



BOARD OF DIRECTORS
EAST BAY MUNICIPAL UTILITY DISTRICT

375 - 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

Notice of Time Change

**PLANNING COMMITTEE
MEETING**

9:30 a.m.

Tuesday, December 9, 2014

Notice is hereby given that on Tuesday, December 9, 2014 the Planning Committee Meeting of the Board of Directors has been rescheduled from 9:15 a.m. to 9:30 a.m. The meeting will be held in the Training Resource Center of the Administration Building, 375 - 11th Street, Oakland, California.

Dated: December 4, 2014

A handwritten signature in cursive script, reading 'Rischa Cole', is written over a horizontal line.

Rischa S. Cole

Acting Secretary of the District



**BOARD OF DIRECTORS
EAST BAY MUNICIPAL UTILITY DISTRICT**

375 – 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

AGENDA

**Planning Committee
Tuesday, December 9, 2014
9:30 a.m.
Training Resource Center**

(Committee Members: Directors Foulkes {Chair}, Linney and McIntosh)

ROLL CALL:

PUBLIC COMMENT: The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

DETERMINATION AND DISCUSSION:

1. Mokelumne Watershed Interregional Sustainability Evaluation
(MokeWISE) Program (Sykes)
2. Eden Reservoir Replacement and Round Hill Reservoir Rehabilitation (X. Irias)
3. San Pablo Clearwell Replacement and San Pablo Water Treatment
Plant Upgrade Projects Update (X. Irias)
4. Happy Valley, Sunnyside and Donald Pumping Plants and
Ardith Reservoir Project Update (X. Irias)

ADJOURNMENT:

Disability Notice

If you require a disability-related modification or accommodation to participate in an EBMUD public meeting please call the Office of the Secretary (510) 287-0404. We will make reasonable arrangements to ensure accessibility. Some special equipment arrangements may require 48 hours advance notice.

Document Availability

Materials related to an item on this Agenda that have been submitted to the EBMUD Board of Directors within 72 hours prior to this meeting are available for public inspection in EBMUD's Office of the Secretary at 375 11th Street, Oakland, California, during normal business hours.

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: December 4, 2014

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *MAC*

FROM: Richard G. Sykes, Director of Natural and Water Resources *Richard G. Sykes*

SUBJECT: Mokelumne Watershed Interregional Sustainability Evaluation (MokeWISE) Program

SUMMARY

The following memorandum provides an update on the Mokelumne Watershed Interregional Sustainability Evaluation (MokeWISE) program. MokeWISE was initiated in the fall of 2013 by the Mokelumne-Amador-Calaveras (MAC) and Eastern San Joaquin (ESJ) Integrated Regional Water Management (IRWM) Regions with \$868,605 in funding provided by the California Department of Water Resources (DWR). MokeWISE emerged after years of dialogue between Upper and Lower Mokelumne River watershed stakeholders participating in what was then the Mokelumne Forum process. The MokeWISE effort, when concluded in June of 2015, is expected to yield a broadly supported water resources program that includes a comprehensive suite of projects and policies aimed at sustainable water resources management in the Mokelumne River watershed. EBMUD is an active member of MokeWISE's Mokelumne Collaborative Group (MCG), the stakeholder body established to guide development of the MokeWISE Program. A presentation on this topic will be provided to the Planning Committee on December 9, 2014.

DISCUSSION

The purpose of the MokeWISE program is to generate a portfolio of water resources projects in the Mokelumne watershed supported by the MCG that could then be pursued with grant applications. The MokeWISE collaboration can leverage funding from different sources, while broadening and strengthening a stakeholder coalition that could advance multiple and integrative goals in the region.

Projects Under Consideration

A wide array of project concepts were forwarded for review and consideration in early 2014. Project concepts were qualitatively assessed based on the following four screening criteria:

- Feasible: Screened for fatal flaws;
- Beneficial: Achieve at least one of the desired program outcomes;
- Attainable: Illustrate that they could achieve the proposed benefit(s); and
- Compatible: Compatible with the desired outcomes and minimize unintended consequences.

Each concept that passed all four screening criteria has been carried forward for potential incorporation in a portfolio or program. Portfolio development and assessment will begin in early 2015.

