



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7

100 NORTH CANYONS PARKWAY • LIVERMORE, CA 94551 • PHONE (925) 454-5000 • FAX (925) 454-5727

NOTICE OF SPECIAL MEETING OF BOARD OF DIRECTORS

DATE: Wednesday, January 29, 2014

TIME: 7:00 p.m.

LOCATION: Zone 7 Administration Building
100 North Canyons Parkway, Livermore, California

Any member of the public desiring to address the Board on an item under discussion may do so upon receiving recognition from the President. After receiving recognition, please step to the podium and state your name and address.

In compliance with the Americans with Disabilities Act, the meeting room is wheelchair accessible and disabled parking is available at the Zone 7 Administrative Building lot. If you are a person with a disability and you need disability-related modifications or accommodations to participate in this meeting, please contact the Zone 7 Board Secretary, Judy Rector, at (925) 454-5053 or fax (925) 454-5724. Notification 48 hours prior to the meeting will enable Zone 7 to make reasonable arrangements to ensure accessibility to this meeting. {28 CFR 35.102-35, 104 ADA Title II}

A G E N D A

1. Call Meeting to Order
2. Pledge of Allegiance
3. Citizens Forum

This is an opportunity for members of the public to speak on an item not listed on the agenda. The Board cannot deliberate or take action on a non-agenda item unless it is an emergency as defined under Government Code Section 54954.2.

4. Public Comments
5. 2014 Drought Emergency Response Plan

Recommended Action: Adopt resolution.

6. Contract for Design and Construction of Chain of Lakes Well No. 5

Recommended Action: Adopt resolution.

7. Contract for Design and Construction of Pipeline between Cope Lake and Lake I

Recommended Action: Adopt resolution.

8. Contract for Design of Valley Avenue Well

Recommended Action: Adopt resolution.

9. CLOSED SESSION

(a) Conference with Legal Counsel -- Initiation of litigation pursuant to Gov't Code Section 54956.9(d)(4): 3 cases.

10. Open Session and Report Out of Closed Session

11. Verbal Reports

12. Adjournment

13. Upcoming Board Schedule: (All meeting locations are in the Boardroom at 100 North Canyons Parkway, Livermore, California, unless otherwise noted)

- a) Special Board Meeting: Public Workshop on California Water Action Plan,
January 30, 2014, 6:00 p.m. Dublin City Council Chamber
- b) Regular Board Meeting: February 19, 2014, 7:00 p.m.

Materials related to an item on this agenda that have been provided to the Board less than 72 hours prior to the meeting are available for public inspection at the Zone 7 office at the time of, and prior to, the meeting and at www.zone7water.com. All other material otherwise provided to the Board will be available at the public meeting.



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7

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ORIGINATING SECTION: ENGINEERING/INTEGRATED PLANNING
CONTACT: KURT ARENDS/CAROL MAHONEY

AGENDA DATE: January 29, 2014

ITEM NO. 5

SUBJECT: 2014 Drought Emergency Response Plan

SUMMARY:

- On January 17, 2014, Governor Jerry Brown declared a State of Drought Emergency in California due to the ongoing extreme drought conditions and asked all Californians to reduce water use by 20%.
- The US Department of Agriculture also declared Alameda County as a natural disaster area because of the extreme drought conditions.
- Last week, California Department of Water Resources (DWR) informed Zone 7 that with these dry conditions there is a chance that State Water Project (SWP) allocations to contractors south of the Delta (including Zone 7) could be reduced from the current five percent level to zero, which could also limit DWR's ability to convey any water from the Delta through the aqueduct system, including water transfers or carry-over.
- Over 80% of the water delivered by Zone 7 to its customers is imported from the Delta through the SWP system.
- The loss of SWP deliveries greatly reduces Zone 7's options for providing the Valley's water supply needs and immediate action is needed to prepare for this possibility.
- Staff has developed a Drought Emergency Response Plan comprised of a series of actions to be taken to enhance reliability and minimize potential water supply shortages.
- The first step in this plan is to adopt the attached Resolution declaring a local state of drought emergency.
- The Drought Emergency Response Plan and the Declaration of a local drought emergency will be reviewed at each monthly Board meeting until such time as Zone 7 determines that the Declaration needs to be amended or repealed.

