



BOARD MEETING AGENDA
Monday, August 27, 2018
Regular Meeting - 7:00 P.M.

Union Sanitary District
Administration Building
5072 Benson Road
Union City, CA 94587

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

- | | |
|-------------|--|
| | 1. Call to Order. |
| | 2. Pledge of Allegiance. |
| | 3. Roll Call. |
| Motion | 4. Approve Minutes of the Regular Meeting of August 13, 2018. |
| | 5. Written Communications. |
| | 6. Oral Communications.
<small><i>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.</i></small> |
| Motion | 7. Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers, Inc. for the Alvarado Influent Pump Station Improvements Project <i>(to be reviewed by the Engineering and Information Technology Committee).</i> |
| Motion | 8. Consider Sponsorship and Participation in the Annual "Science in the Park" Event to be Held October 6, 2018 <i>(to be reviewed by the Legal/Community Affairs Committee).</i> |
| Direction | 9. Portfolio Management Services Update <i>(to be reviewed by the Budget & Finance Committee).</i> |
| Information | 10. Board Expenses for the 4 th Quarter of Fiscal Year 2018 <i>(to be reviewed by the Budget & Finance Committee).</i> |
| Information | 11. Check Register. |
| Information | 12. Committee Meeting Reports. <i>(No Board action is taken at Committee meetings):</i>
a. Budget & Finance Committee – Wednesday, August 22, 2018, at 10:00 a.m.
<ul style="list-style-type: none"> • Director Kite and Director Toy b. Engineering and Information Technology Committee – Thursday, August 23, 2018, at 12:30 p.m.
<ul style="list-style-type: none"> • Director Handley and Director Lathi |

- c. Legal/Community Affairs Committee – Friday, August 24, 2018, at 10:30 a.m.
 - Director Fernandez and Director Handley
- d. Legislative Committee – will not meet.
- e. Audit Committee – will not meet.
- f. Personnel Committee – will not meet.

Information

-
- 13. General Manager’s Report. (*Information on recent issues of interest to the Board*).
-
- 14. 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.
-
- 15. Adjournment – The Board will adjourn to a Special Meeting in the Boardroom on Thursday, August 30, 2018, at 6:00 p.m.
-
- 16. Adjournment – The Board will then adjourn to a Regular Meeting in the Boardroom on Monday, September 10, 2018, at 7:00 p.m.

The Public may provide oral comments at regular and special Board meetings; however, whenever possible, written statements are preferred (to be received at the Union Sanitary District at least one working day prior to the meeting).
If the subject relates to an agenda item, the speaker should address the Board at the time the item is considered. If the subject is within the Board’s jurisdiction but not on the agenda, the speaker will be heard at the time “Oral Communications” is calendared. Oral comments are limited to three minutes per individual, with a maximum of 30 minutes per subject. Speaker’s cards will be available in the Boardroom and are to be completed prior to discussion of the agenda item.

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



BUDGET & FINANCE COMMITTEE MEETING
Committee Members: Director Kite and Director Toy

Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

AGENDA
Wednesday, August 22, 2018
10:00 a.m.

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

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

Karen W. Murphy
Attorney

THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR KITE FROM THE EXTERIOR OF 35040 NEWARK BOULEVARD, NEWARK, CALIFORNIA. THE TELECONFERENCE LOCATION SHALL BE ACCESSIBLE TO THE PUBLIC.

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Regular Board meeting of August 27, 2018:
 - Portfolio Management Services Update
 - Board Expenses for the 4th Quarter of Fiscal Year 2018_____
5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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THE PUBLIC IS INVITED TO ATTEND

REVISED



Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

**ENGINEERING & INFORMATION TECHNOLOGY
COMMITTEE MEETING**

Committee Members: Director Handley and Director Lathi

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA

Thursday, August 23, 2018

12:30 P.M.

Karen W. Murphy
Attorney

**Alvarado Conference Room
5072 Benson Road
Union City, CA 94587**

**THIS MEETING WILL BE TELECONFERENCED WITH DIRECTOR HANDLEY AND DIRECTOR LATHI FROM
43225 MISSION BOULEVARD, FREMONT, CALIFORNIA. THE TELECONFERENCE LOCATION WILL BE
ACCESSIBLE TO THE PUBLIC.**

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Regular Board meeting of August 27, 2018:
 - Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers, Inc. for the Alvarado Influent Pump Station Improvements Project

5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings. 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 "Public Comment" 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 and are to be completed prior to discussion of the agenda item.

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THE PUBLIC IS INVITED TO ATTEND



Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

LEGAL/COMMUNITY AFFAIRS COMMITTEE MEETING

Committee Members: Director Fernandez and Director Handley

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

AGENDA
Friday, August 24, 2018
10:30 a.m.

Karen W. Murphy
Attorney

Alvarado Conference Room
5072 Benson Road
Union City, CA 94587

1. Call to Order

2. Roll Call

3. Public Comment

4. Items to be reviewed for the Regular Board meeting of August 27, 2018:
 - Consider Sponsorship and Participation in the Annual “Science in the Park” Event to be Held October 6, 2018_____
5. Adjournment

Items reviewed at committee meetings will be included in the agenda packet for the upcoming Board meeting. No action will be taken at committee meetings.

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 “Public Comment” 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 and are to be completed prior to discussion of the agenda item.

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THE PUBLIC IS INVITED TO ATTEND

**MINUTES OF THE MEETING OF THE
BOARD OF DIRECTORS OF
UNION SANITARY DISTRICT
August 13, 2018**

CALL TO ORDER

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

PLEDGE OF ALLEGIANCE

ROLL CALL

PRESENT: Anjali Lathi, President
Manny Fernandez, Vice President
Jennifer Toy, Secretary
Tom Handley, Director
Pat Kite, Director

STAFF: Paul Eldredge, General Manager
Karen Murphy, District Counsel
Sami Ghossain, Technical Services Manager
Armando Lopez, Treatment and Disposal Services Manager
James Schofield, Collection Services Manager
Laurie Brenner, Business Services Coach
Regina McEvoy, Executive Assistant to the General Manager/Board Clerk

VISITORS: Alice Johnson, League of Women Voters
Roelle Balan, Tri-City Voice Newspaper

APPROVE MINUTES OF THE SPECIAL MEETING OF JULY 16, 2018

It was moved by Secretary Toy, seconded by Director Kite, to Approve the Minutes of the Special Meeting of July 16, 2018. Motion carried unanimously.

APPROVE MINUTES OF THE SPECIAL MEETING OF JULY 17, 2018

It was moved by Director Handley, seconded by Vice President Fernandez, to Approve the Minutes of the Special Meeting of July 17, 2018. Motion carried unanimously.

APPROVE MINUTES OF THE REGULAR MEETING OF JULY 23, 2018

It was moved by Director Handley, seconded by Secretary Toy, to Approve the Minutes of the Regular Meeting of July 23, 2018. Motion carried unanimously.

APPROVE MINUTES OF THE SPECIAL MEETING OF JULY 24, 2018

It was moved by Director Kite, seconded by Vice President Fernandez, to Approve the Minutes of the Special Meeting of July 24, 2018. Motion carried unanimously.

WRITTEN COMMUNICATIONS

There were no written communications.

ORAL COMMUNICATIONS

There were no oral communications.

CONSIDER A RESOLUTION TO QUITCLAIM ONE EXISTING SANITARY SEWER EASEMENT BETWEEN CHRISTY STREET AND CUSHING PARKWAY IN THE CITY OF FREMONT

This item was reviewed by the Legal/Community Affairs Committee. Technical Services Manager Ghossain stated the District, in 1963, was granted a sanitary sewer easement between Christy Street and Cushing Parkway in Fremont. The easement contained sanitary sewer mains constructed in 1964, and in 2011 wastewater flows were rerouted to a new sewer main. A USD permit was issued in March 2018 for abandonment of the former main, the main and facilities within the easement have since been abandoned, and the work was approved by the District. Staff recommended the Board consider a resolution to quitclaim one existing sanitary sewer easement between Christy Street and Cushing Parkway, in the City of Fremont.

It was moved by Director Kite, seconded by Vice President Fernandez, to Adopt Resolution No. 2832 Quitclaiming One Existing Sanitary Sewer Easement Between Christy Street and Cushing Parkway, in the City of Fremont, California. Motion carried unanimously.

CONSIDER A RESOLUTION TO ACCEPT A SANITARY SEWER EASEMENT FOR TRACT 8163 – MISSION BOULEVARD TOWNHOMES, LOCATED ON MISSION BOULEVARD BETWEEN STEVENSON BOULEVARD AND WALNUT AVENUE IN THE CITY OF FREMONT

This item was reviewed by the Legal/Community Affairs Committee. Technical Services Manager Ghossain stated The New Home Company of Northern California, LLC, will construct 33 townhome units in six multifamily structures for Tract 8163, on Mission Boulevard between Stevenson Boulevard and Walnut Avenue in the City of Fremont. Sanitary sewer service to the residential development will be provided by new mains in the development's private roadways. The New Home Company of Northern California, LLC, constructed the new sewer mains and granted the District a sanitary sewer easement to allow access, maintenance, and service of the new sewer mains in the common private roadways of the development. Staff recommended the Board consider a resolution to accept a sanitary sewer easement for Tract 8163 – Mission Boulevard Townhomes, located on Mission Boulevard between Stevenson Boulevard and Walnut Avenue in the City of Fremont.

It was moved by Director Handley, seconded by Secretary Toy, to Adopt Resolution No. 2833 Accepting a Sanitary Sewer Easement for Tract 8163 – Mission Boulevard Townhomes, Located on Mission Boulevard Between Stevenson Boulevard and Walnut Avenue, in the City of Fremont, California. Motion carried unanimously.

CONSIDER CREATING AN AD HOC COMMITTEE ON EAST BAY DISCHARGERS AUTHORITY (EBDA) JPA NEGOTIATIONS AND APPOINT TWO BOARD MEMBERS TO THE COMMITTEE

General Manager Eldredge stated the East Bay Dischargers Authority (EBDA) is a Joint Powers Authority of which Union Sanitary District is a member. EBDA was formed in 1974 by a "Joint Exercise of Powers Agreement" (JPA Agreement) entered into by the City of Hayward, City of San Leandro, Oro Loma Sanitary District, Union Sanitary District, and Castro Valley Sanitary District. EBDA provides a transport system and outfall to collect effluent from six wastewater treatment plants in the East Bay, including two non-member agencies (Dublin San Ramon Services District and Livermore). EBDA transports treated wastewater and removes chlorine prior to its discharge through a deep-water outfall in the San Francisco Bay. Amendments to the JPA Agreement were approved in 1978, 1986, and 2007. The current JPA Agreement will expire in January of 2020. An ad hoc committee would meet and work with staff on JPA negotiations and bring a formal recommendation to the entire Board. Staff recommended the Board create an ad hoc committee on EBDA JPA negotiations and appoint two Board Members to the committee.

It was moved by Director Kite, seconded by Vice President Fernandez, to Appoint Director Handley and Secretary Toy to the EBDA JPA Ad Hoc Committee. Motion carried unanimously.

REVIEW AND CONSIDER APPROVAL OF ORGANIZATIONAL PERFORMANCE JOB CLASSIFICATION SERIES AND JOB RANGE

General Manager Eldredge stated the District combined the Training and Emergency Response Program Manager and Organizational Performance Manager classifications into a newly formed classification, Organizational Performance Manager (OPM). Two new lower level classifications have also been created, Organizational Performance Coordinator I & II (OPC I/II). The OPM will schedule and manage the work of the OPC I/II and the positions will report to the Human Resources Manager. Staff recommended the Board approve the Organizational Performance job class series and salary as outlined in the Board meeting packet.

It was moved by Secretary Toy, seconded by Director Kite, to Approve the Organizational Performance Job Class Series and Salary. Motion carried unanimously.

INFORMATION ITEMS:

Solar and Cogeneration Facilities Operational Update

This item was reviewed by the Budget & Finance Committee. Technical Services Manager Ghossain stated the total benefit to date for the Alvarado Wastewater Treatment Plant Solar Carport, constructed in 2011, was \$559,687 for a 63.2% simple payback. The total benefit to date for the Irvington Pump Station Solar Facility, constructed in 2012, was \$2,438,863 for an 85.5% simple payback. The total benefit to date for the Cogeneration Facility, constructed in 2014, was \$6,545,006 for a 52.5% simple payback.

Check Register

There were no questions regarding the Check Register.

COMMITTEE MEETING REPORTS:

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

GENERAL MANAGER'S REPORT:

General Manager Eldredge reported the following:

- General Manager Eldredge provided an overview of staff's extensive efforts to evaluate the secondary treatment process improvements project.
- Following the request for proposals (RFP) process, staff selected an actuarial firm that will present PERS and OPEB options and scenarios at a future Board meeting.
- Portfolio management RFP responses have been received and will be reviewed by staff.
- The General Manager Check-in/District Update Board Workshop will be held in the Alvarado Conference Room at 6:00 p.m. on Tuesday, August 21, 2018.
- The Rebranding Board Workshop will be held in the Alvarado Conference Room at 6:00 p.m. on Thursday, August 30, 2018.

OTHER BUSINESS:

There was no other business.

ADJOURNMENT:

The meeting was adjourned at 7:25 p.m. to a Special Meeting in the Alvarado Conference Room on Tuesday, August 21, 2018, at 6:00 p.m.

SUBMITTED:

ATTEST:

REGINA McEVOY
BOARD CLERK

JENNIFER TOY
SECRETARY

APPROVED:

ANJALI LATHI
PRESIDENT

Adopted this 27th day of August 2018



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: August 20, 2018

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services
Raymond Chau, CIP Coach
Thomas Lam, Associate Engineer

SUBJECT: Agenda Item No. 7 - Meeting of August 27, 2018
Authorize the General Manager to Execute Task Order No. 2 with Carollo Engineers, Inc. for the Alvarado Influent Pump Station Improvements Project

Recommendation

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Carollo Engineers, Inc. in the amount of \$478,499 for the Alvarado Influent Pump Station Improvements Project (Project).

