AGENDA
WATER ISSUES COMMITTEE MEETING
WITH BOARD OF DIRECTORS *
ORANGE COUNTY WATER DISTRICT
18700 Ward Street, Fountain Valley, CA 92708
Wednesday, December 9, 2020 8:00 a.m.

* The OCWD Water Issues Committee meeting is noticed as a joint meeting with the Board of Directors for the purpose of strict compliance with the Brown Act and it provides an opportunity for all Directors to hear presentations and participate in discussions. Directors receive no additional compensation or stipend as a result of simultaneously convening this meeting. Items recommended for approval at this meeting will be placed on the **December 16, 2020** Board meeting Agenda for approval.

Due to the spread of COVID-19 and as authorized by the Governor's Executive Order, OCWD will hold its December 9 Water Issues Committee meeting by Zoom Webinar and will be available by either computer or telephone audio as follows:

Computer Audio: You can join the Zoom Webinar by clicking on the following link:
https://ocwd.zoom.us/j/91309035453

Webinar ID: 913 0903 5453

Telephone Audio: (669) 900 9128

PLEDGE OF ALLEGIANCE

ROLL CALL

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

RECOMMENDATION: Adopt resolution determining need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda (requires two-thirds vote of the Board members present, or, if less than two-thirds of the members are present, a unanimous vote of those members present.)

VISITOR PARTICIPATION

Time has been reserved at this point in the agenda for persons wishing to comment for up to three minutes to the Board of Directors on any item that is not listed on the agenda, but within the subject matter jurisdiction of the District. By law, the Board of Directors is prohibited from taking action on such public comments. As appropriate, matters raised in these public comments will be referred to District staff or placed on the agenda of an upcoming Board meeting.

At this time, members of the public may also offer public comment for up to three minutes on any item on the Consent Calendar. While members of the public may not remove an item from the Consent Calendar for separate discussion, a Director may do so at the request of a member of the public.

CONSENT CALENDAR (ITEMS NO. 1 – 6)

All matters on the Consent Calendar are to be approved by one motion, without separate discussion on these items, unless a Board member or District staff request that specific items be removed from the Consent Calendar for separate consideration.

1. MINUTES OF WATER ISSUES COMMITTEE MEETING HELD NOVEMBER 12, 2020

   RECOMMENDATION: Approve minutes as presented

2. PURCHASE ORDER TO METTLER TOLEDO LLC FOR AN AUTOMATED TITRATOR FOR THE PHILIP L. ANTHONY LABORATORY

   RECOMMENDATION Agendize for December 16 Board meeting: Authorize issuance of Purchase Order to Mettler Toledo LLC in the total amount of $67,588 for the purchase of an Automated Titrator T7 and declare the existing Mettler Toledo Automated Titrator T90 as surplus and authorize sale and disposal upon installation and certification of the new instrument

3. CONTRACT TAL-2020-4 CHANGE ORDER NO. 1 DECOMMISSIONING OF MONITORING WELL SA5 AND CONSTRUCTION OF REPLACEMENT MONITORING WELL CLUSTER OCWD-M58

   RECOMMENDATION: Agendize for December 16 Board meeting: Approve issuance of Change Order No. 1 to Contract TAL-2020-4 in the amount of $64,685

4. PRADO SHOOTING AREAS: APPROVAL OF REIMBURSEMENT TO DTSC AND AMENDMENT NO. 4 TO AECOM AGREEMENT

   RECOMMENDATION: Agendize for December 16 Board meeting:

   1) Authorize approval of Amendment No.4 to Agreement No. 1321 with AECOM to conduct additional field sampling at Pigeon Hill and the Former Clay Target Range for an amount not to exceed $74,411; and,

   2) Authorize reimbursement for Department of Toxic Substances Control oversight expenses for the period from July 1, 2020 to June 30, 2021 for an amount not to exceed $62,752

5. AMENDMENT TO AGREEMENT WITH AQUEOUS VETS FOR PFAS TREATMENT PRESSURE VESSEL SYSTEMS PURCHASE

   RECOMMENDATION: Agendize for December 16 Board meeting: Authorize issuance of Amendment No. 2 to Agreement No. 1422 with Aqueous Vets, for an amount not to exceed $49,095

6. AGREEMENT WITH FS CONTRACTORS, INC. FOR CARBON TREATMENT BUILDING RAMP REPLACEMENT PROJECT

   RECOMMENDATION: Agendize for December 16 Board meeting: Authorize issuance of an Agreement to FS Contractors, Inc. for the Carbon Treatment Building Ramp Replacement Project for a not to exceed cost of $27,256

MATTER FOR CONSIDERATION

7. ALAMITOS SEAWATER BARRIER 2021-22 OPERATIONS AND MAINTENANCE BUDGET

RECOMMENDATION: Agendize for December 16 Board meeting: Approve the Alamitos Barrier 2021-22 total O&M budget in the amount of $2,878,000 and authorize payment of the District's share not to exceed $1,116,000 payable to the Los Angeles County Department of Public Works after receipt and review of invoices

INFORMATIONAL ITEMS

8. PRADO SEDIMENT MANAGEMENT DEMONSTRATION PROJECT UPDATE

9. SANTA ANA RIVER CONSERVATION AND CONJUNCTIVE USE PROJECT UPDATE

CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT THE DECEMBER 16 BOARD MEETING

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGER'S ANNOUNCEMENTS/REPORTS

ADJOURNMENT

WATER ISSUES COMMITTEE MEMBERS

Committee Members
Cathy Green - Chair
Dina Nguyen - Vice Chair
Ahmad Zahra
Jordan Brandman
Tri Ta

Alternates
Steve Sheldon
Roger Yoh
Kelly Rowe
Denis Bilodeau
Vicente Sarmiento

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted at the guard shack entrance and in the main lobby of the Orange County Water District, 18700 Ward Street, Fountain Valley, CA and on the OCWD website not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the District Secretary. Backup material for the Agenda is available at the District offices for public review and can be viewed online at the District's website: www.ocwd.com

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from the District Secretary at (714) 378-3233, by email at jdurant@ocwd.com by fax at (714) 378-3373. Notification 24 hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda, and can be reviewed at www.ocwd.com. Copies of these materials and other disclosable public records distributed to all or a majority of the members of the Board of Directors in connection with an open session agenda item are also on file with and available for inspection at the Office of the District Secretary, 18700 Ward Street, Fountain Valley, California, during regular business hours, 8:00 am to 5:00 pm, Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Orange County Water District office.

MINUTES OF BOARD OF DIRECTORS MEETING
WATER ISSUES COMMITTEE
ORANGE COUNTY WATER DISTRICT
November 12, 2020 @ 8:00 a.m.

Due to the Governor's Executive Order N-25-20, Director Green called the Water Issues Committee meeting to order via Zoom webinar. The Secretary called the roll and reported a quorum as follows:

Committee Members
Cathy Green
Dina Nguyen
Ahmad Zahra
Jordan Brandman
Tri Ta

Alternates
Steve Sheldon
Roger Yoh
Kelly Rowe
Denis Bilodeau
Vicente Sarmiento

OCWD
Mike Markus – General Manager
John Kennedy – Executive Director
Christina Fuller – Assistant District Secretary
Jeremy Jungreis – General Counsel

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Brandman, seconded by Director Zahra and carried [5-0], with Director Ta abstaining on Item No. 1, Minutes.
Ayes: ***Green, Zahra, Brandman, Ta, Sheldon***
Abstain: Ta (Item No. 1)

1. Minutes of Water Issues Committee Meeting

The Minutes of the Water Issues Committee meeting held October 14, 2020 were approved as presented.

2. Additional Funds for Gap Total Chlorine Analyzers

Recommended for approval at November 18 Board meeting: Authorize issuance of Purchase Order to Rosemount for motor protection relays in the amount of $20,280.

3. Additional Funds for Medium Voltage Drives Motor Protection Relays

Recommended for approval at November 18 Board meeting: Authorize issuance of Purchase Order to One Source Distributors for motor protection relays in the amount of $30,790.

4. Agreement for Consultation, Design and Installation Services to Replace the Supervisory Control and Data Acquisition System (SCADA) for the Forebay Recharge Facilities

Recommended for approval at November 18 Board meeting: Authorize issuance of Agreement to KDC Systems, Inc. to provide consultation, design and installation services to replace the Forebay SCADA system for an amount not-to-exceed $99,150.

5. Environmental Protection Agency 50th Anniversary Event at Richard Nixon Library

Recommended for approval at November 18 Board meeting: Approve sponsoring the EPA 50th Anniversary event for $5,000.

6. Operational Efficiency Study

Recommended for approval at November 18 Board meeting: Authorize issuance of Agreement to Bookey Oren Global Water Technologies Ltd. in an amount not to exceed $90,000 in accordance with its proposal dated October 20, 2020.

INFORMATIONAL ITEMS

Director Nguyen arrived during discussion of the following item.

7. Smith Pit Recharge Assessment

Recharge Planning Manager Adam Hutchinson recalled that staff presented a recharge assessment of Smith Pit at the October Water Issues Committee meeting. He stated that in response to questions raised at this meeting, staff is presenting additional data and approximate planning level costs to construct the necessary facilities to use Smith Pit as a recharge facility. He reported that Smith Pit is already being used for recharge during periods when storm flows are typically lost to the ocean and it is unclear whether improvements to Smith Pit would provide significant additional recharge capacity. Mr. Hutchinson advised that projected costs for investigations and construction range from $13.5M to $20.7M. He reported that the US Army Corps of Engineers (USACOE) is going to initiate a 1.5-yr study to design Santiago Basin Improvements for flood risk management with construction slated as early as Spring 2022.

8. Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) Agreement Update

General Manager Mike Markus recalled that the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) was awarded $55M in grant funding. He reported that several agreements are in progress to support SARCCUP, including the San Bernardino Valley MWD – Metropolitan Water District (MWD) Agreement and the SARCCUP MWD Member Agencies - MWD Agreement. He advised that a letter was sent to the Municipal Water District of Orange County's (MWDOC) General Manager from OCWD, Eastern Municipal Water District (Eastern),Western Municipal Water District (Western) and Inland Empire Utilities Agency (IEUA) stating that excess water will be available for sale to MWDOC if the SARCCUP Operations Committee Members and IEUA do not purchase the water allotted by MWD and that OCWD, Eastern, Western and IEUA agree not to enter into other agreements or commitments that would supersede MWDOC's ability to purchase excess water. Mr. Markus stated that a presentation was given at the MWDOC Planning and Operations meeting which was followed up with a conversation with MWDOC General Manager Rob Hunter the following day whereby he asserted that MWDOC has a veto power over the purchase and distribution of SARCCUP water as defined in the MWD agreement. He advised that MWDOC stated it needs a guarantee that water will be made available to them or it will not support the agreement. Mr. Markus reviewed the next steps and stated that the terms of the MWD agreement with the SARCCUP member agencies need to be clarified so that the original intentions of the SARCCUP participants are clear.

