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CITY OF SANTA BARBARA

COUNCIL AGENDA REPORT

AGENDA DATE: June 21, 2022

TO: Mayor and Councilmembers

FROM: Water Resources Division, Public Works Department

SUBJECT: Cachuma Operation And Maintenance Board's Lake Cachuma Secured Pipeline Project Expenditure Ratification

RECOMMENDATION:

That Council ratify the expenditures for the Cachuma Operation and Maintenance Board's Lake Cachuma Secured Pipeline Project.

DISCUSSION:

Background

The Cachuma Operation and Maintenance Board (COMB) is a Joint Powers Agency (JPA) formed in 1956 pursuant to an agreement with the Bureau of Reclamation (Bureau). The agreement transferred to the Cachuma Project Member Agencies (Member Agencies) the responsibility to operate, repair, and maintain all Cachuma Project facilities, except for Bradbury Dam, which the Bureau continues to operate. Member Agencies include Goleta Water District, the City of Santa Barbara, Montecito Water District, and Carpinteria Valley Water District. COMB is responsible for delivering water from Lake Cachuma to the Member Agencies via the Tecolote Tunnel and the South Coast Conduit.

On October 19, 2021, California Governor Newsom proclaimed a state of emergency for the entire state, due to drought conditions. He then directed state agencies to take further actions to bolster drought resilience. In May 2022, the National Oceanic and Atmospheric Administration advised that 100 percent of Santa Barbara County remains affected by severe drought; and the period of January to March 2022 was the third driest period in the past 128 years. Additionally, Lake Cachuma, which is the primary surface water supply for the Member Agencies, is below 45 percent in storage capacity, and is expected to lose the ability to convey gravity-fed water through its intake tower and into the Tecolote Tunnel, should the current dry conditions and severe drought persist. The City currently has over 20,000 acre-feet of water stored in Lake Cachuma, which is nearly two years of water supplies for the City, and is approximately 25 percent of the total water currently stored in Lake Cachuma.

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Proposed Project

The Secured Pipeline Project (Pipeline Project) involves connecting a secured pipeline to the existing intake tower at Lake Cachuma, and extending it 3,600 feet into the lake to access deeper and colder lake water of a higher quality. The Pipeline Project will anchor a 36" high-density polyethylene pipe to the bottom of Lake Cachuma, which will allow for the conveyance of continuous gravity-fed water supplies through the intake tower, into the Tecolote Tunnel, and through the South Coast Conduit, for delivery to the Member Agencies. The attached memorandum includes a detailed Pipeline Project description.

Should Lake Cachuma's elevation drop to the point where water needs to be pumped from Lake Cachuma and into the intake tower, the pipeline would allow a barge-mounted Emergency Pumping Facility (EPF) to be installed relatively easily. An EPF has been installed in Lake Cachuma on three separate occasions: in 1957, 1990, and between 2014 and 2017. Without a secured pipeline, each of these EPF installations has been time-consuming and expensive; and operations have been overly burdensome.

COMB approved the project and budget expenditures by adopting Resolution 751 at their meeting on May 23, 2022. See the attached resolution. Per the COMB JPA Agreement, the governing bodies of each Member Agency must ratify a capital expenditure in excess of \$1 million for the Cachuma Project. Staff is recommending that Council ratify the expenditure for the Pipeline Project, as it will help ensure continued delivery of higher-quality water supplies, and will offer significant operational and financial benefits for COMB and the Member Agencies.

BUDGET/FINANCIAL INFORMATION:

The total estimated cost of the Pipeline Project is \$4,378,365. COMB has secured \$3,000,000 in grant funding for the Project, reducing the total funds needed from the Member Agencies to \$1,378,365. Under the COMB JPA, the City is responsible for 35.89 percent of the costs, which in this case is \$494,695. Sufficient expenditure appropriations exist in the Water Operating Fund budget in Fiscal Year 2022 for the City's contribution to the Pipeline Project.

SUSTAINABILITY IMPACT/WATER COMMISSION ACTION:

The Pipeline Project will help ensure the continued delivery of drinking water supplies to the City for its water customers, which is especially important during the current drought.

This item was presented to the Water Commission at their meeting on June 16, 2022.

ATTACHMENTS: 1. COMB Memorandum, May 11, 2022
2. COMB Resolution No. 751

PREPARED BY: Catherine Taylor, P.E., Water Supply and Services Manager/lm

SUBMITTED BY: Clifford M. Maurer, P.E., Public Works Director

APPROVED BY: City Administrator's Office

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RESOLUTION NO. _____

6-b

A RESOLUTION OF THE COUNCIL OF THE CITY OF
SANTA BARBARA RATIFYING CACHUMA OPERATION
AND MAINTENANCE BOARD RESOLUTION NO. 751
APPROVING THE LAKE CACHUMA EMERGENCY
PUMPING FACILITY SECURED PIPELINE PROJECT AND
AUTHORIZING CERTAIN OTHER ACTIONS

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF SANTA BARBARA AS
FOLLOWS:

SECTION 1. Pursuant to Section 1.3(i) of the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project – Cachuma Operation and Maintenance Board, the City of Santa Barbara ratifies the actions taken by Resolution No. 751 of the Cachuma Operation and Maintenance Board adopted on May 23, 2022.

SECTION 2. The Water Resources Manager is authorized and directed to deliver a copy of this Resolution to the Cachuma Operation and Maintenance Board.

SECTION 3. Effective Date – This Resolution shall take effect immediately upon its passage.

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CACHUMA OPERATION & MAINTENANCE BOARD**Operations Committee
MEMORANDUM**

Date:	May 11, 2022
Submitted by:	Joel Degner
Approved by:	Janet Gingras

SUBJECT: **2021-2025 Infrastructure Improvement Plan (IIP) - Lake Cachuma Emergency Pumping Facility Secured Pipeline Project (Project)**

RECOMMENDATION:

The Operations Committee review the COMB staff report and the proposed project expenditures, construction contract costs, management support services contract costs, and engineering during construction contract costs for the installation of the Lake Cachuma Emergency Pumping Facility Secured Pipeline Project (Project) and forward to the Cachuma Operation and Maintenance Board (COMB) with a recommendation to:

- 1) Adopt a resolution approving the Project and associated expenditures.
- 2) Award the Construction Contract to the most responsive, responsible proposer and authorize COMB's General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3 of COMB's 1986 Joint Powers Agreement (JPA), to issue a Notice of Award to Cushman Contracting Corporation (CCC), execute a contract with CCC in an amount not to exceed \$4,158,035, and issue a Notice to Proceed per the contract documents for construction of the Project.
- 3) Approve the Construction Management Support Services consultant and authorize the General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3 of COMB's JPA, to issue a Notice of Award to Flowers and Associates, Inc. (Flowers), execute a Professional Services Agreement (PSA) with Flowers in an amount of \$130,330, and issue a Notice to Proceed per the contract documents for construction management services on the Project.
- 4) Approve an Engineering During Construction Services (sole-source) contract and authorize the General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3 of COMB's JPA, to execute a PSA with Makai Ocean Engineering, Inc. in an amount not to exceed \$90,000, and issue a Notice to Proceed per the contract documents for engineering services during construction of the Project.

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SUMMARY:

Lake Cachuma serves as the primary water supply for approximately 208,000 people living on the South Coast of Santa Barbara County (South Coast). Water from Lake Cachuma is delivered through an intake tower (having various gates) located approximately mid-reservoir, which thereafter flows into the 6.4 mile Tecolote Tunnel and then through 26 miles of South Coast Conduit (SCC) pipeline.

COMB is responsible for diversion of water to the South Coast through the Tecolote Tunnel, as well as the operation and maintenance of the SCC. COMB's Member Agencies depend on Cachuma Project water, State Project water, and supplemental water conveyed through the SCC for the major portion of their surface water supply. COMB coordinates closely with the United States Bureau of Reclamation (Reclamation) and the staff of Member Agencies to ensure that water supplies meet the daily demands of these agencies.

