - IRVINGTON PROJECT	\$908,164.05	\$908,164.05
158558	8/20/2015	013720150806	PACIFIC GAS AND ELECTRIC	SERV TO 08/05/15 BOYCE RD PS	\$2,569.99	\$809,824.36
	8/20/2015	140120150806		SERV TO 08/03/15 IRVINGTON PS	\$24.89	
	8/20/2015	170120150806		SERV TO 07/21/15 PLANT	\$781,846.01	
	8/20/2015	761520150727		SERV TO 07/27/15 NEWARK PS	\$24,463.16	
	8/20/2015	666720150731		SERV TO 07/30/15 PASEO PADRE PS	\$219.15	
	8/20/2015	096020150731		SERV TO 07/30/15 CATHODIC PROJECT	\$64.59	
	8/20/2015	380420150810		SERV TO 07/29/15 CHERRY ST PS	\$324.78	
	8/20/2015	898220150731		SERV TO 07/30/15 FREMONT PS	\$257.61	
	8/20/2015	892820150731		SERV TO 07/30/15 HAYWARD MARSH	\$54.18	
158634	8/27/2015	64003	RANGER PIPELINES INC	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$357,354.85	\$357,354.85
158611	8/27/2015	800394.12	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II	\$260,666.70	\$260,666.70
158598	8/27/2015	201303515	COVELLO GROUP INC	THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	\$41,192.30	\$78,221.30
	8/27/2015	201300829		COGENERATION PROJECT	\$1,359.50	
	8/27/2015	20150064		NEWARK BACKYRD SS RELOC PH 2 & MISC SPOT REPAIRS PHASI	\$35,669.50	
158522	8/20/2015	11525	ALAMEDA COUNTY WATER DISTRICT	COST SHARE HET REBATE PROGRAM FY14/15	\$12,037.50	\$65,412.50
	8/20/2015	11524		COST SHARE HEW REBATE PROGRAM FY14/15	\$53,375.00	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158704	9/3/2015	20310	RMC WATER AND ENVIRONMENT	IRVINGTON BASIN SEWER MASTER PLAN UPDATE	\$64,146.88	\$64,471.88
	9/3/2015	20316		ALVARADO TREATMENT PLANT SITE USE STUDY	\$325.00	
158710	9/3/2015	30103519	SYNAGRO WEST LLC	JULY 2015 BIOSOLIDS DISPOSAL	\$56,927.18	\$56,927.18
158678	9/3/2015	233711	FRANK A OLSEN COMPANY	2 ACTUATORS FOR BUILDINGS 80, 66, 51	\$33,518.28	\$33,518.28
158593	8/27/2015	143122	CAROLLO ENGINEERS	HIGH SPEED AERATION BLOWER	\$11,574.95	\$24,169.90
	8/27/2015	143087R		THICKENER CONROL BUILDING IMPROVEMENTS PHASE II	\$12,594.95	
158712	9/3/2015	31180	TJC AND ASSOCIATES INC	STEVENSON COMMUNICATION TOWER PROJECT	\$12,851.33	\$21,311.78
	9/3/2015	31239		STEVENSON COMMUNICATION TOWER PROJECT	\$8,460.45	
158573	8/20/2015	533620150722	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL CARD STMT - JULY 2015	\$20,143.16	\$20,143.16
158629	8/27/2015	201508	NICHOLAS J PEROS	SCADA MASTER PLAN & SCADA STANDARDS	\$18,930.08	\$18,930.08
158719	9/3/2015	804224	VALLEY OIL COMPANY	4,025 GALS CLEAR DIESEL & 3,873 GALS UNLEADED 10% ETHANO	\$18,684.95	\$18,684.95
158671	9/3/2015	XJR4NMKF7	DELL MARKETING LP C/O DELL USA	2 FY16 Q1 DUAL MONITOR SYSTEMS	\$4,403.78	\$16,643.64
	9/3/2015	XJR4NNMT4		6 FY16 Q1 STANDARD DESKTOPS	\$12,239.86	
158672	9/3/2015	1315773C	DELTA DENTAL SERVICE	AUGUST 2015 DENTAL	\$12,883.00	\$14,532.02
	9/3/2015	1315773A		AUGUST 2015 DENTAL	\$1,649.02	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158667	9/3/2015	21609	CLI METRICS SERVICE COMPANY	SERVICE REQUEST: IRVINGTON PS AC WALL UNIT	\$570.00	\$13,883.83
	9/3/2015	21675		SERVICE REQUEST: COMPUTER ROOM AC UNIT	\$2,433.05	
	9/3/2015	21264		SERVICE REQUEST: BLDG 90 & 81 SCREEN & FILTERS	\$4,219.00	
	9/3/2015	21669		SERVICE REQUEST: FIRST FLOOR MEN'S RESTROOM	\$1,467.66	
	9/3/2015	21721		SERVICE REQUEST: COMPRESSOR REPLACEMENT	\$5,194.12	
158612	8/27/2015	800394.12E	GSE CONSTRUCTION CO INC	THICKENER CONTROL BLDG IMPROV PHASE II - ESCROW PYMT	\$13,719.30	\$13,719.30
158600	8/27/2015	XJR644RC2	DELL MARKETING LP C/O DELL USA	1 LATITUDE E7440 - CREDIT	\$-1,577.88	\$11,524.53
	8/27/2015	XJR644RF2		1 TARGUS RUGGED MAX PRO CASE - CREDIT	\$-43.78	
	8/27/2015	XJK9WKC11		1 LATITUDE E7440 - CREDIT ISSUED 7/31/15	\$1,577.88	
	8/27/2015	XJR18JT65		2 DISPLAY PORT TO HDMI ADAPTERS	\$31.86	
	8/27/2015	XJR644WM1		1 POWER EDGE R720 - CREDIT	\$-10,168.58	
	8/27/2015	XJN8PTDK2		1 POWER EDGE R720	\$10,168.58	
	8/27/2015	XJR21XM54		2 CONFERENCE ROOM COMPUTERS	\$3,661.33	
	8/27/2015	XJR15N7X5		2 SOUND BARS FOR DELL MONITORS	\$48.49	
	8/27/2015	XJR21XK35		2 IT WORKSTATIONS	\$7,782.85	
	8/27/2015	XJK9WJ7N2		1 TARGUS RUGGED MAX PRO CASE	\$43.78	
158557	8/20/2015	000720150804	DAVID M O'HARA ATTY AT LAW	LEGAL SVCS- TRANSITION	\$3,612.00	\$11,214.00
	8/20/2015	97720150804		CIP LEGAL - JULY 2015	\$241.50	
	8/20/2015	86420150804		GENERAL LEGAL - JULY 2015	\$7,360.50	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158602	8/27/2015	902266650	EVOQUA WATER TECHNOLOGIES	23,960 LBS HYDROGEN PEROXIDE		
					\$11,174.94	\$11,174.94
158645	8/27/2015	31053	VALLEY OIL COMPANY	10 TUBES SG-100 HSI GREASE		
					\$310.20	\$10,405.59
	8/27/2015	31075		609 GALS MOBIL PEGASUS 805		
					\$10,095.39	
158533	8/20/2015	27690	CALIFORNIA WATER TECHNOLOGIES	44,320 LBS FERROUS CHLORIDE		
					\$4,393.32	\$9,040.84
	8/20/2015	27697		43,520 LBS FERROUS CHLORIDE		
					\$4,647.52	
158715	9/3/2015	700677	UNIVAR USA INC	5,028 GALS SODIUM HYPOCHLORITE		
					\$2,273.72	\$9,037.44
	9/3/2015	699745		5,028 GALS SODIUM HYPOCHLORITE		
					\$2,273.72	
	9/3/2015	700565		4,899 GALS SODIUM HYPOCHLORITE		
					\$2,215.38	
	9/3/2015	699641		5,030 GALS SODIUM HYPOCHLORITE		
					\$2,274.62	
158692	9/3/2015	2652	KOFF & ASSOCIATES	RECRUITMENT EXPENSES - BUS SERVICES MANAGER		
					\$8,992.59	\$8,992.59
158531	8/20/2015	11129816	BNA - BUREAU NATL AFFAIRS INC	BNA SUBSCRIPTION RENEWAL		
					\$7,633.00	\$7,633.00
158693	9/3/2015	37432220150901	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY INSURANCE - SEPT 2015		
					\$7,621.60	\$7,621.60
158560	8/20/2015	984604	POLYDYNE INC	41,420 LBS CLARIFLOC WE-539		
					\$7,289.92	\$7,289.92
158591	8/27/2015	5865	CAL SAN RISK MNGT AUTH	WC PAYROLL AUDIT 7/1/13-14		
					\$6,338.00	\$6,338.00
158651	9/3/2015	64217	3T EQUIPMENT COMPANY INC	10 PIPEPATCH KIT - WINTER		
					\$6,270.00	\$6,270.00
158532	8/20/2015	545124	BRENNTAG PACIFIC, INC.	1282 LBS SODIUM HYDROXIDE		
					\$1,333.60	\$6,001.21
	8/20/2015	544435		1282 LBS SODIUM HYDROXIDE		
					\$1,333.60	
	8/20/2015	545125		641 LBS SODIUM HYDROXIDE		
					\$666.80	
	8/20/2015	544434		2564 LBS SODIUM HYDROXIDE		
					\$2,667.21	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158688	9/3/2015	9713451	HILTON FARNKOPF & HOBSON LLC	SEWER SERVICE CHARGE PEER REVIEW	\$5,763.75	\$5,763.75
158578	8/27/2015	64165	3T EQUIPMENT COMPANY INC	6 PIPEPATCH KIT - WINTER & 4 ASSY CABLES	\$4,956.68	\$4,956.68
158713	9/3/2015	1501	TONY LIPKA, CONSULTANT & TRNR	HV ELECTRICAL TRAINING	\$4,750.00	\$4,750.00
158644	8/27/2015	698842	UNIVAR USA INC	5,032 GALS SODIUM HYPOCHLORITE	\$2,275.53	\$4,550.60
	8/27/2015	698121		5,031 GALS SODIUM HYPOCHLORITE	\$2,275.07	
158572	8/20/2015	697657	UNIVAR USA INC	5,029 GALS SODIUM HYPOCHLORITE	\$2,274.16	\$4,547.88
	8/20/2015	697305		5,028 GALS SODIUM HYPOCHLORITE	\$2,273.72	
158574	8/20/2015	30868	VALLEY OIL COMPANY	1 DRUM XLD 15/40 OIL & 30 TUBES ASTD GREASE	\$574.89	\$4,374.89
	8/20/2015	806386		8 DIESEL FUEL TANK FUEL TESTING	\$3,800.00	
158562	8/20/2015	150729	PROSAFE	32 HRS INSPECTIONS & 10 HRS SPCC	\$4,200.00	\$4,200.00
158555	8/20/2015	5870246	NATIONAL TECHNOLOGY TRANSFER	CENTRFUIGUAL PUMP TRNG - DUSTIN STRASBURG	\$1,349.00	\$4,047.00
	8/20/2015	5870250		CENTRFUIGUAL PUMP TRNG - ELOY SEPULVEDA	\$1,349.00	
	8/20/2015	5870242		CENTRFUIGUAL PUMP TRNG - STEVE NOEGEL	\$1,349.00	
158571	8/20/2015	15070901	UNDERGROUND SERVICE ALERT	USA ANNUAL MEMBERSHIP	\$3,975.48	\$3,975.48
158660	9/3/2015	201519	BLAKELY PICTURES INC.	USD TREATMENT PLANT VIDEO	\$3,935.00	\$3,935.00
158569	8/20/2015	130783	TOTAL WASTE SYSTEMS INC	JULY 2015 GRIT DISPOSAL	\$3,893.95	\$3,893.95
158654	9/3/2015	5122771	ALL INDUSTRIAL ELECTRIC SUPPLY	30 HEBBELL OCC SENSOR LENS	\$410.09	\$3,416.32
	9/3/2015	5122732		30 HUBBELL OCCUPANCY SENSORS WSPERMUNVIWOD	\$3,006.23	
158662	9/3/2015	7568	CATELLUS DEVELOPMENT CORP	REFUND # 18351	\$3,405.00	\$3,405.00

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158640	8/27/2015	2714	SIGNET TESTING LABS INC	NEWARK BACKYARD SS RELOCATION - PHASE 2	\$3,342.24	\$3,342.24
158550	8/20/2015	7218	AMARJIT MATHARU	REFUND # 18335	\$3,300.00	\$3,300.00
158564	8/20/2015	7677	R A MCARDLE CONTRACTING	REFUND # 18327	\$3,300.00	\$3,300.00
158590	8/27/2015	11247573	BROWN & CALDWELL CONSULTANTS	PLANT GROUNDWATER WELLS MONITORING -	\$3,216.86	\$3,216.86
158720	9/3/2015	20150901	VISION SERVICE PLAN - CA	SEPTEMBER 2015 VISION STMT	\$3,136.74	\$3,136.74
158690	9/3/2015	5	STEPHANIE HUGHES, CHE P.E.	P2 PROGRAM SUPPORT	\$3,066.00	\$3,066.00
158684	9/3/2015	1108659	GROENIGER AND COMPANY	84 FT SEWER PIPE	\$357.08	\$3,054.83
	9/3/2015	1107340		5 EA LFNP 2-1/2 - 3 DISC SSY F/DBL CHK	\$381.50	
	9/3/2015	1105724		1 EA IMPELLER	\$2,316.25	
158544	8/20/2015	20150820	HASLER INC.	POSTAGE BY PHONE - TMS 35928	\$3,000.00	\$3,000.00
158599	8/27/2015	257521	CURTIS & TOMPKINS LTD	10 LAB SAMPLE ANALYSIS	\$1,015.00	\$2,980.00
	8/27/2015	257520		20 LAB SAMPLE ANALYSIS	\$1,130.00	
	8/27/2015	257609		14 LAB SAMPLE ANALYSIS	\$835.00	
158669	9/3/2015	257705	CURTIS & TOMPKINS LTD	6 LAB SAMPLE ANALYSIS	\$395.00	\$2,980.00
	9/3/2015	257702		30 LAB SAMPLE ANALYSIS	\$2,585.00	
158695	9/3/2015	571271	MISSION CLAY PRODUCTS LLC	ASTD REPAIR COUPLINGS	\$2,964.41	\$2,964.41
158583	8/27/2015	912	AUTOMATED NETWORK CONTROLS	SCADA / PLC PROGRAMMING SERVICES	\$2,945.73	\$2,945.73
158548	8/20/2015	10966747	KRONOS INC	TIMEKEEPING SYSTEM CONFIGURATION & PROJ MGMT	\$2,880.00	\$2,880.00

