



ZONE 3 ADVISORY COMMITTEE

San Luis Obispo County Flood Control and Water Conservation District

AGENDA

Thursday, November 17, 2016 6:30 p.m.
City of Pismo Beach

- I. CALL TO ORDER AND ROLL CALL
- II. PUBLIC COMMENT
This is an opportunity for members of the public to address the Committee on items that are not on the Agenda
- III. APPROVAL OF MEETING MINUTES OF SEPTEMBER 15, 2016
- IV. APPROVAL OF 2017 MEETING SCHEDULE
- V. OPERATIONS REPORT
 - A. Water plant operations, reservoir storage, downstream releases
- VI. INFORMATION ITEMS
 - A. First Quarter Budget Status Report
 - B. Projected Reservoir Levels
 - C. Climate Update
 - D. Cloud Seeding Feasibility Report Update
- VII. CAPITAL PROJECTS UPDATE
 - A. Carpenter Creek Foot Bridge replacement project
- VIII. ACTION ITEMS (No Subsequent Board of Supervisors Action Required)
- IX. ACTION ITEMS (Board of Supervisors Action is Subsequently Required)
 - A. ECORPS contract for modeling changes to water supply contracts
- X. FUTURE AGENDA ITEMS
 - A. Contract Renegotiation Discussions
 - B. Funding Groundwater Modeling
- XI. COMMITTEE MEMBER COMMENTS

Next Regular Meeting is Tentatively Scheduled for
Thursday, January 19, 2017 at 6:30 PM at City of Grover Beach
Agendas accessible online at SLOCountyWater.org

**SAN LUIS OBISPO COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
ZONE 3 ADVISORY COMMITTEE
DRAFT MEETING MINUTES
THURSDAY September 15, 2016**

I. Call To Order/Roll Call - The Meeting was called to order at 6:30 PM at the City of Grover Beach by Zone 3 Advisory Committee Chairman and Avila Beach Community Services District (CSD) General Manger, Brad Hagemann. County Public Works Department Utilities Program Manager and Secretary to the Zone 3 Advisory Committee, Andrea Montes, called role. Members in attendance were:

- Kristen Barneich, City of Arroyo Grande
- Brad Hagemann, Avila Beach CSD, Chairman
- Jeff Lee, City of Grover Beach
- Mary Lucey, Oceano CSD
- Brian Talley, Agriculture Delegate, Vice-Chairman
- Ed Waage, City of Pismo Beach

Quorum was established and the meeting continued.

II. Public Comment - No public comment was given.

III. Approval of Meeting Minutes of July 21, 2016 - Ms. Montes noted correction on Page 3, second paragraph, where “ ‘minimal pool’ ” should read “ ‘minimal’ pool”. Member Waage motioned for approval of the minutes; Member Barneich second. Member Lee and Member Lucey abstained due to absence from the July 21, 2016 meeting. Motion passed.

IV. Operations Report - Ms. Montes indicated the Lopez Lake elevation was 461.12 feet. Storage was 12,138 acre-feet (AF), which is 24.8% capacity. Rainfall to date was 0 inches. Plant production was 2 million gallons per day (MGD). Downstream release was 4.3 MGD. And State Water was 2.8 MGD.

No public comment was given.

V. Information Items

A. New Public Works Finance Staff - Joanne Hilker, County Public Works Finance Division Accountant, provided an update on staffing changes. Ms. Hilker introduced Kristy Smith as the new Zone 3 Public Works Finance

Accountant who will be taking over for Ms. Hilker. In addition, Ms. Hilker confirmed Will Clemens, former Public Works Finance Division Manager, has been promoted to the Department Head of Central Services. Ms. Hilker introduced Straith Smith-Zanartu as Mr. Clemens' replacement for the Public Works Finance Division Manager.

B. Fourth Quarter Budget Status Report - Ms. Hilker presented the Fiscal Year (FY) 2015-16 4th Quarter Budget Status report through June 30, 2016 for Flood Control Zone 3.

At the summary level, 84% of the total budget was expended last FY. Ms. Hilker stated this left a balance of \$740,000. Of that amount, \$578,000 will be carried into the 2016-17 FY for ongoing efforts. This leaves \$162,000 of savings from FY 2015-16. Ms. Hilker reviewed the three categories of graphs included in the agenda packet: 1.) Routine Operations and Maintenance (O&M) expenses; 2.) Non-Routine O&M expenses; and 3.) Capital Outlay expenses.

Routine Operations and Maintenance (O&M) 2015-16 fiscal year-end expenditures were 95% of the budget, which resulted in approximately \$183,000 in savings. \$21,000 of available balance will carry into FY 2016-17 for continued work. Most of the savings was due to staffing vacancies and related savings in labor.

Non-Routine O & M 2015-16 fiscal year-end expenditures were 55% of the budget, resulting in about \$278,500 in savings, which will carry into FY 2016-17 for continued work. The majority of the balance available is due to the Lopez Water Rights/Habitat Conservation Plan (HCP). The status remains the same since last quarter. HCP efforts have been delayed pending possible Zone 3 municipal contract changes that could impact the modeling and draft downstream release program that ECORP developed in coordination with H.T. Harvey. Once contract issue is resolved, work can move forward with modeling efforts and the District can re-engage regulatory agencies in permit requirement discussions. HCP efforts will continue into FY 2016-17.

Capital Outlay 2015-16 Fiscal Year-End, expenditures were 64% of the budget, resulting in \$278,000 of savings, which will carry into FY 2016-17 for continued work. Balance available is a result of staff vacancies in Utilities project management during portions of the FY that reduced the ability to work on these projects.

Ms. Hilker stated estimated savings for FY 2015-16 is \$162,000 and will be finalized in October. Generally, savings are issued back to all agencies as credit and they are mailed along with the FY 2016-17 second installment invoices dated November 1, 2016. However, a possible use of those savings will be briefed by County Public Works Utilities Division Senior Engineer, Jill

Ogren, and will be brought back as an agenda item for the November 17, 2016 meeting for consideration and vote. Because of this, the credits will not be issued back with the second installment invoices and will be held off until the November 17 meeting to see what the determination of those savings will be, which will result in the invoices being later than usual for this year.

Chairman Hagemann requested clarification on the \$162,000 credit mentioned for the Routine O&M. Ms. Hilker stated this amount is the credit amount of FY 2015-16 that would normally be returned to the Zone 3 Agencies, but other options are being explored to apply the credit to other items needing to be addressed which would be discussed by Ms. Ogren.

No public comment was given.

C. Projected Reservoir Levels – Ms. Ogren presented the Lopez Reservoir Storage Projection. The Lopez Reservoir Storage Projections were included in the agenda packet and have been revised on a monthly basis over the last several months to better project where the Lopez reservoir levels will be as the drought continues. Ms. Ogren confirmed the projections over the last few months have not changed. Ms. Ogren stated that the County is currently in the process of storing State Water and by doing this the 10,000 AF mark related to the Low Reservoir Response Plan (LRRP) trigger will not be reached until December, instead of November as originally projected.

Discussing the chart, Ms. Ogren indicated the pink shaded line below the green dashed line, represents what has happened in the last three (3) years. The green dashed line reflects projected rainfall.

Member Barneich requested clarification on when the 10,000 AF mark would be hit as it was understood that originally the projected date was November 1, but now has been moved to December. Ms. Ogren confirmed the projection had been moved back a month due to State Water storage and currently 263 AF has been stored from the State.

Member Waage questioned if the amount of State Water is being subtracted from the Lopez water to get the 10,000 AF projection date to trigger the next phase or not. Ms. Ogren clarified that the State Water amount is not being subtracted from the Lopez water. In taking State Water for storage, this is preserving the Lopez water levels and helping to extend when the 10,000 AF mark would be reached for the next phase of conserving water.

Member Talley asked for confirmation that there was no State Water in the Reservoir and requested information on what the orange checkered line on the chart was. Ms. Ogren confirmed there was no State Water in the Reservoir and stated the orange line represented the carryover (already allocated water) of the Zone 3 agencies from the LRRP. Member Talley questioned what would

happen if everyone wanted to use their carryover water now. Ms. Ogren stated that this would put the Lopez Reservoir near the minimum pool of 4,000 AF. It will be discussed at the next Zone 3 TAC meeting on what the agencies will do once their carryover water has been utilized. Ms. Ogren stated that since about 4,000 AF is used every year, there is about a year's worth of water left under the assumption that there is no more rain between now and then.

Member Lucey questioned if there were three (3) State Water purveyors in the basin and Ms. Ogren clarified that there were five (5) total. Three (3) are in CSA 12, one (1) in Oceano, and one (1) in Pismo. Member Lucey asked how much of the water was State Water and Member Ogren stated there was 263 AF stored at the time.

No public comment was given.

D. Climate Update - Ms. Montes presented the Climate Update and indicated San Luis Obispo County is still experiencing exceptional drought with above average temperatures.

No public comment was given.

E. Habitat Conservation Plan Update - Ms. Ogren indicated the staff report concerning the Habitat Conservation Plan (HCP). Ms. Ogren reviewed what was discussed in the meeting had taken place with the State Water Resources Control Board in June regarding what was needed to proceed with the water rights permit. During that time, contractors from Zone 3 TAC requested additional modeling for water storage. Ms. Ogren stated the proposal from ECORP had been received and the TAC members reviewed the proposal and provided feedback. ECORP is currently revising their proposal to reflect the changes TAC members suggested.

Ms. Ogren briefed the Advisory Committee on the potential source of funding for the ECORP modeling identified in the recent TAC meeting. Currently about \$100,000 would be needed for the additional modeling and contract changes. The agencies are slated to receive \$162,000 in credit and members from TAC had some suggestions. This item will be brought back to the Advisory Committee with the ECORP final proposal in November, but TAC is recommending using the credits they would get back for the 2015-16 FY for the additional modeling.