On July 8, 2021, California Governor Newsom declared Santa Barbara County to be included in the State's emergency drought declaration. As of this date, the National Integrated Drought Information System, a division of the National Oceanic and Atmospheric Administration (NOAA), is publicly advising, among other things, that 100% of Santa Barbara County remains affected by severe drought and that the period January to March 2022 was the third driest such period during the past 128 years. As of May 2022, Lake Cachuma is below 45% storage capacity and is expected to lose the ability to gravity-feed into the lower gates of the intake tower, should the current dry conditions and severe drought persist.

This Project seeking approval by the COMB Board only involves the installation of a bottom-mounted (secured) pipeline connected to the existing intake tower at Lake Cachuma and extending 3,600 feet to the west, allowing access to deeper and colder lake water. The Project was recommended as a Phase 2 Management Action in the comprehensive 2020 Lake Cachuma Water Quality and Sediment Management Study prepared by Woodard and Curran, wherein it was referred to as the "North Portal Intake Tower Gate 5 Extension."

In the Project, the secured pipeline will consist of new 36" HDPE pipe anchored to the bottom of Lake Cachuma with approximately 160 precast concrete collars. The lake-end of the secured pipeline will include a screened gravity intake system that would allow the reactivation of the lowest gate on the intake tower (Gate 5). If the severe drought conditions continue into the winter of 2022-2023, only then will COMB staff need to request that the COMB Board consider the approval of the installation and operation of the related Emergency Pumping Facility (EPF floating barge or pump station) in the Spring/Summer 2023. The secured pipeline has a flexible connection that could be attached to the EPF floating barge at the Site 1 location, 3,600 feet from the intake tower (Figure 1), if and when necessary in the future.

In the event it became necessary to approve, install and operate the EPF floating barge in 2023, that barge would only operate temporarily until lake levels returned to a normal operating level to again allow gravity flow into the intake tower (Gate 5). As such, the Project contracts recommended for approval by the COMB Board do not include the installation of the EPF floating barge. The installation of the EPF floating barge would only be presented to the Board at a later date, under a separate contract, should severe drought conditions continue unabated, preventing the gravity flow of water into the intake tower (currently forecast to occur in or about Spring/Summer 2023). In the event the temporary EPF floating barge is needed and approved by the COMB Board at a future time, its installation and use will be expressly prohibited from diverting (1) unallocated Cachuma Project water, (2) water credited to Water Right 89-18 Above Narrows and Below Narrows accounts, (3) Minimum Pool (12,000-acre feet), and (4) any water needed to meet federal Endangered Species Act (ESA) requirements and Water Right 2019-0148 requirements.

The objectives of this Project are to (1) reduce the elevation triggers for installing the EPF floating barge; (2) eliminate the need to install and remove temporary anchor piles and floating pipeline; (3) eliminate the need to store the pipeline near the shore of the lake; (4) reduce the costs for each subsequent use of the EPF floating barge; and (5) reduce the period between initial EPF floating barge deployment and operation from over one (1) year to 120 days. With the secured pipeline installed on the bottom of the lake, the remaining assembly would include only the temporary EPF floating barge. During normal conditions, the gravity intake connected to Gate 5 would be used to improve the water quality delivered from the lake. In

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general, deeper water is colder and has slightly lower total organic carbon concentrations, which reduces the formation of disinfection byproducts generated during necessary water treatment.

In the history of Lake Cachuma, an emergency pumping system has been installed on three (3) separate occasions: 1957, 1990, and 2014-17. However, demands are now higher for the lake's water than they were in the early years of the Cachuma Project, including those of the South Coast, the increased downstream water rights releases following the implementation of WR 89-19 in 1989, the increased flow release requirements for fish that were implemented as part of the 2000 Biological Opinion which increased with Water Right Order 2019-148, and as a result of climate change, which is expected to further reduce the lake's inflow and increase the lake evaporation in the future. All these factors will likely lead to the lake elevation being lower than it has been in the past, and likely result in the EPF floating barge being more frequently deployed in the future. The initial one-time financial investment in this Project, in which the secured pipeline is installed, will be realized as significant long-term cost savings, as compared to the costs for the second and subsequent temporary deployments of the EPF floating barge, along with the previously used floating pipeline.

PROJECT EXPENDITURES

In 2018, the COMB Board approved funding for Makai to perform a feasibility study on a secured pipeline to be installed at Lake Cachuma. In 2019, the COMB Board approved a contract for continued engineering support to design the Lake Cachuma Secured Pipeline at Site 1 on the bottom of the lake to be used in this Project. Makai completed the designs, which included pipe weight design, spacing, deployment methodology, air entrainment specifications and intake system designs and specifications. In addition, Makai prepared construction bid documents for solicitation of this Project, including pipeline details and specifications, pipeline connection to the intake tower, the screened gravity intake system and pipeline connection to a temporary EPF floating barge (if needed). Plans, specifications, and an engineer's opinion of probable costs were included in the scope of work. The final costs for the feasibility study and completed bid-ready designs and specifications totaled \$273,000.

The Fiscal Year 2022-23 COMB Draft Operating Budget contains planned funding for the construction of the Project. As depicted in the 3rd Amendment of the IIP, the Project's expenditures for construction, management services and engineering services during construction are planned to be approximately \$4,400,000.

In 2019, COMB staff applied for and was awarded a grant for the Project from Reclamation's Drought Resiliency Grant Program in the amount of \$750,000 (Reclamation Grant). In 2021, staff also applied for and was awarded grant funding for the Project through the California Department of Water Resources (DWR) Urban and Multibenefit Drought Relief Program in an amount of \$2,250,000 (DWR Grant). The total amount of federal and state grant funding awarded to COMB equals \$3,000,000.

Staff also recently applied for a reimbursable federal loan through the Bipartisan Infrastructure Law established by subsection (d)(1) of section 9603 of the Omnibus Public Land Management Act of 2009. The Bipartisan Infrastructure Law provides a total of \$8.3 billion under Title IX (Western Water Infrastructure) to Reclamation for the 12 programs and activities it has authorized. Notification on acceptance of federal reimbursable funding for this project funding will be announced during the month of May 2022.