CHAIR DIRECTION AS TO ITEMS IF ANY TO BE AGENDIZED AS MATTERS FOR CONSIDERATION AT THE NOVEMBER 18 BOARD MEETING

It was agreed to place all items on the Consent calendar for the November 18 Board meeting.

ADJOURNMENT

There being no further business, the meeting was adjourned at 9:00 a.m.

_____

Cathy Green, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: December 09, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: P. Parmar/J. Davis

Budgeted: Yes
Budgeted Amount: $120,000
Cost Estimate: $67,588
Funding Source: R & R
Program/Item No.: R20001
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: PURCHASE ORDER TO METTLER TOLEDO LLC FOR AN AUTOMATED TITRATOR FOR THE PHILIP L. ANTHONY LABORATORY

SUMMARY

Laboratory staff recommends the purchase of a Mettler Toledo Automated Titrator T7 to perform Standard Method 4500 H+B for pH analysis, Standard Method 2510B for electrical conductivity analysis, and Standard Method 2320B for phenolphthalein and total alkalinity analysis. The lab's current automated titrator system is over twelve years old, is overdue for replacement, and has been declared obsolete by the manufacturer in that they are no longer supporting the unit and repairs will not be possible. These methods are required for the Producers Title 22 drinking water compliance monitoring, GWRS permit monitoring, and the District's basin wide groundwater monitoring programs.

Attachment:
Quotation 321547564 from Mettler Toledo, LLC for Automated Titrator, dated 10/16/2020

RECOMMENDATION

Agendize for December 16 Board meeting: Authorize issuance of Purchase Order to Mettler Toledo LLC in the total amount of $67,588 for the purchase of an Automated Titrator T7 and declare the existing Mettler Toledo Automated Titrator T90 as surplus and authorize sale and disposal upon installation and certification of the new instrument.

BACKGROUND AND RATIONALE

The purchase of a replacement Automated Titrator was included in the Philip L. Anthony Water Quality Laboratory's Replacement & Refurbishment (R&R) budget for the 2020-2021 fiscal year. A replacement Automated Titrator is needs as the laboratory's existing Mettler Toledo Automated Titrator T90 is over twelve years old, is overdue for replacement, and has been declared obsolete by the manufacturer in that they are no longer supporting the unit and repairs will not be possible. The Request for Quotation (RFQ) was emailed to Mettler Toledo LLC, Metrohm USA Inc., ManSci Inc., and Xylem Inc. on September 15th, 2020 with a quotation due date on October 16th, 2020. Mettler Toledo LLC, Metrohm USA Inc., and ManSci Inc. responded with proposals.

The original R&R budget of $120,000 for this item included an Automated Titrator that would be

used for Standard Method 4500 Cl-D amperometric chlorine for analysis of residual chlorine. Subsequently, in August 2020 the lab discontinued the amperometric chlorine method and replaced it with Standard Method 4500 Cl-F DPD residual chlorine. Because of the discontinuation of the amperometric method, the price quotations received are significantly lower than the budgeted amount as the type of instrument needed has been adjusted accordingly.

Via the RFQ process, each vendor was informed of the specific need of an Automated Titrator for pH, electrical conductivity and alkalinity analysis. The vendors were required to completely describe their proposed configured system and include a series of references that were performing similar methods of analysis. Overall system descriptions and sales brochures were also requested.

Our selection process consisted of rating each submitted quotation on a point system by senior laboratory staff.

Criteria	Max Score	Mettler Toledo	Metrohm	ManSci
1. Total system price	100	90	95	100
2. Ability to electronically transfer results to LIMS and ease of process	100	85	80	75
3. Ability to transfer alkalinity results and assist analyst in titration end point detection and data interpretation	100	80	80	80
4. Expected accuracy and precision of results	100	90	90	90
5. Expected durability and lifetime of system	100	95	90	85
6. Ongoing costs to operate system, including repairs and maintenance	100	90	90	90
7. Ease of use and expected training costs	100	95	90	85
Total Score	**700**	**625**	**615**	**605**

Each category was rated on a 100-point scale, and an aggregate score was calculated from the weighted average of the individual scores.

After conducting a thorough evaluation of the proposals, the laboratory has concluded that a Mettler Toledo T7 purchase would be most appropriate to replace the aging Mettler Toledo T90 and meet the laboratory goals stated in the 2020-2021 budget:

- Mettler Toledo is a world-leading manufacturer of high precision products. The laboratory has an established 12-year history with the company, has developed a strong relationship with the service engineers from Mettler, and has confidence in Mettler's ability to maintain the new instrument to meet the quality standards of our lab.

- The new Automated Titrator will be installed in the inorganic lab to provide enhanced performance not/partially available with our current 12-year old system, which is at the end of its useful life expectancy.
- Capability to transfer data to the Laboratory Information Management System (LIMS) electronically instead of by manual operation.

- Improved data quality and productivity of reporting temperature, pH, electrical conductivity, phenolphthalein alkalinity, and alkalinity for the plant and field samples.

- Ability to analyze one sample for all required parameters.

- 3-year service plan.

- The new software will be compatible with Windows 10 that will improve automated data transfer functionality

- Prior staff knowledge of Mettler Toledo Lab X software will reduce the need for training.

Based on the reasons listed above lab staff recommends the Mettler Toledo Automated Titrator T7 to best fit the District's current and future needs.

PRIOR RELEVANT BOARD ACTION(S)

5/14/08, R08-5-69: Authorizing Issuance of Purchase Order to Mettler-Toledo for Autotitrator Unit in the amount of $49,765

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Orange County Water District
Melissa Hill
PO Box 20845
Fountain Valley, CA 92728-0845

Sales Representative
Mr. Joe Magpayo
Mobile +1 (714) 318 7881
E-Mail joe.magpayo@mt.com

Customer Contact
Melissa Hill
Phone +17143783359
E-Mail mhill@ocwd.com

Dear Melissa Hill,

Thank you for choosing METTLER TOLEDO. As a world-leading manufacturer of high precision products, our goal is to make measurement as simple as possible. In addition, METTLER TOLEDO provides a wide range of products designed to help users save time and money, as well as improve accuracy and reliability.

METTLER TOLEDO seeks to provide you, our valued customer, with an optimal solution to your application, process and business demands. From the onset of your immediate or long-term project needs, we are available as a resource to help specify and select quality measurement systems and software products appropriate to your application. For METTLER TOLEDO, our solutions represent a valuable combination of performance, accuracy and precision. In addition, our field service organization is comprised of factory-certified technicians who are trained to meet high quality standards. You can also log on to www.mt.com for up-to-date application and operation details.

We are pleased to send you our quote and are certain this solution will meet your needs and expectations. Please do not hesitate to contact us with any further questions.

Thank you for your business.

Joe Magpayo
Instrument Sales Specialist

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Sold-To / 300478217
Orange County Water District
PO Box 20845
Fountain Valley, CA 92728-0845

Ship-To / 300478217
Orange County Water District
18700 Ward St
Fountain Valley, CA 92708-6930

Customer Contact
Name Melissa Hill
Phone +17143783359
E-Mail mhill@ocwd.com

Bill-To / 300478217
Orange County Water District
PO Box 20845
Fountain Valley, CA 92728-0845

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
10	Titrator Excellence T7	30252675	1	EA	21,750.00	17,400.00

The T7 expands modularity for Excellence line titrators, from 1 to 4 total burettes plus an extra sensor board to grow with advanced needs including KF. Supports InMotion automation + future upgradeability to full T9 functionality.

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Additional Burette Drives (Optional) : 3 max.
LabX Software : Express and Server
Automation Option(s) : InMotion, InMotion KF Oven, Rondolino

Method Functions per Method : 60 max.
Optional Extra Sensor Boards : 1 max.
Application Type : Potentiometric;Conductometric;Thermometric;KF Volumetric;KF Coulometric

Versatile titrator for all applications
Expanded Modularity and Upgradeability
The T7 widens options for additional burettes and sensor boards. When future needs are uncertain, the T7 allows full upgradeability to a T9 titrator.
Fully Flexible Automation
Compatible with powerful InMotion automation. Sample changing, complex titrations, cleaning steps and more run automatically, saving operator's time.
Solid Compliance
In regulated environments, LabX software provides full support for your compliance needs to 21 CFR Part 11 and EU Annex 11.

For more Details:
www.mt.com/Titration-Excellence

20	Manual Titration Kit	51109220	1	EA	1,680.00	1,596.00

Manual titration kit

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Manual Titration Kit
Manual titration kit with titration stand, compact stirrer and accessories

For more Details:
www.mt.com/titration-excellence

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
30	Base InMotion Flex	30094121	1	EA	17,290.00	13,832.00

The InMotionTM Flex manages sample loads from 11 large beakers (250 mL) up to 50 small glass tubes (25 mL) and combinations in between. Includes all modularity, flexibility, and options of the InMotion line.

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Number of Samples - 25 mL : 50
Number of Samples - 80 mL : 27
Number of Samples - 100 mL : 18
Number of Samples - 180 mL : 15
Number of Samples - 250 mL : 11
Rack Diameter : 42 cm

Flexible efficient automation
Maximum Productivity
Designed to maximize throughput in minimal space, InMotion Autosamplers increase productivity in the smallest possible bench area for busy labs.
Flexible Automation
Use flexible intuitive method programming to customize your workflows. Prepare, condition, maintain, and clean, also with parallel tasks.
Let us do the Cleaning
All InMotion Autosamplers include a PowerShowerTM and conditioning sequences for effective automated cleaning plus sensor maintenance and storage.

Rack Kit Sold Seperately

For more Details:
www.mt.com/InMotion

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
40	Rack Kit InMotion Flex 25mL	30094124	1	EA	1,410.00	1,128.00

Approx. lead time excluding transport: 16 working days, shipping from: Worthington (Ohio, US)

Type : Automation

Only for InMotion Flex Base

For more Details:
www.mt.com/InMotion

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
50	Burette DV1010 10mL DV1010	51107501	1	EA	1,135.00	1,078.25

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Error Limit : 0.2 % Minimum Steps : 0.5 µL

Precise & Secure
High Precision & Chemical Resistance
The high precision of the DV1010 guarantees exact and reliable dispensing, and the valve and tubing are compatible with most commonly used chemicals.
Plug & Play Burettes
All sensor and titrant data are saved on an RFID chip and automatically recognized by the titrator. Using the wrong titrant or sensor is impossible.
Compatible with ISO & GLP
The burette can be certified according to SN EN45001, enabling the burettes to comply with the necessary requirements of ISO 8655-3 and GLP.