Attachment A to this document lists the projects and programs that met the criteria. Some of the following projects would benefit EBMUD:

- Project # 1d – Fish Screens for Riparian Diversions in the Lower Mokelumne: Working with willing landowners, the program would acquire and install fish screens on riparian diversions to reduce entrainment of fish, currently estimated at 60.
- Project # 4c – San Joaquin County Groundwater Banking and Exchange: One or more partner agencies would divert surface water from the Mokelumne River in wet years and bank it in the Eastern San Joaquin Groundwater Basin. This project would build upon the results of a groundwater banking demonstration project currently spearheaded by San Joaquin County in partnership with EBMUD.
- Project # 5b - Amador Canal Conversion to Pipeline: The project would replace the Amador Canal with an 18-mile pipeline to conserve an estimated 1,500 AF of water annually. (This project has recently secured funding through DWR's Proposition 84 program and will no longer be part of a proposed MokeWISE portfolio.)
- Project # 7d – Reoperation of Existing Storage: This feasibility study would assess the capability to re-operate existing reservoirs owned by PG&E and EBMUD to store additional water for consumptive use and to increase hydropower generation.

The MCG also agreed to work together on the following topics:

- Land Use Coordination: Improve coordination between water agencies and county planning divisions/departments;
- Sustainable Forestry Practices: Support sustainable forestry within the upper watershed;
- Lower Watershed Coordination: Support the San Joaquin County's Resource Conservation District's work in this area; and
- Groundwater Management: Promote the sustainable management of groundwater resources within Eastern San Joaquin County (ESJ).

MCG Meetings and Public Outreach

Stakeholder participation and public outreach are key components of the MokeWISE effort. The MCG consists of 26 organizations representing water agencies, county governments, and interest groups including the San Joaquin Farm Bureau, recreation, and local and regional environmental interests as well as EBMUD.

A total of fifteen monthly meetings have been held with the MCG since September 2013. Two public workshops have also occurred. Additional public forum meetings are scheduled to inform the community of collaborative efforts. MokeWISE information is available on the website <http://www.mokewise.org>.

NEXT STEPS

In early 2015, the MCG will begin developing the potential projects based on assessment of various technical analysis of water available from the Mokelumne River and other potential sources.

The MCG has identified the following timeline for next year:

Dec. 2014 – Mar. 2015: Develop and review MokeWISE policy statements and program alternatives