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158624	8/27/2015	37567201	MCMASTER SUPPLY INC	5 EA PLASTIC GUARD WITH FILTER	\$22.59	\$2,716.22
	8/27/2015	37040241		1 EA EXTENDED-LIFE SEALED LEAD-ACID BATTERY	\$49.23	
	8/27/2015	37594976		ASTD PARTS & MATERIALS	\$905.28	
	8/27/2015	37382521		ASTD PARTS & MATERIALS	\$325.59	
	8/27/2015	37480312		1 EA POWER-SAVING TIMER SWITCH	\$142.87	
	8/27/2015	37519594		ASTD PARTS & MATERIALS	\$665.18	
	8/27/2015	37362409		ASTD PARTS & MATERIALS	\$61.44	
	8/27/2015	37371859		ASTD PARTS & MATERIALS	\$42.73	
	8/27/2015	36957150		ASTD PARTS & MATERIALS	\$322.74	
	8/27/2015	37175093		ASTD PARTS & MATERIALS	\$178.57	
158619	8/27/2015	7653	D R HORTON	REFUND # 18346	\$2,500.00	\$2,500.00
158722	9/3/2015	34619	WECO INDUSTRIES LLC	REPAIR OF OZIII CAMERA	\$2,438.77	\$2,438.77
158628	8/27/2015	XCTZOOT	PACHECO BROTHERS GARDENING INC	WEED ABATEMENT WORK AUGUST 2015	\$915.00	\$2,280.00
	8/27/2015	XCTZOOS		LANDSCAPE MAINTENANCE SERVICES AUGUST 2015	\$1,365.00	
158596	8/27/2015	29311	COLANTUONO HIGHSMITH & WHATLEY	PROP 218 ADVICE	\$2,220.00	\$2,220.00
158592	8/27/2015	3061	CAL SAN RISK MNGT AUTH	CLAIM: STAR ROOTER & PLUMBING FILE #1906613	\$1,041.50	\$2,201.95
	8/27/2015	3038		CLAIM: WHITMAN FILE #1896332	\$1,160.45	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158633	8/27/2015	239084	PRESTIGE LENS LAB	SAFETY GLASSES - HUGHES	\$250.76	\$2,065.21
	8/27/2015	239087		SAFETY GLASSES - CHAPARRO	\$272.66	
	8/27/2015	239163		SAFETY GLASSES - SEO	\$211.34	
	8/27/2015	239105		SAFETY GLASSES - FANG	\$211.34	
	8/27/2015	239049		SAFETY GLASSES - NOEGEL	\$305.51	
	8/27/2015	239051		SAFETY GLASSES - GRABOWSKI	\$272.66	
	8/27/2015	239041		VDT GLASSES - LI	\$268.28	
	8/27/2015	239001		SAFETY GLASSES - CULBERTSON	\$272.66	
158589	8/27/2015	547438	BRENNTAG PACIFIC, INC.	1923 LBS SODIUM HYDROXIDE	\$2,000.41	\$2,000.41
158559	8/20/2015	240125013	PETERSON TRACTOR CO	TROUBLESHOOT FUEL PRIMING PUMP IRVINGTON PUMP STATION	\$1,710.02	\$1,710.02
158708	9/3/2015	20150826	RICHARD SCOBEE	EXP REIMB: ESRI USER CONFERENCE	\$1,665.88	\$1,665.88
158570	8/20/2015	180797415	TRENCH PLATE RENTAL COMPANY	28 DAYS TRENCH PLATE & EYEBOLT RENTAL	\$1,642.80	\$1,642.80
158697	9/3/2015	71593	NCC GROUP SECURITY SERVICE LTD	LICENSE RENEWAL NGSSQUIRREL	\$1,610.00	\$1,610.00
158534	8/20/2015	50754	COKER PUMP AND EQUIPMENT	1 POLYMER ECO-GEARCHEM PUMP	\$1,588.10	\$1,588.10
158621	8/27/2015	20150821	CONGNA LI	EXP REIMB: REGIS FEE FOR BIOWIN WASTEWATER MODELING T	\$1,550.00	\$1,550.00
158579	8/27/2015	9042174843	AIRGAS NCN	2 CYL ARGON	\$422.37	\$1,525.84
	8/27/2015	9929116307		CYLINDER RENTAL	\$848.82	
	8/27/2015	9042035191		ASTD PARTS & MATERIALS	\$254.65	

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Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158536	8/20/2015	257495	CURTIS & TOMPKINS LTD	16 LAB SAMPLE ANALYSIS	\$455.00	\$1,420.00
	8/20/2015	257471		17 LAB SAMPLE ANALYSIS	\$965.00	
158537	8/20/2015	20150725.25	DALE HARDWARE INC	07/15 - ASTD PARTS & MATERIALS	\$1,366.33	\$1,366.33
158616	8/27/2015	312775	HARRINGTON INDUSTRIAL PLASTICS	SOCKET FUSION RENTAL MACHINE HARRINGTON	\$1,364.00	\$1,364.00
158539	8/20/2015	206936	FERGUSON WELDING SERVICE INC	2 20" PIPES 150 LB CLASS D PLATE	\$1,320.00	\$1,320.00
158530	8/20/2015	10840800	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$65.96	\$1,304.94
	8/20/2015	10836500		SIT/STAND WORKSTATIONS FOR PAUL & ZEKE	\$1,238.98	
158714	9/3/2015	20150831	KIM TRUONG	COMPUTER NOTE	\$1,300.73	\$1,300.73
158685	9/3/2015	1594638	HANSON AGGREGATES INC	11.09 TONS 1/2 MED TYPE A AC-R	\$833.97	\$1,282.24
	9/3/2015	1595080		5.91 TONS 1/2 MED TYPE A AC-R	\$448.27	
158626	8/27/2015	468436800	NEW PIG CORPORATION	40 BAGS RECYCLED RAGS	\$1,248.95	\$1,248.95
158680	9/3/2015	20150827	SAMI GHOSAIN	REIMB EXPS: CASA CONF - AIRFARE/LODGING/MEALS/PRKING/TA	\$1,211.75	\$1,211.75
158582	8/27/2015	6608278205	AT&T	SERV: 08/10/15 - 09/09/15	\$1,178.56	\$1,178.56
158620	8/27/2015	9109	IRON MOUNTAIN	OFF-SITE STORAGE AND SERVICE - JULY 2015	\$642.59	\$1,171.57
	8/27/2015	403		OFF-SITE STORAGE AND SERVICE - JULY 2015	\$292.55	
	8/27/2015	200703495		DATA/MEDIA OFF-SITE STORAGE - JULY 2015	\$236.43	
158617	8/27/2015	HSI0000001	HEE ENVIRONMENTAL ENG LLC	10 EA ISOLATOR SPRINGS	\$1,147.92	\$1,147.92
158610	8/27/2015	1103236	GROENIGER AND COMPANY	84 FEET OF PIPE	\$549.36	\$1,143.41
	8/27/2015	1105766		1 EA LF 2 BRZ RED PRES BFP	\$594.05	

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158705	9/3/2015	7584101300	RS HUGHES CO INC	ASTD PPE & SAFETY SUPPLIES	\$1,089.41	\$1,089.41
158709	9/3/2015	20150831	JOHN SEO	EXP REIMB: FILAMENT ID CLASS - LODGING/MEALS/AIRFARE	\$1,083.10	\$1,083.10
158639	8/27/2015	8122768081315	SIERRA SPRING WATER COMPANY	BOTTLESS COOLERS RENTAL	\$239.00	\$1,080.53
	8/27/2015	4868173081315		WATER SERVICE 07/17/15 - 08/13/15	\$841.53	
158648	8/27/2015	34620	WECO INDUSTRIES LLC	1 Y ELIMINATOR, S/C, P&T, FLAT, SHORTY	\$328.59	\$1,086.24
	8/27/2015	34621		REPAIR CUES TV TRUCK RC	\$737.65	
158595	8/27/2015	50933	COKER PUMP AND EQUIPMENT	1 LIQUIFLO REPAIR KIT	\$973.30	\$973.30
158568	8/20/2015	696052200	TELEPACIFIC COMMUNICATIONS	WIRELESS INTERNET BACKUP - AUGUST	\$960.00	\$960.00
158552	8/20/2015	36650187	MCMaster SUPPLY INC	50 FEET HIGH-PRESSURE PVC TUBING	\$141.67	\$959.81
	8/20/2015	37001714		2 EA CAM & GROOVE HOSE COUPLINGS	\$54.70	
	8/20/2015	36728981		ASTD PARTS & MATERIALS	\$748.48	
	8/20/2015	37001715		1 EA V-BELT	\$14.96	
158556	8/20/2015	10902201	CITY OF NEWARK	ENCROACHMENT PERMITS - ZULMIDA AVE. - NEWARK	\$950.00	\$950.00
158683	9/3/2015	9802717117	GRAINGER INC	2 EA EYE/FACEWASH HEADS	\$78.85	\$946.45
	9/3/2015	9801851925		1 EA LOW HEADROOM CHAIN HOIST	\$529.68	
	9/3/2015	9797652212		ASTD PARTS & MATERIALS	\$337.92	
158535	8/20/2015	20150728	COMMUNICATION & CONTROL INC	UTILITY FEE/ANTENNA RENTAL	\$938.65	\$938.65

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158609	8/27/2015	9792945900	GRAINGER INC	10 EA MINIATURE LAMPS	\$62.48	\$928.97
	8/27/2015	9793768384		ASTD PARTS & MATERIALS	\$90.11	
	8/27/2015	9793273625		10 PAIRS ASTD INSOLES	\$213.62	
	8/27/2015	9796641042		10 EA HYDROCHLORIC ACID	\$141.91	
	8/27/2015	9793273617		1 ADJUSTABLE WRENCH	\$9.29	
	8/27/2015	9793349318		ASTD SAFETY SUPPLIES	\$346.22	
	8/27/2015	9795299719		1 EA PRESSURE GAUGE	\$65.34	
158721	9/3/2015	8042173826	VWR INTERNATIONAL LLC	12 PKS FILTER GLASS FIBR 4.25CM	\$806.92	\$921.96
	9/3/2015	8042179743		1 RACK TEST TUBE PC 24X25 30MM	\$115.04	
158580	8/27/2015	5121986	ALL INDUSTRIAL ELECTRIC SUPPLY	1 CIMR-VU4A0011FAA YASKAWA V1000 AC DRV	\$911.48	\$911.48
158661	9/3/2015	333335	CALTROL INC	2 HIGH PRESSURE GAUGES	\$857.02	\$857.02
158524	8/20/2015	20150710	AMAZON.COM LLC	07/15 - ASTD OFFICE SUPPLIES	\$853.35	\$853.35

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158679	9/3/2015	1083716485	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$126.52	\$826.70
	9/3/2015	1083716488		UNIFORM LAUNDERING SERVICE	\$27.17	
	9/3/2015	1083716486		UNIFORM LAUNDERING SERVICE	\$95.98	
	9/3/2015	1083716487		UNIFORM LAUNDERING SERVICE	\$116.06	
	9/3/2015	1083716489		UNIFORM LAUNDERING SERVICE	\$15.16	
	9/3/2015	1083714518		UNIFORM LAUNDERING SERVICE	\$348.95	
	9/3/2015	1083716491		UNIFORM LAUNDERING SERVICE	\$11.20	
	9/3/2015	1083716492		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$26.44	
	9/3/2015	1083716490		UNIFORMS AND MATS	\$59.22	
					\$76.12	
158613	8/27/2015	9504845	HACH COMPANY	ASTD SAMPLING SUPPLIES		\$825.10
	8/27/2015	9508049		1 EA EZ COD RECYCLING KIT, 20-GAL	\$748.98	
158652	9/3/2015	4124752	ADLER TANK RENTALS	ADLER TANK RENTAL	\$818.40	\$818.40

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158540	8/20/2015	1083712573	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$126.12	\$814.32
	8/20/2015	93620986		11 EA POLO SHIRTS - M HOVEY	\$330.16	
	8/20/2015	1083712574		UNIFORM LAUNDERING SERVICE	\$128.36	
	8/20/2015	1083712578		UNIFORMS AND MATS	\$59.22	
	8/20/2015	1083712575		UNIFORM LAUNDERING SERVICE	\$90.49	
	8/20/2015	1083712580		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$26.44	
	8/20/2015	1083712577		UNIFORM LAUNDERING SERVICE	\$15.16	
	8/20/2015	1083712579		UNIFORM LAUNDERING SERVICE	\$11.20	
	8/20/2015	1083712576		UNIFORM LAUNDERING SERVICE	\$27.17	
158561	8/20/2015	7537	PRO ROOTER	REFUND # 18337	\$800.00	\$800.00
158638	8/27/2015	305642	SEW-EURODRIVE INC	1 GEARBOX & MOTOR UNIT	\$785.78	\$785.78
158674	9/3/2015	20150901	PAUL ELDREDGE	TRAVEL REIMB: CASA MEAL/AIR FARE/PARKING	\$747.31	\$747.31
158576	8/20/2015	32711	VOX NETWORK SOLUTIONS INC	TROUBLESHOOT EXTENSION	\$720.00	\$720.00
158603	8/27/2015	9648	FREMONT EXPRESS COURIER SVC	COURIER SERVICES: JUNE 2015 DAILY MAIL/2 BOARDMEMBER DE	\$720.00	\$720.00
158546	8/20/2015	63053514	HOLIDAY INN EXP & STE CAL-EXPO	PREPAY LODGING NOEGEL, 10/20 - 10/22/15	\$234.60	\$703.80
	8/20/2015	63054825		PREPAY LODGING SEPULVEDA, 10/20 - 10/22/15	\$234.60	
	8/20/2015	63051638		PREPAY LODGING STRASBURG, 10/20 - 10/22/15	\$234.60	