No public comment was given.

VI. Capital Projects Update

A. Capital Projects & Recommended Budget Adjustments - Ms. Ogren presented the Zone 3 Capital Projects Bi-Monthly update. Ms. Ogren stated staff is recommending changes to the Capital Outlay funding program to allow

new projects that will address unforeseen operational issues, as well as other smaller critical projects that were approved but need additional funding.

A recent development with the low reservoir water levels has created a high pH levels which effects the hardness of the water. This results in a lot of operational issues at the Lopez Water Treatment Plant (LWTP), such as scaling on all the equipment. As a result, consulting firm, Kennedy Jenks was contacted to look at the problem as they had been involved in a similar issue back in 2008. Kennedy Jenks came up with a report covering temporary and permanent solutions with an estimated cost of \$625,000. The scaling issue requires readjustments of projects that would normally be completed over the course of years, to be done immediately. Some projects have been deferred, other projects have been moved to be done this FY. The net increase is \$280,500 in Capital Outlay. Ms. Ogren indicated the Capital Projects Update and Recommended Budget Adjustment report included in the agenda packet summarizes the rearrangement of projects for Committee approval to fund and keep the LWTP running.

Member Barneich requested clarification on if the specifics will go back to TAC before it goes to the Board of Supervisors as the staff report talks about what is being recommended and if TAC has gone over the report and are aware of the details and exactly what the project entails. Ms. Ogren confirmed that TAC members were all in agreement that the items listed to be completed this year and the form with the projects in the packet were reviewed in detail with the members. Ms. Ogren noted that all the deferred projects will need to be reprioritized for the FY 17/18 Budget and that process will need to take place soon, but TAC members discussed each project in detail and were on board with deferring certain projects.

Member Waage commented that he agreed with TAC and that the scaling issue needs to be addressed.

Member Lee questioned how much would be in the capital reserves if the \$280,500 were allocated. Ms. Hilker stated the allocation would come from the District Funded Dedicated Reserves. The FY 16/17 Dedicated Reserves budget, projected a little over \$1 million as of June 30, 2017. Ms. Hilker referred to a meeting several months ago where the Zone 3 Advisory Committee decided to earmark some of the budget for specific projects. After deducting the four specific projects that were earmarked, \$559,000 would be left. The proposal is to take \$280,000 of the \$559,000 amount.

Chairman Hagemann requested Ms. Hilker touch on what the three reserves for the committee's knowledge. Ms. Hilker reviewed the Contractor Funded Reserves (\$190,000), the District Funded Operating Reserves (\$1.8 million), and the District Funded Designated Reserves (\$1.038 million). Chairman

Hagemann questioned if the District Funded Designated Reserve is setup for replenishment of funds and Ms. Hilker stated the reserve is not setup for replenishment as the Prop 13 funds that are coming into Flood Control Zone 3, per agency contracts, are being spent against the Certificate of Participation (COP) Bond obligation every year. This reduces the amount that is owed by the agencies every year until 2024 when the bond expires.

Chairman Hagemann inquired if this proposal will go to the Board of Supervisors (BOS) for approval. Ms. Ogren confirmed the proposal will need BOS approval due to the large amount of money needed for new projects, as well as the changes that need to be made with existing projects. She indicated she hoped to have the proposal on the BOS agenda in a month for their meeting at the end of October as a Consented Agenda Item.

Vice-Chair Talley inquired if there will be a benefit to this investment after the drought has ended and water levels are back to normal. Ms. Ogren confirmed that this investment will be beneficial in the long term as it will help with reduced maintenance and add an additional water softening processes to keep pH levels balanced.

Member Lee requested clarification on the FY 2016/17 spreadsheet and inquired if the projects being deferred will be pushed back to FY 17/18. Ms. Ogren stated that the deferred projects will be discussed with TAC to decide what will be pushed back a year and what will be re-evaluated as the most important to keep moving forward.

Member Lucey inquired if the “water softener” will work with the membrane strainers as the basin depletes and are the membranes going to hold up to the 4,000 AF when those levels are reached. Ms. Ogren stated that a different mechanism will need to be used once water levels reach 4,000 AF as shutting down the plant is not a viable option. Per the Kennedy Jenks consultant report, the technology being utilized for the water softening issue is not new and many other plants have this technology to help soften their water. There was discussion to install this equipment for the 2007 LWTP upgrade, but due to how expensive it was the decision was made to not go forward with that installation. Based on the report by the consultant, it is believed that the “water softening” option will work as it is non-experimental. Member Lucey questioned on whether there will be an increase in chemical treatment that should be considered and Ms. Ogren stated there will be additional or an increase in chemical treatment. Currently there are two options available, one being a CO2 gas which is not as hazardous as using the citric acid and staff are more comfortable using this option. Member Lucey inquired if there will be an increase in maintenance as far as chemical needs. Ms. Ogren referred to the report the consultant had issued as it outlined the costs for this project, but

information regarding what the increase was unknown at the time. However, maintenance costs will decrease, as well as how often the maintenance will need to take place. This solution will take six to eight months to implement, in the meantime a temporary and quicker solution is being considered to take place in the next month.

Member Lee inquired if there are any grants or other funding sources that may be able to help with the funding of the repairs. Ms. Ogren stated that information is unknown, but will consider any possible options that may help. Any grant options would take a while to process and at this point a quick solution is needed, but any grant funding options will be looked at.

Joshua Roberts, County Public Works Utilities Division Capital Projects Manager, presented the Zone 3 FY 2016/17 Capital Projects Update & Recommended Budget Adjustments. He indicated the 6th Membrane Filtration Rack Addition Project is on hold due primarily to the completion of the pH Suppression Project. Projects currently in process, including: Lopez Turnouts SCADA System Project, Equipment Replacement Program, and Lopez Dam – Repair V-Ditch adjacent to spillway, will continue through completions.

From these projects, a savings of approximately \$119,500 is anticipated and will be used to help fund the pH Suppression Project, Service Membrane Strainer Replacement Project and Programmable Logic Controllers (PLC) upgrades. All three 10-year old membrane strainers will be replaced this year, rather than replacing one membrane strainer a year for the next three years as previously planned for.

Mr. Roberts indicated that the budget adjustments he is seeking approval for are not “additional” funds, but rather funds from: project savings, project deferrals, elimination of contributions to Agency Reserves for current year, and use of District Reserves.

Member Lee motioned to support the proposed budget changes to be presented for final approval to the Board of Supervisors; Member Waage second. No public comment was given. Motion passed.

VII. Action Items - (No Subsequent Board of Supervisors Action Required)

VIII. Action Items - (Board of Supervisors Action is Subsequently Required)

A. Weldon Annexation Request - County Public Works Utilities Division Program Manager and Secretary to Zone 3 Advisory Committee, Andrea Montes, presented the Weldon Annexation Request as an informational item and for possible recommendation(s). The recommendations included:

- 1.) annex Mr. Weldon's land outside of CSA 12 boundary, into Zone 3 as well as CSA 12; or
- 2.) support an "out of zone" delivery of Zone 3 water with only the land annexed into CSA 12 and not Zone 3.

Ms. Montes indicated this request was presented the Zone 3 TAC at the August 11, 2016 TAC Meeting with the same intentions.

Ms. Montes informed the Advisory Committee that in June 2016, County Public Works received a CSA 12 annexation request by the Applicant, Mr. Art Weldon. Per Ms. Montes, in 2015, Mr. Weldon purchased a single legal lot, near Ontario Road, with two (2) Assessor Parcel Numbers (APNs) assigned to it. One APN resides within CSA 12, while the other does not. The APN within the CSA 12 boundary has an allocation of six (6) acre-feet of CSA 12 water.

Ms. Montes explained that when Mr. Weldon spoke with the County Planning and Building Department regarding his desire to subdivide this property, as part of the permitting process, Planning and Building staff directed Mr. Weldon to Public Works to apply for a Will Serve Letter which states the County is willing and able to provide water to the subdivided parcels. Mr. Weldon also desires to sell one (1) acre-foot of CSA 12 water as part of the subdivision.

Ms. Montes indicated the County is unable to issue Mr. Weldon a Will Serve Letter because the APN which currently resides outside of the CSA 12 boundary would first need to be annexed into CSA 12. This would allow Mr. Weldon to utilize the six (6) acre-feet of CSA 12 water throughout the single legal parcel with (2) APNs, and sell one (1) acre-foot of CSA 12 water with the sale of his subdivided property.

Ms. Montes indicated should the Zone 3 Advisory Committee support the annexation process in moving forward, the District would then be able to issue Mr. Weldon a Conditional Intent to Serve Letter, pending approval by the Board of Supervisors of his annexation request. The Conditional Intent to Serve Letter would allow Mr. Weldon to move forward in his sub-development process with County Planning and Building.

Ms. Montes clarified with Member Waage that one (1) acre-foot of water serves one household. She indicated per the San Luis Obispo County Flood Control and Water Conservation District (District) water contracts with CSA 12 water subcontractors, water rights transferred as part of a CSA 12 property sale transaction stay within CSA 12 boundaries and may not be trucked outside District boundaries. She confirmed Mr. Weldon's annexation would require the San Luis Obispo Local Agency Formation Commission (LAFCO) approval.

Member Waage questioned significant buy-in costs on behalf of the Applicant to buy into the Zone 3 system. Ms. Ogren, indicated Mr. Weldon is already

paying these costs as part of his property tax roll whether he utilizes his six (6) acre-feet water allocation or not.