Mar. 2015 – Apr. 2015: Select preferred alternative

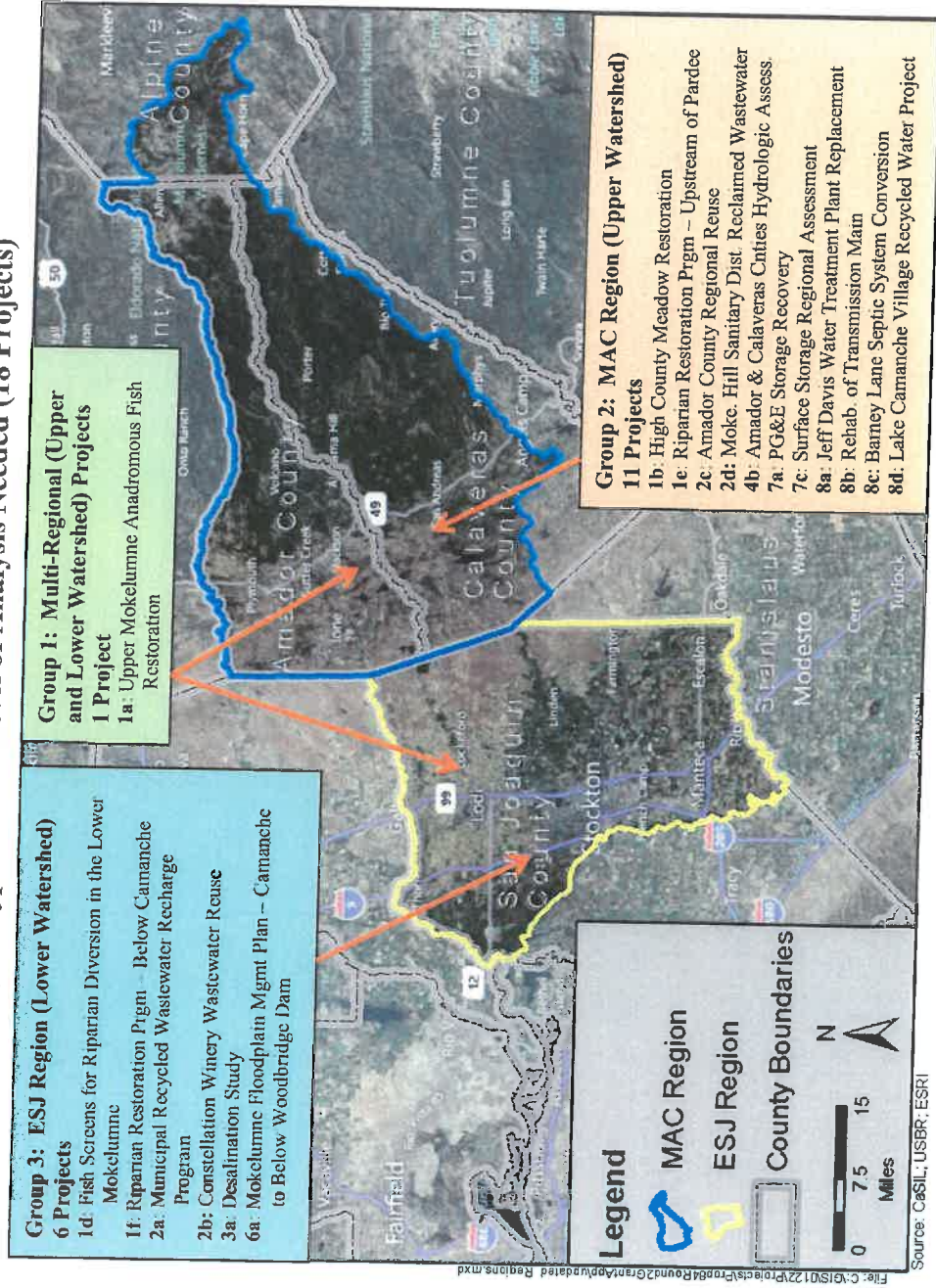
Apr. 2015 – Jun. 2015: Develop implementation plan and integrate into MAC and ESJ IRWMs

Prior to the completion of the work effort in June 2015, staff will provide additional updates to the Board.