FUNDING:

No funding is required for this action.

RECOMMENDED ACTION:

Adopt the attached Resolution: (1) Declaring a State of Emergency due to drought conditions in the Livermore-Amador Valley; (2) Accepting the Drought Emergency Response Plan; and (3) Authorizing and directing the General Manager to establish appropriate levels of conservation that are consistent with the California State of Drought Emergency and local water supply conditions, and to identify and pursue emergency projects that will minimize impacts on water deliveries.

ATTACHMENTS:

1. Memo providing additional background and discussion of agenda item
2. Zone 7 Board Resolution

Interoffice Memo

Date: January 29, 2014
To: Jill Duerig, General Manager
From: Kurt Arends, Assistant General Manager - Engineering
Carol Mahoney, Integrated Planning Manager
Subject: 2014 Drought Emergency Response Plan

The following provides additional background and discussion on the above-referenced agenda item.

BACKGROUND:

Calendar Year 2013 was the driest year in recorded state history. 2013 also set a new record as the driest year measured in the Livermore-Amador Valley, with total precipitation of only 4.5 inches out of the average yearly rainfall of 14.47-inches (only 31% of average at Livermore Station 15e). Previous dry calendar year record-holders at the same rainfall station include 1976 - 6.4 inches (44% of average), 1929 - 6.58 inches (45% of average), and 1917 - 6.81 inches (47% of average). At the beginning of 2014, the snowpack's statewide water content was estimated at about 20% of average for this time of year and January has been experiencing record high temperatures in the Bay Area. In mid-January, the National Weather Service issued a long-term forecast that the following 90 days would remain dry, promising little relief in these extremely dry conditions.

On January 17, 2014, Governor Jerry Brown declared a State of Emergency in California due to the current drought conditions and asked all citizens to cut back water use by 20%. In addition, the California Department of Water Resources (DWR) informed Zone 7 that as these dry conditions are of unprecedented severity, it is very difficult to predict this year's water supplies or to set supply allocation amounts. They have indicated that there is a reasonable chance that allocations could be reduced from the current five percent projection to zero percent, which could also prevent water from being moved through the Delta and pumped into the aqueduct system managed by DWR.

DISCUSSION:

Over 80% of Zone 7's annual average water supply is conveyed through the Delta as part of the State Water Project. In preparation for dry years, Zone 7 has multiple options for storing excess water in wet or normal years. These include regularly recharging excess supply in the local groundwater basin through our artificial groundwater recharge program, storing surplus supplies in areas outside of our groundwater basin such as "carry- over" water from the SWP in San Luis Reservoir or "banking" excess water in external basins like Semitropic and Cawelo in Kern County. In other words, a large portion of water Zone 7 considers as drought supplies are stored outside of the Livermore-Amador Valley groundwater basin and downgradient in the SWP system. To receive those external supplies in dry years, water is "exchanged" whereby Zone 7 receives more SWP water that is being pumped from the Delta and the downgradient "banks" use more of their own internal supplies to meet their local demand. If no water is being pumped from the Delta through the SWP system, calling back the "banked" supplies that are stored remotely into the Livermore Valley may become impossible. Likewise, no water in the SWP system could impact DWR's ability to store any additional water in Lake Del Valle. In this

worst-case scenario, Zone 7 would have to rely solely on water that has been stored locally in the groundwater basin and the water DWR has previously stored in Lake Del Valle to meet the community's water supply needs.