For more Details:
www.mt.com/titration_acessories

60	Pump SP280 Peristaltic	30094237	3	EA	1,610.00	4,347.00

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Reliable Reagent Control
Fast and Reliable
Use the SP280 peristaltic pump for fast and reliable solvent addition.

For more Details:
www.mt.com/titration_accessories

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
70	Temperature Sensor DT1000 260 cm	30094168	1	EA	645.00	645.00

Single PT1000 temperature sensor for Compact and Excellence Titrators with InMotion or Rondo System (4 Pin Lemo Plug). Material: Hastelloy C22. Length of the sensor: 85mm. Total length (including cable): 260cm

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Temp. Sensor DT1000 260cm

Single PT1000 temperature sensor (85mm) for Compact and Excellence Titrators and Rondo/InMotion (4 Pin Lemo Plug). Total length incl. cable: 260cm

For more Details:
www.mt.com/InMotion

80	Conductivity Board	51109840	1	EA	2,380.00	1,904.00

Tx Conductivity board

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Measuring Range (mS) : 0 – 1,000 Input Range (pH/mV) : 2,000 mV

Unique Integration of Conductivity
No Separate Conductivity Meter Needed
Allows both pH and conductivity measurements (or titrations) in one instrument with easy result integration into the final reports.
Unlimited Conductometric Titrations
The autorange feature allows conductometric titrations over a wide range of ionic strengths.
Thermometric Acid Number Titrations
Combined with the Thermotrode sensor, supports fast and straightforward thermometric acid number titration of a wide range of petrochemical products.

For more Details:
www.mt.com/titration_acessories

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
90	Software LabX Titration Express	30097754	1	EA	2,652.00	2,519.40

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Power your Titration Bench
Flexible Workflows
Tailor the LabX dashboard to your needs with the user specific Workbench. Work from the titrator, PC, or both for simple operations and data reviews.
Single Software for your Lab
Use LabX for titrators, spectrophotometers,density meters, refractometers, melting point instruments, pH meters, and balances for simpler and more uniform lab operations.
Stay Connected
Automatically send emails with results from LabX, or use it for automated task scheduling for increased productivity.

This software license is subject to the End User License Agreement accessible on www.mt.com/EULA

For more Details:
www.mt.com/LabXTitration

100	License LabX Import/Export	11153105	1	EA	892.00	892.00

LabX Option Im/Ex-port

Approx. lead time excluding transport: 11 working days, shipping from: Worthington (Ohio, US)

LabX Option Import/ Export
Import and Export Data from and to LabX
LabX allows you to import and export data into many commonly used formats. This is an option for LabX express. It is included in LabX server.

For more Details:
www.mt.com/LabX

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
110	Automatic Solvent exchange	30407450	1	EA	515.00	515.00

To get the best performance from the system, it's absolutely important that solvent is always in perfect shape. This set allows fully unattended solvent exchange during sample series, ensuring the best results.

Approx. lead time excluding transport: 1 working day, shipping from: Columbus (Ohio, US)

InMotion KF Accessories
Fully Unattended Solvent Exchange
When used together with an SP280 peristaltic pump, this set allows a fully automatic and unattended solvent exchange during the sample series.

For more Details:
www.mt.com/InMotionKF

120	Dispensing Tube Adapter	51109169	1	EA	14.70	14.70

Dispensing tube adapter

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Dispensing tube adapter for Solvent Manager and other Dosing Units

For more Details:
www.mt.com/titration-SolventManager

130	Dosing Tube Adapter 4 to 1	51108356	1	EA	117.00	117.00

Approx. lead time excluding transport: 9 working days, shipping from: Worthington (Ohio, US)

Dosing tube adapter 4-1 for Tx

For more Details:
www.mt.com/titration-excellence

140	Suction Tube	25688	2	EA	79.70	143.46

Suction tube

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Suction tube for DV1001/1005/1010/1020 and Liquid Handler, 83 cm, 3pcs.

For more Details:
www.mt.com/titration

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
150	Dispensing Tube, 100cm	25961	5	EA	132.00	594.00

Dispensing tube
Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Dispensing tube for DV1001/1005/1010/1020 and Liquid Handler, 100 cm, 1pc.

For more Details:
www.mt.com/titration_accessories

160	Tapered Cone Dp550/660	22986	2	EA	68.20	136.40

Sleeve adapter
Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Sleeve adapter DH100 + DP5 PhototrodeSleeve adapter for DH100 and DP5 Phototrode

For more Details:
www.mt.com/titration

170	pH electrode InLab Cool	51343174	1	EA	430.00	408.50

A glass-body, combination pH electrode with S7 screw head for cold samples.
Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Measuring range : pH 1 – 11
Connector : S7
Shaft Material : Glass
Temperature Range : -30 °C – 80 °C
Type of junction : Immovable glass sleeve
Sensor Type : Combined electrode

Origin of Precision
Cool down
For pH measurement in samples with a temperature down to -30°C.
Self-cleaning junction
The high electrolyte outflow prevents contaminants from entering and clogging the junction, which would interfere with the reading.
Flexible connectivity
The S7 sensor head offers flexibility and can easily be connected to any meter.

For more Details:
www.mt.com/InLab

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Item	Description	Product ID	Qty	Unit	Price Per Unit	Total USD
180	Cond probe InLab 731	51344020	1	EA	473.00	449.35

A 4 graphite poles conductivity cell with integrated temperature probe. Designed for general applications like standard and high conductivity samples.

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

Measuring range : 0.01 – 1000 mS/cm
Connector : Mini-DIN
Cell Constant : 0.57 cm-1
Temperature Range : 0 °C – 100 °C
Cell type : 4 graphite poles
Shaft Material : Epoxy

Origin of Precision
Wide measuring range
The 4-pole cell eliminates polarization effects and guarantees a great linearity over a huge conductivity range.
Always the right temperature
The integrated temperature probe guarantees you always measure with the right temperature compensation.
The right sensor for every application
METTLER TOLEDO offers pH and other sensors for all kinds of applications. Find the best suited sensor for your application here: www.electrodes.net.

For more Details:
www.mt.com/InLab

190	Okidata B412dn Printer	30363434	1	EA	286.00	271.70

Approx. lead time excluding transport: 6 working days, shipping from: Worthington (Ohio, US)

200	Desktop/Monitor Data Collection System	63057273	1	EA	2,730.00	2,730.00

Approx. lead time excluding transport: same day, shipping from: Worthington (Ohio, US)

210	Computer Hard Drive Upgrade	30097623	1	EA	50.00	50.00

Upgrade for 500GB SSD

220	Estimated Freight	30097620	1	EA	961.76	961.76

Estimated freight

230	Estimated Tax	30097623	1	EA	4,442.59	4,442.59

Estimated tax @ 8.75% for Fountain Valley

Product Sub-Total	**56,176.11**

METTLER TOLEDO

Mettler-Toledo, LLC

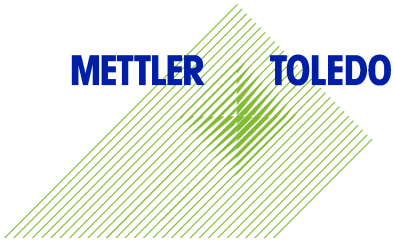
Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Services

Item	Service Description	Qty	Unit	Price Per Unit	Price	Total USD
11	EQPac Comprehensive Qualification				3,935.00	3,935.00
	Products being serviced					
	Titrator Excellence T7	1	EA	3,935.00		
	Included Services					
	EQPac Qualification Delivery EA					
	Install Equipment EA					
	Calibrate SCC					
31	EQPac Comprehensive Qualification				399.07	399.07
	Products being serviced					
	Base InMotion Flex	1	EA	399.07		
	Included Services					
	EQPac Qualification Delivery EA					
	Install Equipment EA					
34	Service Plan - 2 Visit(s)					
	Extended Care				1,956.00	1,956.00
	Products being serviced					
	Base InMotion Flex	1	EA	1,956.00		
	Included Services					
	Full Preventive Maintenance OnSite EA					
	Repair Coverage Full					
	Hours of Operation: Monday – Friday, 8 am – 5 pm Response: 1 Day Response					
	Specific Terms & Conditions may apply; Calibration available separately					
211	Service Plan - 2 Visit(s)					
	Extended Care				5,122.40	5,122.40
	Products being serviced					
	Titrator Excellence T7	1	EA	5,122.40		
	Included Services					
	Full Preventive Maintenance OnSite EA					
	Repair Coverage Full					
	Hours of Operation: Monday – Friday, 8 am – 5 pm Response: 1 Day Response					
	Calibrate SCC					
	Specific Terms & Conditions may apply; Calibration available separately					



Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Service Sub-Total	**11,412.47**
Total excl. tax	**67,588.58**

METTLER TOLEDO

Mettler-Toledo, LLC

Address 1900 Polaris Parkway
Columbus, OH 43240-4035
Phone (800) METTLER
(800) 638-8537

www.mt.com

Quotation 321547564

Terms and Conditions

Payment Terms	Due 30 Days from Invoice Date
Incoterms	FCA MT Columbus/Worthington
Quotation Valid Until	12/25/2020
Ordering costs	Shipping charges are not included.
Prices and Taxes	State and local taxes are not included.
General Conditions	This quotation is expressly subject to the METTLER TOLEDO Standard Terms and Conditions of Sale, which can be accessed at www.mt.com/terms and are incorporated herein by reference. MT may require a down payment that is due at order placement and any other payments are due net 30 calendar days from the date of invoice. Prices may be adjusted at the time of performance to include any necessary surcharge(s).

METTLER TOLEDO

AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: R. Herndon, D. Field

Budgeted: Partial
Budgeted Amount: $39,034
Cost Estimate: $64,685
Funding Source: R&R
Program/ Line Item No. R19027
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: Yes

Subject: CONTRACT TAL-2020-4 CHANGE ORDER NO. 1 DECOMMISSIONING OF MONITORING WELL SA5 AND CONSTRUCTION OF REPLACEMENT MONITORING WELL CLUSTER OCWD-M58

SUMMARY

During an initial attempt to properly destroy nested monitoring well SA5, the District's contractor was unable to remove fill from inside both well casings due to collapsed well screens. A contract change order in the amount of $64,685 is requested to over-drill the nested wells and seal the borehole, as directed by the permitting agency, the Orange County Health Care Agency.