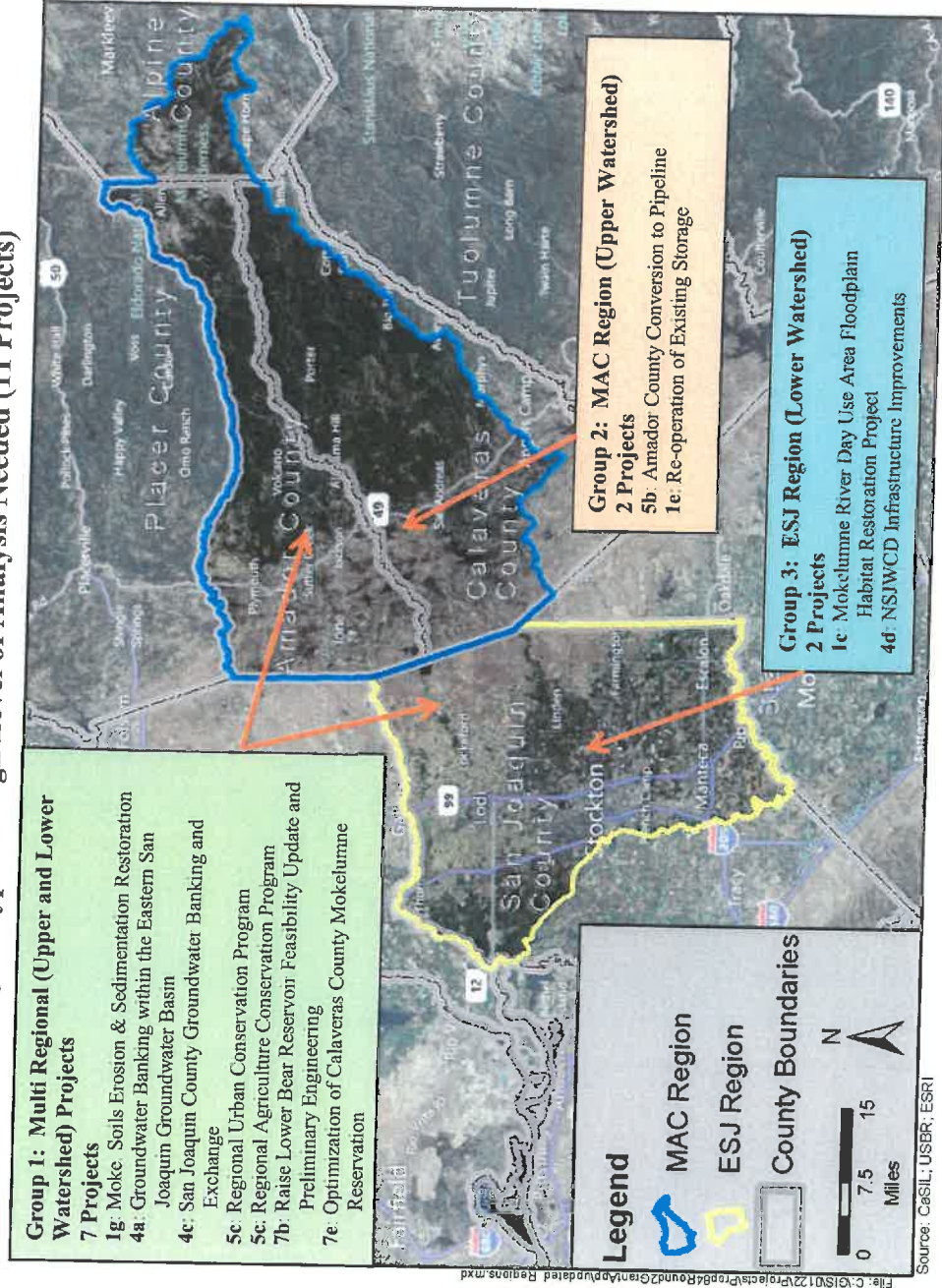
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Project Type 1: Low Level of Analysis Needed (18 Projects)



Project Type 2: High Level of Analysis Needed (11 Projects)



EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: December 4, 2014

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Xavier J. Irias, Director of Engineering and Construction *85 for XJI*

SUBJECT: Eden Reservoir Replacement and Round Hill Reservoir Rehabilitation

INTRODUCTION

As part of the District's strategy to maintain its infrastructure, the Eden and Round Hill reservoirs will be replaced and rehabilitated, respectively, under Specification 2081 and funded through the District's ongoing distribution reservoir rehabilitation program. Eden Reservoir is located in Castro Valley in unincorporated Alameda County and Round Hill Reservoir is located in Alamo in unincorporated Contra Costa County as shown in the attached location map. This project will be discussed at the Planning Committee on December 9, 2014.

DISCUSSION

Background

Steel reservoirs comprise the largest category of the District's distribution reservoirs (83 out of 167). To reduce the damage caused by corrosion of steel reservoirs, the District targets replacement of the interior coating of its steel reservoirs approximately every 25 years. The interior coatings of the Eden and Round Hill reservoirs are 31 and 33 years old, respectively. This project will address the advanced ages of the coatings for the Eden and Round Hill reservoirs.

The Eden Reservoir, built in 1983, is a 1.6-million gallon (MG) welded steel reservoir that has a 31-year-old wood frame roof and the reservoir's interior coating is failing. The reservoir will be replaced instead of rehabilitated for the following reasons: 1) substantial rehabilitation work would be required (e.g., roof replacement) and 2) rehabilitation would not improve water quality which has been historically difficult to manage in this pressure zone. To improve water quality, the storage in the Eden pressure zone will be reduced from 1.6-MG to 0.9-MG by replacing the existing reservoir with two smaller reservoirs that are better sized for the pressure zone (0.45-MG each).

The Round Hill Reservoir is a 0.6-MG welded steel reservoir that was built in 1981. The reservoir site is also a communications hub for other District facilities in this part of the service area. Consequently, the existing radio poles at the reservoir site will be relocated permanently to accommodate the rehabilitation of Round Hill Reservoir.

Both the Eden and Round Hill reservoirs will require the installation of temporary tanks at these sites to maintain water service during construction.