Mr. Weldon indicated to the Committee that he would like to build two (2) homes and a granny unit away from Ontario Road. Vice-Chair Talley suggested this request is outside of the Zone 3 Committee's expertise. Member Barneich and Member Waage expressed discomfort with the annexation request setting a precedent during a water crisis by encouraging others to use more than their water allocation and having a larger impact on the water supply.

Member Lucey expressed discomfort with increasing the size of CSA 12 through Mr. Weldon's property annexation. Vice-Chair Talley motioned to "provide no recommendation to the Board of Supervisors"; Member Lucey second. No public comment was given. Motion passed.

Ms. Montes indicated she would include the Committee's discussion and motion in the Board of Supervisors Staff Report.

Castaneda Easement Request - County Public Works Utilities Division Capital Projects Manager, Joshua Roberts, presented the Castaneda Easement Request. He indicated this request was presented to the August 11, 2016 Zone 3 TAC, who expressed support in moving the request forward and recommended District staff and the Zone 3 Advisory Committee stay involved through the development of the agreement and land use process.

Mr. Roberts asked for the Committee's feedback and indicated the Committee could take the following actions:

- 1.) support the process moving forward;
- 2.) not support the process in moving forward;
- 3.) ask the item be continued; or
- 4.) motion to "make no recommendation" to the Board of Supervisors.

Mr. Roberts informed the Advisory Committee of the Applicant, Mr. Carlos Castaneda's request for an easement through District Zone 3's property to access his "land locked" parcel, which has no legal access. Mr. Roberts described Mr. Castaneda's parcel as lying entirely within the Lopez watershed. The proposed easement would follow Chanterelle Lane for about 1,000 feet, then continue westward towards Mr. Castaneda's northern property line.

Mr. Roberts indicated there is no knowledge of any historical agriculture on the parcel, nor prior legal access through Zone 3 to the parcel. In addition, he was unaware if Mr. Castaneda asked his neighbors for access to his property through theirs, or if the property had any water rights. Member Lucey expressed concern over the proximity of the proposed easement to the Lopez Lake.

Carol Florence, Principal / Planner with Oasis Associates of San Luis Obispo represented Mr. Castaneda. She indicated they are requesting an access easement through Flood Control Zone 3 to access Mr. Castaneda's property for farming purposes and perhaps a house.

Ms. Florence indicated Mr. Castaneda asked for property access through a neighboring property with no success and further indicated former County Supervisor, Caren Ray, attempted to contact Castaneda's neighbors to discuss an easement to his property, but received no response.

Ms. Florence asked the Committee for a recommendation to continue exploring an easement to Mr. Castaneda's property.

Chairman Hagemann acknowledged the Committee did not have the authority to stop Mr. Castaneda's easement request process and indicated his focus was on potential impacts to the water quality of the lake and how the easement and/or land use above the watershed would affect the lake.

Member Lee expressed support in moving to the next step in Mr. Castaneda's easement request, with respect to first exhausting conversations with neighbors for a private easement and maintaining water quality. Although he would be supportive of Mr. Castaneda's property being annexed into Flood Control Zone 3, Member Lee would not support Zone 3 providing water service to the property.

Ken Klis, a neighboring property owner of Mr. Castaneda's property, stated he was representing himself, as well as two other neighboring property owners near Mr. Castaneda's property. He asked the Committee to not support Mr. Castaneda's easement request due to environmental impacts.

Mr. Morrison, an adjacent property owner of Mr. Castaneda's property, indicated he had not been contacted by Mr. Castaneda for an easement through his property. Mr. Morrison indicated he's lived in the area for thirty (30) years and expressed concern over potential development affecting wildlife, erosion and water well levels. Mr. Morrison asked the Committee to resolve the issue by putting it to a vote.

Member Waage indicated he was focused on the impact of the watershed and how it would affect the City of Pismo Beach whom he represents and did not see benefit in the easement to the District.

Vice-Chair Talley recused himself due to a business relationship with Mr. Castaneda.

Member Barneich indicated it was difficult to decide due to unknowns of the property and the Applicant's intentions and could not make an informed vote.

She expressed interest in seeing what County Counsel could do in regards to granting an easement to Mr. Casteneda.

Member Lucey, indicated she was focused on future consequences of allowing Mr. Casteneda's easement and felt the risk to water was greater than the benefits and expressed opposition to the easement request.

Member Lee expressed support in moving the easement request forward to County Counsel to see how County Counsel would address the protection of the watershed.

Member Waage and fellow Committee Members expressed opposition to agriculture use in the watershed.

No formal action to the Board of Supervisors was motioned by the Committee.

No further public comment was given.

IX. Future Agenda Items -

X. Committee Member Comments – No Committee Member comments were given. Meeting adjourned at 9:29 PM.

Next Regularly Scheduled Meeting Next Regular Meeting is Tentatively Scheduled for Thursday, January 19, 2017 at 6:30 PM at City of Grover Beach.

Respectfully Submitted,

Andrea M Montes
County of San Luis Obispo Public Works Department

**SAN LUIS OBISPO COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
ZONE 3 ADVISORY AND TECHNICAL ADVISORY COMMITTEES**

2017 MEETING SCHEDULE

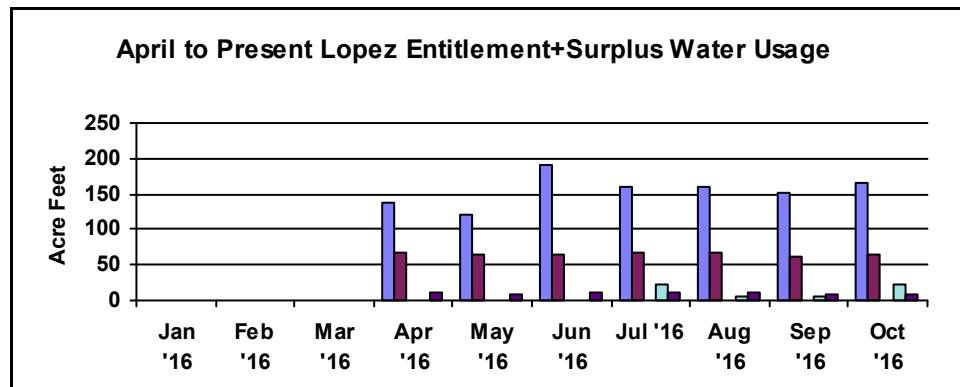
Date	Group	Location¹	Purpose
Jan 5, 2017	TAC ²	Arroyo Grande, 9:00 AM	Discuss anticipated budget items
Jan 19, 2017	Advisory Committee	Grover Beach, 6:30 PM	Distribute proposed FY16/17 budget;
Feb 2, 2017	TAC	Arroyo Grande, 9:00 AM	
Mar 2, 2017	TAC	Arroyo Grande, 9:00 AM	Budget discussion/ recommendation; proposed surplus water amount
Mar 16, 2017	Advisory Committee	Oceano CSD, 6:30 PM	Present 2 nd quarter FY 15/16 budget status; Present proposed FY16/17 budget; endorse FY16/17 budget; declaration of surplus water
Apr 6, 2017	TAC	Arroyo Grande, 9:00 AM	
May 4, 2017	TAC	Arroyo Grande, 9:00 AM	
May 18, 2017	Advisory Committee	Pismo Beach, 6:30 PM	3 rd Quarter Budget Status
Jun 1, 2017	TAC	Arroyo Grande, 9:00 AM	
Jul 6, 2017	TAC	Arroyo Grande, 9:00 AM	
Jul 20, 2017	Advisory Committee	Oceano CSD, 6:30 PM	Officer Rotations
Aug 3, 2017	TAC	Arroyo Grande, 9:00AM	
Sep 7, 2017	TAC	Arroyo Grande, 9:00 AM	Request Water Delivery Schedule - due Oct 1
Sep 21, 2017	Advisory Committee	Grover Beach, 6:30 PM	4 th Quarter Budget Status
Oct 5, 2017	TAC	Arroyo Grande, 9:00 AM	
Nov 2, 2017	TAC	Arroyo Grande, 9:00 AM	
Nov 16, 2017	Advisory Committee	Pismo Beach, 6:30 PM	1 st Quarter Budget Status
Dec 7, 2017	TAC	Arroyo Grande, 9:00 AM	Distribute Water Delivery Schedule by Jan 1

¹ All locations noted are at City Hall or District Board chambers unless otherwise noted

² TAC - Technical Advisory Committee

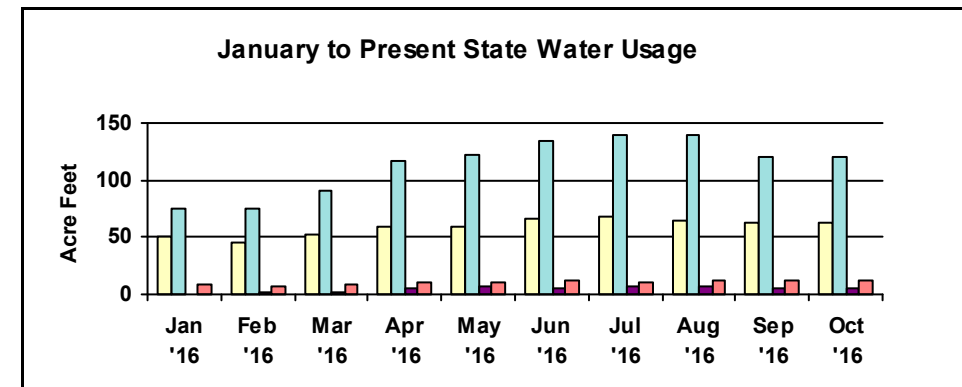
San Luis Obispo County Flood Control and Water District Zone 3 - Lopez Project - Monthly Operations Report October, 2016