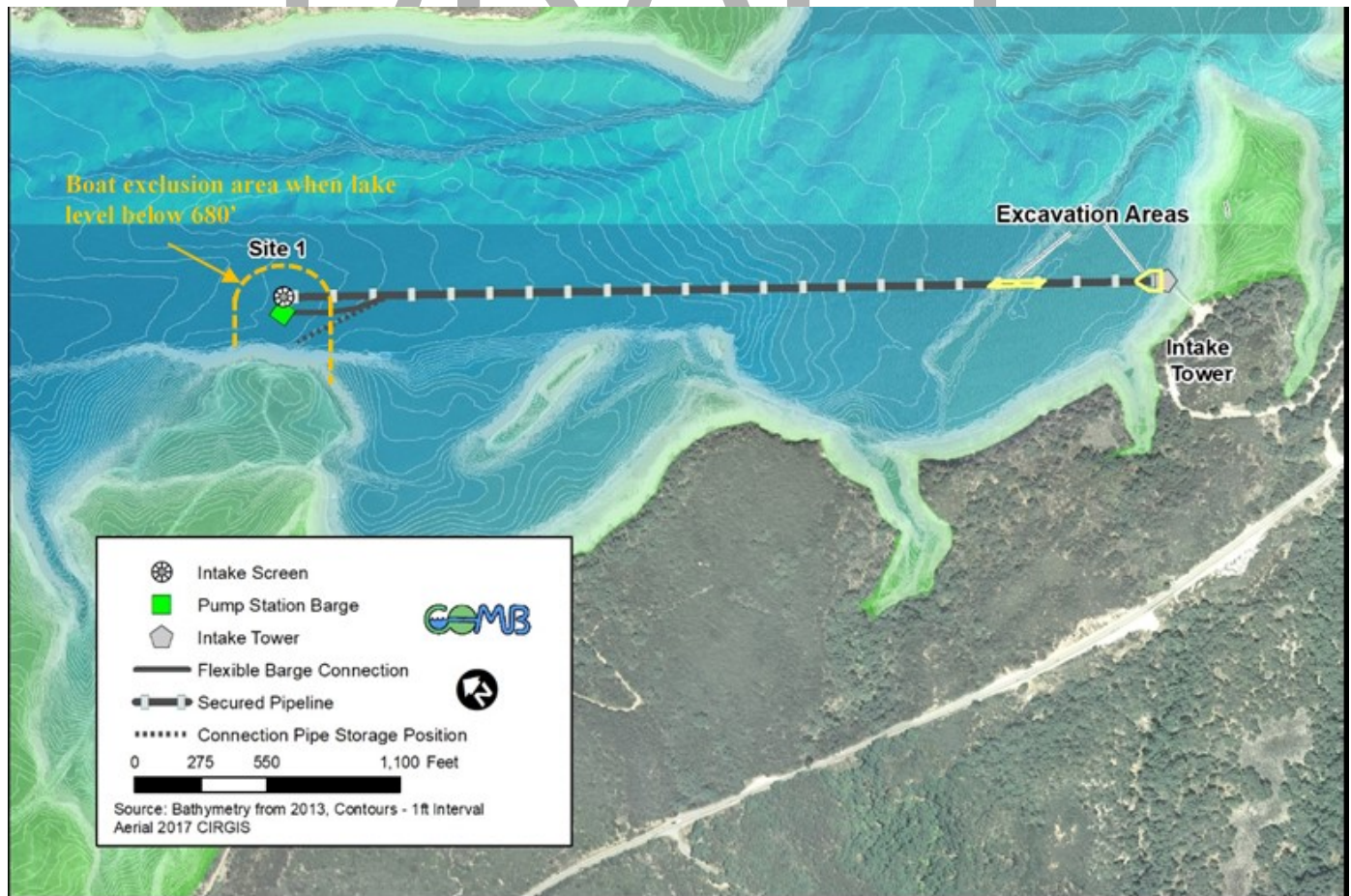


Figure 1. Secured Pipeline Plan and Profile

CONSTRUCTION CONTRACTOR BID SOLICITATION

Formal bid solicitation for the construction portion of the Project was posted at a public bid room and on the COMB website on Thursday, April 7, 2022, with a mandatory pre-bid conference site visit occurring on Tuesday, April 19, 2022. Three (3) contractors attended the pre-bid site visit, including Schock Contracting, Toro Enterprises, and Cushman Contracting Corporation (CCC).

One bid was received by the published deadline, with the sealed bid publicly opened on Thursday, May 5, 2022, at 2:01 pm at the COMB Headquarters office. The bid evaluation was performed by Makai, with Cushman Contracting Corporation being responsive and responsible, and with a not-to-exceed bid proposal of \$4,158,035. CCC has been determined to have the requisite equipment, personnel and technical expertise to successfully complete the construction of this Project.

COMB staff recommends that the Board authorize the COMB General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3 of COMB's JPA, to issue a Notice of Award to CCC, execute a contract with CCC in an amount not-to-exceed \$4,158,035, and issue a Notice to Proceed per the contract documents for construction of the Project.

CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONTRACT

A Request for Proposal (RFP) for construction management support services was issued on Thursday, April 14, 2022, with proposals due on Thursday, May 5, 2022, at 4:00 pm. Two (2) proposals were received and evaluated on each firm's ability to meet all aggregate project requirements based on responsiveness of the proposal, specialized experience and technical competence, cost of services estimate, and proposed technical approach. The most suitable proposal was submitted by Flowers & Associates, Inc. (Flowers) in the amount of \$130,330.

COMB staff recommends that the Board authorize the General Manager, contingent upon ratification of the Project by the COMB Member Agencies pursuant to Section 1.3 of COMB's JPA, to issue a Notice of Award to Flowers, execute a Professional Services Agreement (PSA) with Flowers in the amount of \$130,330, and issue a Notice to Proceed per the contract documents for construction management services on the Project.

ENGINEERING DESIGN SERVICES DURING CONSTRUCTION CONTRACT

Makai completed the final designs for the Project. COMB staff subsequently issued the bid documents for construction of the Project with construction planned as early as September 2022. In support of these plans, and as the design engineer, Makai submitted a proposal to provide design support services during the construction phase of the Project (controlled submergence). Makai will review key submittals (plans and materials) from the contractor, provide input on requests for information, perform technical analysis (if needed), and will provide two (2) engineers to be on site during construction of the Project who are experienced in the installation of the secured pipeline and intake assembly. Makai's role will be technical and in an observational capacity for installation support services during the course of the Project.

Staff is recommending that the Board authorize the General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3 of COMB's JPA, to execute a PSA with Makai in an amount not to exceed \$90,000, and issue a Notice to Proceed per the contract documents for engineering services during construction of the Project. The sole-source, non-competitive bid (NCB) justification is attached to this memorandum.

FISCAL IMPACTS:

The Project's budget for fiscal year 2022-2023 is \$4,400,000. This budget amount includes \$4,158,035 for construction costs, \$130,330 for management support services, and \$90,000 for engineering during construction contract costs during the course of the Project.

ENVIRONMENTAL COMPLIANCE:

All permits will be acquired prior to construction commencement on the Project. Reclamation also prepared a Categorical Exclusion Checklist (CEC) for the Project, as required by the National Environmental Policy Act (NEPA) in November 2021. Similarly, COMB filed a Notice of Exemption (NOE) under the California Environmental Quality Act (CEQA) with the Santa Barbara County Clerk of the Board of Supervisors on December 3, 2021.

LIST OF EXHIBITS:

1. Non-Competitive Bid Justification

RESOLUTION NO. 751

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD
APPROVING THE LAKE CACHUMA EMERGENCY PUMPING FACILITY
SECURED PIPELINE PROJECT, AUTHORIZING A CAPITAL EXPENDITURE IN
EXCESS OF ONE MILLION DOLLARS FOR THE PROJECT AS PROVIDED
HEREIN, SELECTING A CONTRACTOR, CONSTRUCTION MANAGEMENT
SUPPORT SERVICES CONSULTANT, AND ENGINEERING DURING
CONSTRUCTION SERVICES; APPROVING CONTRACT AGREEMENTS FOR THE
PROJECT AND AUTHORIZING RELATED ACTIONS THERETO**

RECITALS

WHEREAS, the Cachuma Operation & Maintenance Board (COMB) is a joint powers authority and public entity, organized and existing in the County of Santa Barbara in accordance with Government Code Section 6500 *et seq.*, and operating pursuant to the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation And Maintenance Board, dated May 23, 1996 (“Amended and Restated Agreement”), as amended by an Amendment to the Amended and Restated Agreement made effective September 16, 2003; and as amended by the Second Amendment to the 1996 Amended and Restated Agreement made effective November 20, 2018 (collectively the Joint Powers Agreement or JPA); and

WHEREAS, the Member Agencies of COMB are the Goleta Water District, the City of Santa Barbara, the Montecito Water District, and the Carpinteria Valley Water District; and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation (Reclamation); and

WHEREAS, on July 8, 2021, California Governor Newsom proclaimed a state of emergency for Santa Barbara County due to drought conditions and directed state agencies to take further actions to bolster drought resilience and prepare for potential impacts to communities, businesses and ecosystems; and