The project also includes minor construction at the Hink No. 2 Reservoir site in Lafayette. Following completion of a separate construction contract to rehabilitate the Hink No. 2 Reservoir, the 0.28-MG temporary tank at the site will be disassembled and installed at the Eden Reservoir site.

Project Scope

The replacement of Eden Reservoir and the rehabilitation of Round Hill Reservoir involves the following primary tasks at the three sites given below:

Hink No. 2 Reservoir Site (Lafayette):

1. Disassemble existing 0.28-MG temporary tank
2. Transport 0.28-MG temporary tank to the Eden Reservoir site
3. Restore 0.28-MG temporary tank site

Eden Reservoir Site (Castro Valley):

1. Construct 0.28-MG temporary tank
2. Demolish existing 1.6-MG welded steel reservoir
3. Excavate and construct two 0.45-MG welded steel reservoirs and appurtenances

Round Hill Reservoir Site (Alamo):

1. Relocate communication poles
2. Excavate and construct a new 0.16-MG temporary tank
3. Replace interior coating and install appurtenances for Round Hill Reservoir
4. Disassemble 0.16-MG temporary tank

Public Outreach and CEQA

This project is similar to other recently completed reservoir rehabilitations in Blackhawk, Alamo, and Lafayette. As with the other recently completed projects, postcards will be mailed to the customers in the vicinity of the Eden and Round Hill reservoirs prior to the start of construction. The CEQA documents for this project, notices of exemption, were filed with the Contra Costa County Clerk for the Hink No. 2 temporary tank on October 23, 2012; with the Contra Costa County Clerk for Round Hill Reservoir on February 5, 2014; and with the Alameda County Clerk for Eden Reservoir on February 19, 2014.