Background

The District operates three regional sewage pump stations: Alvarado, Newark, and Irvington, which convey all wastewater collected from their respective sanitary sewer drainage basins to the Headworks of the Alvarado Wastewater Treatment Plant (Plant). The Alvarado Influent Pump Station (AIPS), originally constructed in 1985, is located within the Plant and transports wastewater from the Alvarado drainage basin to the Headworks through a force main that is separate from the other two pump stations. Refer to the Site Plan in Figure 1.

In 2000, the District replaced the original wastewater pumps, variable frequency drives (VFDs), and 480-volt power distribution switchboard with new equipment. The project also included new pump suction and discharge pipelines and structural improvements to the building. The pumps, VFDs, and switchboard are approaching the end of their useful service life. The pump maintenance activities have become more frequent and the equipment replacement parts more

difficult and expensive to purchase. To maintain the reliable pumping capacity of the AIPS, staff determined the need to replace the equipment.

The 2018 Plant Asset Condition Assessment Update Study recommended replacement of the head and diversion gates along with their hydraulic power units; the head and diversion box access hatch doors; the wet well channel slide gates; and the wet and dry well fans as the equipment have reached the end of their useful life and should be replaced. In addition, staff identified other pump station improvements such as replacement of the influent channel bar racks, dry well sump pump, wet well and building exterior lights (with LED lights), level sensors in the influent box and wet wells, 120-volt electrical panel, roof membrane, and miscellaneous coatings inside the building.

The 2017 Seismic Vulnerability Assessment Study evaluated the concrete structure of the AIPS and recommended strengthening the connections between the precast roof panels, between the above-grade precast walls and the roof, and between the above-grade precast walls and the below-grade cast-in-place walls. The strengthening of these connections will increase the rigidity of the roof and allow the seismic loads transfer from the above-grade structure to the below-grade cast-in-place walls.

The Project will include the improvements described above. Photos of some existing equipment are provided Figures 2 through 8.

Task Order No. 1 – Predesign Services

Staff executed Task Order No. 1 with Carollo in the amount of \$54,933 for predesign services of the Alvarado Influent Pump Station Improvements Project. The primary element of the predesign effort was to evaluate various pump types, manufacturers, and configurations that can meet the following design criteria:

- Pump station has a firm capacity of 37.8 million gallons per day (mgd). This includes diverting up to 15.5 mgd of the Site Waste Pump Station's flow to the AIPS during peak wet weather events. A pump station's firm capacity is calculated with the largest pump out of service.
- Pumps can operate reliably at a minimum flow of 3 mgd during the low-flow periods.
- Pumps can pass the solids and stringy materials (such as rags) in the wastewater.
- Pump configuration minimizes operation and maintenance challenges.

The predesign evaluation resulted in the selection of the five equally-sized pump configuration and the chopper pump type. The advantages of this selection are the following:

- Meet design flow criteria.
- Allow staff to operate the pumps to handle low and high flow conditions without complicated control strategies.

- Allow staff to stock the same parts for ease of pump repair and maintenance.
- Provide the best overall solids handling capability. A chopper pump incorporates a chopping system that can chop or macerate solids to protect the pump and downstream equipment from clogging.

The predesign phase also included the following evaluations:

- The new power distribution switchboard will have more reliable switching capabilities between the two different power sources that supply power to the station. This will also ensure the local motor control center has continuous power to maintain the control of the station’s influent gate.
- The new VFDs will have “clean power” capabilities to reduce wear on the electrical equipment and cables. The VFDs will also have Ethernet communication capability for connection with the Plant’s network switch.
- A preliminary assessment of the construction schedule that considered the delivery times of the major equipment and the dry weather construction window.

Carollo’s preliminary construction estimate for the Project is \$6.5 million.

Task Order No. 2 – Final Design Services

Carollo’s Task Order No. 2 fee for the final design phase of the Project is summarized below:

Task No.	Task Description	Fee
1	Project Management <ul style="list-style-type: none"> • Monthly Progress Reports • Monitor Scope, Schedule, and Decision Log 	\$14,404
2	Final Design <ul style="list-style-type: none"> • Predesign Added Scope • Final Design Kickoff Meeting • Seismic Improvements Coordination • LiDAR Survey and Setup 3D Base Drawings • Conduct Pump Station Surge Analysis • Preparation of Contract Documents • 50% and 90% Design Submittal Review Meetings 	\$444,108
3	Bid Period Services <ul style="list-style-type: none"> • Attend Pre-Bid Meeting • Preparation of Addenda 	\$19,987
	Total Not-to-Exceed Fee	\$478,499

Carollo's scope of services will include the preparation of the contract documents, facilitation of workshops with staff to review the design submittals and bid period services. Other Final Design tasks include:

- Conduct additional predesign services in the amount of \$9,934 to incorporate the Site Waste Pump Station's peak wet weather flows into the design criteria.
- Coordinate with the consultant of the Seismic Vulnerability Assessment Study on their assessment of the structural strengthening concepts.
- Conduct a LiDAR (stands for "light detection and ranging") survey of the pump station's interior and develop 3D drawings to assist staff with review of the equipment layouts.
- Conduct a pump station surge analysis to determine whether surge protection is necessary on the pump station's force main.

The design fee for the Project is \$478,499. The design fee is 7.4% of the preliminary construction estimate. For a project of this scope and size, design fees are typically between 7 and 9 percent of the construction estimate. Staff believes Carollo's design fee is reasonable given the level of effort to design the mechanical, electrical, and structural elements of the Project.

The total fee for the Project's agreement with Carollo is summarized in the table below:

Description	Fee
Task Order No. 1 – Predesign Services	\$54,933
Proposed Task Order No. 2 – Final Design Services	\$478,499
Total for this Agreement	\$533,432

Staff anticipates Carollo will complete the design of the Project by spring 2019 and the construction to begin by summer 2019.

Staff recommends the Board authorize the General Manager to execute Task Order No. 2 with Carollo Engineers, Inc. in the amount of \$478,499 for the Alvarado Influent Pump Station Improvements Project.

PRE/SEG/RC/TL;dl

Attachments: Figure 1 – Site Plan
Figures 2 through 8 – Photos
Task Order No. 2



Figure 1
Site Plan

Force mains from Newark and Irvington Pump Stations to the Headworks

Alvarado Influent Pump Station

Force main from Alvarado Influent Pump Station to the Headworks

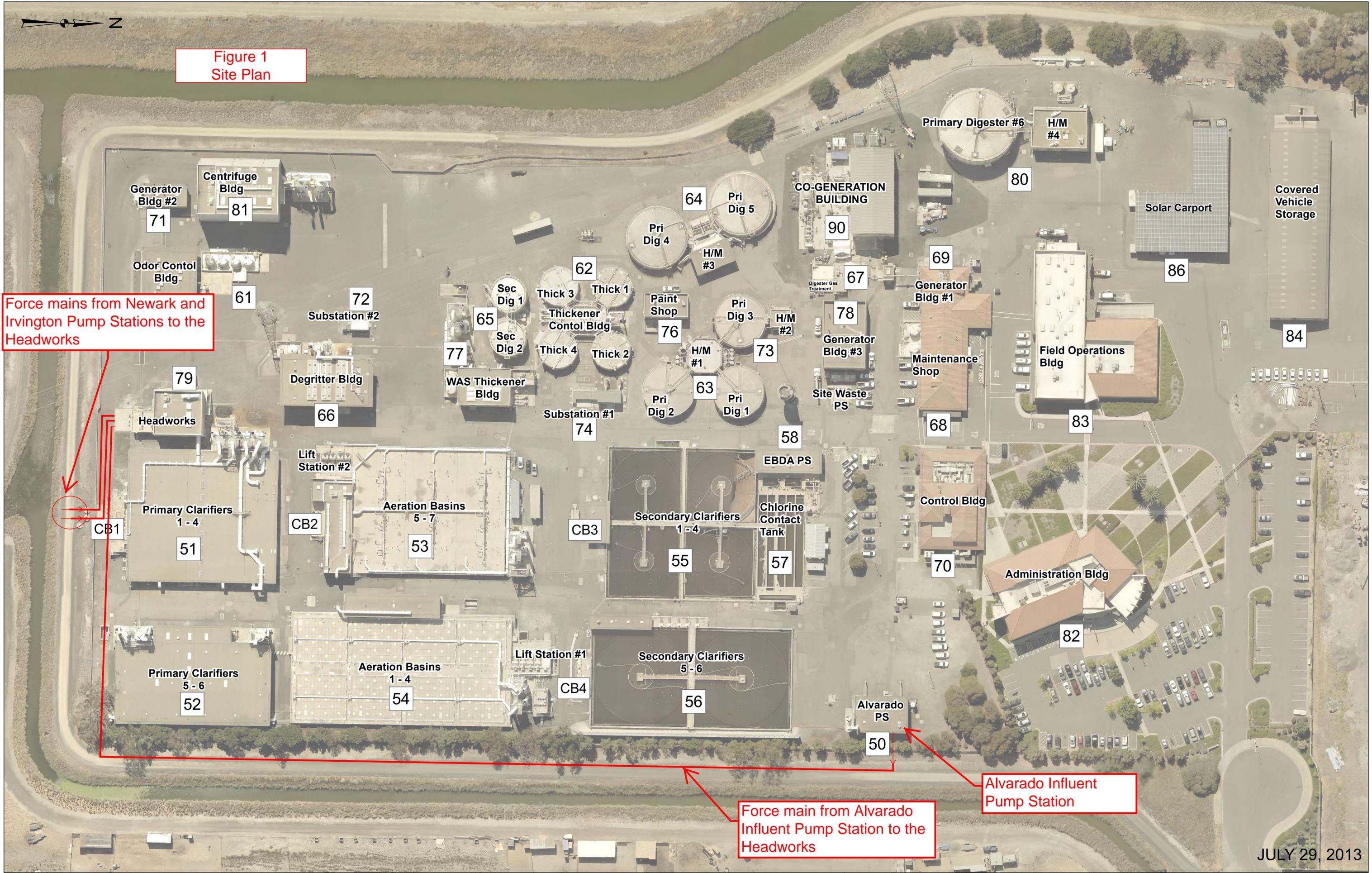




Figure 2 – Existing Wastewater Pumps and Piping at the Dry Well Basement



Figure 3 – Existing Piping at the Dry Well Intermediate Level



Figure 4 – Existing Diversion Gate

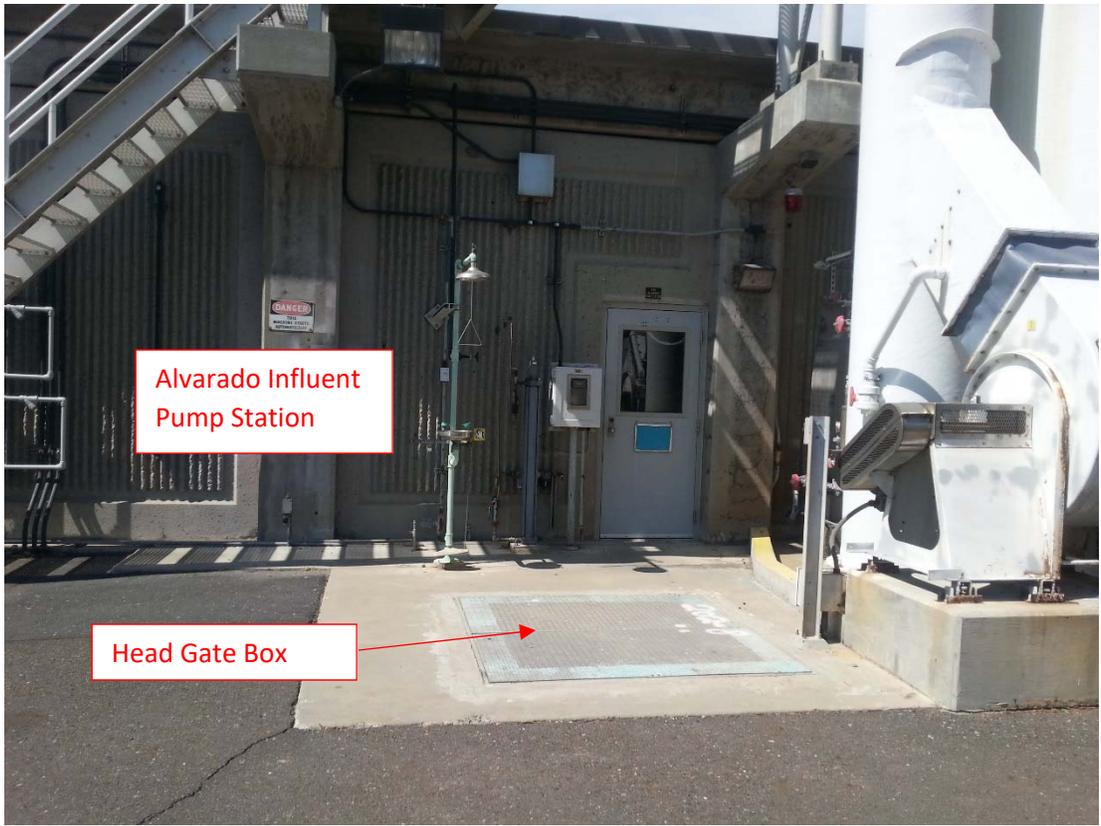


Figure 5 – Existing Head Gate



Figure 6 – Existing Channel Slide Gates



Figure 7 – Existing Variable Frequency Drives



Figure 8 – Existing Switchboard No. 5

ALVARADO INFLUENT PUMP STATION IMPROVEMENTS PROJECT

TASK ORDER NO. 2

to

AGREEMENT

BETWEEN

UNION SANITARY DISTRICT

AND

CAROLLO ENGINEERS, INC.