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158694	9/3/2015	37761533	MCMASTER SUPPLY INC	ASTD PARTS & MATERIALS		
					\$36.89	\$690.41
	9/3/2015	37865069		1 EA HARD CHAIN & PADLOCK CUTTER		
					\$300.33	
	9/3/2015	37894657		ASTD PARTS & MATERIALS		
					\$254.28	
	9/3/2015	37666365		ASTD PARTS & MATERIALS		
					\$98.91	
158614	8/27/2015	259026	HANIGAN COMPANY INC	70 PACKS DISTRICT LETTERHEAD		
					\$651.22	\$689.69
	8/27/2015	259061		1 LOT - BUSINESS CARDS - TOLBERT		
					\$38.47	
158636	8/27/2015	1201644	ROCHESTER MIDLAND CORPORATION	HOT WATER LOOP SERVICE		
					\$689.03	\$689.03
158647	8/27/2015	306013	WATSON-MARLOW INC	1 HOSE - EPDM FOR BREDEL 400		
					\$677.07	\$677.07
158686	9/3/2015	316539	HARRINGTON INDUSTRIAL PLASTICS	2 EA VALVE SPRINGS		
					\$652.02	\$652.02
158528	8/20/2015	16507	BAY COUNTIES DIESEL SERVICE	TEST AND CLEAN DPF UNITS		
					\$312.64	\$625.28
	8/20/2015	16466		TEST AND CLEAN DPF UNITS		
					\$312.64	
158585	8/27/2015	16575	BAY COUNTIES DIESEL SERVICE	TEST AND CLEAN DPF UNITS		
					\$312.64	\$625.28
	8/27/2015	16536		TEST AND CLEAN DPF UNITS		
					\$312.64	
158666	9/3/2015	35671	CLAREMONT BEHAVIORAL SERVICES	SEP 2015 EAP PREMIUM		
					\$616.40	\$616.40
158615	8/27/2015	1592303	HANSON AGGREGATES INC	3/4 MED TYPE A AC-R		
					\$598.66	\$598.66
158584	8/27/2015	320308	BAY AREA BARRICADE SERVICE INC	3 CS MARKING PAINT/MARKER POSTS		
					\$141.91	\$585.01
	8/27/2015	320126		100 PAVEMENT MARKERS GREEN/100 5X5 HOT SPOT		
					\$443.10	
158625	8/27/2015	150846	METROMOBILE COMMUNICATIONS INC	ANNUAL RADIO SERVICE - AUG 2015		
					\$582.75	\$582.75
158655	9/3/2015	5081351	ALPHA ANALYTICAL LABORATORIES	17 LAB SAMPLE ANALYSIS		
					\$570.00	\$570.00

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158650	8/27/2015	80736472	XEROX CORPORATION	MTHLY MAINTENANCE BASED ON USE		
					\$83.62	\$557.76
	8/27/2015	80736469		MTHLY MAINTENANCE BASED ON USE		
					\$17.54	
	8/27/2015	80736470		MTHLY MAINTENANCE BASED ON USE		
					\$21.05	
	8/27/2015	80736468		MTHLY MAINTENANCE BASED ON USE		
					\$435.55	
158538	8/20/2015	7152	EUROFINS AIR TOXICS INC	2 LAB SAMPLE ANALYSIS		
					\$550.00	\$550.00
158706	9/3/2015	85340220150824	SAN FRANCISCO WATER DEPT	SERVICE 07/23/15 TO 08/21/15		
					\$517.08	\$517.08
158711	9/3/2015	151739	TECHNICAL SAFETY SERVICES INC	FUME HOOD CERTIFICATION & ALARM CALIBRATION		
					\$510.00	\$510.00
158566	8/20/2015	7949	STREAMLINE PLUMBING & DRAIN	REFUND # 18328		
					\$500.00	\$500.00
158622	8/27/2015	11672	LOOKINGPOINT INC	MONTHLY PREMIER SERVICE - AUG 2015		
					\$500.00	\$500.00
158553	8/20/2015	780899	MOBILE MODULAR MANAGEMENT CORP	FMC TRAILER RENTAL - AUG 2015		
					\$493.90	\$493.90
158627	8/27/2015	30207706	OLDCASTLE ENCLOSURE SYSTEMS	3 EA STARTER SHAFTS		
					\$492.75	\$492.75
158649	8/27/2015	25247	WILEY PRICE & RADULOVICH LLP	LABOR & EMPLOYMENT LAW FEES		
					\$487.50	\$487.50
158581	8/27/2015	1734566	ANALYSTS, INC.	18 LAB SAMPLE ANALYSIS		
					\$453.10	\$453.10
158525	8/20/2015	13726991	APPLEONE EMPLOYMENT SVCS	TEMP LABOR-QUINTANA, D., WK END 07/25/15		
					\$451.58	\$451.58
158601	8/27/2015	1158	ELITE ANALYTICAL LABORATORIES	3 LAB SAMPLE ANALYSIS		
					\$450.00	\$450.00
158594	8/27/2015	50789	CITYLEAF INC	PLANT MAINTENANCE - AUG 2015		
					\$429.65	\$429.65

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158657	9/3/2015	801083	BARNETT MEDICAL SERVICES LLC	150 LBS PHARMACEUTICAL WASTE REMOVAL		\$425.00
	9/3/2015	801730		50 LBS PHARMACEUTICAL WASTE REMOVAL	\$170.00	
	9/3/2015	801437		80 LBS PHARMACEUTICAL WASTE REMOVAL	\$85.00	
	9/3/2015	800818		80 LBS PHARMACEUTICAL WASTE REMOVAL	\$85.00	
	9/3/2015	800818		80 LBS PHARMACEUTICAL WASTE REMOVAL	\$85.00	
158646	8/27/2015	8042131181	VWR INTERNATIONAL LLC	2 BATTERY LITH 2032 3V	\$9.39	\$392.63
	8/27/2015	8042100461		6 PKS PH PAPER PANEPHA 0.1-14	\$183.55	
	8/27/2015	8042099671		1 CS MEDICINE CUP PP 1OZ	\$100.69	
	8/27/2015	8042099672		3 BDH BUFFER REF STD PH4 RED 4L	\$99.00	
	8/27/2015	8042099672		3 BDH BUFFER REF STD PH4 RED 4L	\$99.00	
158527	8/20/2015	897121	BAY AREA NEWS GROUP EAST BAY	ADS: LEGAL NOTICES FOR FY16 SEWER SERVICE CHARGE	\$356.85	\$356.85
158607	8/27/2015	1083714517	G&K SERVICES CO	UNIFORM LAUNDERING SERVICE	\$126.52	\$356.20
	8/27/2015	1083714521		UNIFORM LAUNDERING SERVICE	\$15.16	
	8/27/2015	1083714523		UNIFORM LAUNDERING SERVICE	\$11.20	
	8/27/2015	1083714522		UNIFORMS AND MATS	\$59.22	
	8/27/2015	1083714520		UNIFORM LAUNDERING SERVICE	\$27.17	
	8/27/2015	1083714519		UNIFORM LAUNDERING SERVICE	\$90.49	
	8/27/2015	1083714524		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$26.44	
	8/27/2015	1083714524		ASTD DUST MOPS, WET MOPS & TERRY TOWELS	\$26.44	
158545	8/20/2015	601704416	HILLYARD/SAN FRANCISCO	6 CS PAPER TOWELS & 1 CS FACIAL TISSUE	\$353.49	\$353.49
158642	8/27/2015	20062	STARLINE SUPPLY COMPANY	7 CS COMPOSTABLE UTENSILS	\$350.91	\$350.91
158668	9/3/2015	5164284	CORT	OFFICE FURNITURE RENTAL FOR J. BERZON	\$348.99	\$348.99

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158663	9/3/2015	30840	CDW GOVERNMENT LLC	RSA SECURITY ANNUAL MAINTENANCE		
					\$345.60	\$345.60
158529	8/20/2015	71553	BEECHER ENGINEERING	STANDBY POWER SYSTEM UPGRADE		
					\$340.00	\$340.00
158618	8/27/2015	601714800	HILLYARD/SAN FRANCISCO	ASTD JANITORIAL SUPPLIES		
					\$155.07	\$327.86
	8/27/2015	601714799		1 CASE PAPER PLATES		
					\$172.79	
158658	9/3/2015	16590	BAY COUNTIES DIESEL SERVICE	TEST AND CLEAN DPF UNITS		
					\$312.64	\$312.64
158630	8/27/2015	20150826	PIPE USERS GROUP	SEMINAR REGISTRATION: CHIU & BAILE		
					\$300.00	\$300.00
158681	9/3/2015	1182521805	GLACIER ICE COMPANY INC	192 EA 7-LB BAGS OF ICE		
					\$266.88	\$266.88
158632	8/27/2015	110513	PREFERRED ALLIANCE INC	JULY 2015 SERVICE FEE		
					\$257.40	\$257.40
158682	9/3/2015	78710	GORILLA METALS	METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$134.32	\$240.01
	9/3/2015	78713		ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$34.23	
	9/3/2015	78721		ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$71.46	
158687	9/3/2015	601724581	HILLYARD/SAN FRANCISCO	12 EA ARSENAL NON-ACID R DISINF CLNR		
					\$237.87	\$237.87
158696	9/3/2015	24849537	MOTION INDUSTRIES INC	1 EA HOT WATER 3-WAY VALVE PACKING		
					\$85.51	\$225.78
	9/3/2015	24849661		2 EA HI-POWER V BELTS		
					\$19.21	
	9/3/2015	24849898		2 EA BALL BEARINGS		
					\$121.06	
158675	9/3/2015	902281303	EVOQUA WATER TECHNOLOGIES	DI WATER SYSTEM		
					\$223.00	\$223.00
158670	9/3/2015	201908.10	DALE HARDWARE INC	08/15 - ASTD PARTS & MATERIALS		
					\$216.79	\$216.79
158586	8/27/2015	18134100	BECK'S SHOES	SAFETY SHOES: A. PAREDES		
					\$208.00	\$208.00
158701	9/3/2015	20154501	QUICK SPACE RENTALS	GUARD BOOTH RENTAL AUGUST 2015		
					\$192.50	\$192.50

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158587	8/27/2015	20150825	JUDI BERZON	EXP REIMB: LODGING FOR CFO RECRUITMENT PANEL MEMBER	\$141.00	\$191.86
	8/27/2015	20150825.1		EXP REIMB: SNACKS FOR 4 QAI PANELS	\$50.86	
158716	9/3/2015	25190706	UPS - UNITED PARCEL SERVICE	FREIGHT FOR PIPE	\$190.95	\$190.95
158543	8/20/2015	9785594186	GRAINGER INC	1 EA SCREWDRIVER	\$2.00	\$182.00
	8/20/2015	9790750252		1 EA SERVICE CORD	\$180.00	
158703	9/3/2015	275462	RKI INSTRUMENTS INC	2 SENSOR, OXYGEN, OS-BM2	\$181.50	\$181.50
158521	8/20/2015	9041886165	AIRGAS NCN	WELDING TORCH REPAIR	\$179.40	\$179.40
158643	8/27/2015	180807815	TRENCH PLATE RENTAL COMPANY	7 DAYS HD QUIK-SHOR RENTAL	\$166.80	\$166.80
158637	8/27/2015	20150824	JAMES SCHOFIELD	EXP REIMB: 2015 NRTC EARLY BIRD MEMBER WEDNESDAY ONLY	\$160.00	\$160.00
158631	8/27/2015	20150824	RIC PIPKIN	EXP REIMB: FY15 4TH QUARTER SAFETY RECOGNITION	\$152.40	\$152.40
158526	8/20/2015	114863	ARISTA BUSINESS IMAGING	SERVICE CALL: HEW - HEWD3L09A	\$150.00	\$150.00
158541	8/20/2015	17442120150709	GFOA-GOV FIN OFFICERS ASSOC	MEMBERSHIP RENEWAL - KULL	\$150.00	\$150.00
158635	8/27/2015	8011	RESCUE ROOTER	REFUND # 18347	\$150.00	\$150.00
158699	9/3/2015	20150827	CHRIS PACHMAYER	EXP REIMB: NFPA 705 SAFETY TRAINING, MILEAGE/PARKING	\$144.52	\$144.52
158563	8/20/2015	72427631	R & S ERECTION OF S ALAMEDA	PM SERVICE ON ALL GATES	\$139.25	\$139.25
158565	8/20/2015	20150814	THERESA RODRIGUEZ	EXP REIMB: RETIREMENT PARTY - DAVID LEATH	\$139.02	\$139.02
158659	9/3/2015	10857670	BLAISDELL'S	1 P/OUT FORM 4P 5X11	\$137.45	\$137.45