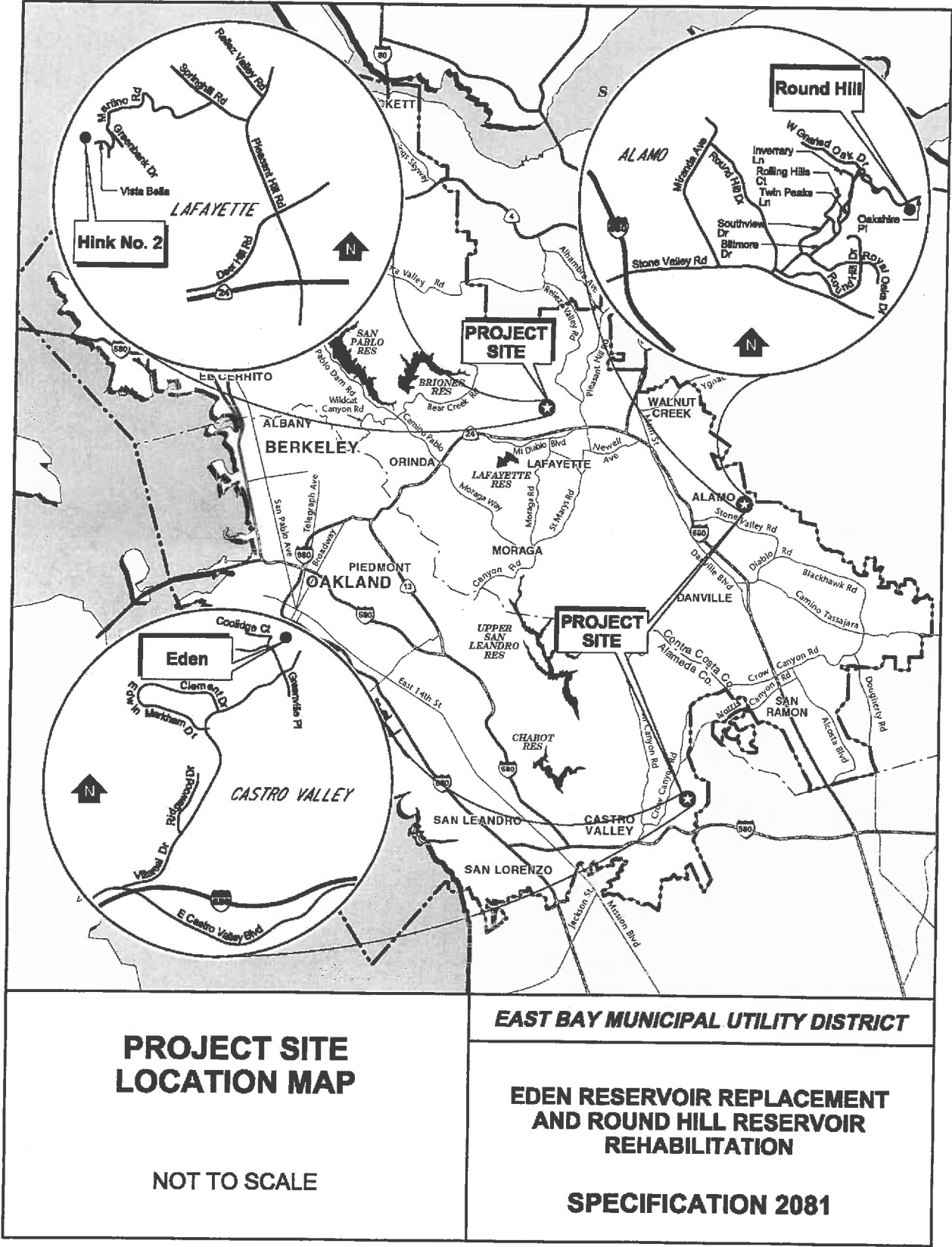
NEXT STEPS

The Board will be asked to consider the construction contract during the December 9, 2014 Board meeting. Following award, the contractor's notice to proceed is planned for February 2015 and construction is scheduled for completion by June 2016.

ARC:XJI:cjl

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Attachment: Location Map



Location Map

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: December 4, 2014

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Xavier J. Irias, Director of Engineering and Construction *XJI*

SUBJECT: San Pablo Clearwell Replacement and San Pablo Water Treatment Plant Upgrade Projects Update

INTRODUCTION

The existing 5.4-million gallon (MG) open cut San Pablo Clearwell, which is located at the District's San Pablo Water Treatment Plant (WTP) site, will be replaced with two 2.7-MG concrete tanks in the existing open cut basin. The 2012 Reservoir Infrastructure Rehabilitation Plan ranked the San Pablo Clearwell as the highest priority open cut reservoir for replacement. Additionally, upgrades to the San Pablo WTP and San Pablo Tunnel are required to support planned outages at the Orinda WTP. Work at the Orinda WTP was discussed at the Planning Committee on October 9, 2014. This memo provides an update on these projects. Staff will provide a presentation to the Planning Committee on December 9, 2014.

DISCUSSION

The San Pablo Clearwell, constructed in 1922, is located on the San Pablo WTP site northwest of Berkeley Park Boulevard and northeast of Coventry Road in the unincorporated community of Kensington (see Figure 1). The San Pablo Clearwell provides daily operational storage to the Central Pressure Zone even though the adjacent San Pablo WTP is a standby facility. The San Pablo Clearwell is a high priority for replacement based on the following: (1) the pre-cast concrete roof has exceeded its useful service life and is structurally unsafe for personnel, (2) the lining is in poor condition and at risk of failure, and (3) the reservoir is poorly ventilated which can increase corrosion and can pose potential water quality concerns.

The San Pablo WTP was last used in 2007 for the completion of the Claremont Tunnel outages. The treatment facility will be placed back in service as a mitigation measure to support needed planned outages of the Orinda WTP. The Orinda WTP is scheduled to be removed from service during the winters of 2015/2016 and 2016/2017 to allow repairs and maintenance on critical treatment plant systems. For San Pablo WTP to be reliably operational, the San Pablo WTP requires replacement of equipment and controls within the filter building that operate the sedimentation, flocculation, rapid mix, filtration, and solids handling processes, and improvements to the San Pablo Tunnel.

The San Pablo WTP receives untreated water from San Pablo Reservoir via the San Pablo Tunnel and San Pablo Outlet Tower. The tunnel must be isolated from the reservoir in the event that the tower fails during an earthquake. A concrete plug with a steel pipe and valve assembly will isolate the tunnel while providing the flexibility to operate the San Pablo WTP. The plug will be installed inside the tunnel approximately 100 yards onshore southwest of the San Pablo Reservoir Outlet Tower.