FOR

PROFESSIONAL SERVICES

This Task Order No. 2 is issued by the Union Sanitary District (District) and accepted by Carollo Engineers, Inc. (Engineer), pursuant to the mutual promises, covenants, and conditions contained in the Agreement between the above-named parties dated the 31st day of October 2017, associated with the Alvarado Influent Pump Station Improvements Project (Project).

1. PURPOSE

The purpose of this Task Order is to provide final design and bid period services associated with the Project.

2. PROJECT UNDERSTANDING

The Alvarado Influent Pump Station (AIPS) is used to transport wastewater from the Alvarado Basin sewers to the Headworks of the Alvarado Wastewater Treatment Plant. The station has a maximum capacity of approximately 43 mgd. The AIPS was originally constructed in 1985 and significant mechanical and structural improvements were made in 1999. The pump station has five existing Wemco Hidrostal pumps, three small pumps rated for approximately 6.5 mgd each and two large pumps rated for approximately 19.2 mgd each. Each pump is driven by Robicon 18-pulse VFDs. The incoming power is connected to an Eaton 480-volt switchgear which distributes power to the VFDs and a motor control center (MCC). Much of the equipment, including the pumps, VFDs, switchgear have exceeded their useful service life and are in need of replacement. The PLC and MCC were replaced within the last 5 years and will not require replacement.

Additionally, a Tier 3 Seismic evaluation was performed under a separate contract by Degenkolb Engineers. The evaluation report recommended strengthening the connections between the roof panel

joints, the wall to the roof, the precast wall to the cast-in-place wall, and the mezzanine platform to the column.

Finally, improvements identified by the Plant Asset Condition Assessment Update Study and the District's operation and maintenance staff will be included in the Project.

Anticipated major improvements and modifications under the final design are as follow:

Mechanical

- Replace the existing five Wemco Hidrostal pumps with chopper pumps of the same size.
- Replace the existing check valves. The new check valve will include a hydraulic cushion.
- Replace the gate valves and actuators in the dry well intermediate level.
- Replace the gate valves and actuators in the dry well lower level.
- Replace the dry well basement sump pump.
- Replace the actuator for the isolation gate between the two wet wells with an electric actuator.
- Replace the isolation gate between the two wet wells.
- Replace the diversion gate along with its hydraulic unit and vault hatch.
- Replace the head gate along with its hydraulic unit and vault hatch.
- Replace the four bar screen influent channel slide gates.
- Replace the three wet and dry well fans.
- Reinstall bar racks at two of the four bar screen channels.

Electrical

- Replace the existing five Robicon VFDs.
- Replace the existing Eaton switchboard.
- At the new switchboard, install a Kirk-Key and a manual transfer switch for the MCC.
- Upsize the electrical conduits to the vault outside the AIPS.
- Replace the existing 480V dry type transformer.
- Replace the dry well exhaust fan controller at the top level.
- Replace 120v electrical panel.
- Replace the dry well basement sump pump panel.
- Replace the gas detectors in the dry and wet well. Leave the display panels in place.
- Replace Headgate control panel inside the dry well top level.
- Remove the Headgate junction box outside.
- Replace level sensor for the influent channel. Wire the signals back to the PLC and remove the display panel outside the station.
- Replace the lights in the wet well with LED.
- Replace the 2 level sensors in the wet well intermediate level. Check if the sensors can be relocated to a more accessible location during design.
- Replace the outdoor lights with LED.
- Replace the light at the diversion structure.

The electrical design will include control strategies narrative for operating the equipment.

Structural

- Strengthen the roof panel joints as required to meet seismic design criteria.
- Strengthen the roof and wall connections as required to meet seismic design criteria.
- Strengthen the precast wall to the cast-in-place wall connections as required to meet seismic design criteria.
- Strengthen the platforms at the basement of the dry well, and at the mid-level of the wet well as required to meet seismic design criteria.

Miscellaneous

- Conduct a surge analysis to assess whether the surge valve to is necessary. If it is not, remove the valve along with the air compressor and air dryer. If it is, replace the air compressors and air dryers.
- Replace the roof membrane.
- Improve the floor drainage at the AIPS wet well mid-level.
- Coat the AIPS wet well mid-level floor.
- Coat the discharge header piping.
- Remove existing coating from interior concrete surfaces.
- Assess the coating inside the two wet wells and influent channels.
- Provide 3-D model of the three levels of the dry well.
- Assess the water leakage through the two electrical conduits in the intermediate level of the dry well and recommend repair.
- Improve the access to the 6” valves on the suction piping for pumps 1 and 5.
- Remove ladder at the dry well lower level
- Remove the hydropneumatic tank located to the north of the pump station.

The design and construction sequencing must allow for continued pumping of flows to the Alvarado WWTP or bypass pumping to avoid service disruptions.

3. PROJECT COORDINATION

All work related to this Task Order shall be coordinated through the District’s Project Manager, Thomas Lam.

4. ENGINEER’S SCOPE OF SERVICES

Engineer will provide the following specific services.

TASK 1.0 – PROJECT MANAGEMENT

Task 1.1-- Monthly Progress Reports

Engineer shall prepare and submit a written monthly invoice to the District which will show the percentage of work completed and the percentage of contract billed, summarize the work completed during the month, and summarize the work to be completed during the following month. Engineer shall conduct monthly meetings by teleconference to review progress and any deviations from the schedule

and budget. The Project Manager shall maintain decision and action logs as well as a critical issue log that will be updated at these monthly meetings.

Task 1.2 -- Monitor Budget, Schedule, and Decision Log

Engineer shall monitor and track the overall project scope, budget, and schedule, and update on a monthly basis. A log will be maintained throughout the project to record the decisions made by the project team. The log will contain decisions made during workshops and project meetings as well as during telephone conversations or emails.

Deliverables

- Monthly invoice (pdf).
- Monthly progress summary report (pdf).

TASK 2.0 – FINAL DESIGN

Task 2.1 – Predesign Added Scope

This task covers out of scope items prepared as part of the Predesign phase of the project which exceeded the allowable budget in Task Order No.1. These items consisted of the following:

November/December 2017

Engineer performed additional work associated with changes to Flow Criteria including contacting pump manufacturers and reanalysis of pump selections.

January 2018

Engineer evaluated potential options for accommodating additional flows from Site Waste Pump Station, including addition of a throttling valve to accommodate lower flows with larger pumps.

Engineer facilitated conference call with District staff to discuss alternatives for accommodating SWPS flows.

February and March 2018

Engineer facilitated onsite meeting presenting potential options for accommodating additional flows from Site Waste Pump Station, including addition of a throttling valve to accommodate lower flows with larger pumps.

Task 2.2 – Final Design Kickoff Meeting

Engineer shall conduct a Final Design Kickoff Meeting - This meeting will address the overall approach to managing the project tasks for final design, schedule, and budget, as well as communication and project team roles/responsibilities. The group will discuss the overall vision the District has for the project and confirm the approach based on decisions and recommendations developed during the Preliminary Design Phase.

Meetings will include key project participants including the Project Manager, Project Engineer, discipline engineers as required, and District staff.

Deliverables

- Agenda, information material, and meeting minutes.

Task 2.3 – Seismic Improvements Coordination

Carollo has received the Tier 3 seismic evaluation report prepared by Degenkolb Engineers under a separate contract. Carollo shall review the report and meet with Degenkolb Engineers to discuss the Tier 3 recommendations and consider the implementation of each for this project. Carollo will design the improvements required to meet the seismic design criteria as part of the project design implementation. The scope performed under this task shall include the following:

- Coordinate existing 1999 retrofit elements with new improvement recommendations and look for opportunities to optimize the design.
- Coordinate and unify roof diaphragm retrofit design with other structural improvement drawings and specifications to provide a cohesive Bid Set.

Deliverables

- Technical Memorandum – Tier 3 seismic retrofit implementation recommendations (pdf).

Task 2.4 – LiDAR Survey and Setup 3D Base Drawings

Our subconsultant, VARA^{3D} will scan and model all three levels of the Alvarado Influent Pump Station dry well and provide 3D drawings in Microstation format for use in the final design. Components included in the 3D Model are shown in Exhibit A - “Alvarado Influent Pump Station – Scope Checklist”.

Deliverables

- Native 3D files of the pump station in Microstation and converted AutoCAD formats.

Task 2.5 – Conduct Pump Station Surge Analysis

Our subconsultant, Northwest Hydraulic Consultants (NHC), will conduct a surge analysis of the Alvarado Influent Pump Station to determine whether the existing surge valve is necessary for the system.

Deliverables

- Draft and Final Memorandums summarizing findings of the Pump Station surge analysis. Submittal will be in PDF format.

Task 2.6 – Preparation of Contract Documents

The purpose of this task is to prepare design drawings, specifications, and cost estimates for the improvements identified in the Preliminary Design Report completed under Task Order 1 and outlined in Task Order No. 2. The final contract documents shall be stamped by California Professional Engineers and provided to the District for public advertisement and bid. Electrical and instrumentation engineering services shall be provided by Beecher Engineering, a subconsultant to Carollo. Structural engineering services related to the Tier 3 seismic evaluation shall be provided by Carollo.

Task 2.6.1 – Evaluate Additional Chopper Pump Manufacturers and Determine Method of Pump Procurement

Chopper pumps were selected as the preferred pump alternative as part of the preliminary design phase. However, currently only one manufacturer, Vaughan, has been confirmed to be able to provide pumps that meet the project design criteria. The District would prefer not to sole-source pumps for the project. Engineer shall evaluate other potential chopper pump manufacturers. If no “or-equal” manufacturer to the Vaughan chopper pump can be identified, Carollo shall assist the District with entering into a pre-negotiated price for the project pumps that can be included with the project Contract Documents.

Task 2.6.2 – 50 Percent Design Submittal

Engineer shall prepare and submit 50 percent complete design drawings, specifications, and cost estimate for District review.

Task 2.6.3 – 90 Percent Design Submittal

Engineer shall prepare and submit 90 percent complete design drawings, specifications, and cost estimate for District review.

Task 2.5.4 – Final Design Submittal

Engineer shall prepare and submit 100 percent design drawings, specifications, and cost estimate for District printing and solicitation of bid.

Deliverables

- Memorandum summarizing findings and recommendations related to chopper pump manufacturers. Submittal will be in PDF format.
- Design review submittals at 50 percent and 90 percent completion will include 11-inch by 17-inch sets of progress drawings, progress technical specifications, and Engineer’s estimate of probable construction cost. (5 copies and .pdf electronic. Provide the specifications in Word and PDF).
- Electronic drawings and technical specifications for the project will be submitted for the final submittal. Electronic specifications will be in Word and PDF format and electronic drawings will be in AutoCAD and PDF format.
- District will provide printing of final design documents for bidding.

Assumptions

- District will provide consultant with District's front end (Divisions 0 and 1) specifications and Design Standards for incorporation into the Contract Documents.
- Drawings and Specifications shall utilize the applicable District design standards criteria dated June 2012.
- Design to be in accordance with approved recommendations from the preliminary design phase.
- Technical specifications will be prepared in Engineer’s standard CSI MF95 format. Engineer will prepare modifications to District’s front-end documents to conform to Project requirements.

- 3D Microstation drawings will be prepared in Engineer's standard CAD standards, incorporating District's Design Standards where necessary. Drawings will be converted to AutoCAD format per Section 5 below for final deliverable.
- District will provide potholing of existing utilities if necessary.
- District will provide necessary drawings, engineering data, and other necessary information regarding existing facilities and baseline information as needed for design.
- District will obtain all necessary permits and prepare CEQA documents prior to construction.
- District will be the main point of contact with PG&E and other utilities as needed to apply for permits if necessary.
- Consolidated review comments from the District will be provided within 4 weeks of submittals.

Task 2.7 –50%, and 90% Design Submittal Meetings

Engineer shall conduct two design review meetings, one after each major submittal; 50%, and 90% review. Meetings will include key project participants including the Project Manager, Project Engineer, discipline engineers as required, and District staff. The purpose of these meetings will be to receive and discuss District staff review comments.

Deliverables

- Agenda and meeting minutes.
- Meeting material to present 50 percent and 90 percent design submittals, including construction constraints and construction cost estimate.
- Present 3-D model of the new pump configurations

TASK 3.0 - BID PERIOD SERVICES

Task 3.1 -- Prebid Meeting & Bid Evaluation

Prepare agenda and conduct one prebid meeting. Prepare meeting minutes for distribution by the District. If requested, Engineer shall assist in evaluating the bids after bid opening to make a recommendation for award.

Task 3.2 -- Respond to Bidder Inquiries & Prepare Addenda

The District will be the primary contact for contractor's questions during the bid period. The District will forward the technical questions to the Engineer who will provide response to the District.

Engineer shall prepare up to two addenda during the bid period. Addenda will be distributed by the District.

Deliverables

- Addenda (up to 2).

- Responses to questions forwarded from the District.

Assumptions

- District will manage bid period effort, including answering questions from bidders and the distribution of documents. Engineer shall provide answers for questions that District refers to Engineer.
- Bid period services will be provided by our subconsultant Beecher Engineering for electrical and instrumentation design related items.
- District will print and distribute bid documents and addenda.

5. DIGITAL SUBMITTAL REQUIREMENTS

The Engineer shall submit one hard copy and one electronic copy of the final base map that shows the project area in accordance with the following:

Digital files submitted shall be based on accurate coordinate geometry calculations and the California State Plane Coordinate System, Zone III in feet, NAD83. The digital file submitted shall be in AutoCAD Release 2000 or later, “.dwg” or “.dxf” (digital exchange format) format and shall be in one (1) drawing file containing all layers, illustrating all existing and proposed improvements within the project area as well as any off-site work associated with the project. Descriptive information (i.e. text) may be included in the appropriate layer, or added as a separate layer. Submitted digital files shall be in accordance with these minimum requirements, or as otherwise approved by the District. Submit these digital files on a CD or via an FTP site.

Each submittal shall be labeled with the project name, project number, company name, address and phone number.