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158588	8/27/2015	10836501	BLAISDELL'S	2 TALL USER KITS		
					\$77.00	\$137.32
	8/27/2015	10851030		ASTD OFFICE SUPPLIES		
					\$35.09	
	8/27/2015	10852870		ASTD OFFICE SUPPLIES		
					\$25.23	
158677	9/3/2015	19886	FASTENAL	ASTD PARTS & MATERIALS		
					\$135.68	\$135.68
158641	8/27/2015	20150825.2	JENNIFER SIO-KWOK	EXP REIMB: LUNCH CSWI HIRING INTERVIEW & TOUR HELPERS		
					\$91.97	\$129.12
	8/27/2015	20150825.1		EXP REIMB: SODA & CHIPS FOR RECRUITMENTS		
					\$37.15	
158698	9/3/2015	10932637	CITY OF NEWARK	ANNUAL FIRE PERMIT - NEWARK PS - HICKORY		
					\$125.00	\$125.00
158702	9/3/2015	75085	REMOTE SATELLITE SYSTEMS INT'L	IRIDIUM SVC FEE SEPTEMBER 2015		
					\$97.90	\$97.90
158551	8/20/2015	20150817	REGINA MCEVOY	EXP REIMB: LUNCH FOR EXEC TEAM DEBRIEFING - CFO/BS MGR		
					\$95.00	\$95.00
158608	8/27/2015	20150825	MOHAMMAD GHOURY	EXP REIMB: ALT COMP RECOG EVENT SNACKS		
					\$92.90	\$92.90
158549	8/20/2015	20150819	SCOTT MARTIN	EXP REIMB: FOOD FOR DAVID LEATH'S RETIREMENT PARTY		
					\$91.01	\$91.01
158606	8/27/2015	227709	CITY OF FREMONT	MISC SPOT REPAIRS PHASE VI		
					\$89.31	\$89.31
158577	8/20/2015	8042024817	VWR INTERNATIONAL LLC	2 PKS INDICATOR BIO B/T SURE STR		
					\$86.28	\$86.28
158604	8/27/2015	17369	FREMONT RECYCLING & TRANSFER	.75 TON GREEN WASTE		
					\$68.09	\$68.09
158542	8/20/2015	78609	GORILLA METALS	ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$29.94	\$64.59
	8/20/2015	78641		ASTD METAL, STEEL, STAINLESS, AND ALUMINUM		
					\$34.65	
158700	9/3/2015	239092	PRESTIGE LENS LAB	SAFETY GLASSES (FRAME REPAIR) - MARTIN, S		
					\$60.23	\$60.23
158673	9/3/2015	615320150818	DISH NETWORK	SEP 2015 - SERVICE FEE		
					\$50.90	\$50.90
158597	8/27/2015	9324169	COLE-PARMER INSTRUMENTS	2 CPC QUICK DISCONNECT COUPLINGS		
					\$46.71	\$46.71

**UNION SANITARY DISTRICT
CHECK REGISTER
8/15/2015-9/04/2015**

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
158523	8/20/2015	4047286120150805	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 08/04/15 - PASEO PADRE		
					\$41.54	\$41.54
158623	8/27/2015	77776849	MATHESON TRI-GAS INC	CYLINDER RENTAL - JULY 2015		
					\$35.13	\$35.13
158547	8/20/2015	5551897	HOSE & FITTINGS ETC	ASTD PARTS & MATERIALS		
					\$34.95	\$34.95
158689	9/3/2015	5554918	HOSE & FITTINGS ETC	4 EA 82 SER - M NPTF PIPE RIGID		
					\$31.36	\$31.36
158605	8/27/2015	116523354	FREMONT URGENT CARE CENTER	1 HEARING TEST		
					\$29.00	\$29.00
158656	9/3/2015	7005829788	APPLIED INDUSTRIAL TECHNOLOGIE	2 CONTINENTAL A63 HY-T PLUS		
					\$28.16	\$28.16
158691	9/3/2015	524249	HULBERT LUMBER SUPPLY	ASTD LUMBER SUPPLIES		
					\$25.31	\$25.31
158665	9/3/2015	446199	CENTERVILLE SAW AND TOOL	2 SHARPEN AND RETOOTH		
					\$25.00	\$25.00
158676	9/3/2015	145174	EXAMINETICS	1 EA HEARING TESTS		
					\$24.75	\$24.75
158664	9/3/2015	282849	CENTERVILLE LOCKSMITH	8 SCHLAGE DND KEY BLANKS		
					\$14.45	\$23.48
	9/3/2015	282740		5 SCHLAGE DND KEY BLANKS		
					\$9.03	
158653	9/3/2015	9042359890	AIRGAS NCN	ASTD PARTS & MATERIALS		
					\$18.92	\$18.92
158707	9/3/2015	1665563004	SAN LEANDRO ELECTRIC SUPPLY	3 STRAIN RELIEF 1/2 NPT CABLE RANGE .125-.375		
					\$17.40	\$17.40
158554	8/20/2015	24848598	MOTION INDUSTRIES INC	2 EA METRIC OIL SEALS		
					\$15.08	\$15.08
158575	8/20/2015	9749827033	VERIZON WIRELESS	WIRELESS SERV 07/02/15-08/01/15		
					\$14.04	\$14.04
158717	9/3/2015	1048724559	UPS - UNITED PARCEL SERVICE	FREIGHT FOR CH4 WIDE TEMPERATURE SENSOR		
					\$13.66	\$13.66
158718	9/3/2015	9853325.0	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 08/08/15		
					\$13.39	\$13.39

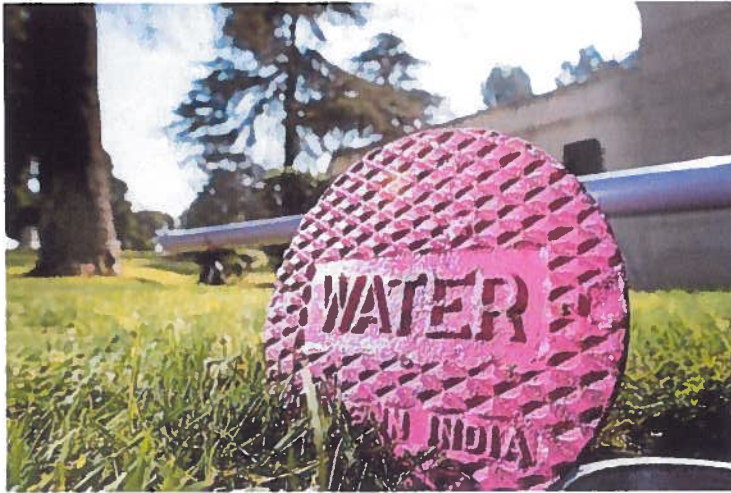
CHECK REGISTER
8/15/2015-9/04/2015

Check No.	Date	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
Invoices:				Checks:		
Credit Memos :		3	-11,790.24		113	42,412.08
\$0 - \$1,000 :		234	63,000.69	\$0 - \$1,000 :	67	214,702.84
\$1,000 - \$10,000 :		84	252,381.39	\$1,000 - \$10,000 :	18	504,888.86
\$10,000 - \$100,000 :		20	486,390.29	\$10,000 - \$100,000 :	4	2,336,009.96
Over \$100,000 :		4	2,308,031.61	Over \$100,000 :	202	3,098,013.74
Total:		345	3,098,013.74	Total:		

Rose Hills cemetery — largest in nation — will use 100 percent recycled water

By Steve Scauzillo , San Gabriel Valley Tribune

sgvtribune.com



Officials turn the purple wrench, indicating recycled water, to open the recycled water flow during Rose Hills Memorial Park's ground-breaking ceremony for the final phase of its recycled water project Aug. 19, 2015. When the project is completed at the end of 2105, Rose Hills, the largest memorial park in the world, will use recycled water for 100% of its irrigation and landscaping at the Whittier, Calif. facility. (Photo by Leo Jarzomb/Whittier Daily News)

WHITTIER >> Half a million people rest eternally under 700 acres of Rose Hills Memorial Park, the largest cemetery in the United States. Just keeping the grass green — a business priority — once required 293 million gallons of potable water a year, as much used in several cities.

On Wednesday, the cemetery put an end to irrigating lawns with drinking water. Thanks to a change in state law prompted by the drought, Rose Hills will use 100 percent recycled water on its sprawling grounds and in decorative fountains by the end of the year, saving enough drinking water for 2,000 to 3,000 homes.

The all-recycling effort began 23 years ago, when the cemetery signed an agreement with the nearby Los Angeles County Sanitation Districts to bring waste water treated to advanced levels up the hill in a separate delivery system of “purple pipes.” In the last decade, the meandering cemetery along the base of the Puente Hills pushed ahead and will go from using 60 percent reclaimed water to 100 percent after construction is completed on the final phase located within the cemetery’s original, 101-year-old section.

The latest phase — about 30 percent of the memorial park’s footprint — will cost \$1 million, paid for in part by grants from the Metropolitan Water District of Southern California.

“It is a better use of resources to help and assist cemeteries to use 100 percent reclaimed water,” summarized Kent Woods, senior managing director of Service Corporation International, the publicly-traded parent company and owner of several other cemeteries in Southern California.

The vast burial ground and mortuary contains the largest concentration of pipes delivering recycled water in the nation, said Shane Chapman, general manager of the Monrovia-based

Upper San Gabriel Valley Municipal Water District, the agency that is helping them reach that milestone.

Building a separate system of purple pipes took time and money. But when it came to the last 400 acres of the 1,400-acre cemetery, existing burial plots dating back to 1913 and one of the oldest mausoleums in California made it next to impossible to re-plumb for reclaimed water.

Instead, Assemblyman Jimmy Gomez wrote a bill signed by Gov. Jerry Brown in 2013 that allowed cemeteries to use existing irrigation pipes, sprinklers and hose bibs to carry the highly treated reclaimed water. Signs must warn the public that reclaimed water from the hose bibs is not for drinking.

Bruce Lazenby, executive director of business development at Rose Hills, pushed for the legislation for 10 years, eventually opening new ground for recycled water. He's been invited by the California Department of Consumer Affairs to share the Rose Hills model with other cemeteries in the state attempting to meet the governor's mandatory 25 percent water cutback.

Woods said some of the Forest Lawn cemeteries are using reclaimed water. Also, one of SCI's properties, Valley Oaks in Thousand Oaks, has converted to 100 percent recycled water.

"I hope this model is established now," Lazenby said. "We are trying to do good public policy. Using drinking water for watering golf courses and cemeteries is a waste of resources."

Woods said as the cemetery expands in the newer section near Gate 1, that includes extending reclaimed water pipes for irrigation.

"This system will be available for all those future droughts," said Ann Terese Heil, monitoring section head for the Sanitation Districts.

Reach the author at Steve.Scauzillo@sgvn.com or follow Steve on Twitter: [@stevscaz](https://twitter.com/stevscaz).

A guide to the drought's new shower standards

New water rules for you and your bathroom

By Karla Peterson | 5:27 p.m. Aug. 20, 2015 | Updated, 10:22 a.m. | Aug. 21, 2015

How low-flow can we go? In California's ongoing game of water-saving limbo, the bar just dropped another notch. But you won't have to bend over backward to play along.

Last week, the [California Energy Commission](#) approved new standards for showerheads that would reduce the amount of water flowing out of your shower to 2.0 gallons per minute, with a water pressure of 80 pounds per square inch. That is down from the state's previous requirements of 2.5 gallons per minute. The new standards apply to all fixed and handheld showerheads and horizontal body sprayers manufactured on or after July 1, 2016.

This means that if you want (or need) to replace your showerhead after that date, there will be nothing but approved showerheads available in stores. It does not mean that you have to do anything now, but Energy Commissioner Andrew McAllister is betting you might want to.

"Showerheads are a double-whammy in terms of positive impact," McAllister said. "Not only are you saving water, which is a precious resource, you are also saving the energy used to heat the water. Most of us like a hot shower, so this is a double impact in terms of your water bill and your energy bill."

The showerhead standards will change again on July 1, 2018, when they will drop to a maximum flow rate of 1.8 gallons per minute, which will be the strictest standards in the country.

All of this whittling is in response to the California drought, which is now in its fourth crackling year. Showers and faucets are responsible for nearly 40 percent of indoor water use, and the Energy Commission expects that the new standards could save more than 2.4 billion gallons in the first year.

The showerhead changes are part of the state's recent surge in water-saving measures. In April, the Energy Commission approved new standards for toilets, urinals and kitchen faucets. And beginning next month, the required flow rate for bathroom faucets will go from 2.2 gallons per minute to 1.5. That will drop to 1.2 gallons per minute on July 1, 2016.

Once consumers' heads stop spinning and the regulatory dust clears, the commission estimates these new standards could end up saving 38 billion gallons of water in 10 years.

"We are in a new normal in terms of water availability in the state," McAllister said. "Even if there is a mega El Niño this year, in the long-term, we will be a drier California. We need to be prepared for that."

When it comes to bathroom fixtures, the state is already more prepared than worried consumers might realize. Like the new toilet standards announced this year, the new showerhead and bathroom faucet requirements are part of the CalGreen energy-saving building code and the California plumbing code.

They are also part of the Environmental Protection Agency's [WaterSense](#) requirements, so any fixtures or appliances that currently carry the WaterSense label also meet the state's new standards.

"I think almost everything I have on the floor meets the guidelines," said Eric Leaman, plumbing department manager for the Lowe's home-improvement store in Poway. "Every single faucet I checked was at 1.5 gallons, and that's good for this year. And most of the shower heads are at 2.0. I don't think anyone will have any trouble finding what they're looking for."

So we know the compliant fixtures are out there, but how do they work once you get them home?

After my recent free residential water survey through the city of San Diego, the irrigation specialist who checked my house for leaks and inefficient appliances (I'm getting a new washer soon, I swear!) left me with a goody bag that included two low-flow showerheads. We installed one of them last week, and I am happy to report that doing my civic water duty did not leave me hygienically compromised.

The Niagara Dual-Max showerhead can be adjusted to flow at 1.5 gallons per minute or a miserly 1.0. The lower setting felt extremely wimpy, and I dearly hope the drought ends before I am forced to use it. But the 1.5 flow seemed perfectly generous and not that different from the 2.5 showerhead in our second bathroom.

In the end, I felt the way all Californians should feel after a state-approved shower: Clean, virtuous and a little more prepared for the next wave of drought demands.

"I don't think people can tell the difference with the 2.0 shower. People will say they can, but I don't think you can tell," Leaman said. "But I also think residents here are probably much more tuned-in to saving water, and this is one of those trade-offs. You can't rely on El Niño to end the drought in one year."