RECOMMENDATION

Agendize for December 16 Board meeting: Approve issuance of Change Order No. 1 to Contract TAL-2020-4 in the amount of $64,685.

BACKGROUND/ANALYSIS

Nested monitoring well SA5 was installed in 1963. The well is constructed with two, 2-inch diameter galvanized steel well casings installed in a single borehole. Due to corrosion of the casings, SA5 was slated for destruction and replacement. In August 2020, the Board approved destruction of SA5 and construction of replacement monitoring well OCWD-M58. The locations of SA5 and replacement well OCWD-M58 are shown on Figure 1.

In September 2020, the well permitting agency, the Orange County Health Care Agency (OCHCA) issued a permit for the destruction of SA5. In November 2020, the District's contractor, BC2 Environmental (BC2) began destruction of the well. In accordance with the California Well Standards and OCHCA requirements, all fill must be removed from the well casings prior to cement grout sealing/destruction. This requirement is to reduce the potential for vertical cross-contamination between aquifer zones. Unfortunately, BC2 was unable to remove fill from the well casings using standard fill-removal practices. Staff has concluded that both casings are likely collapsed within the screen intervals. Staff reported these findings to OCHCA staff who directed that the well be over-drilled to remove the existing well casings and the borehole sealed with neat cement.

To accomplish the requested destruction procedures (which are out of scope for the contract), staff requests approval of Change Order No. 1 for $64,685.

Table 1 below summarizes the R&R project budget and anticipated expenditures incorporating Change Order No. 1.

Table 1.
Summary of Decommissioning of Monitoring Well SA5 and Construction of Replacement Monitoring Well Cluster OCWD-M58
(including Change Order No. 1)

Task	Project Budget	Anticipated Expenditures
Destroy Well SA5 and Construct Replacement Well OCWD-M58	$ 335,000	
Award Contract TAL-2020-4	--	$ 309,349
Change Order No. 1 (Over-drill & Grout SA5)	0	64,685
Subtotal:	$ 335,000	$ 374,034
Destruction Inspection Services	0[(a)]	0[(a)]
Replacement Well Construction Inspection Services	0[(a)]	0[(a)]
Surveying	4,000	4,000
PROJECT TOTAL:	$ 339,000	$ 378,034

(a) Inspection Services to be performed by OCWD Hydrogeologist.

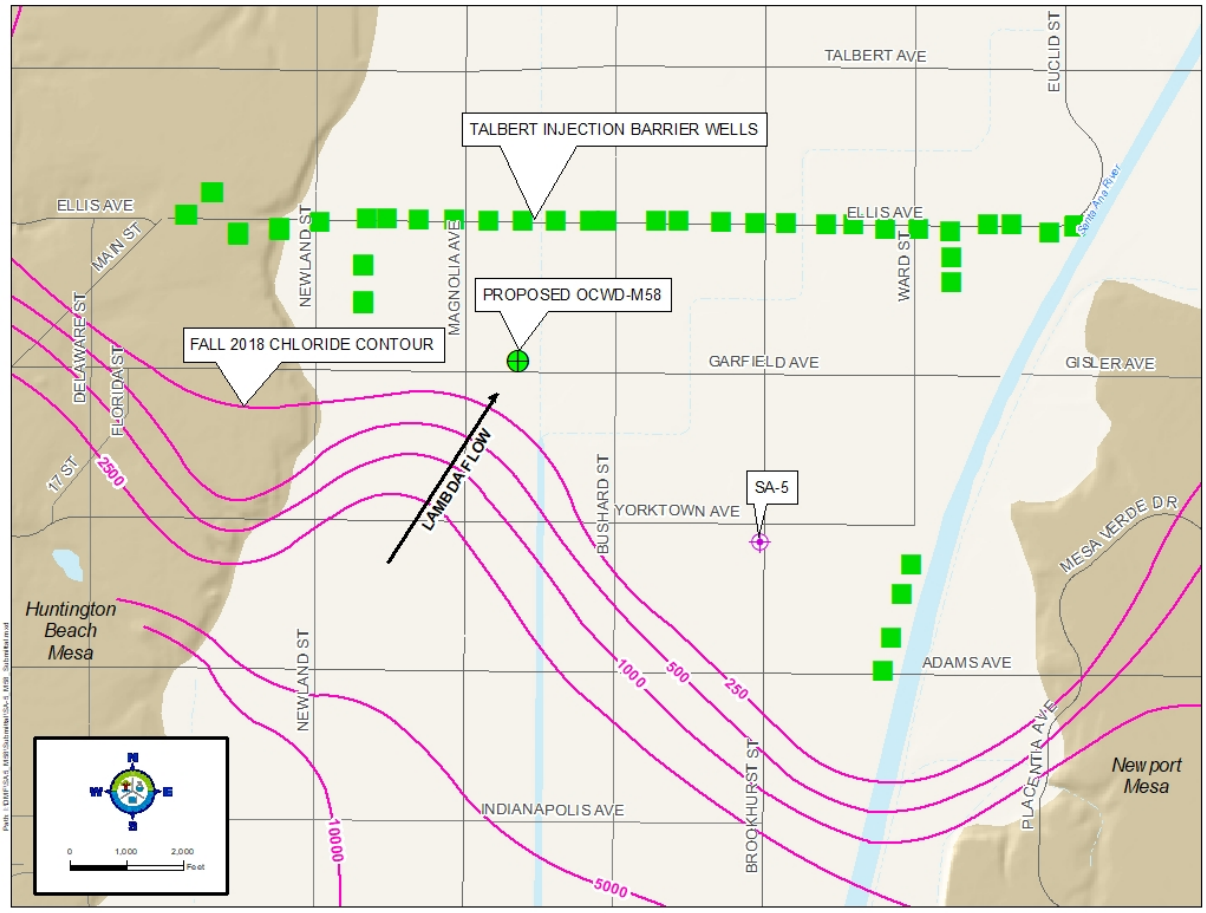
PRIOR RELEVANT BOARD ACTIONS

8/19/2020 R20-8-105: Receive and file Affidavit of Publication of Notice Inviting Bids for Contract TAL-2020-4, destruction of monitoring well SA5 and construction of replacement monitoring well cluster OCWD-M58 and accept bid and award Contract No. TAL-2020-4 to BC2 Environmental LLC for an amount not to exceed $309,349.

6/17/2020 M20-63 Authorize issuance of a Notice Inviting Bids for destruction of monitoring well SA5 and construction of replacement monitoring well cluster OCWD-M58 (TAL-2020-4).

1/22/2020 R20-1-6 Approve destruction of monitoring well SA5 and construction of replacement monitoring well OCWD-M58, authorize Notice Inviting Bids, authorize issuance of an RFP for inspection services, and adopt the Final Initial Study/Mitigated Negative Declaration.

Figure 1 Location Map
and Chloride Concentration Contours in the Lambda Aquifer



AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: G. Woodside

Budgeted: No
Budgeted Amount: NA
Cost Estimate: AECOM: $74,411
DTSC: $62,752
Funding Source: Reserves

Program/ Line Item No.: C18001
General Counsel Approval: Yes
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: PRADO SHOOTING AREAS: APPROVAL OF REIMBURSEMENT TO DTSC AND AMENDMENT NO. 4 TO AECOM AGREEMENT

SUMMARY

District staff has been working with the California Department of Toxic Substances Control (DTSC) and our consultat AECOM to complete the remedial investigation of Pigeon Hill and the Former Clay Target Range in Prado. Additional field sampling was completed in August 2020. Based on the data collected, one more field sampling effort is needed. Following this proposed sampling round, the Feasibility Study will be completed.

Attachments:

- AECOM proposal for Amendment Number 4
- Letter from DTSC regarding reimbursement of oversight costs

RECOMMENDATION

Agendize for December 16 Board meeting:

1) Authorize approval of Amendment No.4 to Agreement No. 1321 with AECOM to conduct additional field sampling at Pigeon Hill and the Former Clay Target Range for an amount not to exceed $74,411; and,

2) Authorize reimbursement for Department of Toxic Substances Control oversight expenses for the period from July 1, 2020 to June 30, 2021 for an amount not to exceed $62,752

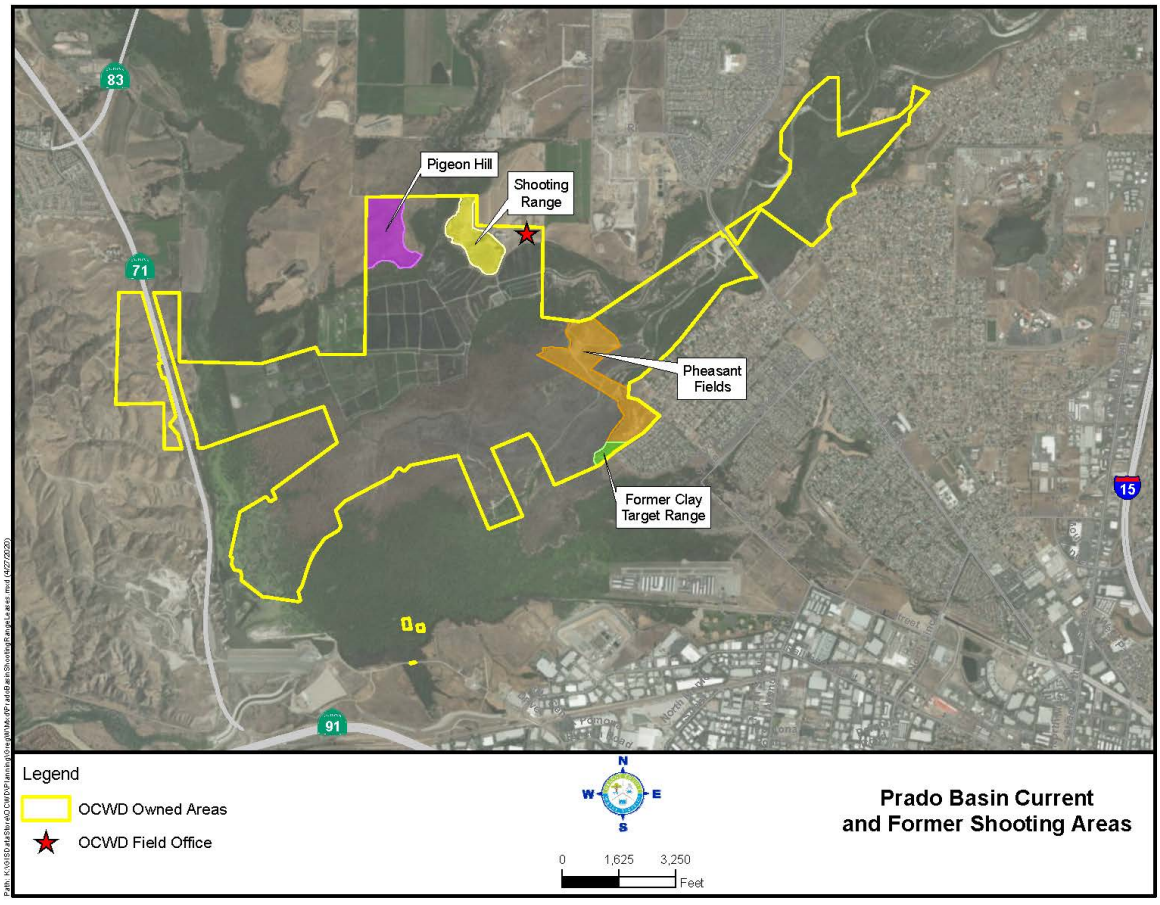
BACKGROUND/ANALYSIS

In 2016, the District prepared environmental studies at the shooting area properties behind Prado Dam. The studies mapped the occurrence of lead bullet and other typical shooting area contaminants in the soil and developed preliminary plans for the remediation of the contamination and for the ultimate closure of the facilities expected to occur in the distant future. These studies identified best management practices for the

ongoing use of active shooting areas and developed initial estimates of the areas to be cleaned up at various sites. The best management practices have been incorporated into the Raahauge Shooting Range lease.