All drawings shall use the California State Plane Coordinate System – Zone 3 in units of feet. The horizontal datum shall be the North American Datum of 1983 (NAD83) in units of feet and the vertical datum shall be the National Geodetic Vertical Datum of 1929 (NGVD29) in units of feet, or other datum as authorized by the District.

All files shall be uncompressed. Compressed files are acceptable only when using the WinZip utility or if the appropriate software to uncompress the data is provided.

All drawing files shall have a North orientation of vertical (i.e. toward the top of the page).

Layers shall contain, but not be limited to, the layers shown in Exhibit C.

Layer colors, line types and line weights shall be left to the discretion of the Engineer.

Submitted AutoCAD files shall NOT contain external reference or nested external reference files. All external references shall be bound into the drawing.

6. EQUIPMENT AND PIPELINE SCHEDULES

The Engineer shall provide a schedule in the design plans that list the equipment to be demolished or replaced and new equipment to be installed in the Project. The schedule shall contain at a minimum the Hansen equipment number, equipment name, location, horsepower/size, and other pertinent information associated with the equipment.

7. PAYMENT TO THE ENGINEER

Payment to the Engineer shall be as called for in Article 2 of the Agreement. The billing rate schedule is equivalent to an overall labor multiplier of 3.21, including profit. Subconsultants and outside services will be billed at actual cost plus 5%; other direct costs will be billed at actual cost; and mileage will be billed at prevailing IRS standard rate.

Total charges to the DISTRICT not-to-exceed amount shall be \$478,499. A summary of the anticipated distribution of cost and manpower between tasks is shown in Exhibit B.

The following table summarizes the previously-executed and proposed task orders and amendments under the Agreement:

Task Order / Amendment	Not to Exceed Amount	Board Authorization Required?	District Staff Approval
Task Order No. 1 – Pre-design Services	\$54,933	No	Paul Eldredge
Task Order No. 2 – Final Design Services	\$478,499	Yes	Paul Eldredge
Total	\$533,432		

8. TIME OF COMPLETION

Anticipated schedule for completion of Engineer's scope of services is summarized as follows:

- Notice to Proceed (NTP): August 28, 2018.
- Final Design Kickoff Meeting: Week of September 13, 2018.
- Conduct LiDAR Survey: September 2018
- Chopper Pump Alternatives and Procurement Memorandum: September 28, 2018
- 50% Design Submittal: November 16, 2018.
- 50% Design Review Workshop: Week of November 26, 2018
- Receive District Review Comments: December 14, 2018
- 90% Design Submittal: February 8, 2019.

- 90% Design Review Workshop: Week of February 22, 2019
- Receive District Review Comments: March 8, 2019
- Final Design Submittal: April 5, 2019.
- Bid Period: May 2019

9. KEY PERSONNEL

Engineer’s personnel assigned for this Task Order shall consist of the following individuals:

Scott Parker	Project Manager
Ricky Gutierrez	Project Engineer
Becky Gherini	Engineer
Todd Beecher	Project Electrical Engineer

Key personnel shall not be changed except in accordance with Article 8 of the Agreement.

IN WITNESS WHEREOF, the parties hereto have made and executed this Task Order No. 2 as of August _____, 2018 and therewith incorporate it as part of the Agreement.

DISTRICT

ENGINEER

UNION SANITARY DISTRICT

CAROLLO ENGINEERS, INC.

By: _____

By: _____

Paul R. Eldredge, P.E.

General Manager/District Engineer

Name: _____

Date: _____

Date: _____

By: _____

Name: _____

Date: _____

EXHIBIT A



PROPOSAL / MODELING or 2D Floor Plans SCOPE

PROJECT #:	Project Name : Alvarado Influent Pump Station
ADDRESS:	
CLIENT:	CONTACT: Richard Gutierrez
PHONE:	OFFICE:
PROJECT MANAGER:	ACREAGE:

Architectural Elements:

- Walls
- Doors - open
- Doors - closed (3D only)
- Representational Windows
- Detailed windows
- Garage Doors
- Columns
- Roof
- Ceiling
- Floor
- Beams
- Stairs
- Railings
- Fire Extinguishers
- Ladders
- Fixed Furniture
- Movable Furniture
- Fireplace
- Fence

Topography/Landscape:

- Surface
- Trees
- Bushes

- Floor Plans
- Exterior Elevations

MEP Elements:

- Ducting Simplified
- Ducting Detailed
- Air Terminals
- Mechanical Equipment
- Pipe (will only model pipe 1" in diameter or larger)
- Pipe Insulation
- Flexible tubing
- Conduit (will only model conduit 1" in diameter or larger)
- Insulator
- Adaptors/sockets
- Cable Trays
- Electrical Equipment
- Lighting Fixture
- Plumbing Fixtures
- Floor Drains
- Speakers, Cameras
- Sign Boards, Hose reels, Eye Wash
- Fire Sprinklers (simplified heads)
- Fire Alarms
- Pipe Hangers
- Pipe Brackets
- Pipe Racks
- Electrical Fixtures(i.e. Sockets, Switches)

- Reflected Ceiling Plans
- Roof Plans

Structural Elements:

- Beams
- Walls
- Columns
- Floor
- Truss
- Brace
- Foundation
- Bollards
- Nuts & Bolts
- Crane, Hooks
- Kick Plates/Foot Plates
- Ladder Cage

Model Deliverable:

- AutoCAD(Dwg)
- Revit(Rvt)
- Microstation(Dgn)

Point Cloud Deliverable:

- PTS
- PTX
- RCP/RCS

- Model Level of Detail (LOD)
- 100
 - 200
 - 300
 - 400
 - 500

NOTES (Identify specific elements that are important to model):

CONFIDENTIAL

This document contains confidential information owned by the VARA 3D. Access to & use of this information is strictly limited and controlled by the VARA. This document may not be copied, distributed, or otherwise disclosed outside of the Client's facilities except under written approval from VARA. Copying any or all of this document in any way is prohibited

CLIENT APPROVAL: _____ DATE: _____

EXHIBIT B

**DESIGN OF ALVARADO INFLUENT PUMP STATION IMPROVEMENTS PROJECT
LABOR AND BUDGET ESTIMATE FINAL DESIGN AND BID PERIOD SERVICES
UNION SANITARY DISTRICT**

Task	Task Description	SP	LPP	PP	P	CAD	WP	Total Hours	Labor Cost	Other Direct Costs (ODC)						Total Cost	
										Subconsultants		PECE	Mileage		Printing		ODC Total
										Name	Amount	\$11.70	Trips	Amount			
1.0	Project Management																
	1.1 - Monthly Progress Reports	8	0	16	0	0	0	24	\$5,661	Beecher	\$2,520	\$281	0	\$0	\$0	\$2,801	\$8,462
	1.2 - Monitor Scope, Schedule and Decision Log	8	0	16	0	0	0	24	\$5,661		\$0	\$281	0	\$0	\$0	\$281	\$5,942
	Total:	16	0	32	0	0	0	48	\$11,322		\$2,520	\$562	0	\$0	\$0	\$3,082	\$14,404
2.0	Final Design																
	2.1 - PreDesign Added Scope	1	0	18	31	0	1	51	\$9,337		\$0	\$597	0	\$0	\$0	\$597	\$9,934
	2.2 - Final Design Kickoff Meeting	4	0	4	8	0	0	16	\$3,412	Beecher	\$1,680	\$187	2	\$91	\$0	\$1,958	\$5,370
	2.3 - Seismic Improvements Coordination	2	8	2	0	0	0	12	\$3,161		\$0	\$140	1	\$46	\$0	\$186	\$3,347
	2.4 - LiDAR Survey and Setup 3D Base Drawings	0	0	2	8	8	0	18	\$2,883	VARA3D	\$11,015	\$211	1	\$46	\$0	\$11,271	\$14,154
	2.5 - Conduct Pump Station Surge Analysis	0	4	6	0	0	0	10	\$2,262	NHC	\$15,430	\$117	0	\$0	\$0	\$15,547	\$17,809
	2.6 - Preparation of Contract Documents	26	171	216	408	594	55	1,470	\$256,269	Beecher	\$105,000	\$17,199	3	\$137	\$2,000	\$124,336	\$380,605
	2.7 - 50% and 90% Design Submittal Review Meetings	8	6	12	12	0	2	40	\$8,788	Beecher	\$3,360	\$468	6	\$273	\$0	\$4,101	\$12,889
	Total:	41	189	260	467	602	58	1,617	\$286,112		\$136,484	\$18,919	13	\$593	\$2,000	\$157,996	\$444,108
3.0	Bid Period Services																
	3.1 - Attend Pre-Bid Meeting	0	0	6	0	0	0	6	\$1,190	Beecher	\$1,680	\$70	1	\$46	\$0	\$1,796	\$2,986
	3.2 - Preparation of Addenda	2	12	12	24	16	8	74	\$13,569	Beecher	\$2,520	\$866	1	\$46	\$0	\$3,432	\$17,001
	Total:	2	12	18	24	16	8	80	\$14,759		\$4,200	\$936	2	\$92	\$0	\$5,228	\$19,987
	Grand Total:	59	201	310	491	618	66	1,745	\$312,193		\$143,204	\$20,417	15	\$685	\$2,000	\$166,306	\$478,499

Legend:

SP Senior Professional - (Parker)
LPP Lead Project Professional - (Dadik & QM)
PP Lead Project Professional - (Gutierrez)
P Professional - (Gherini, Starr)
AP Assistant Professional
CAD CAD Drafter/Graphics
WP Word Processor

Notes:

- Mult. 3.21
- Mileage: Based on 85 miles round trip @ \$0.535/mile.
- Subconsultant has a 5% mark-up.
- Beecher - E&IC - \$210/hr.
- VARA3D rates are \$130/hr
- PECE - Project equipment and communication expense

Exhibit C
AutoCAD Layering Conventions
For Submission of Projects

Digital files submitted shall be based on accurate coordinate geometry calculations and the NAD83 State Plane Coordinate System (Zone III in feet) for horizontal and NAVD29 for vertical control. USD prefers that the digital file being submitted combine all elements of individual improvement plan sheets for the proposed development along with the elements of the Parcel Map or Tract Map into a **single** CAD formatted drawing. This drawing may contain (but not be limited to) the following layers.

Layer Group	Layer Name	Layer Type	Description
Misc	BORDER		Contains features such as north arrow, vicinity map, location map, title of plans, signature blocks, standard title block, scale bar, legend, page borders, etc.
Misc	DETAILS		Standard construction details of jurisdictional agencies.
Misc	TXT	Text	Layer containing general and construction notes, sheet index, special condition notes, bench mark description, etc.
Civil	BLDG	Polygon	Building foot prints
Civil	BLDG - SETBAK	Line	Building setback line
Civil	BM or BMK	Point	Benchmark
Civil	BNDRY	Polygon	Closed polygon of Tract or Parcel Map boundary
Civil	CL	Line	Centerline - public streets
Civil	CLPVT	Line	Centerline - private streets
Civil	CONTOURS	Polyline	Finished contour lines (grading plans) with elevation attribute (Z value)
Civil	ELEV or EL	Point	Finished spot elevations (grading plans) with elevation attribute (Z value)
Civil	EP	Line	Edge of pavement (I.e. lip of gutter or edge of pavement in the case of no curb and gutter construction)
Civil	ESMT*	Line or Polygon	Easements not related to utilities, such as emergency vehicle access, pedestrian walkways, landscape maintenance, etc.
Civil	FOC	Line	Face of curblines
Civil	LOT	Text	Text indicating lot number
Civil	LP or LIP	Line	Lip of gutter
Civil	MON	Point	Survey monuments
Civil	MONL	Line	Monument line
Civil	PARCEL	Polygon	Closed polygons of each parcel or lot
Civil	ROW	Line	Public rights-of-way

Exhibit C
AutoCAD Layering Conventions
For Submission of Projects

Civil	ROWPVT	Line	Private rights-of-way
Civil	SL	Point	Street light poles
Civil	SLCNDT	Line	Street lighting electrical conduit including pull boxes, service meters, etc.
Civil	STRIPE	Line	Street striping and pavement markings
Civil	STSIGN	Point	Street/traffic signs
Civil	SW	Line/Polygon	Sidewalks including handicapped ramps, driveways, back of walk and meandering walks
Civil	TOPO		All existing topological features (maybe submitted as a separate drawing file)
Civil	TS	Point	Traffic signal fixtures/poles
Civil	TSCNDT	Line	Traffic signal conduit including loop detectors, pull boxes, control cabinets etc.
Landscaping	LSIRR	Line	Public landscape irrigation (I.e. landscape maintenance districts) including service line from public main, water meters, valves, backflow and pressure regulating devices, control valves, etc.
Landscaping	LSTREES	Block insert	Street tree plantings that will be maintained by jurisdictional agency
Landscaping	LSPLANT	Block insert	Bushes, shrubs, groundcover and all other organic landscape material
Landscaping	LID	Polygon	Landscape Improvement Dist.
Landscaping	LLD	Polygon	Landscape/Lighting Dist.
Landscaping	LSMOW	Line or Polygon	Concrete mow strips
Misc	?TXT	Text	Layers containing text associated with various other layers where "?" denotes name of layer (e.g. sanitary sewer text would be named SSTEXT).
Misc	?TIC	Point	Tics at all beginning and ending curves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, etc. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1).
Sewer	SS	Line	Sanitary Sewer mains
Sewer	SSLAT	Line	Sanitary Sewer service laterals
Sewer	SSMH	Point	Sanitary Sewer manholes
Sewer	SSESMT	Polygon	Sanitary Sewer easements
Stormdrain	SDCI	Block insert	Storm drain curb inlets
Stormdrain	SDESMT	Polygon	Storm drain easements

Exhibit C
AutoCAD Layering Conventions
For Submission of Projects

Stormdrain	SDDI	Block insert	Storm drain drainage inlet
Stormdrain	SDMH	Block insert	Storm drain manhole
Stormdrain	SD	Line	Storm drain
Stormdrain	SDVLT	Block insert	Storm drain vault
Stormdrain	SDFILT	Point	Storm drain filtering device
Stormdrain	SDMH	Point	Storm drain manholes and/or junction boxes
Utility	ELEC	Line	Electric utility line including power poles, underground conduit, pull boxes, vaults, manholes, ducts banks, etc.
Utility	ESMT?	Polygon	Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate layer (i.e. ESMTPG&E, ESMTPE, etc.)
Utility	GAS	Line	Gas utility lines including service lines, valves, etc.
Utility	TELECOM	Line	All telecommunications utilities including (but not limited to) MCI, PacBell, Sprint, GTE, etc. showing location of underground lines, manholes, pullboxes, junction boxes, utility poles, duct banks, etc. Line type shall include name of utility.
Utility	CATV	Line	Television, cable TV showing location of underground lines, manholes, pullboxes, duct banks, utility poles, etc.
Utility	<i>UTILITY</i>	Line	Conduit layout of all utilities not specifically designated in this schema. Each utility may have a separate layer named for the utility and shall show all appurtenant facilities
Water	W	Line	Water mains
Water	WESMT	Polygon	Waterline easements
Water	WFH	Point	Fire Hydrants
Water	WFHV	Point	Fire Hydrant valves
Water	WSVC	Line	Water service lines
Water	WM	Point	Water meters
Water	WV	Point	Water valves

NOTE: THE ABOVE LAYER NAMING CONVENTIONS ARE MEANT **ONLY AS A GUIDE**. IT IS NOT NECESSARY TO MATCH EXACTLY THE NAMING CONVENTIONS IN THIS LIST. LAYERS THAT USE NUMBERS AS NAMES SHOULD BE RENAMED USE THE ABOVE NAMING CONVENTIONS OR STANDARD ENGINEERING PRACTICES.