In response to this potentially critical situation, Zone 7 has developed a Draft Drought Emergency Response Plan comprised of immediate actions to be taken now to address these threats and define future actions to be implemented if the situation worsens. Because rainfall or increased snowpack in the next few months could yield more overall water in the system, the actions in the Drought Emergency Response Plan will be reviewed and revised as necessary to meet the Valley's water supply needs.

To the extent that surface water is available through the State Water Project, Zone 7 shall maximize the treatment and delivery of surface water to meet demands and minimize the use of groundwater in order to conserve groundwater for future use should the SWP system not be operational. Also, groundwater recharge activities shall continue to the extent that the use of surface water for artificial recharge does not reduce the availability of surface water to meet demands. In addition, Zone 7 shall work with DWR and the other South Bay Aqueduct (SBA) contractors to move water into Lake Del Valle to provide as much local supply as possible in the event that DWR is unable to move water through the SWP system later in the season.

Zone 7 is also working with its sister agencies, East Bay Municipal Utility District, San Francisco Public Utilities Commission, Contra Costa Water District, Santa Clara Valley Water District and Alameda County Water District to explore potential transfer or wheeling opportunities, which may allow additional supplies to be brought into the Valley or to be made available should the need arise.

Zone 7 is coordinating with the Valley's retailers to manage operations and water deliveries. In addition, Zone 7 and the retailers are exploring increased retailer groundwater pumping in order to augment Zone 7's pumping capacity to help manage the groundwater basin and meet customer demands.

In addition to these operational activities, several planned capital projects have been identified as providing a direct benefit in mitigating the potential impacts of the drought. These include:

- ***Construction of Chain of Lakes (COL) Well #5.*** The design and construction of COL Wells #1 and #2 anticipated the installation of COL Wells #3, #4 and #5. For COL #5, a pipeline was pre-installed to connect the well to the chemical feed facilities located at COL #1. CEQA for this project has been completed and reviewed for consistency. Installation of this well will immediately increase Zone 7's groundwater pumping capacity and assist in meeting peak demands.
- ***Water conveyance between Cope Lake and Lake I.*** In December of 2013, Zone 7 completed a project to capture the water being discharged as part of Vulcan Material's mining operation and place it into Cope Lake. CEQA for this project was adopted by the Zone 7 Board on February 15, 2012. Previously, that discharge had been into the Arroyo Mocho and the majority of the water had flowed out of the Valley. In order to get beneficial use of this water, enhance operational flexibility and potentially increase opportunities to transfer additional water from the quarrying operations, that water must be moved from Cope Lake into Lake I, which has recharge capability. In order to facilitate long-term operation of the lakes, a permanent conduit between the Cope Lake

and Lake I is needed. In addition, a pipeline and pump system will be needed to maintain water levels during construction and to lower the levels in Cope Lake since it has no recharge capability. Additional property adjacent to the COL Well #1 site is needed to facilitate the transfer of water.

- ***New well on Valley Avenue.*** Zone 7 is currently pursuing purchase of property near the intersection of Valley Avenue and Stanley Boulevard. The Busch-Valley area was identified in the Well Master Plan as a future well site. Construction of a well in this area will assist in meeting peak demands and also allow Zone 7 to access groundwater from a different portion of the Main Basin, increasing the overall quantity of water that can be pumped on an annual basis.
- ***Additional treatment facility at the Chain of Lakes.*** COLs #1 and #2 were installed for drought emergencies. If the Department of Public Health adopts new chromium standards, additional treatment will be needed for these wells. Another key water management component of the Chain of Lakes is that they store surface water in addition to offering recharge and conveyance opportunities. Lake I, alone, is estimated to have a current volume of 11,000 acre-feet of water. The installation of a package treatment plant would allow this stored water to be pumped directly from the lake for treatment and delivery through the distribution system. Installing a package treatment plant adjacent to the COL Well #1 site allows access to power and facilitates a connection to the Zone 7 distribution system through the Chain of Lakes Pipeline.
- ***Booster station on the Cross Valley Pipeline.*** With potentially no surface water available from the SWP system to serve the eastern portion of the Valley, it would be difficult to move water from the production wells in the west to serve the demands in the east. Existing booster stations are inadequate to overcome system hydraulics without stressing distribution facilities and reducing reliability. By installing a booster pump station along the Cross Valley Pipeline, possibly at the Stoneridge well facility, hydraulics would be improved, and reliability would be increased. In addition, the installation of a booster pump station at this location will facilitate the blending of groundwater sources within the system, helping to meet the anticipated hexavalent chromium (Cr6) maximum contaminant level (MCL) regulations, which are expected to be announced in April of this year.