A Notice of Exemption (NOE) will be prepared for these projects. An NOE is appropriate since the work meets the exemptions relating to alteration of existing equipment and replacement/reconstruction of existing facilities and structures and all environmental impacts can be mitigated to less than significant. For the public review process, post cards will be mailed to nearby residents informing them of the project and the NOE and providing the residents the option to meet and discuss the project.

PROJECT COORDINATION

The San Pablo Clearwell replacement and San Pablo WTP upgrade projects are being closely coordinated with other District projects. These include the Claremont Center Aqueduct repair/replacement work that requires individual shutdowns of each of the aqueducts (i.e., Wildcat, 59th Street, and Sequoia). The shutdowns are scheduled to be completed by March 2015. If the Claremont Center Aqueduct work cannot be completed this winter an additional outage will be required in winter 2016 and this outage would delay the repair/replacement work at both the Orinda WTP and the San Pablo Clearwell by one year.

The following is the current project schedule:

San Pablo WTP Improvements	January 2015 through September 2015
Orinda WTP Outage #1	December 2015 through February 2016
San Pablo Tunnel Concrete Plug Improvements	April 2016 through September 2016
San Pablo CW Replacement Design	April 2015 through September 2016
Orinda WTP Outage #2	December 2016 through February 2017
San Pablo CW Replacement Construction	April 2017 through March 2019

NEXT STEPS

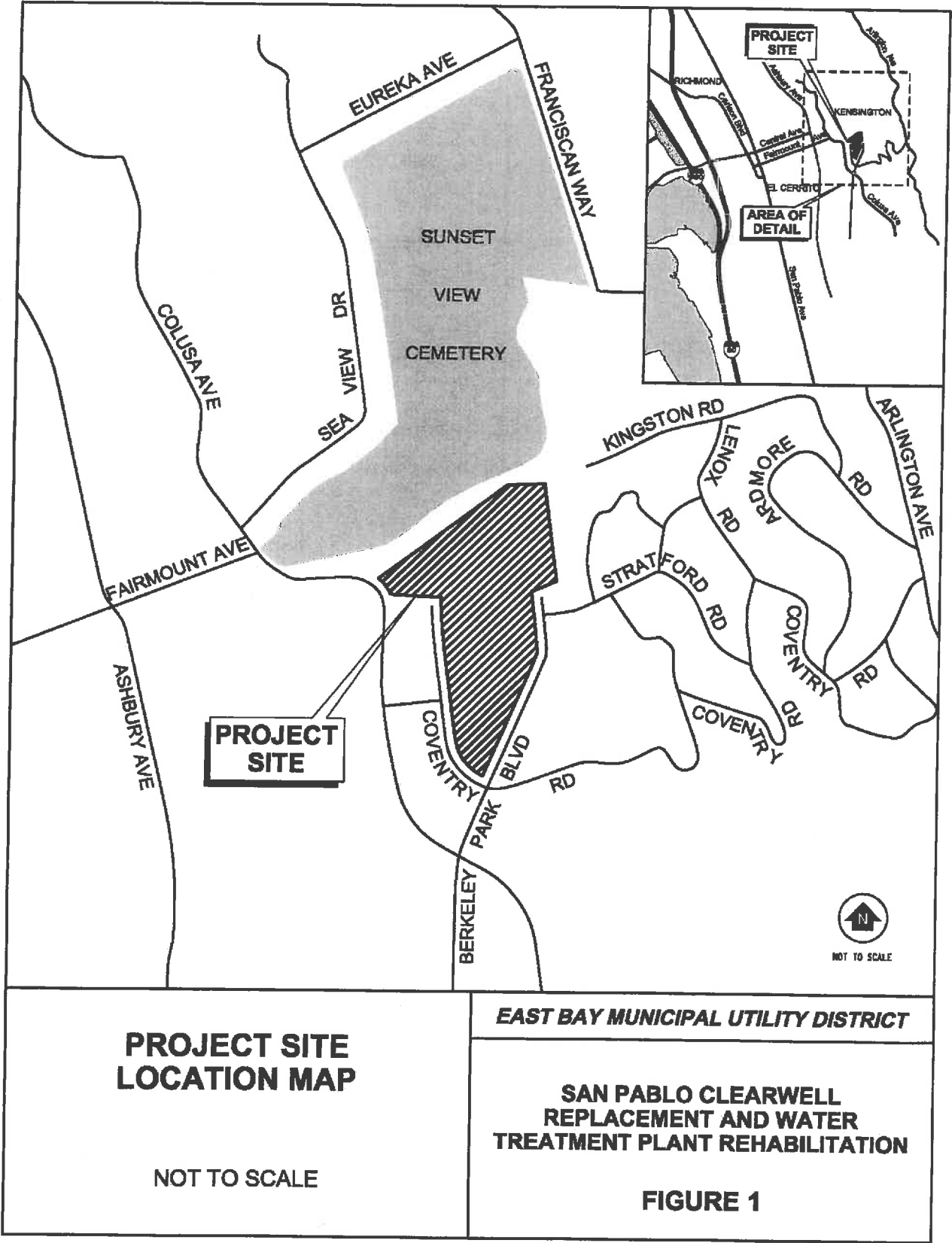
The NOE for the San Pablo Clearwell Replacement and San Pablo WTP and San Pablo Tunnel upgrades is scheduled to be completed for public review in December 2014.