Exhibit C
AutoCAD Layering Conventions
For Submission of Projects

Abbreviations	Description
CL	Centerline
AC	Alameda County
ACFC	Alameda County Flood Control and Water Conservation Dist.
ACWD	Alameda County Water Dist.
ARV	Air release valve
AT&T	AT&T Communications
BV	Butterfly valve
Bndry	Boundary
BO	Blow off valve
CB	Catch basin
CCSF	City and County of San Francisco
CNDT	Conduit
ESMT	Easement
EX	Existing
FH	Fire hydrant
FHV	Fire hydrant valve
IRR	Irrigation
LAT	Lateral (water, sewer, ect.)
M	Meter (water, irrigation, etc.)
MCI	MCI Telecommunications
MH	Manhole
MON	Monument
MONL	Monument line
PG&E	Pacific Gas & Electric
PUE	Public Utility Easement
RR	Railroad

Exhibit C
AutoCAD Layering Conventions
For Submission of Projects

ROW	Right-of-way
SD	Storm Drain
SIC	Signal Interconnect cable
SL	Street light
SPRINT	Sprint Communications
SS	Sanitary Sewer
TEL	Telephone
TSS	Traffic Signal System
TV	Cable TV
USD	Union Sanitary District
V	Valve (water, gas, etc.)
W	Water
WM	Water main

This list is offered as a starting point. You may add any other standard abbreviation necessary.



Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: August 7, 2018

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Sami E. Ghossain, Manager of Technical Services
Michael Dunning, Environmental Compliance Coach
Doug Dattawalker, Environmental Outreach Representative

SUBJECT: Agenda Item No. 8 - Meeting of August 27, 2018
**Consider Sponsorship and Participation in the Annual “Science in the Park”
Event to be Held October 6, 2018**

Recommendation

Consider sponsorship and participation in the annual “Science in the Park” event to be held October 6, 2018.

Background

The Science in the Park event started in 2011 with the goal to encourage people of all ages, interests, and backgrounds to explore science and unleash their curiosity. Over the past 4 events, Science in the Park has offered over 100 different interactive booths connecting the worlds of STEM (science, technology, engineering and mathematics) and attracted more than 5,000 people each event. Science in the Park is presented by Alameda County Supervisor Richard Valle’s office. Union Sanitary District supported this event the last time it was held in 2016.

This year, Science in the Park will held be on October 6 at the Alden E. Oliver Sports Park in Hayward. Science in the Park benefits the Hayward Area Recreation and Park District (H.A.R.D.) Children’s Programs, the New Haven Schools Foundation, the Fremont Education Foundation, the Newark Educational Foundation, and the Hayward Education Foundation.

This event is consistent with the District's outreach activities and promotion of the sciences and supports school districts in USD's service area. Thus, staff believes it would be beneficial for the District to participate in this event with either a "Dr. Mae Jemison" sponsorship of \$1,000 or a "Jane Goodall" sponsorship of \$2,500; and an interactive booth staffed by USD personnel. The \$1,000 and \$2,500 sponsorships include the following:

\$1,000

- Logo on website's sponsorship page with link to company website
- Booth at event

\$2,500

- Company logo on all 2016 Science in the Park marketing material
- Logo on website's sponsorship page with link to company website
- Booth at event

As this event takes place outside of USD's service area, staff wanted to ensure that the Board was comfortable with the District participating in this event.

PRE/SEG/MD/DD:av

Attachment: Science in the Park 2018 Information Packet



BOARD OF SUPERVISORS

RICHARD VALLE
Supervisor, Second District

Get Involved with Alameda County's Top Science Event of the Year!

Science in the Park started in 2011 with the goal to encourage people of all ages, interests and backgrounds to explore science, earth and health and unleash their curiosity. Over the past 4 events Science in the Park has offered over 100 different interactive booths connecting the worlds of STEM and attracted more than 5,000 people each year.

Science in the Park is an opportunity for the whole family to learn more about science, technology, engineering and mathematics (STEM), in a fun, engaging setting. This free biennial event makes STEM compelling and accessible to children, families and the general public. The event includes interactive/hands-on activities, live animal demonstrations, an egg drop contest, and much more! (Would you like to add anything)

Science in the Park will be on October 6, 2018 at the Alden E. Oliver Sports Park in Hayward. This event promises to be fun for the whole family!

Science in the Park benefits the Hayward Area Recreation and Park District (H.A.R.D.) Children's Programs, the New Haven Schools Foundation, the Fremont Education Foundation, the Newark Educational Foundation, and the Hayward Education Foundation.

Sponsorship opportunities are now available for the 2018 festival. Help us expand our programs, services and promotional activities to deliver a great festival that attracts even more visitors. Join us in the effort to expand this fun festival, build our partnerships, and increase STEM learning amongst our youth. For more information about Science in the Park, please visit www.scienceinthepark.org, or contact our office at (510) 272-6692 or District2@acgov.org

We invite you to unleash your curiosity, discover your inner Einstein and become a supporter of Science in the Park!

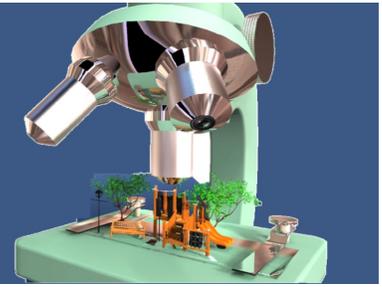
Sincerely,

Supervisor Richard Valle
Alameda County Board of Supervisors, District 2

Science in the Park

Saturday, October 6, 2018 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and



History

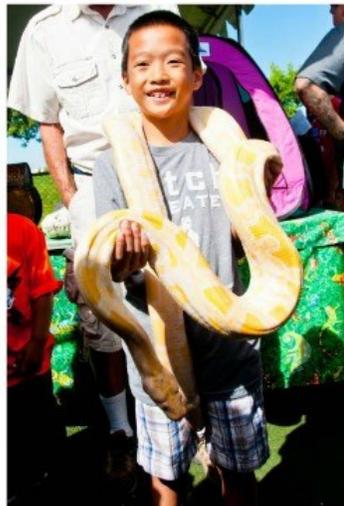
Science in the Park is a reawakening of the Annual Union City Science, Earth and Health Festival that started in 1997 under the leadership of Richard Valle. This collaborative free event was supported by the City of Union City, the New Haven Unified School District, the Union City Fire Department and the Union City Police Department. City residents brought their family and friends to James Logan High School for a day to explore educational exhibits, informational booths, live performances, interactive demonstrations and friendly competitions.

Throughout the 11 years, the Annual Union City Science, Earth and Health Event covered topics such as nutrition, robotics, animal wildlife, global warming and much more. Overall, the Union City Science, Earth and Health Festival created a legacy of excitingly safe, fun, and educational experiences for families and friends to explore.

In 2011, Tri-CED Community Recycling in partnership with the Hayward Area Recreation and Park District (H.A.R.D.) decided to bring back this successful event, but on an expanded scale. Aimed at reaching a broader audience, the event moved to Alden E. Oliver Sports Park and incorporated Hayward Unified School District, in addition to New Haven School District as in previous years.



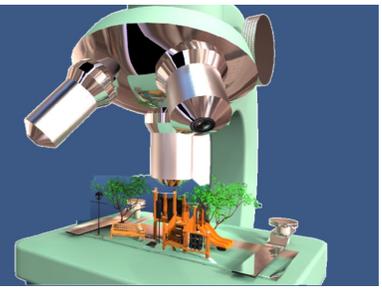
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Science in the Park

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Frequently Asked Questions

- **Who benefits from Science in the Park?**

Science in the Park not only provides an opportunity to encourage children to be more interested by science, technology, engineering and mathematics (STEM) related topics, but also benefits the education foundations of Alameda County Supervisorial District 2. This includes Hayward Education Foundation, New Haven Schools Foundation, Newark Educational Foundation and Fremont Education Foundation. A donation is also made to Hayward Area Recreation and Park District's (HARD) Children's Programs.

- **Is Science in the Park only for STEM?**

Science in the Park promotes STEM, as well as the environment, art, and health! In the past, we have had organizations come out and give free health screenings, free dental screenings, host art activities, as well as interactive activities promoting awareness of climate change.

- **How is Science in the Park funded?**

Science in the Park has previously been funded through the generosity of companies and non-profits around Alameda County. Through funds raised, the event is able to be at no cost to all participants and attendees. All contributions donated to Science in the Park are used to supply day of materials, as well as, support the education foundations around District 2.

- **How can I sponsor?**

Thanks to generous donations, Science in the Park has been an exploration of STEM for over 5,000 children and families. If you or your organization would like to be a sponsor, please check out the sponsor levels and form on the following pages. If you have any questions, please contact the office at (510) 272-6692 or [District2@ agov.org](mailto:District2@agov.org).

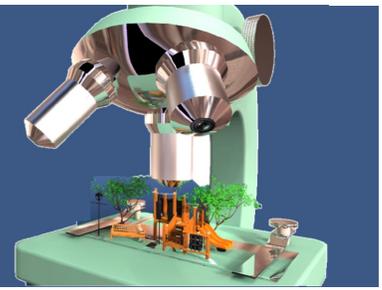
- **How can I help?**

There are many ways to support Science in the Park. The event is led by generous supporters, helpful volunteers and interested scientists! All interested parties are encouraged to call the District 2 office to find ways you can help. Contact the office at (510) 272-6692 or [District2@ agov.org](mailto:District2@agov.org).

Science in the Park

Saturday, October 6, 2018 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and



Become a Sponsor of Science in the Park

Science in the Park is organized by the Alameda County Board of Supervisors, District 2 Office and is funded through corporate sponsorships and private donations. Beneficiaries of the festival are the Hayward Area Recreation and Park District Children's Programs, New Haven Schools Foundation, Hayward Education Foundation, Fremont Education Foundation, and Newark Educational Foundation. There are a variety of sponsorship opportunities to choose from, all designed to increase awareness of

Albert Einstein Sponsorship - \$10,000 +

- ★ Mention of company name during opening and closing ceremonies
- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Premier position of logo on website's homepage and sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Sir Isaac Newton Sponsorship - \$5,000

- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Premier position of logo on website's homepage and sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Jane Goodall Sponsorship - \$2,500

- ★ Company logo on all 2016 Science in the Park marketing material
- ★ Logo on website's sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Dr. Mae Jemison Sponsorship - \$1,000

- ★ Logo on website's sponsorship page with link to company website
- ★ Booth at event (must include interactive activity or can banner with company logo on a Teacher booth)

Teacher Sponsorship - \$500

The Teacher Sponsorship is a sponsorship level for companies to contribute to the event, but do not have the staff to spare for a booth or is not involved in the science, earth and health industries. By sponsoring a Teacher, you are helping to pay for the teacher's time and materials needed for the teacher to produce a fun, interactive activity for his/her booth during the event. Sponsorship also includes:

- ★ Mention of company name on website sponsorship page with link to company website

Science in the Park

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2018 Sponsorship Form

This initiative would not be possible without the generous support of our sponsors. With your sponsorship, Science in the Park will continue to change the lives of youth, parents, teachers, and the

YES! I would like to be part of the fun & support Science in the Park!

Company or Organization/Group Name

Contact Person

Mailing Address

City/State/Zip

Phone # of Company Contact

E-mail Address

Sponsorship Levels

- Albert Einstein \$10,000
- Sir Isaac Newton \$5,000
- Jane Goodall \$2,500
- Dr. Mae Jemison \$1,000
- Teacher \$500
- Other _____

In-Kind Donation

We would equally appreciate in-kind donations such as water bottles, prize booth giveaways, activity materials, etc.

Please specify:

**Please make checks payable to:
New Haven Schools Foundation
P.O. Box 1574
Union City, CA 94587**

Signature

Date

Please mail form to:
Supervisor Richard Valle's Office
c/o Science in the Park
1221 Oak Street, Suite 536

For more information, please contact:
Supervisor Richard Valle's Office
Tel: (510) 272-6692 Fax: (510) 271-5115
District2@acgov.org

Science in the Park

Saturday, October 6, 2018 at the
Alden E. Oliver Sports Park in Hayward

Presented by Supervisor Richard Valle's Office and



2018 Participation Form

We are looking for individuals, teachers, companies and organizations to provide hands-on activities and demonstrations to promote sciences and health. This a family friendly free event.