Alameda County Water District Decommissions Water Treatment Plant in Fremont

Customers' conservation contributes to reduced need of aging plant.

By Autumn Johnson (Patch Staff) August 19, 2015

Announcement submitted by Alameda County Water District:

During its August 13 board meeting, the Alameda County Water District (ACWD) Board of Directors acted unanimously to decommission its Mission San Jose Water Treatment Plant (MSJWTP) located off Vargas Road in Fremont.

The decision follows comprehensive staff studies that conclude the district will reliably meet projected water demands without the plant, and will avoid costly improvements to the facility.

District staff will soon begin the decommissioning process that will result in an estimated one-time savings of \$4 million and ongoing annual savings due to the elimination of operating expenses.

"The Mission San Jose Water Treatment Plant has served us well for nearly 40 years. It's reliably provided high quality water to our customers and was crucial for the cities of Fremont, Newark and Union City to thrive," said Martin Koller, board president. "We must evolve, increase efficiencies and make sound financial decisions. This plant was our most expensive treatment facility to operate - our investments in our other facilities will save our customers money in the future," added Koller.

ACWD customers have made significant reductions in water use during this drought and long-term savings are expected. Behavior changes and the installation of water-efficient hardware, devices and landscapes will result in ongoing water savings, which were factored in the decommissioning decision-making process.

District customers have reduced overall water use by 36 percent in June 2015 compared to June 2013.

"We applaud our customers' efforts," said Judy Huang, board vice-president. "Their commitment to conservation has reduced our need to treat additional water," stated Huang. She went on to express support of the decommissioning, "Decommissioning this facility is a responsible water supply and financial decision," added Huang.

Each of the board members expressed support at the August 13 meeting and all acknowledged that customers' conservation played a key role in the decision to decommission the plant for at least 10-years.

ACWD operates three additional water treatment plants including a desalination facility in Newark. The diverse supply allows the district to optimize other supply sources and production facilities, as will be the case when MSJWTP is taken offline.

Scotts Valley recycled water station opens

Residents can fill containers with 250 gallons per day

UPDATED 8:31 PM PDT Aug 26, 2015

By Phil Gomez

SCOTTS VALLEY, Calif. —The first fill-up station for recycled water on the Central Coast opened in Scotts Valley on Wednesday -- and you can't beat the price, because it's free.

The Scotts Valley Water Department opened three stations along Kings Village Road.

Residents can fill up to 250 gallons and it won't cost them a penny.

Customers receive a 10-minute orientation on how to use the fill up station and all that is required is proof of Scotts Valley residency.

Scotts Valley resident Bill Ekwall has waited for this for more than a year and now it's finally become a reality. He brought a 65-gallon plastic container to fill with recycled water.

Like everyone else he's been doing his part to conserve water and he's happy he can now use this gray water for landscaping.

"I've invested a lot of time and energy into landscaping (my) lawn, you know, oriental flowers and I really don't want to lose them, and I really don't want to use potable water on them," Ekwall said.

The Scotts Valley Water District has a water treatment plant that has the capacity to churn out 1 million gallons of recycled water a day.

Officials said residents aren't using anything close to that, so the additional recycled water will hopefully reduce the demand for groundwater.

"What this was before was all lawn," Gary Cramer said of his yard. "We've taken the lawn out."

He's replaced his front yard with drought-resistant plants and added a drip system for them. He plans to fill up at least two 45-gallon plastic containers with gray water.

Ekwall said he planned to meet the 250-gallon limit on the station's first day of business.

"I've got 60 five-gallon tanks. I'm able to come up with 250 gallons a day. So, I'll do three trips today (and) maybe a couple of more this week," he said.

The station will initially be open four days a week: from 3 p.m. to 7 p.m., Wednesdays, Thursdays, Fridays, and from 8:30 a.m. to 12:30 p.m. Saturdays.

East Bay residents slash water use two months in a row

By Denis Cuff dcuff@bayareanewsgroup.com

OAKLAND -- East Bay residents saved water in a big way in July, vastly exceeding state-required cutbacks and hitting or nearing their highest conservation rate in the drought for the second month in a row.

Five water suppliers slashed consumption from 31 percent to 47 percent below consumption in 2013 as people let lawns brown, fixed leaks and took shorter showers.

Water official lauded the aggressive savings but acknowledged the conservation rates appear to be nearing a plateau after months of increasingly deeper cuts.

"There is anecdotal evidence that many customers feel they can't do any more to save," said Abby Figueroa, an East Bay Municipal Utility District spokeswoman. "But there is room for improvement for many customers, and we need people to continue to save until our reservoirs are full again."

EBMUD customers cut back 31 percent in July, matching the June high. The state has demanded a 16 percent cut from the district's 1.4 million customers.

Contra Costa Water District reported a similar trend. The district matched its record June savings of 40 percent rate again in July for its 200,000 customers in Concord, Pleasant Hill and other Central County communities. The state has required a 28 percent cut from the agency.

The big summer cutbacks in use will come in handy in offsetting more modest cutbacks expected in cooler fall and winter months, when there is less outdoor water use and less potential for savings, said CCWD spokeswoman Jennifer Allen.

Alameda County Water District customers slashed consumption 36 percent in July, the same rate as in June. The state has demanded a 28 percent cutback from the district's 330,000 residents in Fremont, Union City and Newark.

Residents of Pleasanton slashed their use by an eye-popping 47 percent in July, though in June residents had cut back 48 percent. The state has demanded a 24 percent cut from Pleasanton, an affluent community with stiff penalties for households that use too much water.

"We are pleased with the 47 percent savings," said Kathleen Yurchak, Pleasanton's assistant director of operations services. "But in order to avoid penalties, everyone needs to meet the required 25 percent reduction in water use."

In a poll taken in June, nearly half of Pleasanton residents reported they felt they were doing all they could to save water.

Water customers in the neighboring Dublin San Ramon Services District raised the bar, increasing their conservation rate from 43 percent in June to 44.6 percent in July.

"To go from 43 percent in June to 44.6 percent in July is a pretty significant increase in my mind," said Dan Gallagher, the district's operations manager.

The 44.6 percent savings in July was more than triple the 12 percent cut the state had set for the Dublin-based district.

The state water board has the authority to issue fines of up to \$10,000 a day against suppliers that fail to meet their reduction targets, which vary from 4 percent to 36 percent. Suppliers are judged on cumulative use from June through February, not just on a single month.


Although East Bay suppliers are meeting their state targets, 140 of the state's 405 cities, water districts and private water companies fell short of their June targets, the state Water Resources Control Board reported.

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

Impact of drought: Faster land subsidence

A RAPIDLY SINKING FEELING

NASA satellite study finds groundwater pumping now threatens state's great canal

A photograph of a woman with long brown hair, wearing a white sweatshirt and blue jeans, standing on a concrete canal wall. A large, deep crack runs along the wall, and the ground below it appears to be sinking. In the background, there is a body of water and a distant shoreline with some structures.

Hydrologist Michelle Sneed stands near a crack in the Delta-Mendota Canal in 2014, purportedly caused by the sinking earth.

ARIC CRABB/
STAFF ARCHIVES

By Lisa M. Krieger

lkrieger@mercurynews.com

Parts of the great San Joaquin Valley are sinking almost 2 inches every month, as the state's subterranean water supply is being drained to record lows by farms and towns coping with the devastating drought.

On Wednesday, the most comprehensive study yet of the problem revealed the startling pace and extent of the damage: NASA satellites found

the ground subsiding almost everywhere in the 140-mile stretch between Modesto and Tulare, with some of the worst sinking near the town of Corcoran, dropping 13 inches, and El Nido, down 10 inches, over a six-month period through early this year.

Even worse, the sinking is threatening the stability of the California Aqueduct, as satellite images show a

FALLING FAST

14"

Amount some areas near the California Aqueduct have sunk in six months

SEE NASA MAP
ON PAGE A8

See **SINKING**, Page 8

Sinking

Continued from Page 1

bowl of land between Huron and Kettleman City plunged about 14 inches less than half a mile from the state's great canal.

"We are pumping more than we are recharging," Mark Cowin, California Department of Water Resources director, lamented in a Wednesday news briefing to release data collected for the state by NASA's Jet Propulsion Laboratory. He urged regulation of new wells, saying, "We don't believe we can sustain this type of pumping."

Another report released Wednesday warned of the drought's calamitous impact if California's historic dry spell continues for another two to three years.

Rural low-income communities, which rely on shallow wells for their water supply, and the environment will suffer the most acute effects, according to a new Public Policy Institute of California study. As many as 18 species of native fish, including salmon, could go extinct, the study found. It also warned of deaths among water birds that use the Pacific Flyway.

In contrast, cities are likely to avoid extreme scarcity because they've invested heavily in conservation, expanded storage, recycled wastewater and other sources, according to the institute's report.

But the crisis is already well underway in California's agriculture-rich Central Valley: The intense pumping has left groundwater levels at record lows — up to 100 feet lower than previous records, according to Cowin.

The damage is mount-

ing. Roads have cracked, some pipelines have been exhumed, and the slope of the land is altered, changing drainage patterns, said Jeanine Jones, the department's deputy drought manager and interstate resources manager.

Along the California Aqueduct, the canal lining has been raised in multiple locations over the years in order to preserve flow.

And the damage to the earth may not be reversible: Even when rains resume, the water cannot expand the underground deep layers of clay, sand and gravel that store the state's great freshwater aquifers. When pumped too dry, they collapse, stacking like pancakes.

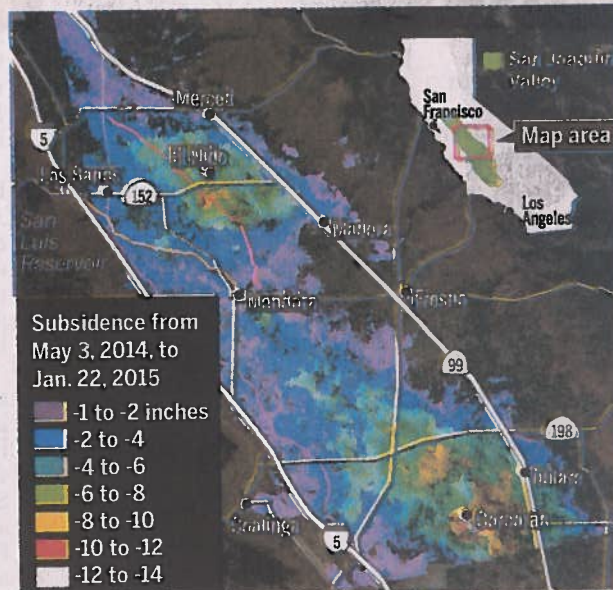
NASA's satellites can map surface deformations of a fraction of an inch over large areas — making it possible to monitor groundwater and subsidence as never before. The study ended last winter so it does not reflect any additional subsidence caused by summer pumping.

mer pumping.

Decades ago, overpumping sunk half of the entire San Joaquin Valley, in one area as much as 28 feet. The subsidence largely stopped when the state and federal governments built reservoirs that delivered water to agriculture.

But with little rain and reduced flow from reservoirs, farmers are turning to aquifers to support their crops. The Central Valley, home to the world's largest swath of ultra-fertile Class 1 soil, is the backbone of California's \$36.9 billion a year, high-tech agricultural industry.

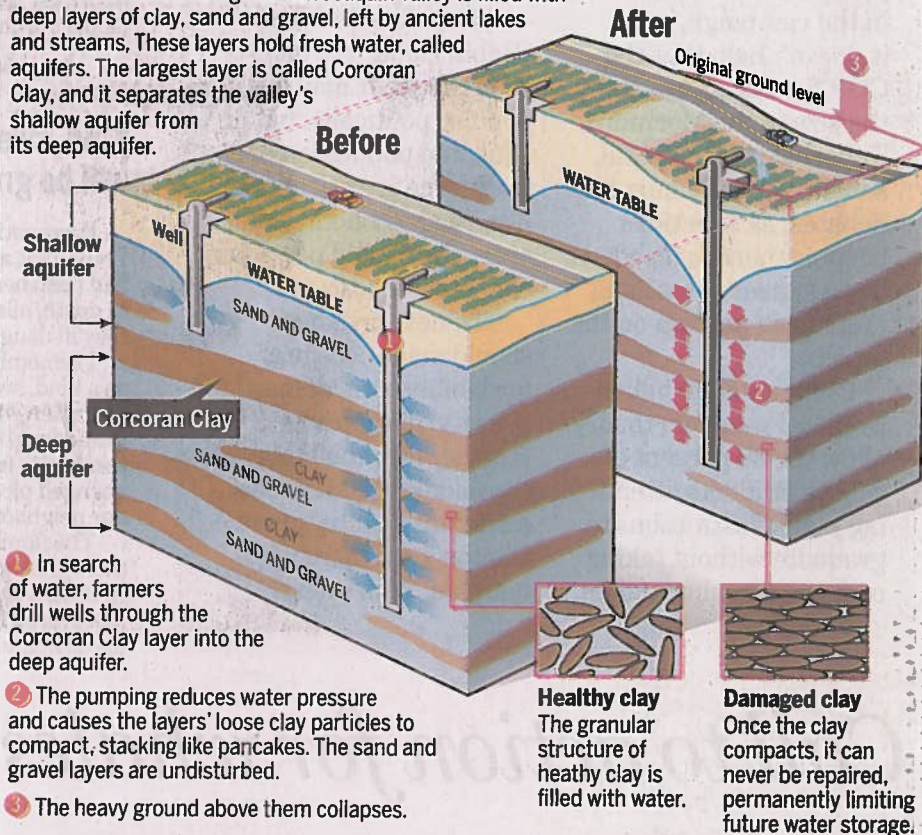
Some of the areas of greatest subsidence are where agriculture has shifted from grazing and row crops to more intensive cultivation of orchards, such as almonds and grapes, that command a higher profit but demand water to survive year-round. Domestic wells are also failing because they are shallow, and subsidence causes casings to break. In Tulare County, more than



Sources: California Department of Water Resources, NASA
PAI/BAY AREA NEWS GROUP

Sinking ground

The floor of California's great San Joaquin Valley is filled with deep layers of clay, sand and gravel, left by ancient lakes and streams. These layers hold fresh water, called aquifers. The largest layer is called Corcoran Clay, and it separates the valley's shallow aquifer from its deep aquifer.