Contractor	Lopez Water Deliveries												State Water Deliveries							Total Water Deliveries This Month		
	Entl.	Surplus	Total	This Month				April to Present				Annual Request	This Month				January to Present					
				Entitlement		Surplus		Entitlement		Surplus			Usage	% of Annual Request	SWP Deliveries	Change in Storage	Usage	% of Annual Request	SWP Deliveries			
				Usage	%	Usage	%	Usage	%	Usage	%											
Arroyo Grand	2061	936.60	2997.60	164.79	8.0%	0.00	0.0%	1087.24	52.8%	0.00	0.0%	1087.24	36.3%					591.13	260.4%		164.79	
Oceano CSD	272.7	713.10	985.80	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	227	62.93	27.7%					62.93	
Grover Beach	720	307.90	1027.90	64.34	8.9%	0.00	0.0%	456.11	63.3%	0.00	0.0%	456.11	44.4%								64.34	
Pismo Beach	802.8	1227.60	2030.40	22.11	2.8%	0.00	0.0%	55.33	6.9%	0.00	0.0%	55.33	2.7%	1120	120.00	10.7%					142.11	
CSA 12	220.5	390.20	610.70	7.68	3.5%	0.00	0.0%	68.56	31.1%	0.00	0.0%	68.56	11.2%	27	5.58	20.7%					13.26	
San Miguelito														127	12.81	10.1%					12.81	
Total	4077	3575.40	7652.40	258.92	6.4%	0.00	0.0%	1667.24	40.9%	0.00	0.0%	1667.24	21.8%	1501	201.32	13.4%	259	57.68	1877.16	125.1%	2211.00	460.24
												Last Month Stored State Water		288.59			This Month Stored State Water			346.27		



Note: Deliveries are in acre feet. One acre foot = 325, 850 gallons or 43, 560 cubic feet. Safe yield is 8,730 acre feet.

Lopez Dam Operations	This Month	Year to Date		
Lake Elevation (full at 522.37 feet)	458.98		Difference (feet)	-63.39
Storage (full at 49200 acre feet)	11410		% Full	23.2%
Rainfall	2.77	2.77		
Downstream Release (4200 acre feet/year)	309.53	2119.24		
Spillage (acre feet)	0	0.00		



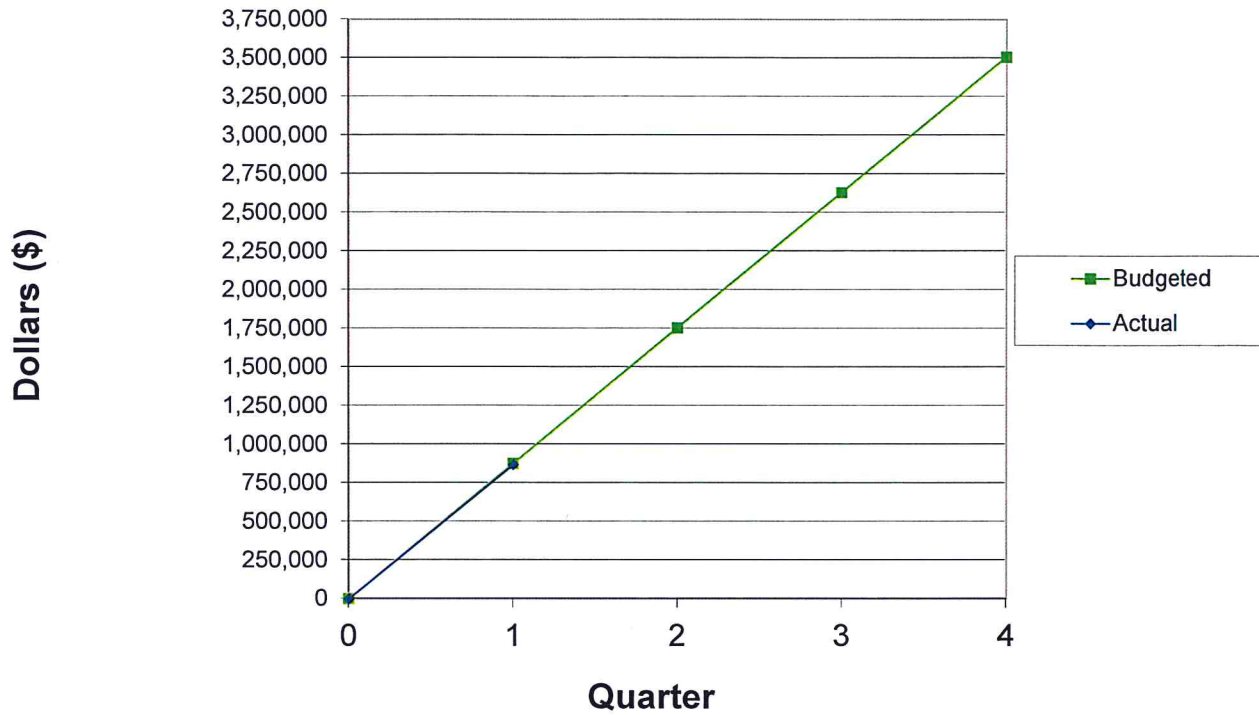
"Year to Date" is January to present for State water, April to present for Lopez deliveries, and July to present for rainfall.

Comments: Reservoir is currently operated under the Low Reservoir Response Plan, therefore Entitlements shown represent a 10% reduction.

Surplus water shown is actually "Carry Over" water as designated in the LRRP and updated per BOS May 10, 2016 Declaration of Surplus.

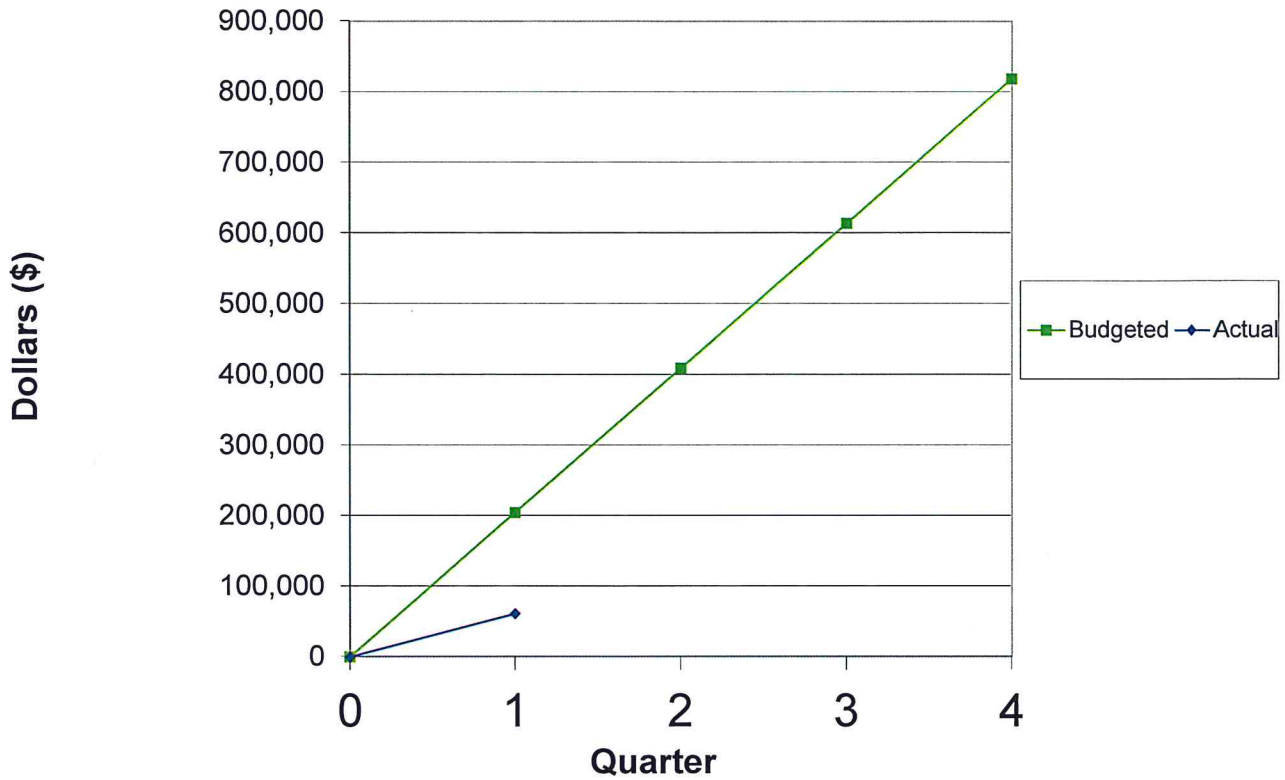
1) Oceano supplied State Water to Canyon Crest via Arroyo Grande's Edna turn out. A total of 2.03 AF delivered to Canyon Crest was added to Oceano's State Water usage this month