WHEREAS, as of May 2022, the National Integrated Drought Information System, a division of the National Oceanic and Atmospheric Administration (NOAA), is publicly advising, among other things, that 100% of Santa Barbara County remains affected by severe drought and that the period January to March 2022 was the third driest such period during the past 128 years; and

WHEREAS, as of May 2022, Lake Cachuma is below 45% storage capacity and is expected to lose the ability to gravity-feed into the lower gates of the intake tower, should the current dry conditions and severe drought persist; and

WHEREAS, in early 2019, through a competitive Request for Proposal (RFP) process, COMB engaged Makai Ocean Engineers, Inc. (Makai) to complete a feasibility study for the Lake Cachuma Emergency Pumping Facility Secured Pipeline Project (“Project”), and after approval

from the COMB Governing Board, further engaged Makai to complete designs, specifications and bid solicitation documents for the Project; and

WHEREAS, the Project was recommended as a Phase 2 Management Action in the comprehensive 2020 Lake Cachuma Water Quality and Sediment Management Study prepared by COMB consultant Woodard and Curran, wherein the Project was referred to as the "North Portal Intake Tower Gate 5 Extension"; and

WHEREAS, the Project involves only the installation of a bottom-mounted (secured) pipeline connected to the existing intake tower at Lake Cachuma and extending 3,600 feet to the west, allowing access to deeper and colder lake water. The secured pipeline will consist of new 36" HDPE pipe anchored to the bottom of Lake Cachuma with approximately 160 precast concrete collars. The lake-end of the pipeline will include a screened gravity intake system that would allow the continued use of the lowest gate on the intake tower (Gate 5), which will allow continued gravity water flow to the Tecolote Tunnel and into the South Coast Conduit (SCC); and

WHEREAS, should the current severe drought conditions continue into the winter of 2022-2023, only then will COMB staff decide whether to request that the COMB Board consider the approval of the temporary installation and operation of the related Emergency Pumping Facility (EPF floating barge or pump station), possibly in the Spring/Summer 2023. The secured pipeline has a flexible connection that could be attached to the EPF floating barge at the Site 1 location, 3,600 feet from the intake tower, if and when it is necessary in the future; and

WHEREAS, in the history of Lake Cachuma, an emergency pumping facility has been installed on three (3) separate occasions: in 1957, 1990 and 2014-2017; and

WHEREAS, the objectives of the Project are to (1) reduce the elevation triggers for installing the temporary EPF floating pump station; (2) eliminate the need to install and remove temporary anchor piles and floating pipeline; (3) eliminate the need to store any pipeline near the shore of the lake; (4) reduce the costs for any subsequent use of the EPF floating barge; and (5) reduce the period between initial EPF floating barge deployment and operation from over one (1) year to 120 days; and

WHEREAS, to the extent the temporary EPF pumping barge is needed in the future, the COMB Board will be specifically asked to approve that particular component under a separate and distinct Board governing resolution that will designate and comply with the requirements outlined in the environmental documents. More specifically, in the event the temporary EPF floating barge is needed and approved by the COMB Board in the future, its installation and use will be expressly prohibited from diverting (1) unallocated Cachuma Project water, (2) water credited to Water Right 89-18 Above Narrows and Below Narrows accounts,¹ (3) Minimum Pool (12,000-acre feet), and (4) any water needed to meet federal Endangered Species Act (ESA) requirements and Water Right 2019-0148 requirements; and

¹ If necessary and when essential for COMB to move any Board approved EPF floating barge from the Site 1 location to a Site 2 location (previously used in 2016), COMB will operate the EPF floating barge with the intent to maintain the Lake elevation at 656 feet or higher prior to the start of the downstream release for the Below Narrows Account, provided that (1) the Below Narrows Account has water credits and (2) the sum of the Above Narrows Account and the Below Narrows Account exceeds 8,000 acre-feet prior to such a release.

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WHEREAS, it is necessary for COMB to undertake this emergency action to maintain the service of an existing water entry gate (Gate 5), and related actions thereto, thereby ensuring the continuing gravity conveyance and supply of Lake Cachuma Project water, State Project and supplemental purchased water through the intake tower to the Tecolote Tunnel/SCC and then to COMB's South Coast Member Agencies for distribution to their customers and residents; and

WHEREAS, the Governing Board desires to approve the Project and associated expenditures; and

WHEREAS, formal bid solicitation for the construction portion of the Project was posted at a public bid room and on the COMB website on Thursday, April 7, 2022, with a mandatory pre-bid conference site visit occurring on Tuesday, April 19, 2022. Three (3) contractors attended the pre-bid site visit, including Schock Contracting, Toro Enterprises, and Cushman Contracting Corporation (CCC); and

WHEREAS, one bid was received by the published deadline, with the sealed bid publicly opened on Thursday, May 5, 2022, at 2:01 pm at the COMB Headquarters office. The bid evaluation was performed by Makai, with CCC being responsive and responsible, and with a not-to-exceed bid proposal of \$4,158,035.00. CCC has been determined to have the requisite equipment, personnel and technical expertise to successfully complete the construction of this Project; and

WHEREAS, COMB staff recommends that the Governing Board authorize the COMB General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3(h) *et seq.* of COMB's JPA, to issue a Notice of Award to CCC, execute a contract with CCC in an amount not-to-exceed \$4,158,035.00, and issue a Notice to Proceed per the contract documents for construction of the Project (Construction Contract Agreement); and

WHEREAS, in consideration of "time is of the essence" resulting from the current global supply chain issues and petroleum products cost volatility, COMB staff recommends the Governing Board authorize the General Manager to issue a Notice of Intent to Award to CCC (limited to \$25,000 for preparation of long lead item submittals), in the interim period prior to ratification by COMB's Member Agencies, to ameliorate any potential delays in ordering materials and services critical to the Project (Limited Preliminary Work); and

WHEREAS, an RFP for construction management support services was issued on Thursday, April 14, 2022, with proposals due on Thursday, May 5, 2022, at 4:00 pm. Two (2) proposals were received and evaluated on each firm's ability to meet all aggregate Project requirements based on responsiveness of the proposal, specialized experience and technical competence, cost of services estimate, and proposed technical approach. The most suitable proposal was submitted by Flowers & Associates, Inc. (Flowers) in the amount of \$130,330.00; and

WHEREAS, COMB staff recommends that the Governing Board authorize the General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3(h) *et seq.* of COMB's JPA, to issue a Notice of Award to Flowers, execute a Professional Services Agreement (PSA) with Flowers in the amount of \$130,330.00, and issue a Notice to Proceed per the PSA documents for construction management services on the Project (PSA for Management Services); and

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WHEREAS, Makai has completed the final designs for the Project. COMB staff subsequently issued the bid documents for construction of the Project with construction planned as early as September 2022. In support of these plans, and as the design engineer, Makai submitted a proposal to provide design support services during the construction phase of the Project (controlled submergence). Makai will review key submittals (plans and materials) from the contractor, provide input on requests for information, perform technical analysis (if needed), and will provide two (2) engineers to be on site during construction of the Project who are experienced in the installation of the secured pipeline and intake assembly. Makai's role will be technical and in an observational capacity for installation support services during the course of the Project; and

WHEREAS, COMB staff recommends that the Governing Board authorize the General Manager, contingent upon ratification of the Project by COMB's Member Agencies pursuant to Section 1.3(h) *et seq.* of COMB's JPA, to issue a Notice of Award to Makai in the amount of \$90,000.00, execute a contract agreement with Makai for the engineering support services during construction of the Project, and to approve such an agreement between COMB and Makai (Engineering Support During Construction Contract Agreement); and

WHEREAS, the estimated cost of the Project is in excess of One Million Dollars (\$1,000,000.00) and, pursuant to Section 1.3(h) *et seq.* of COMB's JPA, the Governing Board desires to contingently authorize such expenditure and acknowledges that authorization of the subject expenditure for the Project requires both unanimous consent by the Governing Board, as well as ratification by each and all of COMB's Member Agencies; and