Source: U.S. Geological Survey

DOUG GRISWOLD/BAY AREA NEWS GROUP

1,500 domestic wells have failed in the past year and a half, and about 1,000 households depend on the county to provide bottled drinking water.

Modesto farmer Paul Wenger blamed the loss of delivered "surface water" from reservoirs for the crisis. Because of the drought, less water is made available to farmers — and more is devoted to fish in the rivers, he said. In 2014, Central Valley farms lost roughly a third of normal surface water supplies, or 6.5 million acre-feet. In 2015, the deficit may rise to 8.7 million acre-feet.

Even conservation has unintended effects — drip irrigation, unlike traditional

flooding of fields, sends less water back into the ground, he said.

"Farmers have known for a long time about groundwater and subsidence," said Wenger, president of the California Farm Bureau Federation. "But when I throw you a lifeline, you'll grab it. You take what you can't get anywhere else. Farmers are trying to pay bills. They'll continue to access the only water they have, which is groundwater."

Last year, the state created a framework to regulate groundwater — the first time in state history — but it won't be fully implemented until 2020. And

then it will take a decade or two for water levels to rebound, Cowin said.

He urged counties to follow the example of Glenn County, which on Tuesday night issued a six-month moratorium on permits for new wells.

"The most important thing that can happen is for counties to pass or strengthen ordinances that limit over-pumping," he said. "It will take that kind of action to have any real effect."

Contact Lisa M. Krieger at 650-492-4098. Follow her at www.facebook.com/LisaMKrieger and Twitter. [com/lisamkrieger](https://twitter.com/lisamkrieger).

California's drought

Saving water is no sweat

Even a sizzling July can't dry up Californians' resolve as conservation tops 30%

By Julia Prodis Sulek
jsulek@mercurynews.com

Some needed a stick, others a carrot, but drought-conscious Californians racked up their biggest water savings yet in July, conserving more than 30 percent, a dramatic reduction in one of the hottest months of the year.

"People have done a great job letting their lawns go California golden," said Felicia Marcus, chair of the State Water Resources Control Board, which released its latest monthly water conservation report Thursday.

While communities such as Pleasanton cut water use by almost half by imposing strict fines, across the bay in Menlo Park, they saved nearly as much with rebates and free 5-gallon buckets to catch water in the

See **CONSERVE**, Page 5

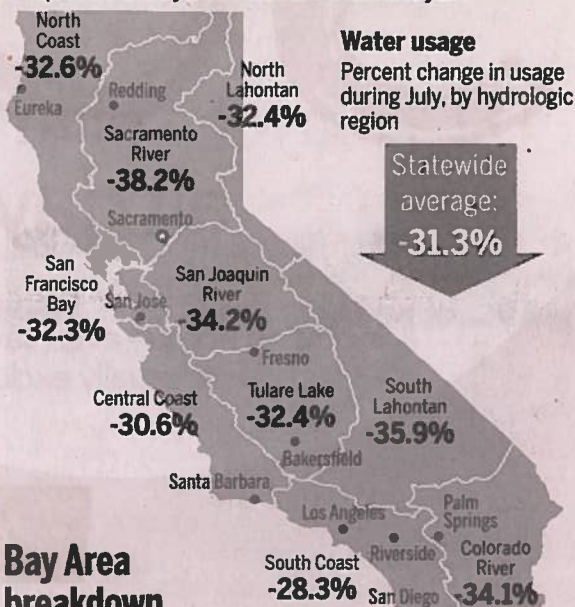


DAN ROSENSTRAUCH/STAFF

Robby Cella, 16, of Diablo, pours from a bucket holding shower water that he has collected to help water his mother's potted plants.

Who saved the most water?

California cut residential water use by 31.3 percent in July compared with July 2013, the state's baseline year.



Bay Area breakdown

Percent change in July, compared with July 2013

Alameda County Water District	-36.2%	Martinez	-42.2%
American Canyon	-26.6%	Menlo Park	-46.3%
Antioch	-37.5%	Mid-Peninsula Water District	-32.3%
Benicia	-36.8%	Millbrae	-31.5%
Brentwood	-44.6%	Morgan Hill	-42.1%
Burlingame	-34.6%	Mountain View	-30.7%
California Water Service Co.	-38.6%	Napa	-28.3%
Bear Gulch	-46.3%	North Coast County Water District	-39.3%
California Water Service Co. Livermore	-46.3%	North Marin Water District	-41%
California Water Service Co.	-38.7%	Palo Alto	-26.5%
Los Altos/Suburban	-25.3%	Petaluma	-29.6%
California Water Service Co.	-24.1%	Pittsburg	-26.9%
Mid Peninsula	-24.1%	Pleasanton	-46.8%
California Water Service Co.	-24.1%	Redwood City	-14.2%
South San Francisco	-24.2%	San Bruno	-27%
Coastside County Water District	-39.7%	San Francisco Public Utilities Commission	-16.0%
Contra Costa Water District	-39.7%	San Jose	-35.5%
Daly City	-14.4%	San Jose Water Co.	-38.4%
Dublin San Ramon Services District	-44.6%	Santa Clara	-19.9%
East Bay Municipal Utility District	-30.9%	Santa Cruz	-30.6%
East Palo Alto	-37.9%	Scotts Valley Water District	-27.7%
Estero Municipal Improvement District	-17.5%	Sonoma	-46.8%
Fresno	-31.4%	Soquel Creek Water District	-32.7%
Gilroy	-35.2%	Suisun-Solano Water Authority	-30.2%
Golden State Water Co.	-31.6%	Sunnyvale	-36.7%
Bay Point	-36.1%	Vallejo	-26.2%
Great Oaks Water Co. Incorporated	-28.7%	Valley of the Moon Water District	-38.1%
Hollister	-30.9%	Watsonville	-17%
Livermore Division of Water Resources	-42.1%	Westborough Water District	-48%
Marin Municipal Water District	-23.2%	Other areas	
		Sacramento	-35%
		Fresno	-31.4%
		Los Angeles	-21.1%
		San Diego	-28.9%

Source: State Water Resources Control Board BAY AREA NEWS GROUP

Conserve

Continued from Page 1

shower. Even with the prospect that El Niño could bring heavy rainfall this winter, the report showed continued vigilance among water users at the height of summer, exceeding Gov. Jerry Brown's 25 percent conservation mandate.

Figures from the state's water suppliers show Californians reduced water use by 31.3 percent in July, compared with the same month in 2013, which the state uses as a baseline. While communities that used the most water per capita — like Bakersfield and Beverly Hills — have bigger savings targets, ones that already used less — like San Francisco — had lower targets.

It was the first time during the drought that monthly savings topped 30 percent statewide, improving on the 27.3 percent savings Californians delivered in June.

Eleven water districts in the greater Bay Area saved at least 40 percent in July, including Livermore, Contra Costa, Brentwood and Morgan Hill. Even some of the state's biggest water wasters in recent months showed they are finally getting in line: The Southern California desert communities of Coachella Valley (40 percent) and the district that serves Palm Springs (30 percent) showed huge improvements in July.

State water officials said unusually heavy rain in July in Southern California played a role in the savings because many people turned off their sprinklers.

Throughout California, 72 percent of the state's 402 water suppliers met or were within 1 percent of their conservation targets. Only four missed their goal by 15 percent or more, most in smaller districts in southeastern California.

"We've got a lot of people hitting home runs here. We've got a lot more people getting base hits," Marcus said. "And some people are striking out or can't find the ballpark."

Despite threats of hefty fines for agencies that fail to conserve, the state has not yet imposed penalties on the water abusers, she said, explaining that the board is trying to encourage compliance first.

But July's figures showed that water suppliers themselves are cracking down on their customers who don't conserve: The number of penalties issued by suppliers to their customers doubled from the previous month to more

than 15,000 in July. One of those suppliers, the city of Pleasanton, which cut its water use nearly 47 percent in July, charges users a \$50 fine for using more than their allotment, plus doubles the cost of a unit of water, from \$2 to \$4, if they go over.

The water board singled out the Peninsula community of Menlo Park, which conserved 46.3 percent in July — 30 percentage points more than its target — as a model for communities that missed their goal, including Beverly Hills. The hamlet of Hollywood stars, with their pristine landscapes, fell short of its target by 10 percentage points.

"They should call their friends in Menlo Park to see what they did right," Marcus said during a news teleconference Thursday.

So what is Menlo Park doing right?

"Nobody's on a water budget. No one has an allotment," said Pam Lowe, Menlo Park's senior civil engineer. "We're not coming with a stick at all."

Instead, she said, the city is leading by example and with incentives. The city reused water from flushed water mains to irrigate parks and clean streets, she said, and is offering rebates for installing drought-tolerant landscaping. And unlike Los Angeles County supervisors, who are under fire for washing their county-issued vehicles two to three times a week, Menlo Park is putting magnets on its work vehicles saying, "A Little Dirt Won't Hurt."

Earlier this year, during the Menlo Park mayor's state of the city speech, the city placed take-home, 5-gallon buckets — instead of chairs — off Main Street for outdoor seating.

"It was a huge hit," Lowe said. "We ran out of buckets and are ordering more."

The conservation isn't without consequence, how-

ever. In Pleasanton, recently planted coastal redwoods are dying throughout the city, said Daniel Smith, who works in customer service at the water department and fields calls from concerned residents.

"They can't be watered by recycled water," he said. "The salt content is too high."

At the Sacramento news conference, Marcus said it's "critical" for Californians to water their trees enough to keep them alive.

"We don't want to lose them," she said, adding that people can go to www.saveourwater.com/trees for tips on tree care during the drought.

As for predictions of a wet winter, Marcus said it's too soon to know how much rain will come and where it will hit. If Southern California gets soaked, but Northern California — home to the majority of the state's big reservoirs — stays dry, the drought will continue.

"We will welcome all the rain and snow we can safely handle, and we will hope for the best," Marcus said, "but we will plan for the worst."

Drought rage? Confused motorists upset about Lakewood's recycled water program

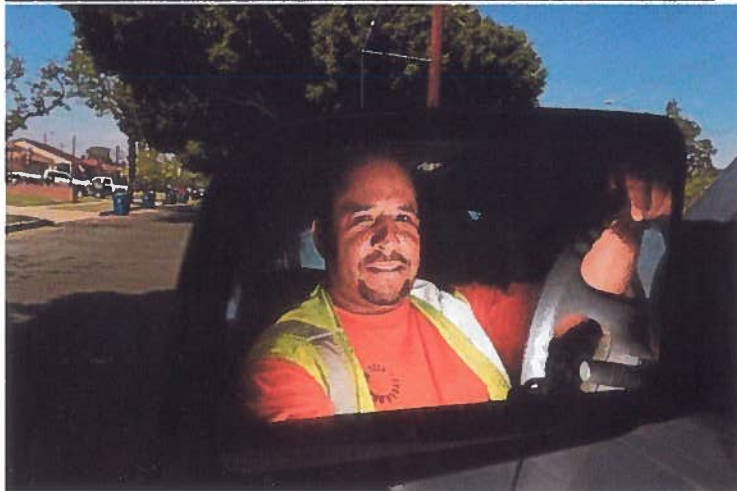
By Phillip Zonkel , Long Beach Press Telegram

PressTelegram.com



City of Lakewood maintenance worker Louis Cavazos drives a water truck for the city of Lakewood. Lakewood uses recycled water (waste water that's treated for irrigation) for the trees on its medians, which is perfectly legal, but some residents have been yelling at the water truck drivers. Stephen Carr — Staff photographer

City of Lakewood maintenance worker Louis Cavazos drives a water truck for the city of Lakewood. Stephen Carr — Staff photographer



LAKEWOOD >> First road rage, now drought rage?

Louis Cavazos, 44, a maintenance trainee with Lakewood's Recreation and Community Services Department, drives one of the city's two tanker trucks that sprays recycled water on landscaping along city medians, an exemption to the recent state law banning cities from watering them during the drought.

The city started irrigating medians with recycled water in early July in an effort to save water-stressed trees, whose brittle branches could fall, causing property damage or injury.

Cavazos' pickup truck — traveling about half-a-mile an hour — pulls a 1,000-gallon water tank with large stickers identifying it as nondrinkable water. Nevertheless, some residents are wet behind the ears when it comes to understanding the meaning of recycled water.

Cavazos has been shouted at numerous time by motorists saying, "You're wasting water," or "Don't you know there's a drought?"

In one incident, a female motorist yelled at him and then threw a full cup of soda at Cavazos' truck as he was watering a median along Carson Boulevard.

"When the cup hit the hood of my truck I thought, What the ... ?" Cavazos said. "Most people don't know what recycled or reclaimed water is."

Recycled or reclaimed water is treated wastewater clean enough to use for irrigation.

While recycled water is a new concept to some residents, it's not new to Lakewood.

Lakewood, Cerritos save millions of gallons of drinking water

The city's 26-year-old recycled water system – which requires a pipeline system separate from the one supplying drinking water – irrigates four schools, six parks and city facilities, including the Lakewood Civic Center.

The system uses 184 million gallons of recycled water a year and costs about 50 percent less than drinkable water, said Lakewood spokesman Bill Grady.

Cerritos has been using recycled water since 1988. Its 22-mile, underground pipe loop irrigates more than 200 acres of city-owned properties as well as the ABC Unified and Artesia Cemetery.

Those efforts annually save about 815 million gallons of drinking water, said Cerritos spokeswoman Laure Kajiwara.