Routine Operation and Maintenance

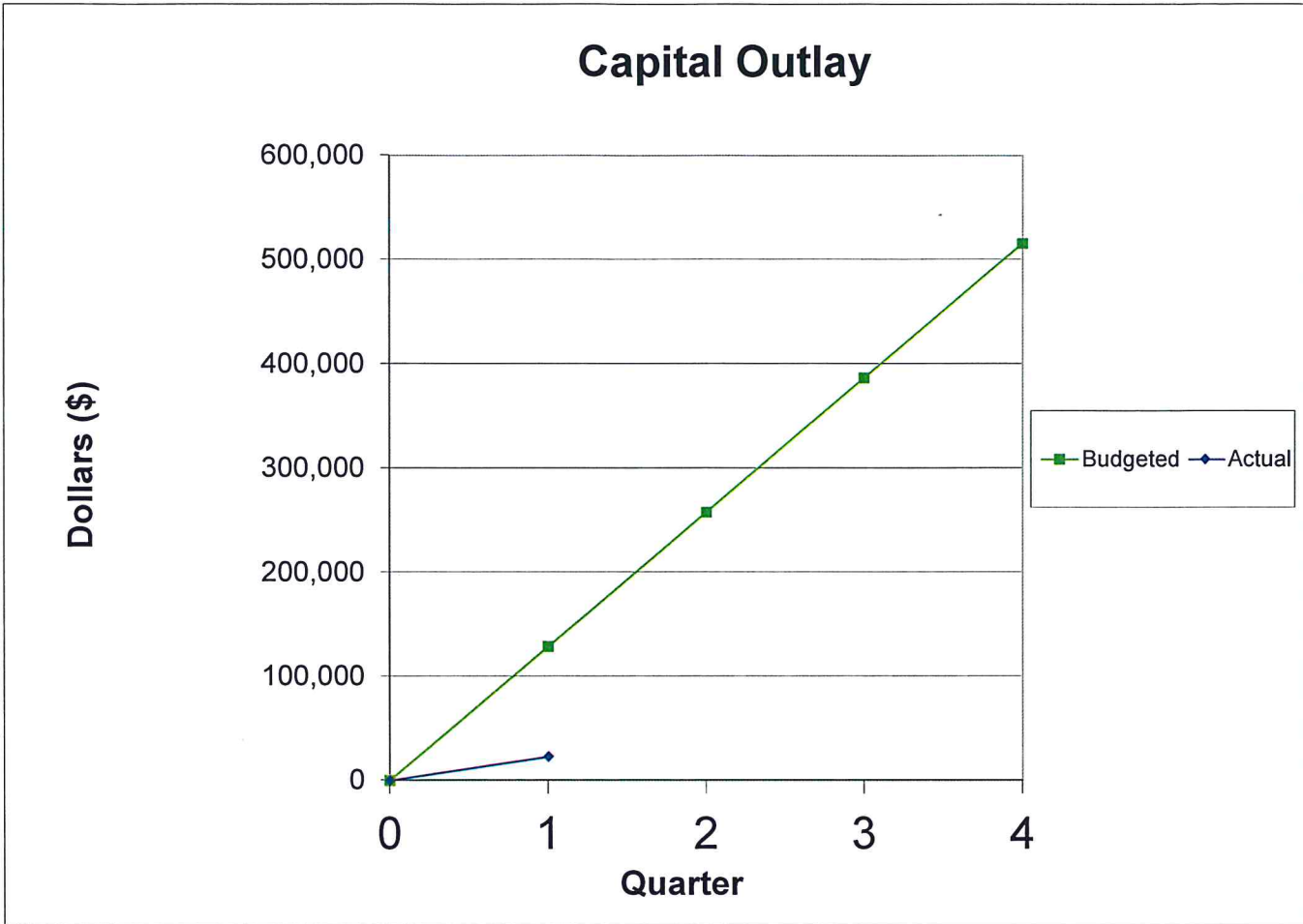


O&M Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Labor and Overhead	2,163,673	521,823	-	-	-	521,823	24%	1,641,849
Chemicals - Water Treatment Plant	306,952	73,341	-	-	-	73,341	24%	233,611
Utilities - Water Treatment Plant	172,875	50,665	-	-	-	50,665	29%	122,210
Vendors - Water Treatment Plant	253,355	114,267	-	-	-	114,267	45%	139,088
Terminal	83,826	21,416	-	-	-	21,416	26%	62,410
Main Dam	108,384	56,504	-	-	-	56,504	52%	51,880
Other	417,098	35,936	-	-	-	35,936	9%	381,161
Expenses		873,953	-	-	-	873,953	25%	2,632,209
Budget	3,506,162	876,540	876,540	876,540	876,540	3,506,162		
Variance (over)/under		2,588	876,540	876,540	876,540	2,632,209		
% Variance		0%	100%	100%	100%			

Non-Routine Operation and Maintenance



O&M Non Routine Category	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Labor and Overhead	121,813	29,291	-	-	-	29,291	24%	92,522
Lopez Water Rights IHCP	212,818	2,482	-	-	-	2,482	1%	210,336
Cathodic Protection Maint	154,172	-	-	-	-	-	0%	154,172
Terminal Resvr Intake Repair	28,953	38,673	-	-	-	38,673	134%	(9,720)
Dam Intake Fac & Ops Assessment	25,000	-	-	-	-	-	0%	25,000
Structural Assessment Term Resv Dam	50,000	-	-	-	-	-	0%	50,000
Equip Storage Garage Design	15,000	-	-	-	-	-	0%	15,000
Meadow Creek Diversion Channel	6,946	(9,768)	-	-	-	(9,768)	-141%	16,714
Pressure Tansducers	35,000	-	-	-	-	-	0%	35,000
Pigging-Unit B	117,195	-	-	-	-	-	0%	117,195
PLC Replacement & Programming	19,227	12	-	-	-	12	0%	19,215
Other	32,353	585	-	-	-	585	2%	31,768
Expenses		61,275	-	-	-	61,275	7%	757,202
Budget	818,477	204,619	204,619	204,619	204,619	818,477		
Variance (over)/under		143,344	204,619	204,619	204,619	757,202		
% Variance		70%	100%	100%	100%			



Capital Outlay Projects	Total Budget	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	Total	Total Exp as % of Budget	Total Balance Avail
Lopez Turnouts SCADA System	115,367	14,633	-	-	-	14,633	13%	100,734
WTP 6th Membrane Filtration Module Addit	30,403	1,405	-	-	-	1,405	5%	28,998
VFD Replacement Project	9,188	174	-	-	-	174	2%	9,014
Power Monitoring Project	26,175	3,278	-	-	-	3,278	13%	22,897
Lopez Dam Repair V-Ditch Adjacent to Spi	45,629	3,023	-	-	-	3,023	7%	42,606
WTP Resurface Parking Lot	76,646	421	-	-	-	421	1%	76,225
Improved Boat Access at Term Resv	50,000	-	-	-	-	-	0%	50,000
Ammonia Analyzer Equip Repl	30,000	-	-	-	-	-	0%	30,000
Service Membrane Stainer(s)	40,000	-	-	-	-	-	0%	40,000
Capital Equipment								
Coagulant Feed Alarm System	25,000	-	-	-	-	-	0%	25,000
Water Purify System Milli-Q Double DI	14,000	-	-	-	-	-	0%	14,000
Water Treatment Barge	28,000	-	-	-	-	-	0%	28,000
Various (as needed)	25,000	-	-	-	-	-	0%	25,000
Expenses		22,934	-	-	-	22,934	4%	492,474
Budget	515,408	128,852	128,852	128,852	128,852	515,408		
Variance (over)/under		105,918	128,852	128,852	128,852	492,474		
% Variance		82%	100%	100%	100%			



SAN LUIS OBISPO COUNTY
DEPARTMENT OF PUBLIC WORKS

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November 17, 2016

MEMORANDUM

TO: Flood Control Zone 3 Advisory Committee

FROM: Kristi Smith, Accountant

VIA: Andrea Montes, Public Works Department Administrator

SUBJECT: Flood Control Zone 3, First Quarter Budget Status Fiscal Year 2016/17

Recommendation

The item to be received and filed.

Summary

Attached please find the first quarter budget versus actual results for the fiscal year 2016/17. The \$4.8 million-dollar budget is broken into three categories: Routine O&M expenditures (\$3.5 million), Non-Routine O&M expenditures (\$818,000), and Capital Outlay expenditures (\$515,000). For the three months that comprised the first quarter, expenditures were under the quarterly budget by \$252,000. At 25% of the fiscal year, expenditures totaled approximately 20% of the annual budget.

Total Budget	Expenses through Q1	Balance Available	% of Budget Expended
4,840,048	958,162	3,881,886	20%

Routine O&M annual budget is approximately \$3.5 million dollars. At 25% of the fiscal year, expenditures were 25% of the total budget, which results in approximately \$2.6 million dollars of available balance for the remainder of the year.

Total Budget	Expenses through Q1	Balance Available	% of Budget Expended
3,506,162	873,953	2,632,209	25%

Expenditures for the first quarter are on target with budgeted levels in this area.

Non Routine O&M annual budget is approximately \$818,000 dollars. At 25% of the fiscal year, expenditures were approximately 7% of the total budget, which results in approximately \$757,000 dollars of available balance for the remainder of the year.

Total Budget	Expenses through Q1	Balance Available	% of Budget Expended
818,477	61,275	757,202	7%

The majority of the balance available in this category (\$214,000) is due to the Lopez Water Rights/Habitat Conservation Plan (HCP). HCP efforts have been delayed pending possible Zone 3 municipal contract changes that could impact the modeling and draft downstream release program that ECORP developed in coordination with H.T. Harvey. Once the contract issue is resolved, work can move forward with modeling efforts and the District can re-engage regulatory agencies in permit requirement discussions. HCP efforts will continue into fiscal year 2016/17.

Capital Outlay annual budget is approximately \$515,000 dollars. At 25% of the fiscal year, expenditures were approximately 4% of the total budget, which results in approximately \$492,000 dollars of available balance for the remainder of the year.

Total Budget	Expenses through Q1	Balance Available	% of Budget Expended
515,408	22,934	492,474	4%

Other Agency Involvement/Impact

The agencies involved are: City of Arroyo Grande, City of Grover Beach, City of Pismo Beach, Oceano Community Services District, and County Service Area 12. Subcontractors of CSA 12 include Port San Luis Harbor District and Avila Beach Community Services District.