The Prado Shooting Areas are comprised of four areas (see figure below). These areas are:

- The active Shooting Range is located immediately west of the OCWD Prado office.
- A pheasant hunting and dog training area (Pigeon Hill) is west of the active Shooting Range.
- A former pheasant hunting area, called the Pheasant Fields, is located southeast of the OCWD Prado office.
- A former clay target range (FCTR) is located next to and southwest of the Pheasant Fields, on the southeast side of the lands owned by the District.



District staff is working with our consultant AECOM and DTSC to complete the remedial investigation of Pigeon Hill and FCTR. No further action is needed on the Pheasant

Fields. The active shooting range has a separate pathway to closure that is not part of the work to be completed for Pigeon Hill and FCTR.

The board authorized field sampling at Pigeon Hill and FCTR that was completed in September 2020. The results from the field sampling at Pigeon Hill and FCTR are summarized below.

- **Pigeon Hill** - The available data suggest that residual lead pellets pose a potential hazard to birds in select quadrants. The spatial extent of lead pellets are characterized to the extent needed to begin the Feasibility Study except for the northern edge of the area. Approximately one additional day of field sampling is needed to collect data on lead pellet occurrence prior to beginning the Feasibility Study.
- **FCTR** - The available data suggest that residual lead pellets, lead in soil, and high molecular weight polyaromatic hydrocarbons (PAHs) in soil have the potential to adversely affect wildlife at the FCTR. The spatial extent of lead pellets, lead in soil and PAHs in soil are characterized to the extent needed to begin the Feasibility Study except for the western/northwestern edge of the area.

Along the western/northwestern edge of the FCTR, there are areas where the data on lead pellets, lead in soil and PAH in soil exceed the proposed cleanup goals. Additional data are needed in these areas to define the western/northwestern extent of contamination. It is estimated that approximately five to seven days of field work are needed to collect the additional information. The additional sampling effort is guided by new information that became available on the location of shooters at the FCTR. The FCTR was closed in 1995. Recently available aerial photos from the period prior to 1995 provided information on where the shooters stood and the direction of shooting. The estimated direction of shooting is used to estimate target sampling locations, called target fan locations. This new information has been used to develop the proposed sampling program.

Based on discussions with AECOM and DTSC, additional field sampling at the FCTR is needed prior to beginning the Feasibility Study.

The attached proposal from AECOM includes the work to conduct the additional field sampling. Staff has reviewed the proposed scope of work with DTSC, which concurs with the proposed.

The proposed schedule for the work, if approved by the Board, is for the field sampling to completed by February 2021, weather permitting. Following this proposed sampling effort, the Feasibility Study will be completed in Fall 2021. The Feasibility Study will evaluate alternatives to address the contamination at Pigeon Hill and the FCTR. These alternatives will be reviewed with the Board.

The proposed fee for AECOM to complete this work is $74,411. This work includes preparing a work plan addendum to be reviewed by DTSC, quality control review of the new data, and updating figures and tables with the new data. Staff recommends that the Board authorize approval of Amendment No.4 to Agreement No. 1321 with AECOM to

conduct additional field sampling at Pigeon Hill and the Former Clay Target Range for an amount not to exceed $74,411.

In 2019, the District executed an agreement with the CA Department of Toxic Substance Control (DTSC) for DTSC oversight of the District's investigation of the Prado shooting areas. The District reimburses DTSC for their costs related to oversight. DTSC sent the attached letter, which estimates DTSC's regulatory oversight costs for the period from July 1, 2020 to June 30, 2021 to be. Staff recommends that the Board authorize reimbursement for Department of Toxic Substances Control oversight expenses for the period from July 1, 2020 to June 30, 2021 for an amount not to exceed $62,752.

PRIOR RELEVANT BOARD ACTIONS

5/6/2020, R20-5-55 - Approving Amendment No. 3 to Agreement No. 1321 with AECOM to support a Supplemental Remedial Investigation, Focused Remedial Investigation/Feasibility Study and Remedial Action Plan for the Prado Shooting Areas for an amount not to exceed $215,937.

9/18/19, M19-122 - Authorize $67,068 additional funding for finalization of the risk assessment and waste consolidation plan at the Prado Shooting Range to be paid as follows: DTSC $42,268 and AECOM $24,800.

10/7/2015, R15-10-141 - Authorize the General Manager to finalize negotiations and execute an Agreement with AECOM Technical Services Inc. for an amount not to exceed $222,938 for a focused remedial investigation and feasibility study of the Prado shooting areas

7/1/15, M15-104 - Authorize issuance of a revised Request for Proposals for a Focused Remedial Investigation & Feasibility Study of the Prado Shooting Areas (to include a 20-year and 30-year study period).

02/04/15, M15-22, Authorizing Board President to appoint Property ad hoc Committee to review issues related to Elaine Raahauge d.b.a. Mike Raahauge's Shooting Enterprises.

AECOM
999 Town and Country Road
Orange, CA 92868
aecom.com

November 30, 2020

Greg Woodside, P.G., C.HG
Executive Director of Planning
and Natural Resources
Orange County Water District
18700 Ward Street
Fountain Valley, CA 92708

Subject: Amendment No. 4 to Agreement No. 1321 – Additional Funding for Consulting Services to Support Additional Sampling for a Supplemental Remedial Investigation, Focused Remedial Investigation/Feasibility Study, at the Prado Shooting Areas, Corona, CA

Dear Mr. Woodside,

AECOM Technical Services, Inc. (AECOM) is pleased to provide the Orange County Water District (OCWD) this proposal to provide additional investigation services in support of the subject project. The purpose of the investigation is to evaluate potential contamination associated with refined target fan locations at the Former Clay Target Range and step out locations identified during sampling at Pigeon Hill. The proposal is in response to an email communication from you on November 10, 2020.

1. Scope of Work

The following discussion details the costing assumptions for the additional investigation and consulting services for each task.

Task 1 – Project Management and Meetings

- The following effort will be required to complete this task above the currently funded effort:
  - It is assumed that Project Management will cover two additional months as indicated in the attached schedule
  - It is assumed that two additional internal OCWD meetings and one additional meeting with the DTSC will be held to discuss the revised scope. The internal meetings will be attended by the Project Manager, Senior Professional I (geologist), and Project Professional II (geologist). The DTSC meeting will be attended by the Project Manager, Senior Professional II (ecological risk assessor) and Senior Professional I.

Task 2 – Supplemental Remedial Investigation

- A brief letter addendum (memorandum) to the existing RI Work Plan Addendum will be prepared to support the remedial investigation.

    - The document will be prepared by a Project Professional I with support from CADD/GIS and Administrative staff. The Project Manager and Senior Professional I (geologist) will provide technical oversight, with input from a Senior Professional II (ecological risk assessor)
    - Three submittals will be prepared: OCWD pre-draft, regulatory draft, and a final version.
- The remedial investigation will further delineate up to 43 sampling grids in the Former Clay Target Area and up to 8 sampling grids at Pigeon Hill. The remedial investigation will consist of conducting visual surveys for lead shot, sieving and counting lead shot from collected soil samples, and collecting up to 20 soil samples for fixed base laboratory analysis for metals and polyaromatic hydrocarbons (PAHs).
- The location of all soil samples will be determined using a portable GPS unit (Trimble or equivalent)
- It is assumed that the OCWD will clear selected areas that need to be cleared of vegetation with limited disturbance to the soil prior to the visual survey.
- It is assumed that the field sampling crew will consist of three Staff I Professionals. A Senior Professional I (geologist) will provide oversight.
- It is assumed that the fieldwork can be completed in a maximum of eight, 10-hour field days.

Task 3 – Focused Remedial Investigation/Feasibility Study (RI/FS) Report

- The following effort will be required to complete this task above the currently funded effort:
    - The additional laboratory data will undergo EPA Stage 2A validation by a Staff II Chemist.
    - Additional effort will be required by a Staff I geologist and a CADD/Graphics to compile, tabulate, and plot the additional data.

Task 4 – Removal Action Workplan (RAW) /Remedial Action Plan (RAP)

- No additional effort is required for this task.

2. Cost Estimate

The estimated cost to complete the above project tasks is $74,411 based on costing assumptions in the attached spreadsheet. AECOM proposes to perform the scope of work on a time and materials basis, under the terms and conditions of existing OCWD Agreement 1321 which included the fee schedule presented below.

Category	Proposed Rates (May 2020 to October 2021)
Principal in Charge	$ 252
Project Manager	$ 226
Senior Professional II	$ 194
Senior Professional I	$ 173
Project Professional II	$ 158
Project Professional I	$ 147
Staff Professional II	$ 137
Staff Professional I	$ 121
CADD/Graphics II	$ 116
CADD/Graphics I	$ 100
Field Technician	$ 84
Support (Clerical/Administrative)	$ 89

3. Schedule

Work will be conducted according to the attached schedule to the extent practicable, which assumes award of this modification by December 31, 2020.

As you are aware, the world is experiencing a pandemic as it relates to the coronavirus COVID-19 ("Coronavirus"). This health emergency has the potential of impacting multiple facets of the project including, without limitation, labor, personnel, manufacturing, equipment, materials, transportation and related supply chains, all of which have the potential to adversely impact the critical path of the project schedule. These potential, unusual, and unavoidable delays are outside of the control of AECOM and cannot be anticipated or determined in advance. AECOM will exercise reasonable care to mitigate the potential impact of the Coronavirus to the extent within AECOM's reasonable control. AECOM will notify you in the event AECOM becomes aware of any other potential impacts to the work caused by the Coronavirus.