Company or Organization/Group Name

Contact Person

Mailing Address

City/State/Zip

Phone # of Company Contact

E-mail Address

of booths

1 booth = 1 10' table & 2 chairs

Availability and quantity of tables and chairs on a first serve basis.

Description of Activity:

Signature

Date

Forms must be submitted by Wednesday August 15, 2018

Please mail form to:

Supervisor Richard Valle's Office
c/o Science in the Park
1221 Oak Street, Suite 536

For more information, please contact:

Supervisor Richard Valle's Office
Tel: (510) 272-6692 Fax: (510) 271-5115
District2@acgov.org



Directors

Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

Officers

Paul R. Eldredge
*General Manager/
District Engineer*

Karen W. Murphy
Attorney

DATE: August 27, 2018

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Laurie Brenner, BS Coach

SUBJECT: Agenda Item No. 9 - Meeting of August 27, 2018
Receive Update on Portfolio Management Services and Provide Direction

Recommendation

Receive an update on USD's Portfolio Management Services Request for Proposal (RFP) process and provide direction as necessary.

Background

The District's investment portfolio consists of a variety of holdings, including the Local Agency Investment Fund (LAIF), California Asset Management Program (CAMP), Bank of New York Mellon (our trustor), and standard operating and payroll accounts with Union Bank. The average rate of return (yield percentage) number reported monthly to the Board of Directors in the monthly operations report includes all these elements, with an average yield of 1.80% in June of 2018. If the LAIF and CAMP deposits are subtracted from portfolio, the District's annual yield would be approximately 2.78%.

The District has not purchased any investments since June of 2017, when the Chief Financial Officer resigned. As a result, the District's average monthly interest yield is expected to decrease over the next two to three years, as existing holdings mature. The District has managed its portfolio with limited staff time and involvement. With the historical rate of returns in LAIF and CAMP being higher than they have been recently, this investment strategy has been a reasonable approach for the District. Although interest rates appear to be

improving, staff believes it is prudent for the District to explore an active management strategy that typically involves a professional portfolio manager.

Staff recently issued an RFP to obtain information on portfolio management services, including service options, costs, and estimated rates of return from professional investment firms specializing in the public sector. This strategy is intended to ensure the District’s continued financial stability and to maximize investment returns to the extent practicable, while maintaining compliance with all policy, legal and regulatory requirements for government agency investments.

All qualified respondents clearly demonstrated the capability and experience necessary to provide investment portfolio management services to the District and could do so in a cost-effective manner.

High level summary information from the review of the RFP respondents is captured in the table below (rounded):

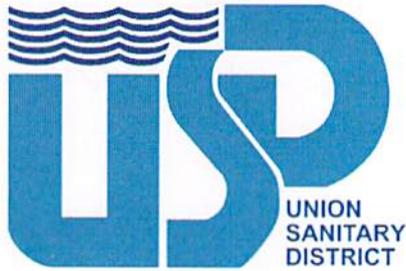
	Estimated Return Rate	Costs/Fees	Annualized \$ based on ROR
USD	2.78%	\$0	\$1,300,000
RFP Respondent Ranges	2.13-2.80%	\$38,000-\$52,000	\$1,002,000-1,320,000

Staff feels that the benefits of engaging an external investment management firm far outweigh the costs, as indicated in the table above.

Benefits associated with engaging a professional investment management services firm include the following:

- Focused knowledge and expertise in investment strategies and instruments
- Improved budgeting capabilities; more predictable and sustainable revenue stream (returns)
- Enables staff to develop knowledge without putting District assets at risk
- Greater awareness of economic, market, and banking trends impacting District assets
- More rapid response to and communication of pending or potential legal or regulatory changes on the horizon
- Improved reporting capabilities for the Board (customization)
- District does not relinquish ultimate authority over investments

Prior to investing anymore time in this effort, staff wanted to present the preliminary information to the Board to ensure this concept is still makes sense for the District.



Directors
Manny Fernandez
Tom Handley
Pat Kite
Anjali Lathi
Jennifer Toy

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

Karen W. Murphy
Attorney

DATE: August 16, 2018

MEMO TO: Board of Directors - Union Sanitary District

FROM: Paul R. Eldredge, General Manager/District Engineer
Laurie Brenner, Business Services Coach

SUBJECT: Agenda Item No. 10 - Meeting of August 27, 2018
Information Item: **Board Expenses for the 4th Quarter of Fiscal Year 2018**

Recommendation

Information only.

Background

Please see attached the Board of Directors Quarterly Travel and Training Expenditure Report for the 4th quarter of Fiscal Year 2018.

BOARD OF DIRECTORS
QUARTERLY TRAVEL AND TRAINING EXPENDITURE REPORT
4TH QTR, FISCAL YEAR 2018

Board Members	Description	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Beginning Balance	Y-T-D Expense	Balance Available
FERNANDEZ, MANNY	Fremont State of the City Luncheon			45.00				
	Newark State of the City Luncheon				45.00			
	TOTAL	0.00	0.00	45.00	45.00	5000.00	90.00	4910.00
HANDLEY, TOM	Registration Fee - Annual CASA Conference - San Diego, August 22-24, 2017	550.00						
	Airfare - Annual CASA Conference	149.96						
	Lodging - Annual CASA Conference	654.30						
	Mileage - Annual CASA Conference	21.03						
	Meals - Annual CASA Conference	29.18						
	Airport Parking - Annual CASA Conference	45.83						
	Rental Car - Annual CASA Conference	109.02						
	Union City State of the City Luncheon		30.00					
	Fremont State of the City Luncheon				45.00			
	Newark State of the City Luncheon					45.00		
TOTAL	1,559.32	30.00	45.00	45.00	5000.00	1,679.32	3320.68	
HARRISON, JENNIFER								
	TOTAL	0.00	0.00	0.00	0.00	5000.00	0.00	5000.00
KITE, PAT	Lorman All Access Education Pass		537.01					
	Newark Chamber of Commerce Luncheon			45.00				
	Newark State of the City Luncheon				45.00			
	TOTAL	0.00	537.01	45.00	45.00	5000.00	627.01	4372.99
LATHI, ANJALI	Union City Chamber of Commerce Spirit Awards Luncheon	45.00						
	Lorman All Access Education Pass		537.01					
	Fremont State of the City Luncheon			45.00				
	CWEA Membership			180.00				
	Newark State of the City Luncheon				45.00			
	TOTAL	45.00	537.01	225.00	45.00	5000.00	852.01	4147.99
GRAND TOTAL	1,604.32	1,104.02	360.00	180.00	25000.00	3,248.34	21751.66	

The Board of Directors' Quarterly Expenditure Report is attached as part of the check register in accordance with Board Member Business Expense policy adopted September 5, 1991

**UNION SANITARY DISTRICT
CHECK REGISTER
08/04/2018-08/17/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168596	8/9/2018		20180629	SWRCB - STATE WATER RESOURCES	SRF LOAN #C064771110 - IRVINGTON PROJECT		
						\$908,164.05	\$908,164.05
168563	8/9/2018	143	506.2	CRATUS INC	FORCE MAIN CORROSION REPAIRS - PHASE 2		
						\$447,041.04	\$447,041.04
168555	8/9/2018	143	11321890	BROWN & CALDWELL CONSULTANTS	PRIMARY DIGESTER NO. 7		
						\$357,594.32	\$357,594.32
168589	8/9/2018		8402	ROBSON HOMES LLC	REFUND # 21277		
						\$115,000.00	\$115,000.00
168625	8/16/2018	143	11322282	BROWN & CALDWELL CONSULTANTS	STANDBY POWER SYSTEM UPGRADE		
						\$37,752.87	\$43,311.89
	8/16/2018	143	11322289		EMERGENCY OUTFALL OUTLET IMPROVEMENTS		
						\$5,559.02	
168680	8/16/2018	141	218066	TANNER PACIFIC INC	PROJ: TWIN FORCE MAIN RELOCATION - PHASE 1		
						\$39,468.75	\$39,468.75
168687	8/16/2018		533620180723	US BANK CORP PAYMENT SYSTEM	MONTHLY CAL-CARD STMT - JULY 2018		
						\$25,622.04	\$25,622.04
168690	8/16/2018	150	14716	FONG & FONG PRINTERS & LITHO	POSTAGE FOR NEWSLETTER		
						\$23,826.96	\$23,826.96
168642	8/16/2018		903638459	EVOQUA WATER TECHNOLOGIES	4528 GALS HYDROGEN PEROXIDE		
						\$22,312.96	\$22,312.96
168630	8/16/2018	143	381153634	CH2M HILL INC	ODOR CONTROL ALTERNATIVES STUDY		
						\$20,666.74	\$20,666.74
168567	8/9/2018		2958655A	DELTA DENTAL SERVICE	JULY 2018 DENTAL		
						\$2,476.22	\$20,329.24
	8/9/2018		2958655C		JULY 2018 DENTAL		
						\$17,853.02	
168607	8/16/2018	121	68092	3T EQUIPMENT COMPANY INC	1-1" PIRANAH SEWER HOSE		
						\$2,309.14	\$17,635.73
	8/16/2018		68083		(25) PIPE PATCH KITS		
						\$15,326.59	

**UNION SANITARY DISTRICT
CHECK REGISTER
08/04/2018-08/17/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168685	8/16/2018	110	892794	UNIVAR USA INC	4949.4 GALS SODIUM HYPOCHLORITE		\$17,616.36
	8/16/2018	110	892435		5050.8 GALS SODIUM HYPOCHLORITE	\$3,551.96	
	8/16/2018	110	892335		4700.10 GALS SODIUM HYPOCHLORITE	\$3,624.74	
	8/16/2018	110	892031		4798.10 GALS SODIUM HYPOCHLORITE	\$3,373.06	
	8/16/2018	110	892816		5048.7 GALS SODIUM HYPOCHLORITE	\$3,443.38	
						\$3,623.22	
168582	8/9/2018		70181	MNS ENGINEERS INC	02/2018 TEMP LABOR OSWALD, W. - BASE HOURS	\$2,166.00	\$17,109.00
	8/9/2018		69925		01/2018 TEMP LABOR OSWALD, W. - BASE HOURS	\$4,332.00	
	8/9/2018		70183-R1		02/2018 TEMP LABOR OSWALD, W. - ADDITIONAL FEES	\$3,063.00	
	8/9/2018		69929		01/2018 TEMP LABOR OSWALD, W. - ADDITIONAL FEES	\$7,548.00	
168610	8/16/2018		4107393020180731	ALAMEDA COUNTY WATER DISTRICT	SERV TO: 07/31/18-MTR HYD 15141193	\$506.08	\$14,913.51
	8/16/2018		4108253920180731		SERV TO: 07/31/18-MTR HYD 32896061	\$506.08	
	8/16/2018		4107393420180731		SERV TO: 07/31/18-MTR HYD 15952331	\$637.80	
	8/16/2018		4107361320180731		SERV TO: 07/31/18-MTR HYD 16320037	\$506.08	
	8/16/2018		4107393220180731		SERV TO: 07/31/18-MTR HYD 16435275	\$650.55	
	8/16/2018		4107393120180731		SERV TO: 07/31/18-MTR HYD 16435270	\$722.78	
	8/16/2018		4107393520180731		SERV TO: 07/31/18-MTR HYD 16435269	\$506.08	
	8/16/2018		4107361120180731		SERV TO: 07/31/18-MTR HYD 15001101	\$514.58	
	8/16/2018		4047286120180802		SERV TO: 08/02/18 - PASEO PADRE	\$56.58	
	8/16/2018		4071036120180722		SERV TO: 07/19/18-BENSON ROAD	\$10,306.90	

**UNION SANITARY DISTRICT
CHECK REGISTER
08/04/2018-08/17/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168662	8/16/2018	132	7	MUSGRAVES CONSULTING SERVICES	SPECIALTY FINANCIAL SERVICES CONSULTANT	\$14,415.10	\$14,415.10
168601	8/9/2018	120	18070866	UNDERGROUND SERVICE ALERT	USA ANNUAL MEMBERSHIP	\$11,657.96	\$11,657.96
168556	8/9/2018	110	33527	CALIFORNIA WATER TECHNOLOGIES	43,580 LBS FERROUS CHLORIDE	\$5,306.55	\$10,881.71
	8/9/2018	110	33493		43,760 LBS FERROUS CHLORIDE	\$5,575.16	
168619	8/16/2018	143	6456	BAY AREA COATING CONSULTANT	FMCR2 - COATINGS INSPECTION	\$8,606.25	\$10,518.75
	8/16/2018	143	6446		COATING & LINING INSPECTION SERVICES	\$1,912.50	
168602	8/9/2018	110	891417	UNIVAR USA INC	4797.7 GALS SODIUM HYPOCHLORITE	\$3,443.10	\$10,335.02
	8/9/2018	110	890698		4602.2 GALS SODIUM HYPOCHLORITE	\$3,302.79	
	8/9/2018	110	891345		5001.2 GALS SODIUM HYPOCHLORITE	\$3,589.13	
168657	8/16/2018	170	138868	KNAPP POLLY PIG INC	(1) NEW PIG 40" X 27"	\$8,119.38	\$8,119.38
168611	8/16/2018		5189274	ALL INDUSTRIAL ELECTRIC SUPPLY	(50) LED BULBS	\$400.96	\$7,799.23
	8/16/2018	170	5188863		(2) IPS DRYWELL LIGHTS	\$3,566.88	
	8/16/2018	170	5188869		(1) RADIATOR MOTOR	\$2,768.30	
	8/16/2018	172	5188944		(1) PROJECTOR HORN	\$1,063.09	
168658	8/16/2018	173	16521	LOOKINGPOINT INC	COMCAST MIGRATION	\$1,000.00	\$7,534.00
	8/16/2018	173	16506		EDGE ROUTER COMCAST	\$6,534.00	
168579	8/9/2018		37432220180801	LINCOLN NATIONAL LIFE INS COMP	LIFE & DISABILITY - AUGUST 2018	\$7,510.07	\$7,510.07
168628	8/16/2018	143	169089	CAROLLO ENGINEERS	DIGESTER NO. 3 INSP & REHAB	\$6,713.73	\$6,713.73
168553	8/9/2018	150	1051	BAYWORK	ANNUAL FEE - 2017/2018 SIGNATORY FEE	\$6,105.00	\$6,105.00