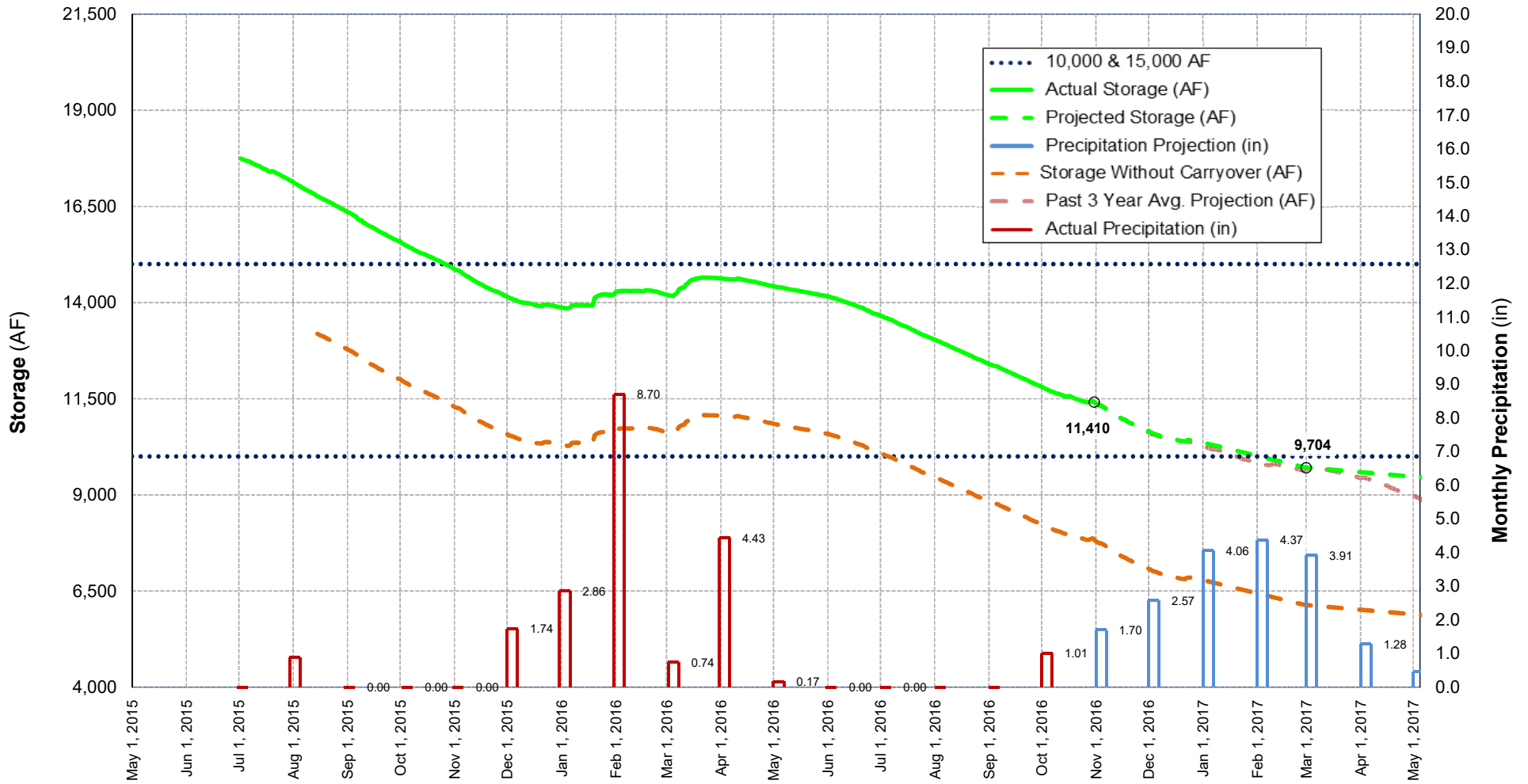
Financial Consideration

All agencies are current on their payments. The revised billing for FY 2015-16 will be reflected on the invoices due January 1, 2017.

Lopez Reservoir Storage Projections

(precipitation scenario source: www.LongRangeWeather.com)

Revised: 10/31/2016

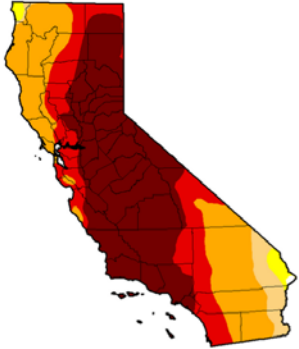


Notes:

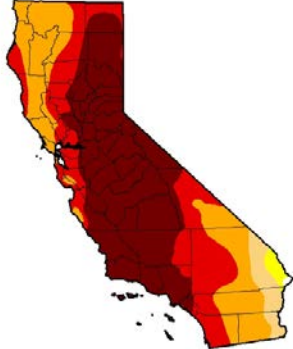
- For "Dry Months" (April - October), projected increases and/or decreases in storage estimated to mimic conditions from 2015.
- For "Wet Months" (November - March), projected storage declines assume LRRP annual downstream release of 3,800 AFY and deliveries of 4,077 AFY.
- For "Wet Months", projected storage increases based on historic trends from actual storm data for the period of 12/1993 through 6/2011.
- Storage projection for "Wet Months" assume that unsaturated conditions exist.
- Rainfall projection provided by www.LongRangeWeather.com, and updated 7/5/2016. Evaporation included in storage projection.
- Past 3 Year Avg. Projection uses historic daily capacity changes averaged from 2013, 2014, 2015

U.S. DROUGHT MONITOR

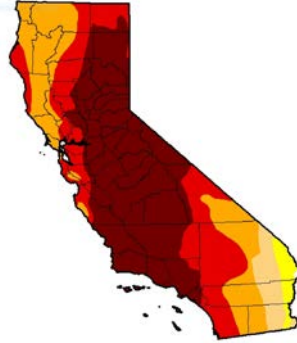
May 2015



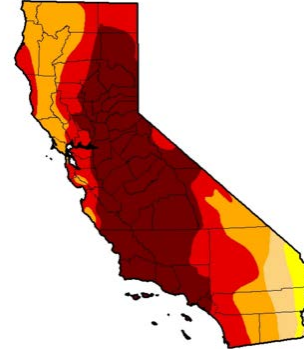
July 2015



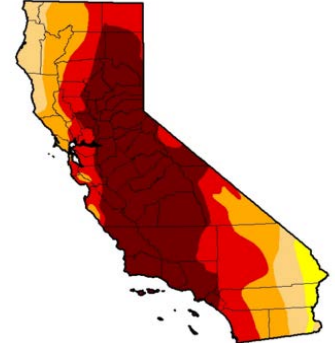
September 2015



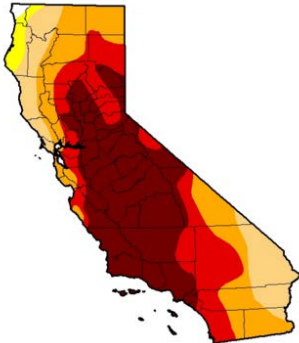
November 2015



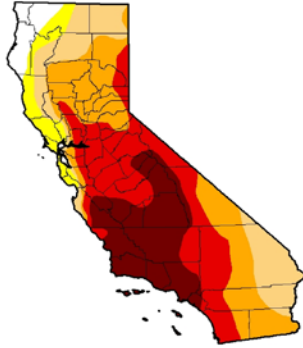
January 2016



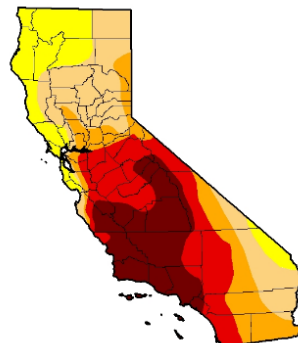
March 2016



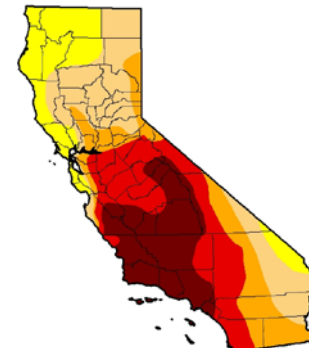
May 2016



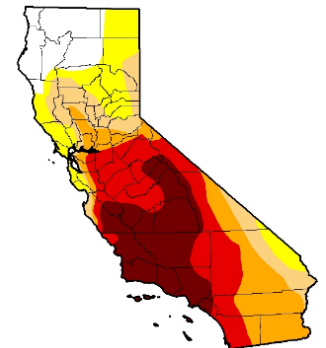
July 2016



September 2016



November 2016



Intensity:

- D0 - Abnormally Dry
- D1 - Moderate Drought
- D2 - Severe Drought

- D3 - Extreme Drought
- D4 - Exceptional Drought

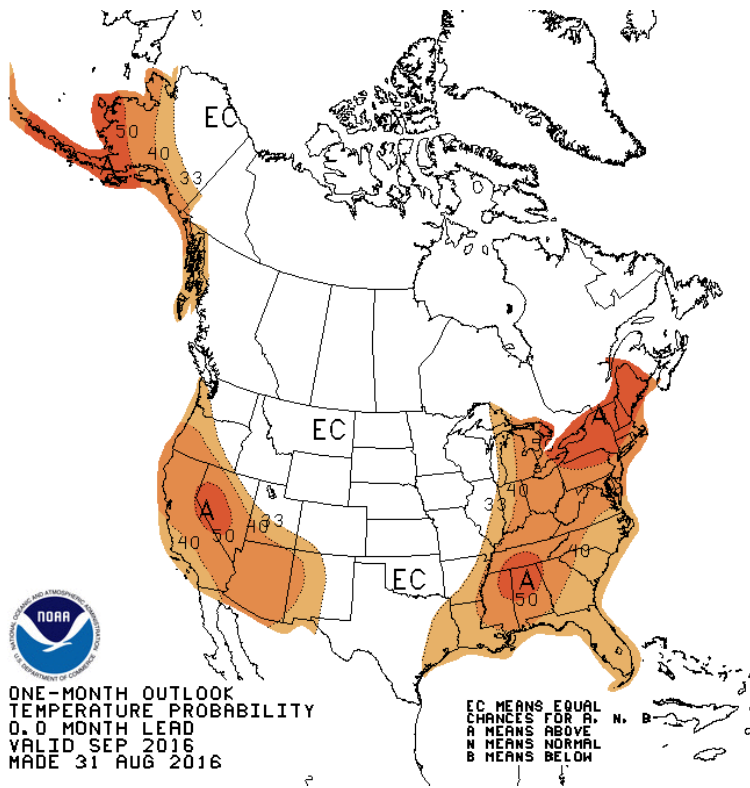
Permission to reproduce the map

If you reproduce the U.S. Drought Monitor map, please use this wording:

The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC-UNL.