If you have any questions, please feel free to contact us.

Yours sincerely,

Joan Siegal, PMP
Senior Project Manager
AECOM
T: (714) 886-7056
E: joan.siegal@aecom.com

Timothy R. Marshall, Ph.D.
Vice President
AECOM
T: (714) 689-7267
E: timothy.r.marshall@aecom.com

Department of Toxic Substances Control

Jared Blumenfeld
Secretary for
Environmental Protection

Meredith Williams, Ph.D., Director
5796 Corporate Avenue
Cypress, California 90630

Gavin Newsom
Governor

September 29, 2020

Mr. William T. Hunt
Orange County Water District
18700 Ward Street
Fountain Valley, California 92708

ANNUAL COST ESTIMATE - PRADO SHOOTING RANGE (SITE CODE: 401866)

Dear Mr. Hunt:

Section 25269.5 of the California Health and Safety Code requires the Department of Toxic Substances Control (DTSC) to provide a cost estimate for regulatory oversight activities at the Prado Shooting Range site, located at 14980 River Road, Corona, Riverside County, California. Enclosed is the schedule of expected activities and an estimate of staff hours and costs for the Fiscal Year 2020-2021 which starts July 1, 2020 and ends June 30, 2021. The hourly rates used in the cost estimate are DTSC's current contract estimation rates. The schedule and cost estimate will be updated as necessary to reflect changes to the project or the rates.

Please note that the cost estimate is only an estimate of projected costs, prepared with various assumptions regarding activities and deliverables. DTSC will issue invoices based on actual costs. Orange County Water District remains liable for all response costs incurred by DTSC pursuant to Health and Safety Code Section 25360 et seq., and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) 42 U.S.C. section 9601 et seq. DTSC reserves all rights to pursue cost recovery under any, and all applicable provisions of state or federal law.

We hope this, and future cost estimates will be useful in your fiscal and project planning. If you would like to discuss the estimate, please contact me at (714) 484-5368 or at email address Shahir.Haddad@dtsc.ca.gov.

Sincerely,

Shahir Haddad, P.E.
Supervising Engineer
Brownfields Restoration and School Evaluation Branch

Enclosure

Printed on Recycled Paper

Department of Toxic Substances Control
COST ESTIMATE FY 2020/2021

SITE: PRADO SHOOTING RANGE (60002777)

SITE CODE: 401866

PROJECT MANAGER: RAFAT ABBASI

THIS REW IS FILTERED TO SITE CODE(S):

							FY 2020/2021															
OU NAME	AREA	ACTIVITY TITLE	DOCUMENT TYPE	START DATE	TOT HRS	TOT $	Project Manager	Supervisor	Engineering	Geology	Toxicology	Industrial Hygiene	Public Participation	Legal	CEQA	OEJTA	Financial Assurance	Admin Proj. Manager	Clerical	Travel $	Contracts $
PROJECT WIDE		Remedial Investigation Work Plan	Remedial Investigation Workplan	07/27/2020	**76**	**$19,656**	40	2	0	16	16	0	0	0	0	0	0	0	2	$0	$0
PROJECT WIDE		Fieldwork	Fieldwork	09/30/2020	**24**	**$6,576**	24	0	0	0	0	0	0	0	0	0	0	0	0	$0	$0
PROJECT WIDE		Remedial Investigation/Feasibility Study	Remedial Investigation / Feasibility Study	12/30/2020	**96**	**$25,560**	60	4	0	16	16	0	0	0	0	0	0	0	0	$0	$0
PROJECT WIDE		Project Management	Project Management	06/22/2021	**40**	**$10,960**	40	0	0	0	0	0	0	0	0	0	0	0	0	$0	$0
			Project Management		**0**	**$0**	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	$0
				Totals	**236**	**$62,752**	**164**	**6**	**0**	**32**	**32**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**$0**	$0
				Hourly Rate			**$274**	**$288**	**$0**	**$274**	**$224**	**$0**	**$145**	**$0**	**$159**	**$0**	**$0**	**$0**	**$76**		
				Cost			$44,936	$1,728	$0	$8,768	$7,168	$0	$0	$0	$0	$0	$0	$0	$152	$0	$0
				Grand Total			$62,752														

AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: C. Olsen / F. Almario

Budgeted: No
Budgeted Amount: N/A
Cost Estimate: $49,095
Funding Source: CIP Reserves
Program/ Line Item No. C19005
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: AMENDMENT TO AGREEMENT WITH AQUEOUS VETS FOR PFAS TREATMENT PRESSURE VESSEL SYSTEMS PURCHASE

SUMMARY

OCWD is currently working with its Producers to remove perfluoroalkyl substances (PFAS) from water produced by Producers' affected wells. In May of this year, the Board authorized issuance of an Agreement to Aqueous Vets for the purchase of PFAS Treatment Vessel Systems. An Amendment to the agreement with Aqueous Vets is necessary to modify the treatment vessel system at the City of Orange Well No. 19 to accommodate the flow and pressure requirements of that well. Staff recommends authorizing Amendment No. 2 to Agreement No. 1422 with Aqueous Vets for PFAS Vessel System Design Modifications for an amount not to exceed $49,095.

RECOMMENDATION

Agendize for December 16 Board Meeting: Authorize issuance of Amendment No. 2 to Agreement No.1422 with Aqueous Vets, for an amount not to exceed $49,095.

BACKGROUND/ANALYSIS

OCWD started working on several projects to implement PFAS treatment in Fall of last year. At that time, Carollo started the PFAS Treatment Systems Planning Study to determine the scope and magnitude of treatment necessary for all impacted Producers in OCWD's area. Based on the data from the Carollo study, OCWD issued an Agreements to Aqueous Vets and Evoqua to purchase 55 PFAS Treatment Vessel Systems (a total of 110 treatment vessels). Aqueous Vets and Evoqua proposed to supply pressure vessel systems that are the same design used throughout the State on many other water treatment systems based on a maximum design flow of 1,500 gallons per minute (gpm) and a maximum pressure rating of 125 pounds per square inch (psi). Aqueous Vets was assigned to supply the vessels for the City of Orange treatment systems.

In July 2020, a work order was issued to Kennedy Jenks Consultants (KJ) to provided design services for the PFAS treatment systems for the City of Orange. Hydraulic evaluations were performed at each well site as part of the preliminary design process. The Draft Engineer's Report indicated that Well No. 19 would exceed the maximum flow and the maximum pressure rating of the treatment system vessels. The design flow for this well is approximately 2,000 gpm and under certain conditions will exceed 125 psi. Staff

requested a quote from Aqueous Vets to upgrade the treatment vessel system to accommodate the flow and pressure of Well No.19.

Staff reviewed Aqueous Vets' quote and determined that their proposed costs were commensurate with the additional materials and labor required to modify the vessel treatment system. The modifications will include increasing the vessel steel thickness from 1/2-inch to 5/8-inch and upsizing the system internal piping to accommodate the higher flow.

Staff recommends authorizing issuance of Amendment No. 2 to Agreement No. 1422 with Aqueous Vets for an amount not to exceed $49,095.

Prior Relevant Board Actions

09/16/20 R20-9-117: Authorize issuance of Amendment No. 1 to Agreement No. 1423 with Evoqua to increase the PFAS Treatment Vessel System pressure rating of four vessel systems to 150 psi, for an amount not to exceed $71,840.

05/06/20 R20-5-56: Authorize Agreement to Aqueous Vets for the purchase of 25 systems for a price not to exceed $8,159,052 and Agreement to Evoqua and for the purchase of 30 systems for a price not to exceed $11,020,220

1/22/20 R20-1-13: Authorizing Request for Quotes to pre-purchase 150 PFAS treatment vessels; Authorizing RFP for on-call consultants to prepare PFAS Treatment System Designs; Authorizing Agreements for PFAS Treatment System; and establishing design budget

10/16/19 R19-10-148: Authorize issuance of an Agreement to Carollo for an amount not to exceed $399,996 for the PFAS Treatment Systems Planning Study.

8/7/19 R19-8-111: Authorize issuance of an Agreement to Jacobs for an amount not to exceed $340,577 for PFAS Treatment Testing Support Services.

AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: C. Olsen

Budgeted: No
Budgeted Amount: $0
Cost Estimate: $27,256
Funding Source: R&R
Program/Line Item No. N/A
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: AGREEMENT WITH FS CONTRACTORS, INC. FOR CARBON TREATMENT BUILDING RAMP REPLACEMENT PROJECT

SUMMARY

The Water Quality Department uses the Carbon Treatment Building on the Fountain Valley campus to store and handle granular activated carbon (GAC) used in small mobile vessels to treat monitoring well purge water. The project will replace the short access ramp with a platform and driveway for safe use of a forklift to move 1,000 to 1,500-pound containers of GAC into or out of the building. Staff recommends awarding an Agreement to FS Contractors, Inc. for the Carbon Treatment Building Ramp Replacement Project.

RECOMMENDATION

Agendize for December 16 Board meeting: Authorize issuance of an Agreement to FS Contractors, Inc. for the Carbon Treatment Building Ramp Replacement Project for a not to exceed cost of $27,256.

BACKGROUND/ANALYSIS

The Water Quality Department uses GAC within small, portable vessels for the treatment of groundwater pumped from monitoring wells located throughout the basin. The GAC treatment process is essential for compliance with the District's Regional Board-issued groundwater monitoring discharge permit. GAC is purchased in bulk and is stored in the Carbon Building located on the Fountain Valley campus, where it is routinely removed from and replaced within the vessels. This process requires periodic use of a forklift with loaded drums and/or super sacks of GAC weighing more than 1,000 pounds.

When using a forklift, the current ramp leading up to the Carbon Treatment Building can be a safety hazard for staff working in and around the building. Figures 1 and 2 show the existing ramp leading up to the Carbon Treatment Building. When mobile carbon treatment vessels reach treatment capacity, the spent carbon is transferred to 55-gallon steel drums and is shipped back to the manufacturer for thermal reactivation. A forklift is also used to move and unload pallets of similarly weighted spent carbon drums out of the Carbon Treatment Building.