WHEREAS, the Governing Board, pursuant to a competitive, publicly solicited bid process desires to select a contractor for the Project, and to approve the Construction Contract Agreement between COMB and CCC; and

WHEREAS, the Governing Board, pursuant to a competitive, publicly solicited RFP process desires to select a construction management support services consultant for the Project, and to approve the PSA for Management Services between COMB and Flowers; and

WHEREAS, the Governing Board, pursuant to COMB's procurement policy regarding sole-source contracts, desires to continue the engagement of Makai for the Engineering Support During Construction Contract Agreement for the Project, and to approve such agreement between COMB and Makai; and

WHEREAS, in 2019, Reclamation announced the selection of COMB to receive federal grant funding for the Project through their WaterSMART Drought Resiliency Grant funding program; and

WHEREAS, in March 2022, the California Department of Water Resources (DWR) announced the selection of COMB to receive State grant funding for the Project from the Urban and Multibenefit Drought Relief Grant Program; and

WHEREAS, COMB is the responsible agency for purposes of environmental review of the Project under the California Environmental Quality Act (CEQA), pursuant to Public Resources Code § 21000 *et seq.*, and the State "Guidelines for Implementation of the California Environmental Quality Act"; and

WHEREAS, on December 3, 2022, in compliance with CEQA, COMB filed with the Santa Barbara County Clerk a Notice of CEQA Exemption (NOE) for the Project. The NOE identified the applicable exemptions as: (1) CEQA Guidelines Exemption section 15301 *et seq.*, relating to a categorical exemption for existing facilities in order to allow the continued operational delivery of reservoir water to the inlet tower; and (2) CEQA Guidelines Exemption section 15269 *et seq.*, relating to actions necessary to prevent or mitigate an emergency. During the 35-day notice period, no comments to the NOEs were received by COMB; and

WHEREAS, in December 2021, Reclamation issued a Categorical Exclusion Checklist (CEC) for the Project pursuant to the requirements in 40 CFR 1501.4 of the National Environmental Policy Act (NEPA) procedures; and

WHEREAS, all environmental permits will be obtained prior to construction of the Project; and

WHEREAS, based on the foregoing, COMB proposes to construct the Project in response to the current severe drought conditions.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF COMB AS FOLLOWS:

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.
2. The Governing Board approves the Project and a capital expenditure of funds for the Lake Cachuma Emergency Pumping Facility Secured Pipeline Project in excess of One Million Dollars (\$1,000,000.00), with such approval contingent upon ratification of such expenditure by each and all of COMB's Member Agencies in accordance with Section 1.3(h) *et seq.* of the JPA, receipt of all applicable permits, and available funding.
3. The Governing Board selects Cushman Contracting Corporation (CCC) as the construction contractor for the Project, and upon ratification of the Project by the Member Agencies, authorizes the General Manager to issue a Notice-of-Award, execute the Construction Contract Agreement, and issue a Notice-to-Proceed for the Project in accordance with the terms and conditions of the Construction Contract Agreement, in an amount not-to-exceed \$4,158,035.00.
4. The Governing Board selects Flowers & Associates, Inc. as the construction management support services consultant for the Project and, upon ratification of the Project by the Member Agencies, authorizes the General Manager to issue a Notice-of-Award, execute the PSA for Management Services for the Project, and issue a Notice-to-Proceed in accordance with the terms and conditions of the PSA for Management Services, in an amount not-to-exceed \$130,330.00.
5. The Governing Board approves the continued engagement with Makai Ocean Engineering, Inc. as the engineering during construction support services consultant for the Project and, upon ratification of the Project by the Member Agencies, authorizes the General Manager to execute the Engineering Support

DRAFT

During Construction Contract Agreement for the Project in accordance with the terms and conditions of the Engineering Support During Construction Contract Agreement, in an amount not-to-exceed \$90,000.00.

6. COMB's officers and staff, including the General Manager, are hereby authorized and directed, pursuant to this contingent approval, to do all things necessary and appropriate (including, but not limited to, the preparation and review of documents, the application for and processing of necessary permits and filing of environmental documents and any other actions) in order to advance the processing and final execution of the Construction Contract Agreement, PSA for Management Services and the Engineering Support During Construction Contract Agreement, as well as the implementation of the Project, including the Limited Preliminary Work.
7. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 23rd day of May 2022, by the following roll call vote:

Ayes:

Nayes:

Absent/Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board



PUBLIC WORKS DEPARTMENT
WATER RESOURCES DIVISION

LAKE CACHUMA SECURED PIPELINE PROJECT EXPENDITURE RATIFICATION

June 9, 2022

Overview:


- Cachuma Operations Maintenance Board (COMB)
- Joint Powers Agreement (JPA)
- Project Expenditures Ratification
- Secured Pipeline Project Description and Timeline
- Recommendation

COMB

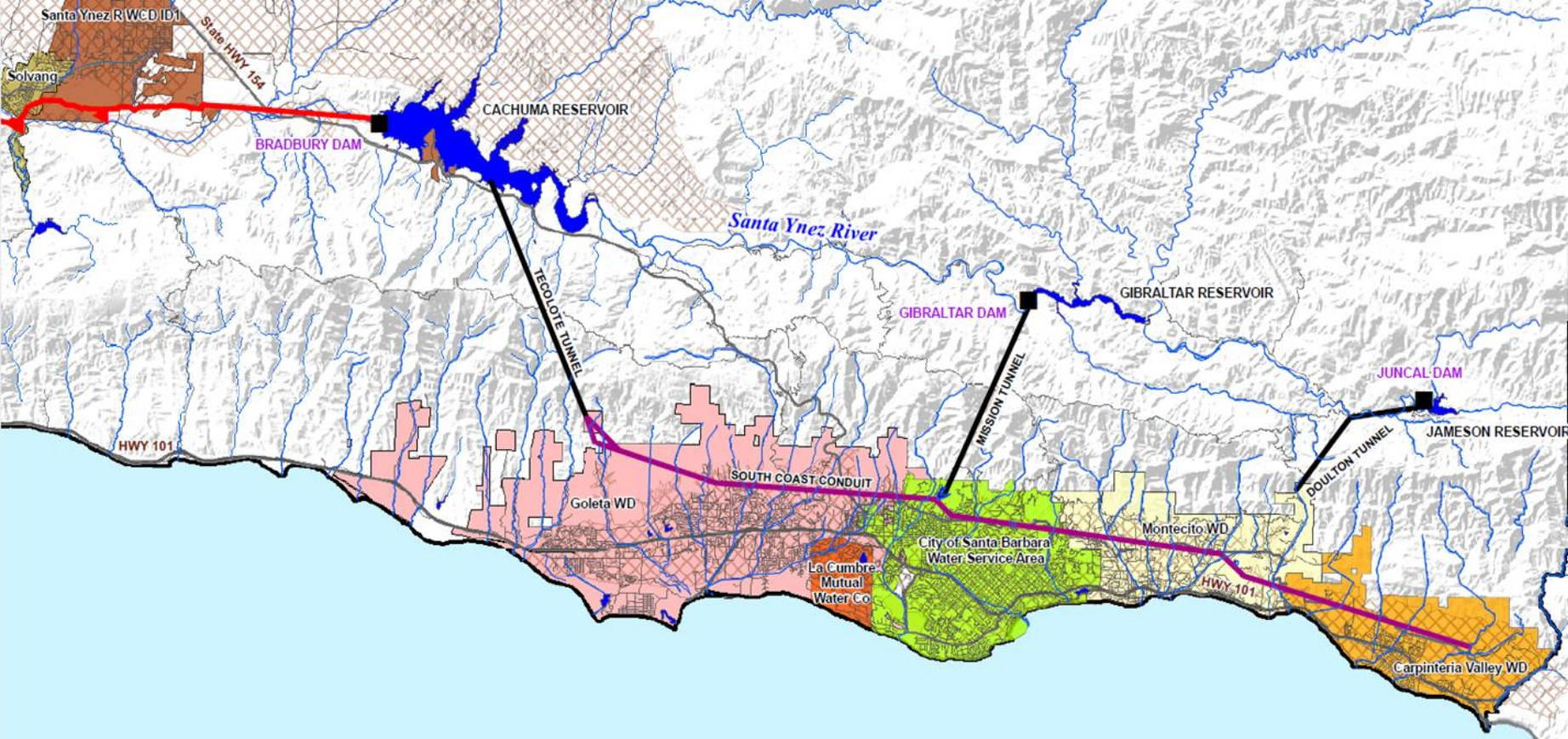
- Joint Powers Agency formed in 1956 pursuant to an agreement with the USBR
- Responsible for operating and maintaining all Cachuma Project facilities, minus Bradbury Dam
- Member Agencies:
 - Goleta Water District
 - City of Santa Barbara
 - Montecito Water District
 - Carpinteria Valley Water District