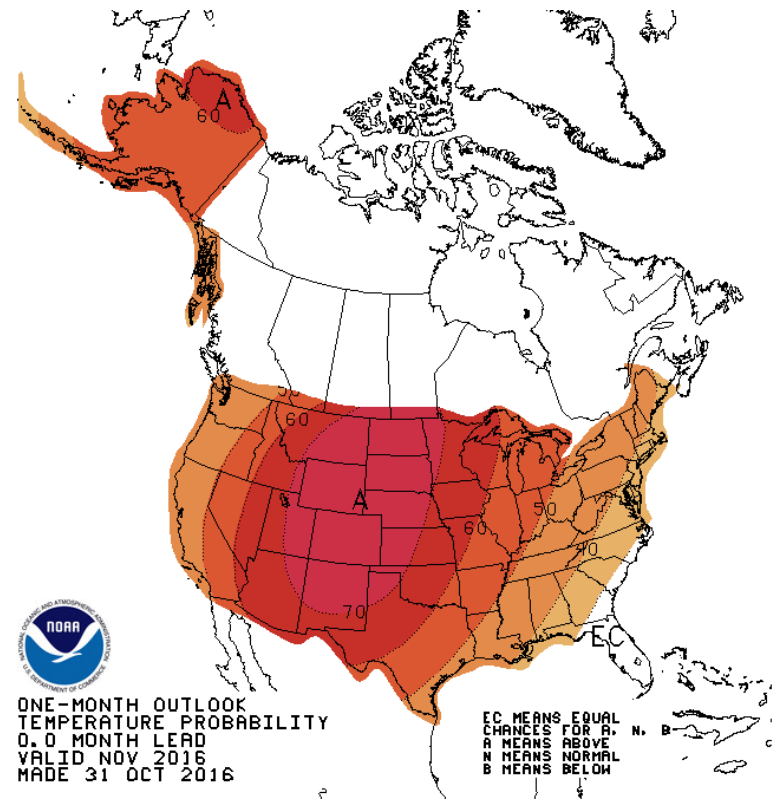
NOAA TEMPERATURE FORECAST

September



September Meeting

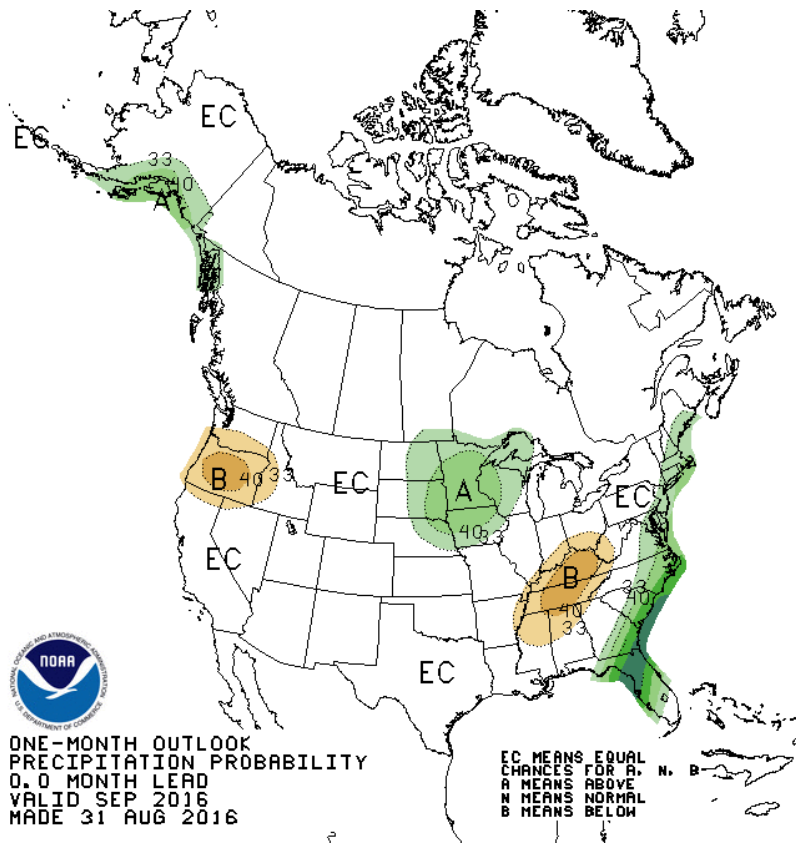
November



November Meeting

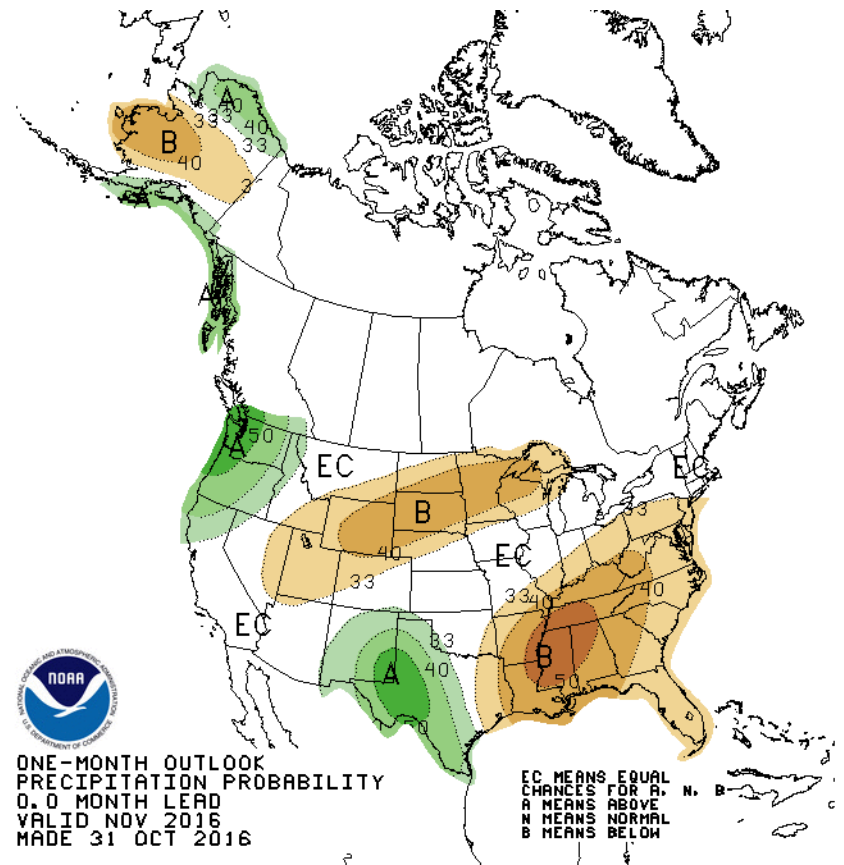
NOAA PRECIPITATION FORECAST

September



September Meeting

November



November Meeting



SAN LUIS OBISPO COUNTY
DEPARTMENT OF PUBLIC WORKS

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November 17, 2016

MEMORANDUM

TO: Flood Control Zone 3 Advisory Committee

FROM: Jill Ogren, Utilities Senior Engineer *J.O.*

SUBJECT: Carpenter Creek Drainage Project - Completed

DISCUSSION

The purpose of today's report is to update you on the recent completion of a project that was funded by Zone 3. On January 21, 2016 the Zone 3 Advisory committee voted to recommend using \$30,000 of Zone 3 District reserves to fund a project on Carpenter Creek at the confluence with Meadow Creek that would improve the flow of water to its outlet at Pismo Beach thereby helping to mitigate recurring flooding at the Oceano Lagoon.