Staff is identifying the most expedient way to implement each of these priority projects and will be bringing forward separate agenda items for Board consideration at the earliest possible date. Two projects that can move forward immediately and provide benefit by this summer are the installation of COL Well #5 and the construction of a conduit connecting Cope Lake to Lake I.

RECOMMENDATION:

Adopt the attached Resolution: (1) Declaring a State of Emergency due to drought conditions in the Livermore-Amador Valley; (2) Accepting the Drought Emergency Response Plan; and (3) Authorizing and directing the General Manager to establish appropriate levels of conservation that are consistent with the California State of Drought Emergency and local water supply conditions, and to identify and pursue emergency projects that will minimize impacts on water deliveries.

ZONE 7
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

RESOLUTION NO.

INTRODUCED BY
SECONDED BY

Proclamation of State of Local Drought Emergency

WHEREAS, Zone 7 of the Alameda County Flood Control and Water Conservation District is responsible for providing a reliable supply of high quality water to the Livermore-Amador Valley; and

WHEREAS, Zone 7 is responsible for managing the local groundwater basin in a sustainable fashion to provide annual and drought year water supplies; and

WHEREAS, California Governor Jerry Brown has officially declared a drought emergency for the State of California; and

WHEREAS, the federal government has declared Alameda County as a federal natural disaster county; and

WHEREAS, the Department of Water Resources has informed Zone 7 that the current dry conditions far exceed any previously recorded and that methods for determining safe allocations for State Water Project deliveries South of the Delta are nearly impossible; and

WHEREAS, DWR announced last week that if dry conditions continue, it will likely reduce the allocation of water supply from 5% to zero, which could also prevent any water from being moved through the South Delta Pumping Plant to contractors South of the Delta, including Zone 7; and

WHEREAS, the National Weather Service announced that the 90-day forecast is for continuing dry weather; and

WHEREAS, if no water is conveyed through the Delta, access to Zone 7's remotely-stored water may be minimal (i.e., water stored outside the local groundwater basin or Lake Del Valle in Semitropic, Cawelo or San Luis Reservoir).

WHEREAS, potential environmental impacts of some projects have already been reviewed as part of either Zone 7's Well Master Plan EIR or the Mitigated Negative Declaration for the Vulcan discharge pipeline, which were both adopted in accordance with California Environmental Quality Act (CEQA) guidelines.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District does hereby declare a state of drought emergency within its service area (the Livermore-Amador Valley); and

BE IT FURTHER RESOLVED that the Zone 7 Board of Directors hereby accepts and approves the Drought Emergency Response Plan; and

BE IT FURTHER RESOLVED that the General Manager is hereby authorized and directed to establish appropriate levels of conservation that are consistent with the California State of Drought Emergency and local water supply conditions; and

BE IT FURTHER RESOLVED that the General Manager is hereby authorized and directed to identify and pursue emergency projects that will minimize impacts on water deliveries in the Livermore-Amador Valley.

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAIN:

I certify that the foregoing is a correct copy of a Resolution adopted by the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District on January 29, 2014.