COMB JPA Agreement

- Member agencies must ratify a capital expenditure in excess of \$1 Million
- City's responsibility: 35.89% of expenditures
- Secured Pipeline Project
 - Estimated Project Costs: \$4,378,365
 - Grant funding: \$3,000,000
 - City's responsibility: \$ 494,695



COMBACHUMA PROJECT OVERVIEW & EPF SECURED PIPELINE PROJECT



Lake Cachuma and the South Coast Conduit

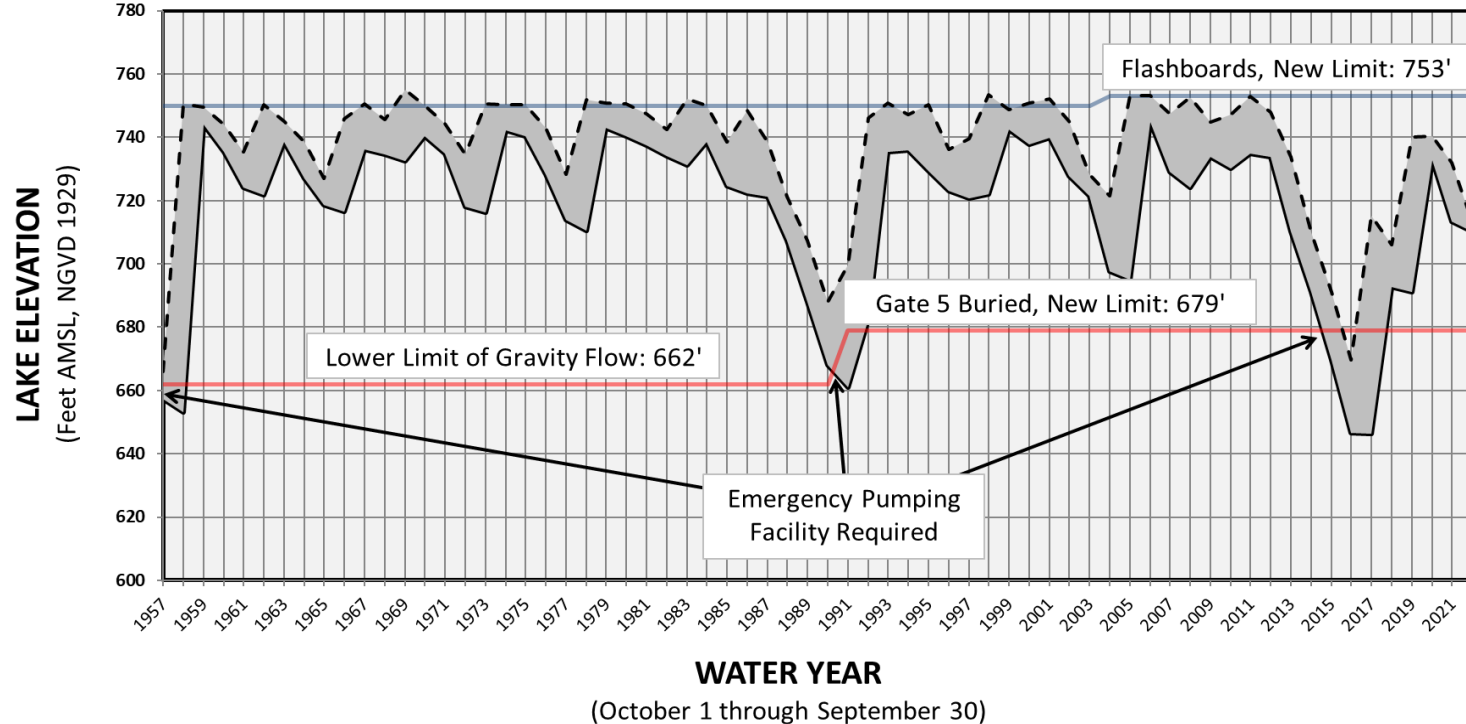
- Five drafting gates on Pentagonal Intake Tower at 18 feet apart
- Gravity flow lost when Lake Cachuma drops below ~679 feet
- EPF installation required three times in the past: 1957, 1990, 2014



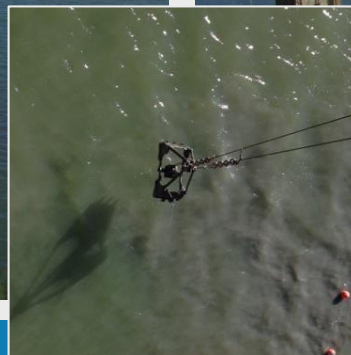
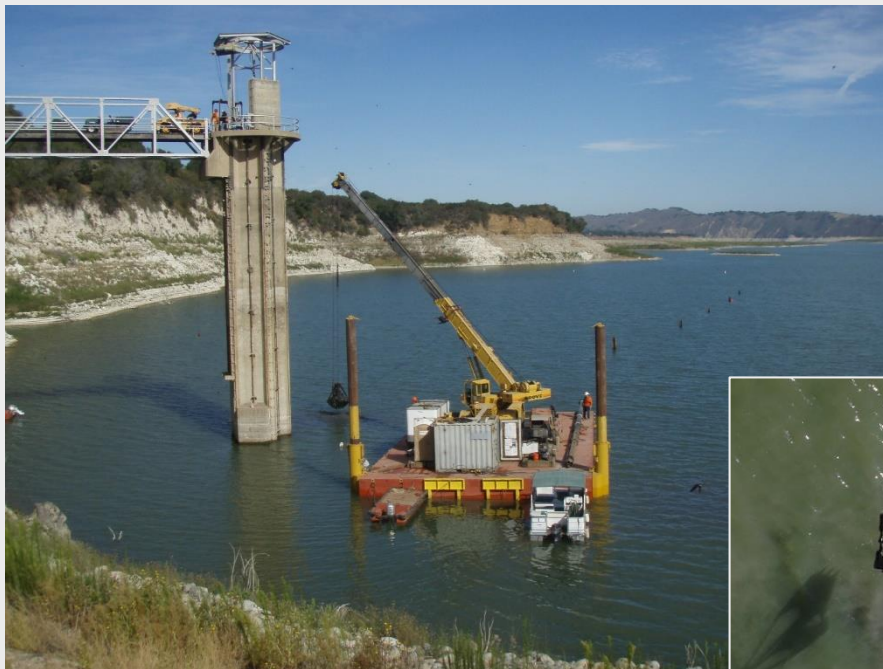