Vince Brar, the city's senior assistant city manager, said using recycled water is good for the environment and the bottom line.

Advertisement

"Reclaimed water is much cheaper than drinking water," Brar said. "So the more reclaimed water you use, the less imported water you need to buy. I never met anyone who has done a recycled water program and regretted it."

Using recycled water to fill aquifers

The Water Replenishment District of Southern California, which manages the two giant groundwater basins under south Los Angeles County and supplies 40 percent of the drinking water for 4 million residents in 43 cities, including Long Beach, also is expanding its 50-year track record of using recycled water.

The district refills those aquifers with a ready supply of drinking water, but instead of relying on imported water from the drought-stressed Colorado River and Northern California, it plans on refilling the aquifers with purified wastewater that will meet the same cleanliness standards as imported water. The district currently uses a blend of recycled water and imported water to fill the aquifers.

Future plans for watering street landscaping

Lakewood's recycled water tankers are a good short-term fix, but not a feasible, long-term solution for irrigating street landscaping, Grady said.

The city is in the process of re-envisioning its street medians and parkways to use drought-tolerant landscaping and have curb openings that would allow rain and runoff from the street to flow in and water the landscaping and reduce stormwater runoff pollution, he said.

In the meantime, Cavazos, who said the number of motorists yelling at him has diminished recently, jumps back in his truck, preparing to water a service parkway near Woodruff Avenue and Centralia Street.

"Some of their anger might be they get stuck behind me, and I have to drive very slow," Cavazos said. "I try to water on busy streets when it's less traffic."

Contact Phillip Zonkel at 562-714-2098.

Reach the author at phillip.zonkel@presstelegram.com or follow Phillip on Twitter: ZonkelPT.

Sonoma County offers free recycled water to offset drought

BCN Published: August 31, 2015, 5:22 pm

SONOMA (BCN) — As California's drought continues to shrink water supplies, a Sonoma County utility is looking to recycled water as a new source.

The Sonoma Valley County Sanitation District opened a residential recycled water fill station today for residents to use to water their lawns, gardens, and landscaped areas, according to district officials.

The recycled water from the fill station will be provided to all residents living in the Sonoma Creek Watershed free of charge, district officials said.

"Recycled water is a valuable resource that becomes even more important during this drought," Sonoma County Water Agency board of directors chair Susan Gorin said in a statement. "By making recycled water available to district residents, we can ease the burden on our limited Russian River supplies and our local groundwater. It's just one more thing we can do together that will help us through this drought."

The fill station is located at 2265 Eighth St. E. in Sonoma and will be open Monday through Thursday from 10 a.m. until 3 p.m.

Prior to using the fill station, residents are asked to fill out a Residential Recycled Water Fill Station Use Application/Agreement, according to district officials. The forms are available to pick up on location at the fill station or online at the [website](#).

Residents using the station must bring their own sealable containers to fill, according to district officials.

Residents may fill up anywhere from a minimum of one gallon to a maximum of 300 gallons per trip.

Another residential recycled water fill station facility is planned for Santa Rosa in the parking lot of the Sonoma County Water Agency offices parking lot at 404 Aviation Blvd., using water from the Airport.

Wastewater Treatment Plant, agency officials said. The fill station is planned to be available for resident use on weekends and is expected to open later this year, according to water agency spokesman Brad Sherwood.

ORANGE COUNTY REGISTER

'Brown is the new green' as grassy medians go by the wayside

BY NICOLE KNIGHT SHINE
2015-08-31 20:13:18



Signs sprang up across the county, appearing in the once-verdant median of a busy block in Anaheim and along a serpentine road in the Newport Back Bay.

"Brown is the new green," the Newport Beach sign declared, a reminder of state water restrictions as the rain-thirsty Golden State pushes through its fourth year of a punishing drought.

In one of the most visible signs of water cutbacks, street medians that once varied from city to city are now increasingly united behind a single, common aesthetic: no grass. Municipalities have turned off the

sprinklers on medians, and are ripping out thirsty turf in favor of native plants, mulch and faux alternatives.

"It's gotten nice and crispy out there," Fountain Valley public works director Mark Lewis said of the dying turf on his city's medians.

In April, Gov. Jerry Brown issued sweeping water restrictions that included a ban on watering decorative grass in public medians. In many municipalities, the same water that spills out of your tap also flows through irrigation lines – but drinking water can no longer be used in these medians. When medians lie on city roads, it falls to each municipality to figure out what to do.

It's a mishmash.

Last week, turf browned in the sun on medians up and down MacArthur Boulevard in Santa Ana, where signs trumpeted, "Water Conservation in Progress!" Back in June, Fountain Valley turned off the water supply to grassy medians on 11 roadways, effectively killing stretches of turf roughly the length of 60 football fields, Lewis said.

Meanwhile, as a temporary fix, Newport Beach has taken to spraying green vegetable dye on some of the water-starved turf in its dividers, in what amounts to a cosmetically enhanced final hurrah.

But a drive through Irvine reveals grassy green medians. The city relies on reclaimed water for nearly all of its landscaping, a practice more locales intend to adopt, but one that requires a reliable supply of non-drinkable water.

Ruth Ruiz, an Anaheim spokeswoman, said the county's most populous city has looked for "creative and sustainable" ways to conserve amid the drought.

Ruiz said the city stopped watering medians in May and is reworking irrigation lines that feed the medians to channel water from the city's water recycling plant, which produces approximately 50,000 gallons of reclaimed water per day. With this change and others, the city hopes to save more than 16 million gallons in the next six months.

Fountain Valley, on the other hand, might create "themes" in its medians, or use different plantings or mulch on streets that go one direction versus another to differentiate the roadways, Lewis explained.

In some cases, water rebates have helped pay for new and upcoming transformations. Over the past three years, the Municipal Water District of Orange County has issued just over \$1 million in rebates to 13 cities for drought-tolerant overhauls of street medians and public lands.

Brea earned a \$27,292 rebate from the district for ripping out grass in medians on Brea and State College boulevards. The municipality expects to install \$165,643 in new landscaping by November.

In June and July, Fountain Valley saved 175 million gallons of water, according to Lewis. Street medians accounted for a tiny percentage of conservation, but as the public works director pointed out, "Everything adds up."

Overall, Californians cut water use by 31 percent in July, well above the 25 percent mandatory target set by the governor.

But even before water stinginess was the rule, Lewis said Fountain Valley had swapped out real grass for the synthetic variety in some medians; it may do more.

"It looks nice; it looks green when you drive by it," Lewis said.

Beyond conserving a scarce resource, he said synthetic grass brings another, simpler benefit, one that anyone who has ever pushed a lawnmower can get behind.

"You don't have to mow it."

Staff writers Susan Christian Goulding and Joanna Clay contributed to this report.

Contact the writer: nshine@ocregister.com or Twitter: [@nicolekshine](https://twitter.com/nicolekshine)

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Unintended consequences of conserving water: leaky pipes, less revenue, bad odors

By MATT STEVENS *contact the reporter*

SEPTEMBER 1, 2015, 3:31 A.M.

Under orders to slash water use amid a historic drought, cities and towns across the state saved about 75 billion gallons in July, eclipsing Gov. Jerry Brown's once-daunting order for a 25% reduction.

But, in a paradox of conservation, water agencies say the unprecedented savings — 31% in July over July 2013 — are causing or compounding a slew of problems.

Sanitation districts are yanking tree roots out of manholes and stepping up maintenance on their pipes to prevent corrosion and the spread of odors. And when people use less potable water, officials say, there's less wastewater available to recycle.

Water suppliers, meanwhile, say the dramatic decrease in consumption has created multimillion-dollar revenue shortfalls.

Experts and industry leaders say this represents a shift into a new stage of the four-year drought.

"It's unintended consequences," said George Tchobanoglous, a professor of civil and environmental engineering at UC Davis. "We never thought [conservation] was a bad thing. Every citizen thinks he or she is saving mankind, and I'm sympathetic, but it just so happens that our basic infrastructure was not designed with that in mind."

Sanitation districts have worried about sewer spills for years, but officials say they have had to become especially vigilant in recent months as water use has plummeted.

Shorter showers, more efficient toilets and other reductions in indoor water usage have meant less wastewater flowing through sewer pipes, sanitation officials say. With less flow to flush the solids down the system, those solids are collecting and can eventually damage pipes.

"The costs that we're going to face due to corroding pipes is going to be astronomical," Tchobanoglous said. "It'll dwarf everything else."

In Sacramento, the sewer system is relatively flat, meaning that gravity cannot help push solids through it. Operators are reporting increased debris and more grease in pipelines, said Christoph Dobson, director of policy and planning at the Sacramento Regional County Sanitation District.

The collection of those solids heightens the possibility of a stoppage in small pipes and increases the amount of maintenance that sanitation districts must perform, Dobson said.

"We do know that we're seeing lower flows, and we do attribute the problems ... to those lower flows," he said.

In San Francisco, officials also say foul odors have become noticeable in low-lying and flat areas of the city where gravity cannot help push solids through the system.

Sanitation officials in Orange County say that although their system is generally holding up well, they have had to flush and clean the pipes more often. Since the wastewater ends up with a higher concentration of solids, the pumps that lift and move the water could get worn down faster, officials said.

"Did we know the drought was coming and it would cause these things? Not necessarily," said Rob Thompson, director of engineering at the Orange County Sanitation District. "Nobody likes to talk about sewage. Sewage isn't sexy."

Los Angeles has not experienced many of the problems plaguing its neighbors because its system is designed to move wastewater by gravity, and officials say that with 4 million people using water, there's always enough flow.

Experts said conservation has certainly brought challenges, but pointed out that in Australia — where water use plunged during a drought that lasted more than a decade — there's no evidence of wastewater treatment problems.

"My view is that any such consequences can be managed if and when they arise, but this should not be an excuse to not implement efficiency measures," said Lester Snow, a former head of the Department of Water Resources who now directs the California Water Foundation.

The reduced use of drinkable water also means there is less available for recycling — at a time when cities have been placing a greater emphasis on that form of water conservation, experts say.

Orange County is home to the largest potable reuse facility in the world. Because of a recent facility expansion and the high levels of conservation, the Groundwater Replenishment System now requires wastewater to be diverted from Huntington Beach to Fountain Valley in order to keep the facility at 95% capacity.

"We're hoping that water demands will remain fairly consistent inside the house," said Mike Markus, general manager of the Orange County Water District.

Lower water demands "potentially could be a problem for us because we built a facility of a certain size and we want to make those assets work for us," Marcus added. "We don't want to have stranded assets."

At the Leucadia Wastewater District in northern San Diego County, officials have run into a different problem.

Without normal levels of outdoor irrigation, tree roots desperately in search of water have invaded sewer pipes and grown there over time.

Last December, when workers investigated a sewer spill, they found a 4- to 6-inch-wide tree root inside a pipe. Just 16 months earlier, an inspection found the sewer line "clean and clear," said Paul Bushee, general manager of the Leucadia Wastewater District.

"We're seeing more and more of that," he said. "It was a learning experience for us. We didn't think a root could go from nothing to this larger-diameter root in a year and four months."

But the consequences of conservation have also been felt outside sanitation districts. Potable water providers say conservation is stripping them of crucial revenue.

For example, the Yorba Linda Water District is under state orders to slash its water consumption 36% over the next several months. A cut that size is projected to reduce revenue about \$9 million over the course of the current fiscal year, district spokesman Damon Micalizzi said.

The water district had been planning to ask for a gradual rate increase over five years, but the state's conservation mandate forced the district to speed up that process and ask for more money sooner, Micalizzi said.

Under the latest rate proposal, the basic service charge assigned to most single-family residential customers would jump to about \$41 on Oct. 1 from \$16.77, Micalizzi said.

"We're feeling the pain right now," he said. "To have this dramatic jump and the backlash that obviously comes with it is very, very daunting."

The Santa Margarita Water District also passed a water rate increase in March that will help offset \$6.8 million in lost revenue this fiscal year. Goleta Water District officials said they implemented a "drought surcharge" in July to help recover \$10 million in projected revenue loss.

"It's a fact that the amount of revenue [water districts are] collecting is going down," said Heather Cooley, water program director of the Pacific Institute, a nonprofit that conducts research on natural resources.

Conservation, she continued, "puts water districts in a pinch in the short term, but in the long term it's a benefit for all of us."

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Increase would start in 2017

PG&E seeks 2.5% revenue hike

By George Avalos

gavalos@bayareanewsgroup.com

PG&E on Tuesday proposed an increase in rates that would, if approved by state regulators, lead to higher electricity and gas bills for the company's customers, according to an official filing.

The utility giant is asking for a 2.5 percent increase in revenue, which would go into effect starting in early 2017, if the state Public Utilities Commission agrees to the proposal. The rate increase proposal applies to the years 2017, 2018 and 2019. A final decision from the PUC on the proposed increase is expected in late 2016.

San Francisco-based PG&E said its typical residential customers would experience an increase of an average of \$4 a month in their power and natural gas bills.

"We need the funds for new things that will enable us to be the safest and most reliable gas and electricity provider in the nation," said Keith Stephens, a PG&E spokesman.

The electricity bill for residential customers would rise by an average of \$3 a month, while gas bills would increase \$1 a month, Stephens said.

The proposal drew swift criticism from consumer advocates.

"These appear to be increases that could hit consumers very hard," said Mindy Spatt, a spokeswoman for The Utility Reform Network, a consumer group. "An increase of \$4 a month is not insignificant for many customers."

The utility has been under fire for how it uses its ratepayer revenue in the wake of a fatal explosion of natural gas in San Bruno nearly five years ago.

An investigation into that blast determined that it was caused by PG&E's shoddy maintenance and flawed record keeping, along with lax oversight by the PUC. But the probes into the blast also suggested that PG&E might have spent its revenue unwisely in some cases, giving insufficient attention to safety.