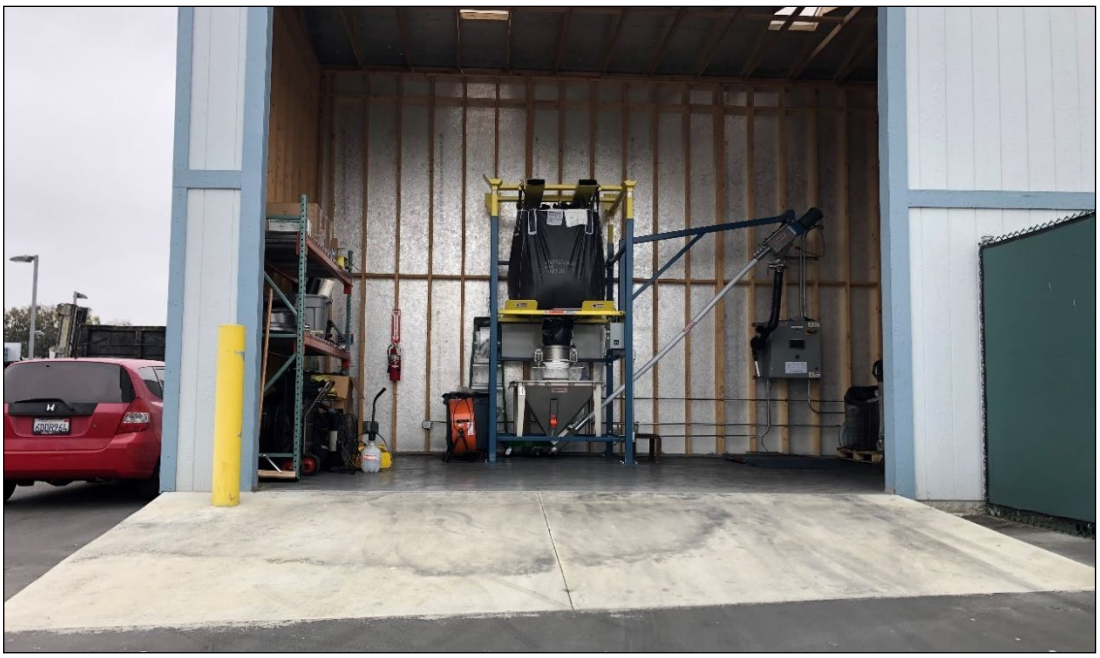
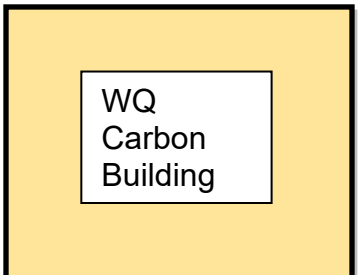


Figure 1 – Carbon Treatment Building Ramp

Figure 2 – Carbon Treatment Building Ramp (Side)

In September 2020, the Board authorized staff to issue a request for quotes to build the new platform and driveway which had an estimated cost of $30,000 and would be constructed as shown in Figure 3 below.



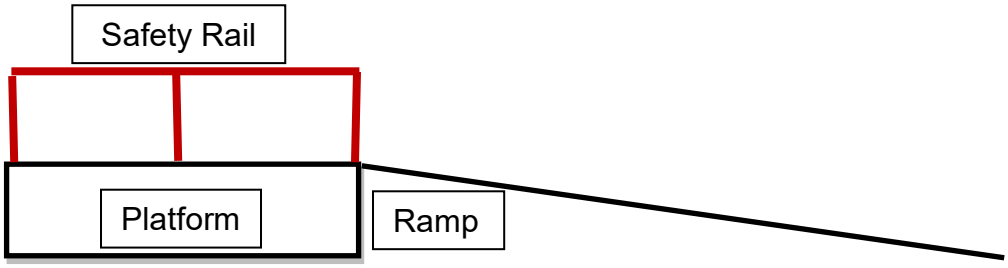


Figure 3 – Proposed Carbon Treatment Building Platform/Ramp

Staff prepared the request for quotes to demolish the existing ramp and asphalt, construct the new platform and driveway/ramp and install safety rails. Staff solicited quotes from three contractors but only received one quote from FS Contractors, Inc. who constructed the initial building foundation. Staff recommends authorizing issuance of an Agreement to FS Contractors, Inc. for the Carbon Treatment Building Ramp Replacement Project for a not to exceed cost of $27,256.

PRIOR RELEVANT BOARD ACTION(S):

September 16, 2020: Authorize issuance of a request for quotes to build a new platform and ramp to provide a safer working area in and around the Carbon Treatment Building.

August 16, 2017, M17-117: Re-establish project budget in amount of $60,000 for Carbon Treatment Building Project

April 20, 2016, R16-4-51: Approval of OCWD Budget including large equipment purchase of modular Carbon Treatment Building

AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: R. Herndon/D. Mark

Budgeted: Yes
Budgeted Amount: $1,116,000 (FY21-22)
Cost Estimate: $1,116,000
Funding Source: General Fund
Program/Line Item No.: 1050.56026.9932
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: ALAMITOS SEAWATER BARRIER 2021-22 OPERATIONS AND MAINTENANCE BUDGET

SUMMARY

Staff recommends approval of the 2021-22 Alamitos Barrier operations and maintenance (O&M) budget of $2,878,000, of which $1,116,000 is the District's share, as proposed by the Alamitos Barrier Joint Management Committee.

Attachment: Alamitos Barrier 2021-22 Operation and Maintenance Budget Table

RECOMMENDATION

Agendize for December 16 Board meeting: Approve the Alamitos Barrier 2021-22 total O&M budget in the amount of $2,878,000 and authorize payment of the District's share not to exceed $1,116,000 payable to the Los Angeles County Public Works after receipt and review of invoices.

BACKGROUND/ANALYSIS

In 1964, the District entered into an "Agreement for the Cooperative Implementation of Alamitos Barrier Project," with the Los Angeles County Flood Control District (now part of the Los Angeles County Public Works - LACPW). Under the terms of the agreement, the LACPW operates and maintains the Alamitos Seawater Barrier and its physical facilities under the direction of the interagency Joint Management Committee (JMC). The JMC comprises eight agency staff members, half appointed by LACPW and half appointed by the District.

Each year the JMC reviews and recommends for approval an O&M budget for the upcoming fiscal year. The barrier O&M budget comprises several activities including injection facilities O&M and administration, monitoring well data collection and maintenance, data analysis and reporting, and insurance. The total O&M budget is divided between LACPW and OCWD in proportion to the water injected into the barrier by each agency. The District's share of total injection (7,000 AF/year) is estimated to be about 40% or 2,800 AF/year.

On October 22, 2020, the JMC proposed a total O&M budget of $2,878,000 for 2021-

22, of which the District's estimated share is $1,116,000. These amounts include approximately $80,000 for liability insurance premiums which are shared equally between LACPW and OCWD. There is a lag time in receiving invoices from LACPW, so one-half of the annual expenses is paid in FY21-22, and the other half is paid in FY22-23. Staff recommends Board approval of the O&M budget and payment of the District's share.

PRIOR RELEVANT BOARD ACTIONS

12/18/19, M19-153 – Approve the 2020-21 O&M budget for the Alamitos Barrier in the amount of $2,530,000 and authorize the payment of OCWD's share in the amount of $986,000, payable to LACPW; approve increase in the amount of $50,500 for the District's share of Alamitos Barrier O&M expenses for FY2018-19, for a revised not-to-exceed total of $794,500.

9/16/15, R15-9-125 - Approve and authorize execution of *Amendment to Agreement for Cooperative Implementation of Alamitos Barrier Project, Supplement No. 8* with the Los Angeles County Department of Public Works (LACDPW) to revise the District's annual payment to LACDPW that incorporates a prorated portion of the actual costs of the Alamitos Barrier maintenance yard.

9/17/14, R14-9-126 - Approve and authorize execution of the cost-sharing *Agreement for Construction of Additional Facilities for the Alamitos Barrier Project Supplement No. 7* with the LACDPW for the design and construction of injection and monitoring well facilities and payment by LACDPW to OCWD at one-half of the cost of the new facilities located between Points B and C for a total not to exceed $1,253,000; and approve an increase to the Alamitos Barrier Improvement Project budget by $4,693,000 for a revised total capital project budget of $14,752,000.

12/18/13, M13-181 – Authorize general liability insurance policy for the Alamitos Barrier for calendar year 2014 and authorize inclusion of general liability insurance premiums in future Alamitos Barrier annual O&M budgets submitted separately for Board approval.

9/16/98, R98-9-141 - Approve and authorize execution of Supplement No. 6 to Alamitos Barrier Project agreement with LACDPW. Provides for the District to construct additional barrier facilities identified in Geologist's Report on Alamitos Barrier Improvement Project Construction Unit 12, consisting of 5 new injection wells, one new extraction well, and 3 new monitoring wells.

3/17/93, R93-3-44 - Authorize execution of Supplement No. 5 to Alamitos Barrier Project agreement with Los Angeles County Flood Control District (now part of Los Angeles County Department of Public Works). Supplement provides for expansion of Alamitos Barrier Joint Management Committee from six to eight members (LACFCD and the District each to appoint one additional member)

10/4/89, R89-10-201 - Authorize execution of Supplement No. 4 to Alamitos Barrier Project agreement with Los Angeles County Flood Control District providing for joint participation in design, construction, operation and maintenance of the Alamitos Barrier Project. Provides for the District to design and construct required additional Alamitos Barrier facilities identified in the District's Engineer's Report regarding Seawater Intrusion at the Alamitos Barrier, approved 5/3/89 by Resolution No. 89-5-90.

4/17/85, R85-4-41 - Approve and authorize execution of Alamitos Barrier Hydroelectric Project Site lease and Royalty Agreement with Los Angeles County Flood Control Dist. & Hydro Electric Constr. Inc.; & Supplement No. 3 to Alamitos Barrier Project Agreement to provide for construction of hydroelectric project at Alamitos Barrier.

9/25/69, R69-9-96 - Approve Supplement No. 2, Amending the Agreement for Cooperative Implementation of the Alamitos Barrier Project.

1/20/65, R891 – Authorize Agreement with LACFCD for Geologic Services on Alamitos Barrier Project (Supplement No. 1).

6/17/64, R831 - Approve Agreement for Cooperative Implementation of the Alamitos Barrier Project.