Historical Lake Elevation

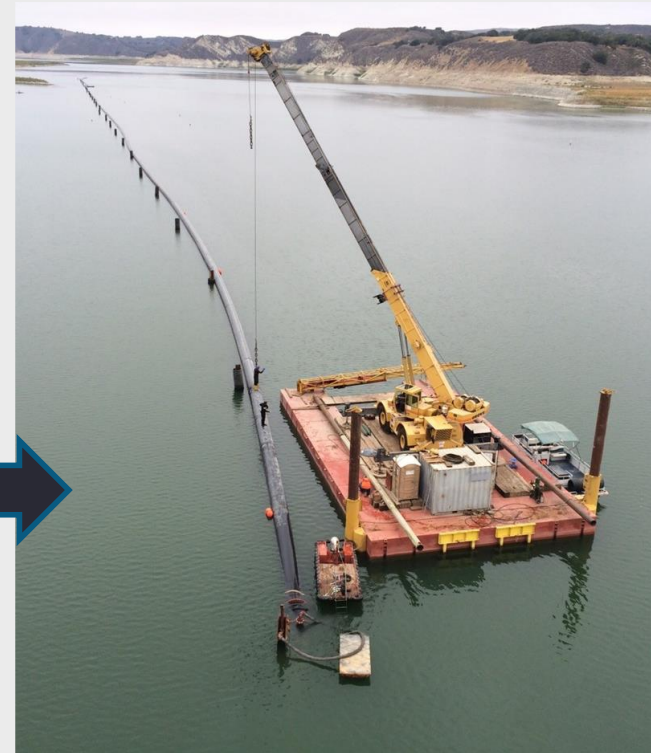
Lake Cachuma



Sidecasting Sediment using Clamshell Bucket for Intake Tower Connection

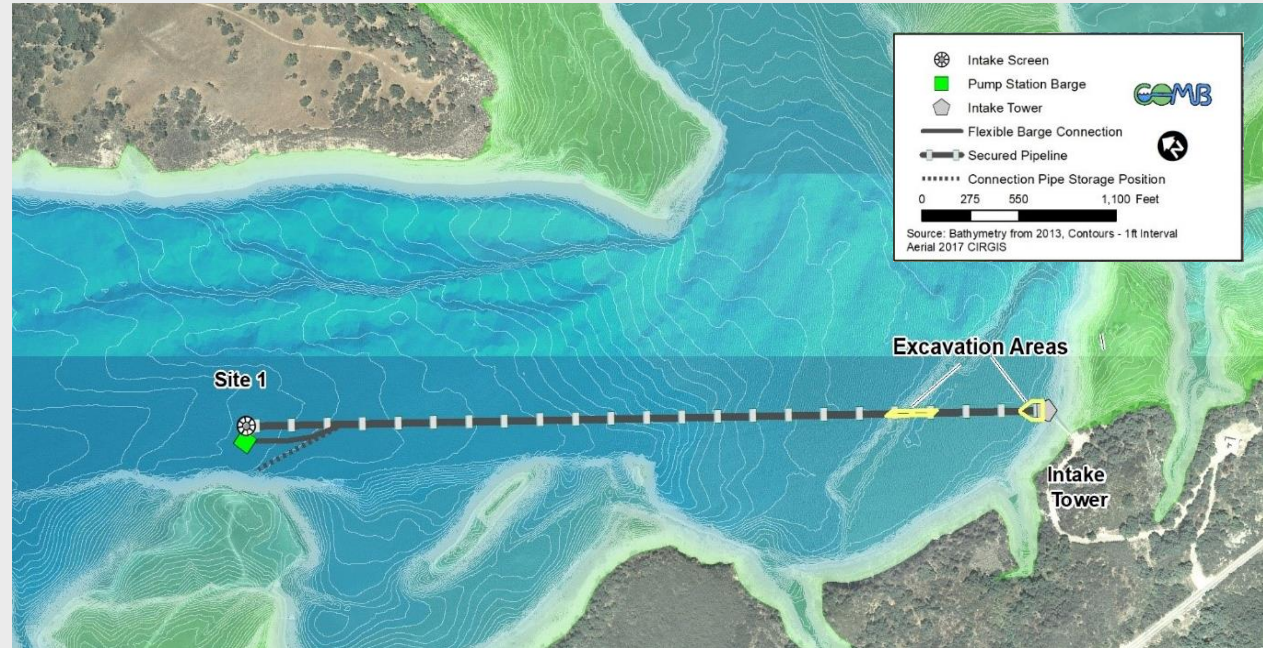


Fusing HDPE Floating Pipeline Segments and Tow into Lake

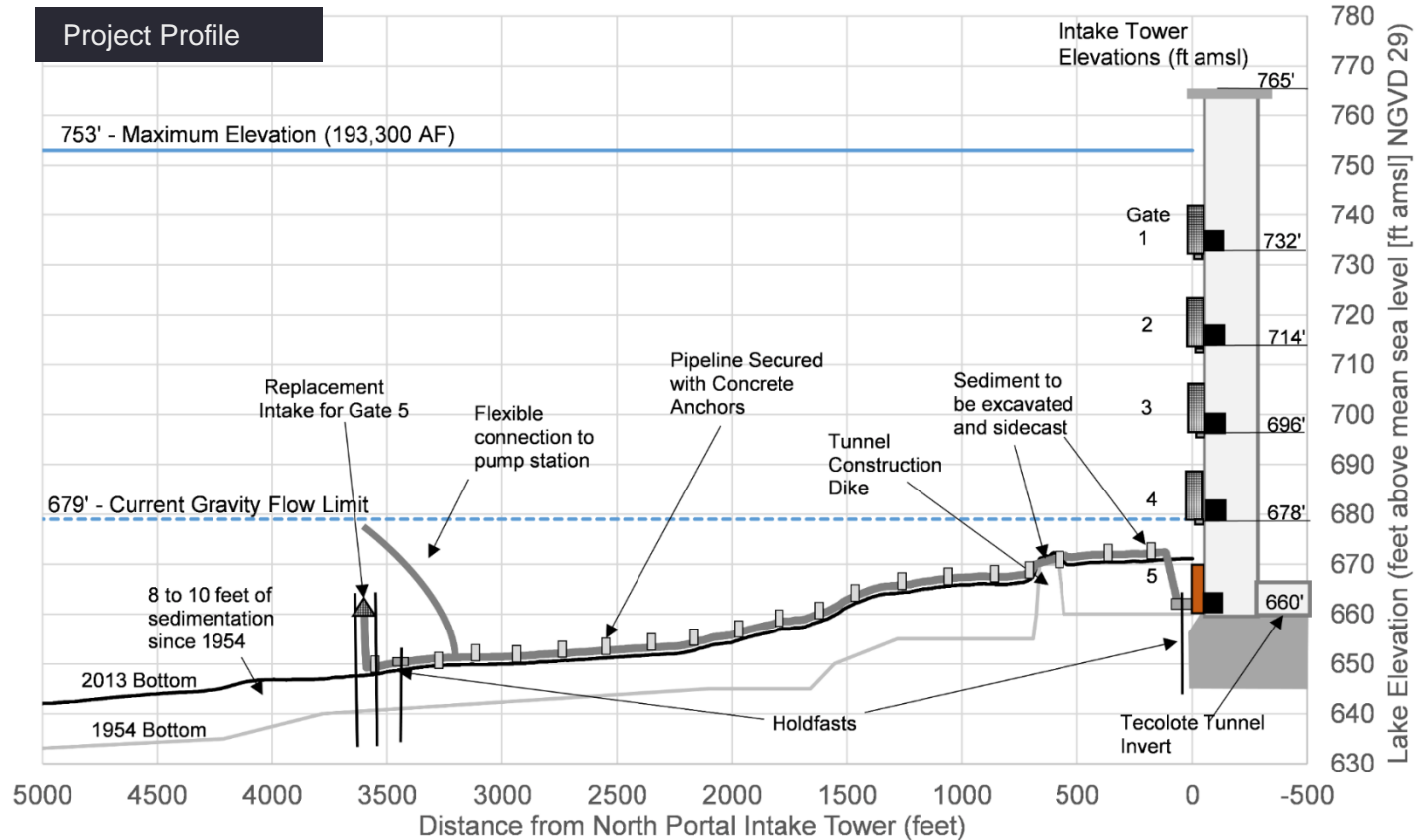


Pumping Barge able to connect to new Secured Pipeline via Flexible Connection

- 3,600 feet of HDPE from Intake to “Site 1”
- Secured with ~160 Precast Concrete Anchors
- Also includes Gravity Intake for improved water quality during normal operations