**UNION SANITARY DISTRICT
CHECK REGISTER
08/04/2018-08/17/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168667	8/16/2018	110	1262768	POLYDYNE INC	42,620 LBS CLARIFLOC WE-539		
						\$5,613.05	\$5,613.05
168626	8/16/2018		33553	CALIFORNIA WATER TECHNOLOGIES	42,600 LBS FERROUS CHLORIDE		
						\$5,459.38	\$5,459.38
168646	8/16/2018		201681803	GATEWAY PRODUCTS GROUP INC	(12) SPARK PLUGS		
						\$4,071.12	\$4,071.12
168640	8/16/2018		5832	ENERGY CHOICE INC	(2) AIR FILTERS / (36) SPARK PLUG GASKETS		
						\$991.28	\$3,969.04
	8/16/2018		5827		2 LUBE OIL FILTERS		
						\$1,376.86	
	8/16/2018		5831		(12) GASKETS / (48) O-RINGS		
						\$648.00	
	8/16/2018		5825		(2) AIR FILTERS		
						\$952.90	
168588	8/9/2018	143	26244	RMC WATER AND ENVIRONMENT	FORCE MAIN CONDITION ASSESSMENT		
						\$3,920.85	\$3,920.85
168617	8/16/2018		11662504	AT&T	SERV: 06/20/18 - 07/19/18		
						\$20.30	\$3,793.79
	8/16/2018		11662506		SERV: 06/20/18 - 07/19/18		
						\$3,563.12	
	8/16/2018		11662528		SERV: 06/20/18 - 07/19/18		
						\$210.37	
168655	8/16/2018	170	587184	KAMAN INDUSTRIAL TECHNOLOGIES	EFFLUENT SCREENS CHAIN AND SPROCKETS		
						\$3,319.93	\$3,715.58
	8/16/2018	170	513180		2 U-JOINT KITS		
						\$395.65	
168613	8/16/2018		20180710	AMAZON.COM LLC	07/18 - ASTD OFFICE SUPPLIES		
						\$3,676.34	\$3,676.34
168638	8/16/2018	123	597	DRONEBOIS LLC	FORCE MAIN INSPECTION		
						\$3,475.00	\$3,475.00
168618	8/16/2018	170	148289	BABBITT BEARING CO INC	CERAMIC COAT MOYNO PARTS		
						\$3,429.25	\$3,429.25
168681	8/16/2018		9306	TEEL CONSTRUCTION, INC	REFUND # 20465		
						\$3,300.00	\$3,300.00

**UNION SANITARY DISTRICT
CHECK REGISTER
08/04/2018-08/17/2018**

Check No.	Date	Dept	Invoice No.	Vendor	Description	Invoice Amt	Check Amt
168666	8/16/2018	170	666720180807	PACIFIC GAS AND ELECTRIC	SERV TO 07/30/18 PASEO PADRE PS		
						\$321.83	\$3,262.76
	8/16/2018	110	892820180807		SERV TO 07/30/18 HAYWARD MARSH	\$60.86	
	8/16/2018	170	013720180809		SERV TO 08/02/18 BOYCE RD PS	\$2,587.05	
	8/16/2018	170	898220180807		SERV TO 07/30/18 FREMONT PS	\$293.02	
168604	8/9/2018		20180801	VISION SERVICE PLAN - CA	AUGUST 2018 VISION STMT	\$3,174.05	\$3,174.05
168663	8/16/2018		20180731	NAPA AUTO PARTS	MONTHLY AUTO PARTS STMT - JULY 2018	\$1,419.05	\$3,127.98
	8/16/2018	170	787952		3 COMMERCIAL BATTERIES	\$1,708.93	
168689	8/16/2018	143	152624	WOODARD & CURRAN INC	NEWARK BASIN MASTER PLAN/PACP UPDATE	\$3,031.00	\$3,031.00
168587	8/9/2018	120	916003565877	REPUBLIC SERVICES #916	RECYCLE & ROLL OFF - AUG 2018	\$2,611.87	\$2,611.87
168609	8/16/2018	170	180702063	AIRTECH MECHANICAL INC	SERVICE CALL: BLDG 90 COGEN - WHALLEY CHILLER #2	\$2,040.39	\$2,592.89
	8/16/2018	170	180702083		SERVICE CALL: BLDG 78 - GENERATOR BUILDING	\$322.50	
	8/16/2018	170	180702084		SERVICE CALL: BLDG 69 - MAINTENANCE SHOP	\$230.00	
168629	8/16/2018	173	NMW2579	CDW GOVERNMENT LLC	WHATSUP GOLD RENEWAL	\$2,550.00	\$2,550.00
168550	8/9/2018		8610	AQUALINE PIPING INC	REFUND # 21272	\$2,500.00	\$2,500.00
168580	8/9/2018	173	16485	LOOKINGPOINT INC	TROUBLESHOOTING - PS CORE OUTAGE	\$500.00	\$2,500.00
	8/9/2018		16484		COMCAST MIGRATION	\$2,000.00	
168678	8/16/2018		9657	STREAMLINE PLUMBING & DRAIN	REFUND # 21241	\$2,500.00	\$2,500.00

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168648	8/16/2018		9841047914	GRAINGER INC	ASTD PARTS & MATERIALS		
						\$1,710.05	\$2,174.58
	8/16/2018	110	9841552954		1 ROLL TAPE, BLACK	\$186.92	
	8/16/2018		9841142186		2 MINIATURE LED BULBS	\$90.69	
	8/16/2018	110	9841552947		1 ROLL TAPE, BROWN	\$186.92	
168673	8/16/2018	173	20180814	RICHARD SCOBEE	EXP REIMB: ESRI USER CONFERENCE	\$2,146.06	\$2,146.06
168551	8/9/2018		11601866	AT&T	SERV: 06/10/18 - 07/09/18	\$1,997.43	\$1,997.43
168636	8/16/2018		20180725	DALE HARDWARE INC	07/18 - ASTD PARTS & MATERIALS	\$1,865.61	\$1,865.61
168594	8/9/2018		719882038401	STAPLES CONTRACT & COMMERCIAL	JANITORIAL SUPPLIES	\$248.24	\$1,710.23
	8/9/2018		720126647604		JANITORIAL SUPPLIES	\$32.91	
	8/9/2018		720126647603		JANITORIAL SUPPLIES	\$85.77	
	8/9/2018		720015553401		JANITORIAL & BREAKROOM SUPPLIES	\$573.99	
	8/9/2018		720126647601		JANITORIAL & BREAKROOM SUPPLIES	\$769.32	
168544	8/9/2018	123	180401895	AIRTECH MECHANICAL INC	HVAC QUARTERLY MAINTENANCE BLDGS 70, 82, 83	\$1,646.25	\$1,646.25
168576	8/9/2018	132	14394	JACK DOHENY SUPPLIES, INC.	2018 PACP CERT - RODRIGUES, J./ DIOSDADO, A.	\$1,600.00	\$1,600.00
168603	8/9/2018		41185	VALLEY OIL COMPANY	55 SHELL PELLA OIL DRUMS	\$1,488.35	\$1,488.35
168568	8/9/2018		1119275	ENTHALPY ANALYTICAL LLC	20 LAB SAMPLE ANALYSIS	\$1,230.00	\$1,470.00
	8/9/2018		1119620		4 LAB SAMPLE ANALYSIS	\$240.00	
168558	8/9/2018	170	21576044	CARBOLINE COMPANY	PAINT & RELATED PAINT SUPPLIES	\$921.38	\$1,450.96
	8/9/2018	170	21576525		PAINT & RELATED PAINT SUPPLIES	\$529.58	

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168591	8/9/2018	110	18072002	S&S TRUCKING	GRIT HAULING 07/10/2018 & 07/12/2018	\$1,446.62	\$1,446.62
168577	8/9/2018	122	4163	K & M INSTALLATION INC	INSTALL FOR PARTITIONS FOR FMC	\$1,300.00	\$1,300.00
168650	8/16/2018	160	20180813	TOM HANDLEY	EXP REIMB: IPAD & ACCESSORIES PER POLICY 2165	\$310.67	\$1,243.75
	8/16/2018	160	20180815		EXP REIMB: LODGING/PER DIEM/MILEAGE - CASA ANNUAL CONF - I	\$933.08	
168635	8/16/2018	150	68800	CITYLEAF INC	2018 HOLIDAY DECOR - DEPOSIT	\$1,169.48	\$1,169.48
168545	8/9/2018	170	5187614	ALL INDUSTRIAL ELECTRIC SUPPLY	CREDIT: INV 5176081 - (1) EATON CONTACTOR	\$-72.75	\$1,145.48
	8/9/2018	172	5188619		(1) CHARGER 110-120/208-240 AC	\$1,218.23	
168682	8/16/2018		20267108	TELEDYNE ISCO INC	SAMPLING SUPPLIES	\$1,055.25	\$1,055.25
168624	8/16/2018	120	855166	BRENNTAG PACIFIC, INC.	3846 LBS SODIUM HYDROXIDE	\$1,039.10	\$1,039.10
168549	8/9/2018	170	638021	A-PRO PEST CONTROL INC	JULY PEST CONTROL	\$1,005.00	\$1,005.00
168583	8/9/2018		8485	MR. ROOTER PLUMBING	REFUND # 21273	\$1,000.00	\$1,000.00
168672	8/16/2018		9733	ROOTER HERO	REFUND # 21244	\$500.00	\$1,000.00
	8/16/2018		8432		REFUND # 21176	\$500.00	
168643	8/16/2018		20180815	MANUEL FERNANDEZ	EXP REIMB: CASA CONFERENCE LODGING/PER DIEM/MILEAGE	\$936.73	\$936.73
168608	8/16/2018	150	52001	ABACUS PRODUCTS INC	(150) USD MUGS	\$919.69	\$919.69
168574	8/9/2018	172	32L5L6T2	HILTON AUSTIN CONVENTION CENTR	PREPAY LODGING: LU, DUNG - INFRAMATION CONFERENCE	\$915.40	\$915.40
168654	8/16/2018	123	14222	JACK DOHENY SUPPLIES, INC.	PACP RECERTIFICATION - M. LUBINA, S. NESGIS	\$900.00	\$900.00
168645	8/16/2018		20185879	G3 ENGINEERING INC	GBT MIX UNIT REBUILD PARTS	\$866.58	\$866.58

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168623	8/16/2018		12788250	BLAISDELL'S	ASTD OFFICE SUPPLIES	\$227.87	\$861.44
	8/16/2018		12790920		ASTD OFFICE SUPPLIES	\$19.84	
	8/16/2018		12789050		1 PK STENO PAD & NOTE PAD	\$1.07	
	8/16/2018		12788040		ASTD OFFICE SUPPLIES	\$144.95	
	8/16/2018	113	12788252		3 PK PAGE FLAG	\$19.72	
	8/16/2018		12789051		1 PK STENO PADS	\$10.53	
	8/16/2018		12783220		1 TONER	\$318.26	
	8/16/2018		12787130		ASTD OFFICE SUPPLIES	\$81.84	
	8/16/2018	144	12738150		ASTD OFFICE SUPPLIES	\$32.56	
	8/16/2018		12788251		2 PK NOTE PAPER/3 PK PAGE FLAGS	\$4.80	
168661	8/16/2018	170	24040357	MOTION INDUSTRIES INC	ASTD PARTS & MATERIALS	\$25.53	\$843.18
	8/16/2018		24040424		40 MEST SAFETY VESTS	\$817.65	
168605	8/9/2018	113	8083016222	VWR INTERNATIONAL LLC	LAB SUPPLIES	\$235.81	\$761.60
	8/9/2018	113	8082985009		LAB SUPPLIES	\$525.79	
168595	8/9/2018		68983	STARLINE SUPPLY COMPANY	(14) CS COMPOSTABLE UTENSILS	\$687.06	
168627	8/16/2018	136	4026565325	CANON SOLUTIONS AMERICA INC	MTHLY MAINTENANCE BASED ON USE	\$676.45	\$676.45
168612	8/16/2018	170	25884	ALLIED FLUID PRODUCTS CORP	200 FT CLEAR VINYL TUBING	\$282.72	\$653.68
	8/16/2018	170	25883		500 FT BLACK POLYETHYLENE TUBING	\$370.96	
168670	8/16/2018	120	08H0036018380	NESTLE WATERS NO. AMERICA	READYREFRESH WATER SERVICE 07/07/18 - 08/06/18	\$631.58	\$631.58