By _____
President, Board of Directors



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7

100 NORTH CANYONS PARKWAY • LIVERMORE, CA 94551 • PHONE (925) 454-5000 • FAX (925) 454-5727

ORIGINATING SECTION: Facilities Engineering
CONTACT: Athena Watson/Rhett Alzona

AGENDA DATE: January 29, 2014

ITEM NO. 6

SUBJECT: Contract for Design and Construction of Chain of Lakes Well No. 5

SUMMARY:

- If conditions stay dry as currently predicted by the National Weather Service, the Department of Water Resources will likely reduce Zone 7's State Water Project (SWP) water supply allocation to zero which could limit conveyance of any other Zone 7 water supplies through SWP system such as SWP carryover water from San Luis Reservoir, water bank exchanges with Semitropic and Cawelo Water Districts, and other water transfers through SWP system.
- In response to the potential cutbacks in SWP supplies, Zone 7's Drought Emergency Response Plan includes implementing certain emergency projects to help meet water demands.
- Staff believes that constructing Chain of Lakes Well No. 5 immediately will help reduce potential water shortages. The well was scheduled for completion in year 2018 in the CIP adopted in 2011.
- Chain of Lakes Well No. 5 is projected to produce about 1 to 2 million gallons per day and proposed to be located on vacant land north of Lake H and near Zone 7's existing Chain of Lakes Well Nos. 1 & 2. Well No. 1 already has the chemicals on-site for feeding necessary chemicals to flow from Well No. 5 and the pipeline between the existing Chain of Lakes Well No. 1 treatment facility and the proposed Well No. 5 is already in place.
- CEQA for the project was included in the Well Master Plan EIR.
- The total project estimate is \$3.6 million.
- Based on staff's past experience on similar projects with these firms, and under the Drought Emergency Resolution, staff recommends authorizing the General Manager to forego the formal bid process and negotiate the project scope, cost and scheduling with Conco West, Inc., as the prime contractor, and Stantec and Layne Christensen as subcontractors for design and construction of a water supply well, pumphouse, vertical turbine well pump and motor, grading, paving, and fencing. The project is anticipated to be completed by August 2014.

FUNDING:

Since this project was not scheduled for completion in this fiscal year, appropriations of \$3.6 million is required to implement the project in FY 2013/14. Funding for the project is available in reserves from Fund 120 – Renewal Replacement/System-wide Improvements (\$1,800,000) and Fund 130 - Expansion (\$1,800,000).

RECOMMENDED ACTION:

Adopt attached resolution; a) authorizing the General Manager to negotiate and execute a contract with Conco West, Inc., or other appropriate firms for design and construction of the project in an amount not-to-exceed \$3.5 million; and b) appropriating \$3,600,000 for the project in the FY 2013/14 budget.

ATTACHMENT:

Resolution

ZONE 7
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

RESOLUTION NO.

INTRODUCED BY
SECONDED BY

Contract for Design and Construction of Chain of Lakes Well No. 5

WHEREAS, the Drought Emergency Response Plan includes implementing certain emergency projects to help meet water demands during extreme drought conditions; and

WHEREAS, the local groundwater basin will be a critically-important water supply during such an emergency; and

WHEREAS, installation of Chain of Lakes Well No. 5 north of Lake H which is anticipated to produce about 1 to 2 million gallons per day; and

WHEREAS, the Zone 7 Board declared a State of Emergency on January 29, 2014 due to the existing extreme drought conditions.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District does hereby authorize the General Manager to negotiate and execute a contract with Conco West, Inc., or such other qualified firms as needed, for the design and construction of the project in an amount not-to-exceed \$3.5 million and

BE IT FURTHER RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District hereby appropriates an additional \$3.6 million in the FY 13/14 budget for this project from the following funds:

Fund 120 – Renewal/Replacement and System-Wide Improvements - \$1,800,000
Fund 130 – Expansion - \$1,800,000

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAIN:

I certify that the foregoing is a correct copy of a Resolution adopted by the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District on January 29, 2014.