ARC:WRK:mb

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Attachments: Figure 1 - San Pablo Clearwell Replacement and Water Treatment Plant Rehabilitation Location Map

San Pablo Clearwell Replacement and San Pablo Water Treatment Plant Rehabilitation Location Map



EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: December 4, 2014

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Xavier J. Irias, Director of Engineering and Construction *85 for XJI*

SUBJECT: Happy Valley, Sunnyside and Donald Pumping Plants and Ardith Reservoir Project Update

INTRODUCTION

The four subject projects were approved in the Water Treatment and Transmission Improvements Program (WTTIP) Environmental Impact Report (EIR) certified by the Board of Directors in December 2006 (see attached map, which references all of the WTTIP projects). As part of a settlement agreement between the District and the City of Orinda (City) dated February 8, 2007, the District convened a Citizens Liaison Committee (CLC) consisting of local residents and city staff to provide input to the architectural and landscape plans and acoustical engineering evaluations for the projects. The projects were discussed at the Planning Committee on March 26, 2013 and June 11, 2013. This memo provides an overview of the CLC public outreach process that was completed and describes next steps. Staff will provide a presentation to the Planning Committee on December 9, 2014.

DISCUSSION

Happy Valley, Sunnyside, and Donald Pumping Plants, and Ardith Reservoir are new facilities required to improve the distribution system by addressing existing and future system capacity deficiencies serving the Lafayette, Moraga, and Orinda area. The WTTIP EIR analyzed the impacts and developed mitigations in a variety of areas, including noise and aesthetics. Prior to Board certification of the EIR and approval of all projects in the EIR, the City raised concerns regarding the impact of certain WTTIP projects contained in the EIR. Subsequently, the District entered into a settlement agreement with the City which outlined measures to address the City's concerns including formation of a CLC.

Citizens Liaison Committee

The District convened separate CLCs for each of the three pumping plant sites. The CLC members consisted of residents near each project site. Representatives from the cities of Orinda and Lafayette were also invited to the CLC meetings. Orinda city staff did not participate in the CLC meetings but were kept informed of the CLC progress and final decisions. Lafayette sent a

staff representative that actively participated in the CLC meetings for the Sunnyside Pumping Plant project, which will be constructed within the Lafayette city limits.

The District and consultants provided a range of conceptual plans of architectural and landscaping treatments consistent with the site layouts and visual simulations in the approved WTTIP EIR to facilitate input from the CLC. All CLCs successfully achieved consensus on visual designs and noise treatments. CLC members will receive periodic updates during design and construction of all facilities.

NEXT STEPS

Design of the Sunnyside Pumping Plant is scheduled for 2015/2016 followed by construction in 2018/2019. Design of the Happy Valley Pumping Plant is scheduled for 2017 followed by construction in 2018/2019. Design of the Donald Pumping Plant and Ardith Reservoir is scheduled for 2016 followed by construction in 2017/2018.

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Attachment: Water Treatment and Transmission Improvements Program Location Map

Water Treatment and Transmission Improvements Program Location Map