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168659	8/16/2018	170	69680725	MCMASTER SUPPLY INC	2 LARGE-CELL BATTERIES	\$104.36	\$623.62
	8/16/2018	170	69796627		1 RIDGID DIE FOR CUTTING PIPE & CONDUIT THREADS	\$61.67	
	8/16/2018	170	70296499		150 ASTD SLOTTED SHIMS	\$457.59	
168564	8/9/2018		20180806	CSDA CAL SPECIAL DIST ASSOC	CONFERENCE REG: BOARD SECRETARY/CLERK CONFERENCE	\$575.00	\$575.00
168632	8/16/2018	143	20180813	RAYMOND CHAU	EXP REIMB: CIP TEAM SAFETY RECOGNITION PROGRAM	\$555.48	\$555.48
168547	8/9/2018		9267	AMERICA'S DREAM HOMEWORKS	REFUND # 21262	\$500.00	\$500.00
168586	8/9/2018		9728	PJ PLUMBING INC	REFUND # 21274	\$500.00	\$500.00
168592	8/9/2018		9798	GYANENDRA PAL SINGH	REFUND # 21267	\$500.00	\$500.00
168598	8/9/2018		8601	TRAVIS HA CONSTRUCTION	REFUND # 21271	\$500.00	\$500.00
168599	8/9/2018		9751	TRENCHFREE INC	REFUND # 21275	\$500.00	\$500.00
168614	8/16/2018		9795	AMERICAN EAGLE PLUMBING & CON	REFUND # 21286	\$500.00	\$500.00
168622	8/16/2018		8576	BEN FRANKLIN PLUMBING SOUTHBAY	REFUND # 21280	\$500.00	\$500.00
168631	8/16/2018		9721	CHALLENGE ROOTER	REFUND # 21243	\$500.00	\$500.00
168637	8/16/2018		8693	DRAINLINE PLUMBING SEWER SPEC	REFUND # 21287	\$500.00	\$500.00
168639	8/16/2018		9796	E Z PLUMBING	REFUND # 21289	\$500.00	\$500.00
168656	8/16/2018		9475	KN INVESTMENT DEVELOPMENT LLC	REFUND # 21288	\$500.00	\$500.00
168665	8/16/2018		9537	VINCENT NIGRO	REFUND # 20888	\$500.00	\$500.00
168669	8/16/2018		9767	RAJ CONSTRUCTION INC	REFUND # 21285	\$500.00	\$500.00
168671	8/16/2018		9761	AMERICAN RESIDENTIAL SVCS RESCUE ROOT	REFUND # 21281	\$500.00	\$500.00

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168675	8/16/2018		8033	MOHAMMAD SHAIQ	REFUND # 20867		
						\$500.00	\$500.00
168651	8/16/2018		3M4465	HARRINGTON INDUSTRIAL PLASTICS	ASTD PVC FITTINGS		
						\$46.66	\$475.83
	8/16/2018		3M4654		ASTD PVC FITTINGS		
						\$38.06	
	8/16/2018	170	3M4655		ASTD PARTS & MATERIALS		
						\$391.11	
168649	8/16/2018	170	11065454	HACH COMPANY	(1) TSS METER PM CALIBRATION		
						\$463.25	\$463.25
168573	8/9/2018		3M4384	HARRINGTON INDUSTRIAL PLASTICS	ASTD PVC FITTINGS		
						\$453.86	\$453.86
168584	8/9/2018	123	104257	MUNIQUEP, LLC	5 MANHOLE MONITOR BATTERY PACKS		
						\$443.54	\$443.54
168569	8/9/2018	170	903628908	EVOQUA WATER TECHNOLOGIES	DI WATER SYSTEM		
						\$438.32	\$438.32
168561	8/9/2018	122	54K127383	CINTAS CORPORATION NO. 2	ASTD DUST MOPS, WET MOPS & TERRY TOWEL		
						\$17.22	\$431.00
	8/9/2018		54K127382		UNIFORM LAUNDERING & RUGS		
						\$194.39	
	8/9/2018		54K127381		UNIFORM LAUNDERING SERVICE		
						\$219.39	
168634	8/16/2018		54K128157	CINTAS CORPORATION NO. 2	UNIFORM LAUNDERING SERVICE		
						\$219.39	\$431.00
	8/16/2018	122	54K128158		ASTD DUST MOPS, WET MOPS & TERRY TOWEL		
						\$17.22	
	8/16/2018		54K128159		UNIFORM LAUNDERING & RUGS		
						\$194.39	
168562	8/9/2018	123	273444	CLARK'S HOME AND GARDEN INC	7 TONS PEA GRAVEL		
						\$388.62	\$388.62
168676	8/16/2018	143	6839	SIGNET TESTING LABS INC	FMCR2 - WELDING INSPECTION SERVICES		
						\$385.00	\$385.00

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168554	8/9/2018		12773781	BLAISDELL'S	2 DZ PENS	\$31.47	\$379.11
	8/9/2018		12767930		1 TONER	\$198.20	
	8/9/2018		12773100		3 BINDERS	\$5.95	
	8/9/2018		12773780		ASTD OFFICE SUPPLIES	\$143.49	
168664	8/16/2018	170	196404	NAYLOR STEEL INC	ASTD PARTS & MATERIALS	\$373.26	\$373.26
168548	8/9/2018	170	7013913770	APPLIED INDUSTRIAL TECHNOLOGIE	ASTD PARTS & MATERIALS	\$82.25	\$368.03
	8/9/2018	123	7013913697		(196) BGS ABSORBENT - RHINO DIRT	\$285.78	
168585	8/9/2018		224720180727	PACIFIC GAS AND ELECTRIC	SERV TO 07/22/18 CS TRAINING TRAILER	\$25.37	\$357.26
	8/9/2018	170	096020180731		SERV TO 07/30/18 CATHODIC PROJECT	\$51.94	
	8/9/2018	170	380420180731		SERV TO 07/30/18 CHERRY ST PS	\$279.95	
168616	8/16/2018	170	638817	A-PRO PEST CONTROL INC	PEST CONTROL - RODENTS	\$90.00	\$340.00
	8/16/2018	170	638813		PEST CONTROL - 5 ADDL BAIT STATIONS	\$250.00	
168683	8/16/2018		18072403	TELOG INSTRUMENTS INC	(3) MANHOLE MONITOR BATTERIES	\$330.45	\$330.45
168552	8/9/2018		356000	BAY AREA BARRICADE SERVICE INC	1 CS WHITE & 6 CS GREEN MARKING PAINT	\$330.35	\$330.35
168593	8/9/2018	144	BBC4X	SOUTH POINT HOTEL & CASINO	PRE-PAY HOTEL: PADILLA, V - TRI-STATE CONFERENCE	\$322.05	\$322.05
168621	8/16/2018	170	71863	BEECHER ENGINEERING	ARC FLASH STUDY	\$320.00	\$320.00
168571	8/9/2018	123	1388849	FERGUSON ENTERPRISES, INC.	ASTD PARTS & MATERIALS	\$310.37	\$310.37

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168559	8/9/2018	170	305110	CENTERVILLE LOCKSMITH	(3) KEYS	\$6.42	\$309.74
	8/9/2018	170	305183		(1) PADLOCK KEY	\$2.14	
	8/9/2018	170	305214		(5) PADLOCK KEYS	\$10.70	
	8/9/2018		305119		REKEY & MASTER 1 LOCK ON 1 DOOR	\$100.00	
	8/9/2018		305041		REKEY NEWARK PUMP STATION/INSTALL LATCH GUARD	\$190.48	
168688	8/16/2018		9811865426	VERIZON WIRELESS	WIRELESS SERV 07/02/18-08/01/18 & (6) IPADS	\$299.65	\$299.65
168641	8/16/2018		1120447	ENTHALPY ANALYTICAL LLC	16 LAB SAMPLE ANALYSIS	\$290.00	\$290.00
168597	8/9/2018		20262641	TELEDYNE ISCO INC	2 PUMP TUBING	\$278.77	\$278.77
168572	8/9/2018	170	9836724246	GRAINGER INC	24 BREAKER LOCKOUTS	\$274.46	\$274.46
168560	8/9/2018		466499	CENTERVILLE SAW AND TOOL	3 BLADE BRUSHES/MIX OIL	\$129.81	\$263.24
	8/9/2018		466498		TOOL REPAIR: BRIGGS STRATT MAN HOLE BLOWER	\$133.43	
168606	8/9/2018	131	6018712	WEST SAFETY SERVICES INC	E911 CLOUD SERVICE	\$250.00	\$250.00
168668	8/16/2018		36473	R & S ERECTION OF S ALAMEDA	MATERIALS AND REPAIR TO DAMAGED ROLL UP DOOR	\$250.00	\$250.00
168546	8/9/2018		20180808	AMERICAN PAYROLL ASSOCIATION	MEMBER DUES - M. ESPINOSA	\$219.00	\$219.00
168647	8/16/2018	120	484976370	GLACIER ICE COMPANY INC	144 7-LB BAGS OF ICE	\$211.68	\$211.68
168620	8/16/2018	123	21499200	BECK'S SHOES	SAFETY SHOES: A. DEJESUS	\$208.00	\$208.00
168674	8/16/2018		616760	SENTECH MEASUREMENTS INC	(2) FLOAT SWITCHES	\$206.51	\$206.51
168578	8/9/2018		62600000138814	KELLY-MOORE PAINT COMPANY	ASTD PAINTING SUPPLIES	\$187.17	\$187.17
168600	8/9/2018	123	309808	TRI-CITY ROCK INC	(1) YD 6 SACK	\$178.08	\$178.08

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168660	8/16/2018	123	680083	MISSION CLAY PRODUCTS LLC	ASTD CLAY FITTINGS	\$174.81	\$174.81
168679	8/16/2018	173	20180814	RUFUS TAI	EXP REIMB: PMI MEMBERSHIP RENEWAL	\$164.00	\$164.00
168677	8/16/2018	141	20180731	SPOK INC	AUGUST 2018 PAGER SERVICE	\$133.97	\$133.97
168653	8/16/2018	122	603072198	HILLYARD/SAN FRANCISCO	JANITORIAL SUPPLIES	\$124.25	\$124.25
168615	8/16/2018	170	1773713	ANALYSTS, INC.	5 LAB SAMPLE ANALYSIS	\$116.45	\$116.45
168590	8/9/2018	150	20180802	THERESA RODRIGUEZ	EXP REIMB: SNACKS & DRINKS FOR FY18 ALT COMP CEREMONY	\$105.34	\$105.34
168684	8/16/2018	123	180849118	TRENCH PLATE RENTAL COMPANY	3 DAYS TRENCH SHORING EQUIPMENT RENTAL	\$96.60	\$96.60
168575	8/9/2018		944720180727	HOME DEPOT CREDIT SERVICES	MONTHLY HARDWARD STMT - JULY 2017	\$95.92	\$95.92
168652	8/16/2018	122	29065	HAYWARD PIPE AND SUPPLY	ASTD PIPE & FITTINGS	\$87.59	\$87.59
168581	8/9/2018		20180807	ARMANDO LOPEZ	EXP REIMB: PIZZA LUNCH FOR HAZEN MEETING	\$77.76	\$77.76
168565	8/9/2018	150	3116623	DAILY JOURNAL CORPORATION	AD: ORDINNANCE PUBLICATION	\$65.00	\$65.00
168633	8/16/2018	113	453505	CHEMETRICS INC	FORMALDEHYDE AMPOULES	\$55.64	\$55.64
168557	8/9/2018	132	313750	STATE OF CALIFORNIA	1 NEW HIRE FINGERPRINTS	\$32.00	\$32.00
168570	8/9/2018	141	624992959	FEDERAL EXPRESS CORPORATION	SHIPPING SERVICE - TSCS	\$27.25	\$27.25
168566	8/9/2018		3153468	DAILY JOURNAL CORPORATION	AD: NOTICE OF INTENT TO ADOPT A MITIGATED DECLARATION	\$22.50	\$22.50
168686	8/16/2018	136	98XW53308	UPS - UNITED PARCEL SERVICE	SHIPPING CHARGES W/E 07/28/18	\$10.52	\$10.52

San Francisco Chronicle

Millions to be spent protecting SF Bay shoreline from sea level rise

John Wildermuth Aug. 10, 2018



Sen. Dianne Feinstein at the Don Edwards San Francisco Bay National Wildlife Refuge Environmental Center in Alviso on Friday. Officials have secured \$117 million in federal funding for a levee to protect Alviso and other South Bay communities from flooding.

Photo: James Tensuan / Special to The Chronicle

A decades-old plan to protect Alviso and surrounding South Bay areas from devastating floods has moved closer to reality with \$177 million in federal funds to begin work on a 4-mile-long levee and wetlands restoration.

The combination of flood control and environmental improvements will be a model for the rest of the country, Sam Schuchat, executive officer of the state Coastal Conservancy, said Friday at an event celebrating the project at the Don Edwards San Francisco Bay National Wildlife Refuge in Alviso.

“This is the largest wetlands project west of the Mississippi,” he said. “It will show the rest of the country that it’s possible to combine wetlands restoration with flood control.”

The federal government approved \$177 million in disaster supplemental funding last month to protect the south end of the bay from sea level rise and a possible 100-year flood. All but \$74 million of that money will be repaid by the state and the Santa Clara Valley Water District.

“We’re celebrating a huge milestone in the shoreline project,” said Norma Camacho, the water district’s CEO. Since the federal government is fronting all the needed money, construction could begin as soon as next summer.

Sen. Dianne Feinstein said that as someone who sailed the bay in her younger years, the project was “my effort to put my divot back” by protecting the shoreline from flooding and projected sea level rise.

Feinstein became involved in the efforts in the 1990s, when she called the head of Cargill, an international food and agriculture company, and asked whether the firm would be willing to sell to the government thousands of acres of salt ponds that had been carved out of the bay.

Though the \$300 million price tag was too high for the government, Feinstein continued to negotiate. In 2002, Cargill agreed to sell 16,000 acres of salt ponds for \$100 million, with the money coming from not only the state and federal governments, but also from private foundations.

That agreement, along with new money for the levee, shows the power of political teamwork, Feinstein said.

“We can get all people together, Republicans and Democrats, to work across the aisle for something we believe in,” the senator said.

The salt ponds now are protected by earthen berms and dikes, which not only need continual repair, but also aren’t strong enough to stop the effects of likely sea level rise or the type of coastal flooding that has washed over Alviso many times through the years.

And with Silicon Valley tech businesses now surrounding the tiny community, which is below sea level, something had to change.

The new levee will protect not only Alviso, but the nearby tech buildings and a large wastewater treatment plant. With the levee in place, eight former salt ponds can be breached, turning them once again into shoreline marsh areas that fit the ecosystem.

The plan also includes \$6.4 million for trails in the new wetlands, along with signage, observation areas and other improvements designed to bring more visitors to the area.

For Feinstein, Friday's event was a vindication for her years of work, especially after hearing complaints that the government had spent too much for salt ponds.

"When you see an osprey flying overhead, it's a sign we're on the right track," she said.

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