By _____
President, Board of Directors



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7

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ORIGINATING SECTION: Facilities Engineering
CONTACT: Steven Ellis/Rhett Alzona

AGENDA DATE: January 29, 2014

ITEM NO. 7

SUBJECT: Contract for Design and Construction of Pipeline between Cope Lake and Lake I

SUMMARY:

- If conditions stay dry as currently predicted by the National Weather Service, the Department of Water Resources will likely reduce Zone 7's State Water Project (SWP) water supply allocation to zero which could limit conveyance of any other Zone 7 water supplies through SWP system such as SWP carryover water from San Luis Reservoir, water bank exchanges with Semitropic and Cawelo Water Districts, and other water transfers through SWP system.
- In response to the potential cutbacks in SWP supplies, Zone 7's Drought Emergency Response Plan includes implementing certain emergency projects to help meet water demands.
- As a critical source of water available under this drought emergency is the water stored in the Chain of Lakes, Zone 7 needs to install a pipeline between Cope Lake and Lake I using a jack and bore operation to facilitate operations and optimize groundwater recharge.
- Part of the project to capture Vulcan water into Cope Lake was budgeted in this fiscal year (\$250,000) and the remaining portion, to install a permanent pipeline (\$750,000) between Cope Lake and Lake I, was anticipated in FY 2014-15.
- A Mitigated Negative Declaration (MND) and associated Mitigation Monitoring and Reporting Plan (MMRP) for the project to capture and transfer Vulcan discharges into other Zone 7-owned and -operated lakes were adopted by the Zone 7 Board on February 15, 2012.
- Staff's estimate for design and construction of this pipeline is \$1,000,000. Due to the uncertainties associated with this project, staff recommend including a 20% contingency.
- Based on CH2M Hill's experience working with Zone 7 on similar projects, and under an Emergency Declaration, staff recommends authorizing the General Manager to forego the formal bid process and negotiate a contract for design and construction of this pipeline with CH2M Hill or other qualified firm. The project is anticipated to be completed by May 2014.

FUNDING:

There is \$250,000 in the FY 2013/14 budget for a portion of the project. Additional appropriations of \$950,000 to supplement FY 2013/14 project budget are required to implement the project this fiscal year. Funding is available from Fund 120 – Renewal/Replacement and System-Wide Improvements (\$285,000) and Fund 130 – Expansion (\$665,000).

RECOMMENDED ACTION:

Adopt attached resolution; a) authorizing the General Manager to negotiate and execute an agreement with CH2M Hill or another qualified firm for design and construction of this project in an amount not-to-exceed \$1,200,000; and b) appropriating an additional \$950,000 for the project in the FY 2013/14 budget.

ATTACHMENT:

Resolution

ZONE 7
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

BOARD OF DIRECTORS

RESOLUTION NO.

INTRODUCED BY
SECONDED BY

Contract for Design and Construction of Pipeline between Cope Lake and Lake I

WHEREAS Drought Emergency Response Plan includes implementing certain emergency projects to help meet water demands; and

WHEREAS, the local groundwater basin and water stored in the Chain of Lakes will be a critically-important water supply during such emergency drought conditions; and

WHEREAS, installation of a pipeline between Cope Lake and Lake I to convey water, initially captured in Cope Lake from Vulcan's mining operations, into Lake I which has recharge capability into the groundwater basin will further those interests; and

WHEREAS, a Mitigated Negative Declaration (MND) and associated Mitigation Monitoring and Reporting Plan (MMRP) for the project to capture and transfer Vulcan discharges into Zone 7-owned and -operated Lakes were adopted by the Zone 7 Board on February 15, 2012; and

WHEREAS, the Zone 7 Board declared a State of Emergency on January 29, 2014, due to the existing extreme drought conditions.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District does hereby authorize the General Manager to negotiate and execute a contract with CH2M Hill or another appropriate firm for the design and construction of a Pipeline between Cope Lake and Lake I in an amount not-to-exceed \$1,200,000; and

BE IT FURTHER RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District hereby appropriates an additional \$950,000 in the FY 13/14 budget for this project from the following funds:

Fund 120 – Renewal/Replacement and System-Wide Improvements - \$285,000
Fund 130 – Expansion - \$665,000

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAIN:

I certify that the foregoing is a correct copy of a Resolution adopted by the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District on January 29, 2014.