Project Profile



PROJECT BENEFITS

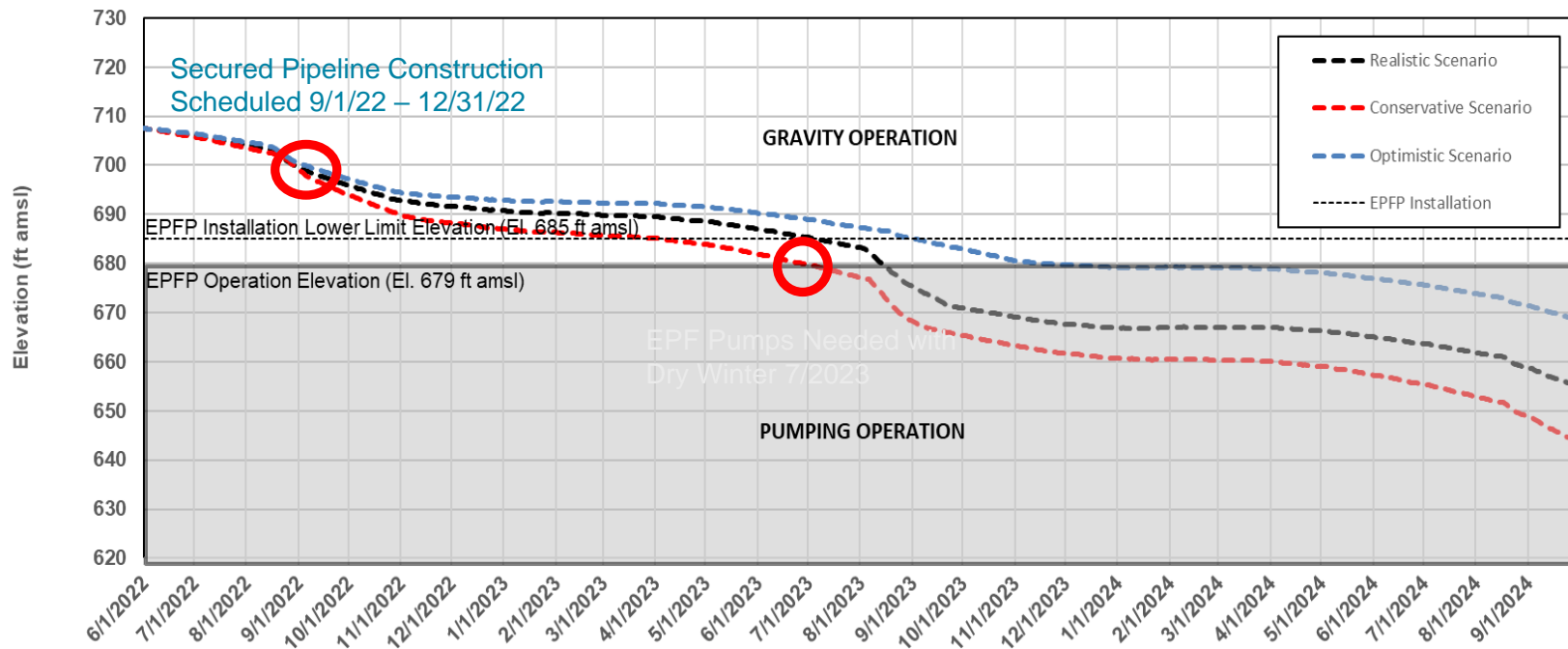
- Continued Access To Allocated Supplies During Drought
- Water Quality
 - Alternate drafting location (during HABs, etc.)
 - Lower temps = lower disinfection byproducts
- Decision-Making and Cost Savings
 - Eliminates need to install/remove/store temporary pipeline and piles
 - Reduces EPF deployment period from 1 year to 4 months
 - Reduces EPF elevation triggers at 695' (pile driving) and “false starts”



Need for the Project

Lake Cachuma currently ~43%

Lake Cachuma Elevation (ft)

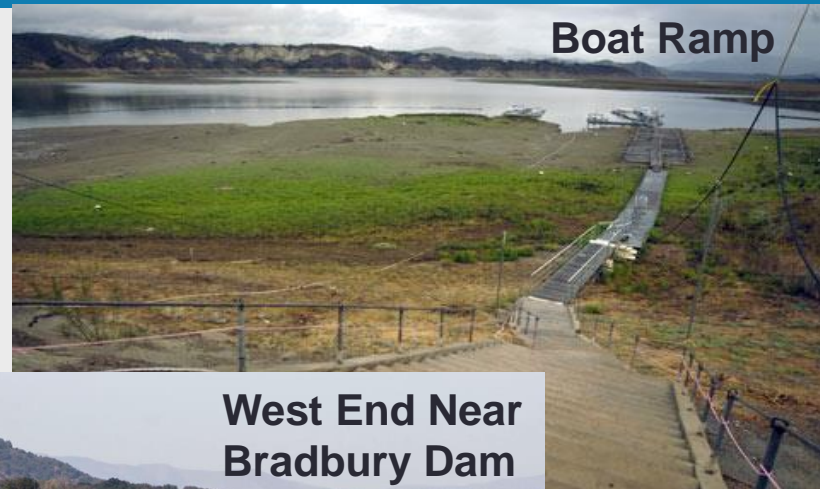


June 2022 – December 2024

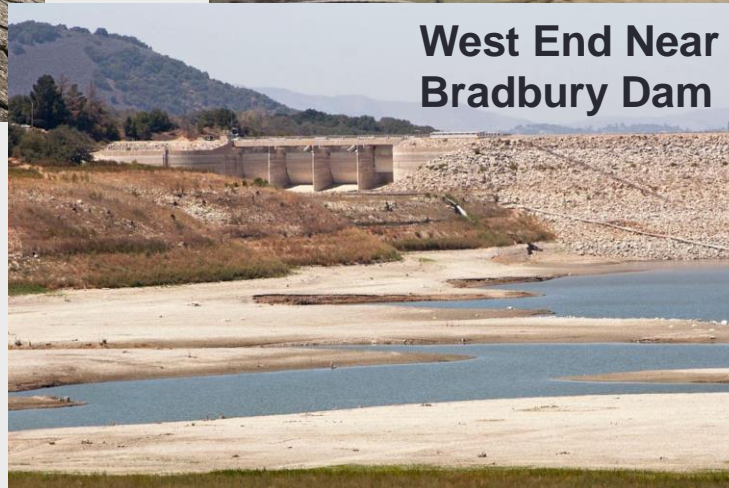
East End



Boat Ramp



**West End Near
Bradbury Dam**



January 2017

Recommendation

- That the Water Commission support Council ratifying expenditures for the Cachuma Operation and Maintenance Board's Lake Cachuma Secured Pipeline Project

Questions?



Other Project Information

- Total Estimated Cost: \$4,704,000
- Grant Funding Obtained: \$3M (\$750K from USBR, \$2.25M from DWR)
- NEPA/CEQA Complete
- USACE 404 Obtained, RWQCB401 + CDFW1600 Expected Soon
- Construction Approved by COMB Board, Ratification by Member Agencies in Progress
- Construction Manager and Design Oversight Work Approved