"Safety and reliability are like a bottomless pit at PG&E," Spatt said. "We would like to see PG&E

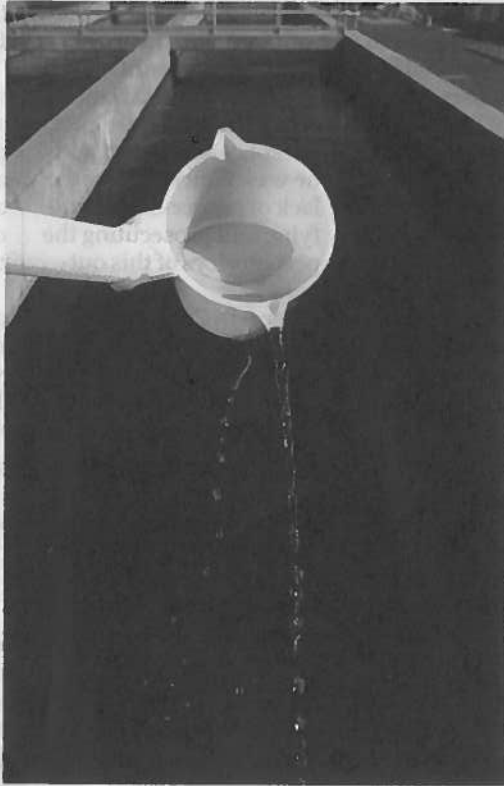
deliver on some of its past promises for reliability before it gets more money from ratepayers."

PG&E requested a \$457 million increase in revenue starting in 2017, the utility said in its filing with the PUC.

"We are focusing on investing in smart grid technology that will help our grid integrate with renewables and deal with electric vehicles and batteries," Stephens said. "We are trying to harden our infrastructure and emergency preparedness; we hope to prevent wildfires with new technology."

The utility also hopes that the increase in revenue will help it improve its vast network of natural gas pipes, a system that's under intense scrutiny in the wake of the San Bruno explosion. That disaster killed eight and wrecked a quiet residential neighborhood.

Funding clog hurts water reuse efforts



Though it costs up to \$1,000 per acre-foot, recycled water is still cheaper in a drought than imported or desalinated water.

Dearth of federal support hampers relatively cheap method of boosting supply

By Carolyn Lochhead

Water recycling may be one of the most promising sources of new water for California, but you'd never know it in Washington.

At half the cost of desalinating sea water, recycling municipal wastewater could create an estimated 1.1 million acre-feet of new water in California. That's roughly twice as much water as \$9 billion in new dam proposals would deliver to the state in a year.

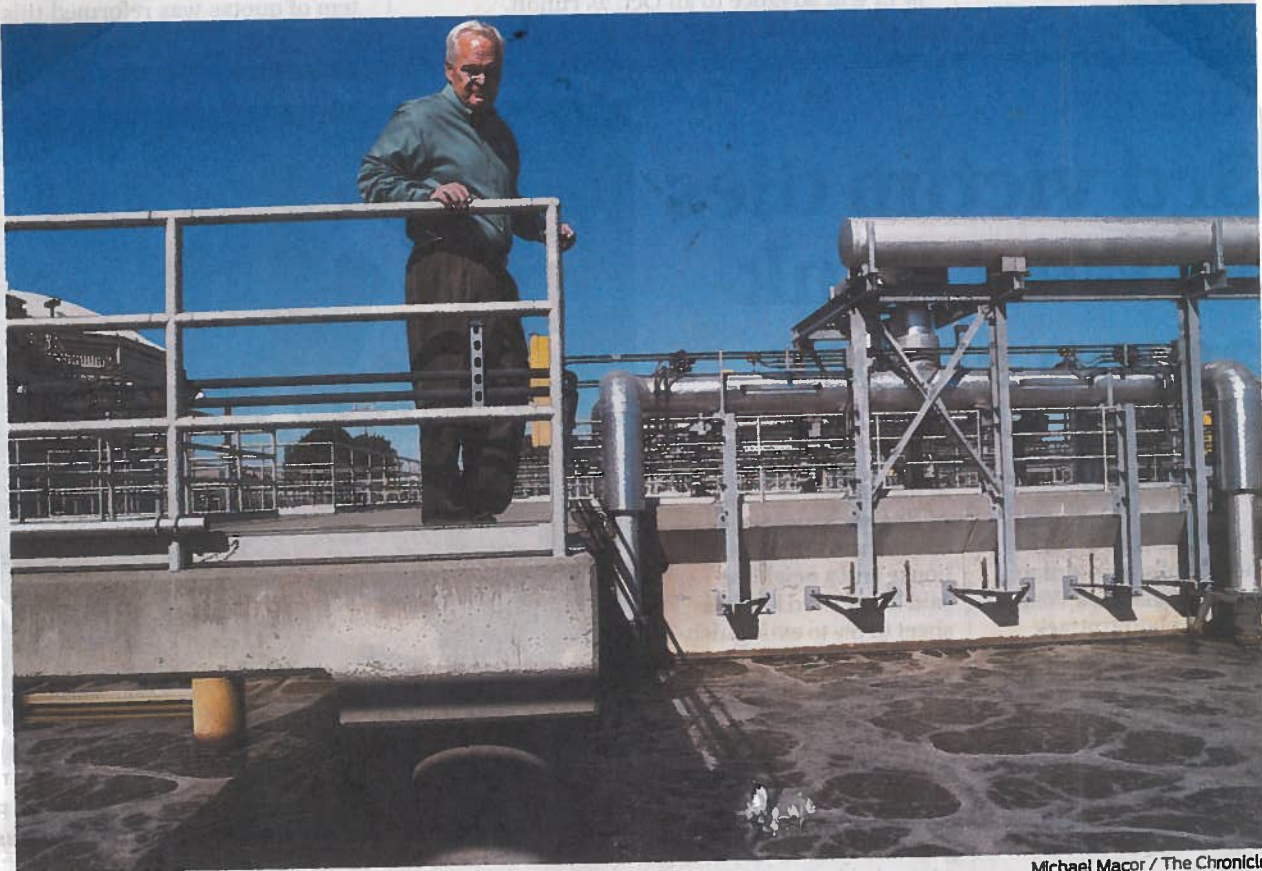
The new reclaimed source would come from purifying water that currently is used once to take a shower or wash clothes or flush a toilet and then cleaned by a wastewater treatment plant and dumped in the ocean. Conservative Orange County is the technology's poster child.

Yet amid one of the worst droughts in California's modern history, the Obama administration this year asked Congress for \$20 million for water recycling, to be spread across the entire 17-state West. That's one-

Water continues on A7

RUNNING DRY

Throughout 2015, The Chronicle will report on water growing scarce in California. Find more coverage at www.sfchronicle.com/drought.



Michael Macor / The Chronicle

General Manager Gary Darling looks at the aeration tanks at Delta Diablo's water recycling plant in Antioch. Darling says approved projects awaiting federal funding could deliver 100,000 acre-feet of water per year.



Michael Macor / The Chronicle

General Manager Gary Darling walks past giant augers that transport dirty water to aeration tanks above at Delta Diablo's recycling plant in Antioch.

Lack of federal funding hurts water reuse efforts

Water from page A1

fifth the amount the administration targeted on livestock disaster assistance to California ranchers as part of its drought response, using funds under its discretion.

But tapping even that puddle of money is proving difficult because of a Republican ban on earmarks, which will allow no member of Congress to authorize spending on a new recycling project.

"You can't just say here's a project, fund it," said Matt Sparks, spokesman for House Majority Leader Kevin McCarthy, R-Bakersfield. "That's an earmark, and that is exactly what we got rid of when we took the majority."

Under McCarthy's leadership, House Republicans this year passed a California drought bill that makes no mention of water recycling and contains no money for water projects. The legislation focuses instead on transferring existing water from Northern California to the San Joaquin Valley by overriding environmental regulations.

Gary Darling, general manager of Delta Diablo, an East Bay sewer district covering Antioch, Pittsburg and Bay Point, said California water districts have projects on the table that could deliver 100,000 acre-feet of new water per year reclaimed from existing supplies. That's substantially more total water than San Francisco uses in a year.

"Over half of our projects are shovel ready, they've got feasibility determinations and environmental clearances that are done, so we're ready to go," said Darling, who also represents the Western Recycled Water Coalition, a group of 24 water and sewer districts that has been trying to get more federal help. Without it the districts lack the funding to complete their projects.

Taken to new level

Water recycling has been around for decades, used mainly for landscaping or industrial purposes.

Water districts in Southern California took the technology to a whole new level when they sought a more secure water source after the state's 1987-92 drought raised concerns that their access to water imported from Northern California would be curtailed. Led by Orange County, districts pioneered methods to turn raw sewage into tap water that is cleaner than many existing municipal systems deliver.

Such water "is essentially drought proof,"

said UC Berkeley environmental engineer David Sedlak, co-director of Berkeley Water Center and a co-author of a National Research Council report on water recycling. Wastewater flows "don't change much in a drought," he said. People may cut back on watering their lawns, he said, but they still bathe and wash dishes and clothes, leaving a ready supply of water to recycle.

Relatively inexpensive

Reclaiming wastewater is not cheap, Sedlak said, "but it's the least expensive of the next water supplies that California cities could develop."

Water recycling can cost as much as \$1,000 an acre-foot, several times more than the river water delivered to cities through the federal and state water projects. But when supplies are short, it can be less costly than imported water, which in the current drought has skyrocketed to \$1,700 and more an acre-foot on the open market. And recycling is about "half the price of seawater desalination and more reliable other water sources" such as buying water, Sedlak said.

Joe Grindstaff, general manager of the Inland Empire Utilities Agency, a water district serving nearly a million people in San Bernardino County, said his district recycles almost all the water it can after meeting its legal requirement to send a certain amount downstream.

"The whole region has become more self-sufficient, more resilient, and more focused on recycling," Grindstaff said. "Our area's probably as conservative as they come, and yet we've been engaged in trying to do everything we can to make sure we're ready for the future."

Many of the recycling projects that have been built or are under construction were financed in part with state bond money, and a big \$133 million chunk of federal money that former House Speaker Nancy Pelosi, a San Francisco Democrat, working with the Obama administration, added to the economic stimulus program in 2009.

Since then, congressional budget tightening has left little money for water investment of any kind.

Drought legislation by California Sens. Dianne Feinstein and Barbara Boxer, both Democrats, targets \$200 million for water recycling to be used on 105 projects listed in separate legislation by Rep. Jerry McNerney, D-Stockton, increasing by tenfold the money available now.

McNerney said the

Bureau of Reclamation is spending what money it has, but because of the earmark ban, "there's no way to get new projects on the list." He said House Republicans "are just not interested. For one thing, recycling costs money, and if they find a way to ship more water through the delta then there's really no money involved."

Rep. John Garamendi, D-Walnut Grove, said recycling water is common sense. The way California's water system now works is "water is taken from the Colorado River, from the Sacramento River, pumped 200, 300, 400 miles, cleaned, used once, cleaned again to a higher standard than the day it arrived, and then it's dumped into the ocean," he said.

The federal government, he said, spent "several billion dollars" on new water systems for Afghanistan. "We make choices around here," he said.

Administration officials said they are doing all they can with the money that Congress gives them, and that it is up to Congress to authorize new projects.

The \$20 million the Obama administration is seeking for recycling resides in a Bureau of Reclamation program called Title 16. The Bureau will pay up to 25 percent of a new plant, and the local water agencies have to finance the rest.

'Upward glide path'

Dan DuBray, the bureau's public affairs chief, said the administration tripled the funding for the program upon taking office, in addition to providing the \$133 million for recycling in the stimulus. He said the administration also has shifted some of the \$50 million in western drought response money provided by Congress to the recycling program, bringing the total to \$26 million this year.

"Amid all the other programs getting pressured, flatlined and pushed down, between the Recovery Act and acceleration of funding, (water recycling) is really on an upward glide path," DuBray said.

Still, the administration and Congress need to further increase the recycling budget, water managers said.

"In terms of water supply in the West," said Inland Empire's Grindstaff, "it would be more useful than a lot of other things they do."

*Carolyn Lochhead is The San Francisco Chronicle's Washington correspondent.
E-mail: clochhead@sfchronicle.com Twitter: [@carolynlochhead](https://twitter.com/carolynlochhead)*

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BOARD MEETINGS

Regular Board meetings are scheduled
on the 2nd and 4th Monday of each month
at 7:00 p.m. in the Boardroom at District Headquarters

Important Links:

[AGENDA](#)
for the next Board Meeting
(usually available 5 days before each
Board meeting)

[BOARD PACKET](#)
most current complete packet

[Committee Meeting Notice](#)
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**Information about Board Meetings may be obtained by calling
(510) 477-7503**

District Headquarters:

5072 Benson Road
Union City, CA 94587-2508
[Map](#)

Contacting the Board

Contact the Board by email at
BOD@unionsanitary.ca.gov,
or **individual members as follows:**

Manny Fernandez	<u>mfernandez@unionsanitary.ca.gov</u>
Tom Handley	<u>thandley@unionsanitary.ca.gov</u>
Pat Kite	<u>pkite@unionsanitary.ca.gov</u>
Anjali Lathi	<u>alathi@unionsanitary.ca.gov</u>
Jennifer Toy	<u>jtoy@unionsanitary.ca.gov</u>

Please Note:

Emails sent to the entire Board at BOD@unionsanitary.ca.gov are automatically forwarded to certain USD staff members, **which is standard practice for public agencies**. This is to ensure that any time-sensitive issues are brought to the District's attention in a timely manner, and to incorporate correspondence pertaining to the agenda items into the public record.

Emails to individual Board members are not automatically forwarded to staff.

District email communications are governed by the California Public Records Act. Pursuant to the Act, emails to individual Board members or the entire Board of Directors regarding District business that are sent to the official addresses above are treated as public records. **The public should have no expectation of privacy in such communications.**

*Changes proposed by the
Legal/Community Affairs
Committee*

Desk Item
Item 10
9/14/2015