ABP FY 2021-22 Operation and Maintenance Budget

JMC No.	Fiscal Year	LACFCD		OCWD		WRD		TOTAL	
		Budget	Actual	Budget	Actual	Budget	Actual	Budget	Actual
1.				Analysis and direction of injection operation ($)					
	2017-18	65,000	85,629	35,000	22,216			100,000	107,845
	2018-19	65,000	97,978	35,000	59,797			100,000	157,775
	2019-20	55,000	132,029	45,000	80,578			100,000	212,607
	2020-21	*90,000*		*60,000*				*150,000*	
	2021-22	*120,000*		*80,000*				*200,000*	
2.				Maintenance and repair of injection wells ($)					
	2017-18	292,500	390,733	157,500	101,374			450,000	492,107
	2018-19	292,500	263,657	157,500	160,912			450,000	424,569
	2019-20	247,500	327,656	202,500	199,970			450,000	527,626
	2020-21	*270,000*		*180,000*				*450,000*	
	2021-22	*330,000*		*220,000*				*550,000*	
3.				Operations of Injection Well Facilities ($)					
	2017-18	32,500	54,179	17,500	14,057			50,000	68,236
	2018-19	32,500	37,411	17,500	22,832			50,000	60,243
	2019-20	38,500	40,376	31,500	24,642			70,000	65,018
	2020-21	42,000		28,000				70,000	
	2021-22	*42,000*		*28,000*				*70,000*	
4.				Analysis and direction of extraction operation ($)					
	2017-18	0	0	0	0			0	0
	2018-19	0	0	0	0			0	0
	2019-20	0	0	0	0			0	0
	2020-21	0		0				0	
	2021-22	*0*		*0*				*0*	
5.				Redevelopment, maintenance, and repair of extraction wells ($)					
	2017-18	10,000	0	0	0			10,000	0
	2018-19	10,000	0	0	0			10,000	0
	2019-20	10,000	0	0	0			10,000	0
	2020-21	10,000		0				10,000	
	2021-22	*10,000*		*0*				*10,000*	
6.				Operations of Extraction Wells ($)					
	2017-18	5,000	1,538	0	0			5,000	1,538
	2018-19	5,000	1,556	0	0			5,000	1,556
	2019-20	5,000	1,512	0	0			5,000	1,512
	2020-21	5,000		0				5,000	
	2021-22	*5,000*		*0*				*5,000*	
7.				Maintenance and repair of ABP ($)					
	2017-18	227,500	243,510	122,500	63,178			350,000	306,688
	2018-19	195,000	224,174	105,000	136,815			300,000	360,989
	2019-20	165,000	231,775	135,000	141,454			300,000	373,229
	2020-21	*222,000*		*148,000*				*370,000*	
	2021-22	*225,000*		*150,000*				*375,000*	
8.				Maintenance of Observation Wells ($)					
	2017-18	130,000	102,389	70,000	26,564			200,000	128,953
	2018-19	32,500	6,403	17,500	3,908			50,000	10,310
	2019-20	82,500	15,225	67,500	9,292			150,000	24,517
	2020-21	*30,000*		*20,000*				50,000	
	2021-22	*90,000*		*60,000*				*150,000*	
9.				Collection of groundwater data ($)					
	2017-18	130,000	137,535	70,000	35,683			200,000	173,218
	2018-19	130,000	111,940	70,000	68,318			200,000	180,257
	2019-20	96,250	99,931	78,750	60,989			175,000	160,920
	2020-21	120,000		80,000				200,000	
	2021-22	*120,000*		*80,000*				*200,000*	
10.				Yard Maintenance ($)					
	2017-18	70,760	38,503	9,240	9,989			80,000	48,492
	2018-19	66,250	54,965	8,750	8,750			75,000	63,715
	2019-20	35,750	58,686	29,250	35,816			65,000	94,503
	2020-21	65,000		10,000				75,000	
	2021-22	*65,000*		*10,000*				*75,000*	
11.				Injection Well Redevelopment ($)					
	2017-18	650,000	416,790	350,000	108,134			1,000,000	524,924
	2018-19	325,000	551,322	175,000	336,475			500,000	887,796
	2019-20	550,000	548,711	450,000	334,882			1,000,000	883,592
	2020-21	600,000		400,000				1,000,000	
	2021-22	*600,000*		*400,000*				*1,000,000*	
12.				Processing of data and preparation of reports ($)					
	2017-18	39,000	69,081	21,000	17,923			60,000	87,004
	2018-19	39,000	42,207	21,000	25,759			60,000	67,967
	2019-20	44,000	35,606	36,000	21,731			80,000	57,337
	2020-21	48,000		32,000				80,000	
	2021-22	*42,000*		*28,000*				*70,000*	
13.				Oversight of Reclaim Water Program ($)					
	2017-18	29,250	34,005	15,750	8,822			45,000	42,827
	2018-19	32,500	10,701	17,500	6,531			50,000	17,232
	2019-20	27,500	4,814	22,500	2,938			50,000	7,752
	2020-21	30,000		20,000				50,000	
	2021-22	*18,000*		*12,000*				*30,000*	
14.				Projects and Studies ($)					
	2017-18	6,500	125,552	3,500	32,574			10,000	158,126
	2018-19	6,500	62,613	3,500	0			10,000	62,613
	2019-20	5,500	60,442	4,500	0			10,000	60,442
	2020-21	12,000		8,000				20,000	
	2021-22	*55,000*		*8,000*				*63,000*	
15.				ABP Liability Insurance ($)					
	2017-18	38,000	38,951	38,000	38,951			76,000	77,902
	2018-19	38,000	32,162	38,000	32,162			76,000	64,324
	2019-20	40,000	33,375	40,000	33,375			80,000	66,750
	2020-21	35,000		35,000				70,000	
	2021-22	*40,000*		*40,000*				*80,000*	
16.				Total ABP Expenditure ($)					
	2017-18	1,726,010	1,738,394	909,990	479,465			2,636,000	2,217,859
	2018-19	1,269,750	1,497,089	666,250	862,257			1,936,000	2,359,346
	2019-20	1,402,500	1,590,139	1,142,500	945,666			2,545,000	2,535,805
	2020-21	1,579,000		1,021,000				2,600,000	
	2021-22	*1,762,000*		*1,116,000*				*2,878,000*	
TOTALS				Total ABP Operations and Maintenance ($) [Item 16-Item 15]					
	2017-18	1,688,010	1,699,443	871,990	440,515			2,560,000	2,139,958
	2018-19	1,231,750	1,464,927	628,250	830,095			1,860,000	2,295,023
	2019-20	1,362,500	1,556,764	1,102,500	912,291			2,465,000	2,469,055
	2020-21	1,544,000		986,000				2,530,000	
	2021-22	*1,722,000*		*1,076,000*				*2,798,000*	
				Volume of Water (ac-ft)					
	2017-18			2,450	910	4,550	3,504	7,000	4,414
	2018-19			2,960	2,009	4,440	3,287	7,400	5,295
	2019-20			2,800	2,100	4,200	3,437	7,000	5,537
	2020-21			3,000		4,500		7,500	
	2021-22			*2,800*		*4,200*		*7,000*	

AGENDA ITEM SUBMITTAL

Meeting Date: December 9, 2020

To: Water Issues Committee
Board of Directors

From: Mike Markus

Staff Contact: C. Olsen/R. Bouley

Budgeted: N/A
Proposed Budget: N/A
Cost Estimate: N/A
Funding Source: N/A
Program/Line Item No. N/A
General Counsel Approval: N/A
Engineers/Feasibility Report: N/A
CEQA Compliance: N/A

Subject: CONTRACT NO. PB-2020-1, PRADO BASIN SEDIMENT MANAGEMENT DEMONSTRATION PROJECT EXCAVATION AND DREDGING UPDATE

SUMMARY

The Prado Basin Sediment Management Demonstration Project (SMDP) was created to help OCWD and the US Army Corps of Engineers find a way to better manage sediment accumulation and its impacts to Prado Basin. CJW Construction, Inc was awarded the contract for this work and has nearly completed the project. Staff will provide and update to the Committee on the status of the project.

RECOMMENDATION

Informational

BACKGROUND/ANALYSIS

The purpose of the Prado Basin Sediment Management Demonstration Project (SMDP) is to test sediment removal methods in the field and increase retained water volume in Prado Basin by removing up to 120,000 cubic yards of sediment from District property. The project will evaluate sediment removal in the Prado Basin as a method to achieve long-term sediment management objectives. The completed demonstration project will provide data, conclusions, and recommendations that examine the feasibility of a long-term program for ongoing sediment management for Prado Basin within the operating constraints of the USACE flood risk mitigation operational requirements

The project schedule is shown in Table 1, below:

Table 1: Prado Basin SMDP Schedule

Description	Date
Complete Design	May 2019
Advertise for Vegetation Removal	June 2019
Award Vegetation Removal	August 2019
Site Clearing and Vegetation Removal (Phase 1)	Fall 2019
Advertise for Excavation and Dredging Operations	May 2020

Award Excavation and Dredging Operations	June 2020
Excavation and Dredging Operations (Phase 2)	Fall 2020
Complete Construction	December 2020

CJW Construction, Inc (CJW) was awarded the Contract for the Prado Sediment Management Demonstration Project Excavation and Dredging (Phase 2) and has nearly completed work on the project.

PRIOR RELEVANT BOARD ACTION(S)

6/17/2020, R20-6-75: Adopt Resolution awarding Contract No. PB-2020-1, Prado Basin Sediment Management Demonstration Project Excavation and Dredging, to CJW Construction, Inc.

12/18/2019, R19-12-173: Adopt Resolution accepting completion of Contract No. PB-2019-1, Prado Basin Sediment Management Demonstration Project Vegetation Removal

8/21/2019, R19-8-123; Award Contract No PB-2019-1, Prado Basin Sediment Management Demonstration Project Vegetation Removal to McNabb Construction, Inc. DBA DK Environmental.

5/22/2019, M19-74: Approve Publication of Notice Inviting Bids for Prado Basin Sediment Demonstration Project Vegetation Removal

9/19/2018, R18-9-126: Adopt Resolution certifying the final Environmental Impact Report (State Clearinghouse #2016041060) for the Orange County Water District Five Year (2018 To 2023) Prado Water Conservation Program pursuant to the proposed United States Army Corps of Engineers Deviation to the Prado Dam Water Control Plan and Sediment Management Demonstration Project and Approving the projects and associated actions

1/20/2016, R16-1-9: Adopt Resolution approving the Prado Basin Sediment Management Demonstration Project which includes the following items:

- Certifying the Final Environmental Impact Report for the Project;
- Adopting the Findings of Fact and Statement of Overriding Consideration and the Mitigation Monitoring Reporting Program;
- Approve the Project and establish the Project budget of $3,898,000;
- Authorizing staff to complete the permitting process with the Army Corps of Engineers and the resource agencies, execute the permits received for the Project from the Army Corps of Engineers and the resource agencies, and prepare and implement the Habitat Management Program for the Project;
- Authorizing issuance of Notice Inviting Bids for sediment removal;
- Authorizing filing of Notice of Determination