By _____
President, Board of Directors



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT, ZONE 7

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ORIGINATING SECTION: Facilities Engineering

CONTACT: Athena Watson/Rhett Alzona

AGENDA DATE: January 29, 2014

ITEM NO. 8

SUBJECT: Contract for Design of Valley Avenue Well

SUMMARY:

- If conditions stay dry, the California Department of Water Resources notified Zone 7 that allocations from the State Water Project to contractors south of the Delta (such as Zone 7) will likely be reduced from 5% to 0%. This emergency drought condition could easily continue into 2015, as well.
- The main source of water available under this worst-case scenario will be local groundwater and water stored locally in Lake Del Valle and the Chain of Lakes. Staff believes that immediately constructing a well on Valley Avenue will help reduce potential water shortages in the Livermore Valley.
- The Valley Avenue well will be located on vacant land near the northwest corner of Valley Avenue and Stanley Boulevard, in the area referred to as the Busch Valley area in the Well Master Plan. That would make this the Busch Valley Well #1. CEQA for the project was included in the Well Master Plan EIR
- Busch Valley Well No. 1 is projected to produce about 2 to 3 million gallons per day.
- The total project cost estimate is \$6,900,000. At this time, staff are only recommending an appropriation to cover initial design, and related drilling to determine on-site hydrogeology, as needed. Additional appropriations will be sought as the project moves forward.
- Based on Stantec's (formerly ECO:Logic Engineering) past experience working with Zone 7 on similar projects, staff recommends negotiating a contract for designing the water supply well, pump house, vertical turbine well pump and motor, chemical system, ingress/egress improvements, grading, paving, and fencing. The overall project completion is anticipated by February 2015.

FUNDING:

Since this project was not scheduled in fiscal year 2013/14, appropriations of \$1.4 million are required to implement the project. Funding for the project is available from reserves in Fund 120 – Renewal Replacement/System-wide Improvements (\$700,000) and Fund 130 - Expansion (\$700,000).

RECOMMENDED ACTION:

Adopt attached resolution to: a) authorize the General Manager to negotiate and execute a contract with Stantec or other qualified firm(s) for design and related activities for Busch Valley Well No. 1 - Water Supply Well and Pump house Project in an amount not-to-exceed \$1,400,000; and b) appropriate \$1,400,000 for this phase of work.

ATTACHMENT:

Resolution

ZONE 7
ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
BOARD OF DIRECTORS

RESOLUTION NO.

INTRODUCED BY
SECONDED BY

Contract for Design of Valley Avenue Well

WHEREAS, the Zone 7 Board of Directors has declared a State of Drought Emergency for the Livermore-Amador Valley; and

WHEREAS, the local groundwater basin will be the key water supply in providing water during these extremely dry conditions; and

WHEREAS, Zone 7 desires to install Busch Valley Well No. 1 near the northwest corner of Valley Avenue and Stanley Boulevard, which is anticipated to produce up to 2 to 3 million gallons per day.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District does hereby authorize the General Manager to negotiate and execute a contract with Stantec or other qualified firm for design of a water supply well and pump house in an amount not-to-exceed \$1,400,000; and

BE IT FURTHER RESOLVED, that the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District hereby appropriates \$1,400,000 in the FY 13/14 budget for this phase of the project from the following funds:

Fund 120 – Renewal/Replacement and System-Wide Improvements - \$700,000
Fund 130 – Expansion - \$700,000

ADOPTED BY THE FOLLOWING VOTE:

AYES:

NOES:

ABSENT:

ABSTAIN:

I certify that the foregoing is a correct copy of a Resolution adopted by the Board of Directors of Zone 7 of the Alameda County Flood Control and Water Conservation District on January 29, 2014.

By _____
President, Board of Directors