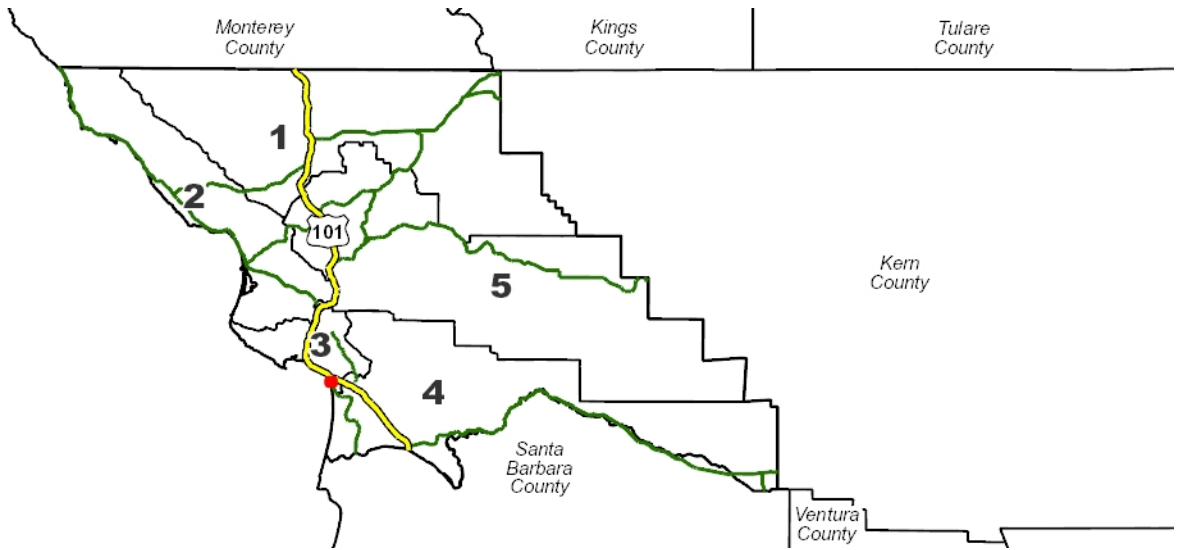
Project Description (as taken from the Jan 16th staff report)

Meadow Creek begins in the northerly reaches of the five cities area before it flows parallel with State Route 1 to its terminus at the Oceano lagoon. Several decades ago, a diversion channel was constructed along the southerly line of the Pismo Beach State Park campgrounds at the northwesterly corner of the City of Grover Beach to provide an alternative course for high flows to reach the ocean and avoid sending high flow volumes into Oceano lagoon. The channel is known locally as Carpenter Creek. However, Carpenter Creek is impeded by a trail crossing through the flow way which restricts flows and the ability for the stream to reach the ocean. The project will replace the trail crossing with a new culvert or bridge structure that will allow more of Meadow Creek flows to flow down Carpenter Creek to the Ocean, rather than southward, parallel to Highway 1, under Grand Avenue, and eventually into the Oceano Lagoon. The intent is to divert peak flows to help reduce the potential for flooding in the neighborhoods adjacent to the Lagoon.

The completed project resulted in a new pedestrian footbridge across Carpenter Creek that enhances the flow of water to Pismo Beach by reducing the restrictions that were previously in place. The project was built by County Public Works Major Maintenance Crews at a cost of approximately \$27,500. The attached photos represent "before" and "after" the project.

Attachments:

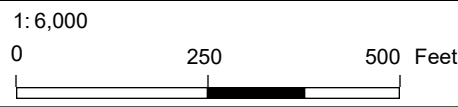
Vicinity Map
Site Photo's



VICINITY MAP

Meadow Creek Diversion Channel Improvement

COUNTY OF SAN LUIS OBISPO PUBLIC WORKS & TRANSPORTATION DEPARTMENT



Created by: Matt Reinhart
Printed: 12/16/2015



Carpenter Creek Footbridge



Before



AFTER



SAN LUIS OBISPO COUNTY
DEPARTMENT OF PUBLIC WORKS

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November 17, 2016

MEMORANDUM

TO: Flood Control Zone 3 Advisory Committee

FROM: Jill Ogren, Utilities Senior Engineer *J.O.*

SUBJECT: Modeling of Potential Water Supply Contract Changes – Funding of ECORPS Contract Addendum

RECOMMENDATION

It is recommended that the ECORPS Modeling Contract Addendum for \$113, 545 be approved and funded utilizing a proportionate share of Agency credits from fiscal year 15-16.

DISCUSSION

ECORPS was contracted to provide modeling to support the Habitat Conservation Plan, specifically to develop a baseline model that represents how the reservoir is currently operated and then to develop potential downstream release programs. The baseline model and a downstream release plan were developed and presented to the Technical Advisory Committee (TAC). Feedback provided by the TAC indicated that potential changes to the Zone 3 agencies' water supply contracts that were being considered could result in revisions to the modeling that ECORP had done for the Downstream Release Program.

In order to provide more information about the interplay between the water supply contracts and HCP efforts, a scope and cost estimate was requested from ECORP to research similar reservoirs with storage models and produce two or three concepts for contracts, ideas for appropriate limits on storage for contracts, and possibly modeling a short list of contract concepts. The modeling would provide each contractor with a picture of how the proposed contract changes would impact their water supply over time. The scope and cost estimate was presented to the TAC during their July 7, 2016 meeting for review and comment. Subsequently, revisions to the scope of work have been made and reviewed by the TAC (See attached ECORPS proposal). TAC recommends moving forward with the proposed scope of work and cost estimate of \$113, 545 as well as funding the efforts using agency credits.

Funding

At the end of each fiscal year, the Zone 3 budget is trued up, to compare what was billed based on the budget versus what was actually spent. If costs are lower than what was budgeted, agencies are provided a proportional credit. This year's total credit from FY 15-16 is \$171,077.99. It is recommended by staff and the TAC to use a portion of this credit to fund the ECORPS

modeling. The attached table shows the breakdown of costs and remaining credit to each agency if this action is approved.

Attachments:

Table of Agency Credit breakdown

ECORPS modeling proposal

Zone 3 - Proportionate share of cost for ECORP modeling contract

Estimated cost of ECORP contract = \$113,545

	Arroyo Grande	Grover Beach	Pismo Beach	CSA 12	Oceano CSD	Other State Water Users	Totals
Contract % of Water Supply	50.55%	17.66%	17.66%	7.44%	6.69%		100.00%
15/16 Final Credit/(Billing):	101,711.80	33,939.33	36,117.89	(16,923.92)	13,089.39	3,143.50	171,077.99
Allocation of ECORP contract cost:	(57,397.00)	(20,052.05)	(20,052.05)	(8,447.75)	(7,596.16)	-	(113,545.00)
Credit Memo/(Bill) to be issued:	44,314.80	13,887.28	16,065.84	(25,371.67)	5,493.23	3,143.50	57,532.99



MEMORANDUM

TO: Katie Drexhage, San Luis Obispo Flood Control & Water Conservation District

CC: Mark Hutchinson and Jill Ogren

FROM: Michael Preszler

DATE: 19 September 2016

RE: *San Luis Obispo County Water Supply Evaluation Work Plan*

Work Plan

ECORP Consulting, Inc. (ECORP) will initiate the San Luis Obispo County Water Supply Evaluation to support Zone 3 of the San Luis Obispo Flood Control & Water Conservation District (District) by carrying out the tasks described below. This scope of work and accompanying cost proposal is in response to the District's request on behalf of agencies that contract with Zone 3 for water supplies from the Lopez Project. The Scope of Work and Cost Proposal is based on our developed understanding of water supply assets in the Arroyo Grande Creek watershed, directions provided by the District, our professional assessment of the most effective approach based on our experience, and our existing work on developing a habitat conservation plan for Arroyo Grande creek. We have thoroughly considered many critical issues associated with this project and have integrated that understanding into our proposed comprehensive analysis for this work effort.

The fundamental objective of the evaluation described here is to identify potential opportunities to modify Lopez Water Project operational provisions to establish storage rights for Zone 3 Contracting Agencies that obtain supplies from the Lopez Project, which will help ensure multi-year water resource planning, in contrast to the historical/existing contracts which encourage a "use it or lose it" annual approach to water resource planning. Water supply improvements could include increased reliability, certainty, and delivery. Potential options will be determined based on review of past studies, discussions with District staff and representatives from the Zone 3 Contracting Agencies, and by employing an over-arching consideration of dependent elements including, existing and potential project operational flexibility, contracts, demands, water rights, hydrology, etc. as well as potential future threats to water supply reliability such as increased regulatory constraints and climate change.

Task 1.0 Program Oversight and Coordination

The ECORP Project Manager will, over the duration of the project, undertake ongoing management and oversight of all project activities. This will require detailed coordination with

the project team, the District, and representatives of the Zone 3 Contracting Agencies. Activities under this task are assumed to include; schedule development and review, progress monitoring, technical collaboration, personnel/staff planning, budgetary oversight, and ongoing liaison with the District and the other agencies.

The Project Manager and key project team members will prepare for and attend a project kick-off meeting with the District and representatives of the Zone 3 Contracting Agencies. This meeting is intended to officially initiate the project and will address matters such as; project approach, key project issues, preliminary project schedule, immediate activities, lines of communication/reporting, key milestones, confidentiality, and contract administration.

Over the duration of the project assignment, the Project Manager and key staff will prepare for and attend up to two (2) two-hour coordination meetings with the District and representatives of the Zone 3 Contracting Agencies. These meetings would be scheduled to provide a forum for discussion on topics including, but not necessarily limited to the project approach, status, key findings, project definition, and project technical evaluation. These would be informal ad hoc meetings, and scheduled as specific needs arise.

ECORP will perform quality assurance/quality control reviews of technical memos, technical reports, and major work projects. The Project Manager will perform QA/QC reviews of all deliverables.

The Project Manager will prepare progress reports for submittal to the District and the Zone 3 Contracting Agencies. These reports will capture the activities of the project team. They will include summaries of meetings, technical progress, status of work effort, and a summary of anticipated activities.

Task 1.0 Deliverables: Meeting agendas, meeting notes, and project progress reports.

Task 2.0 Develop Basic Information and Project Approach

ECORP is familiar with hydrologic and operational aspects of the Lopez Water Project through previous work efforts. This task is for ECORP to review information including existing water contracts, water demand projections, and additional pertinent information deemed necessary to inform development of the project approach. Similar projects with multiple demand accounting utilizing storage will be reviewed and elements considered for inclusion in this analysis. This task includes development of a project approach needed to assure results of the technical evaluation will support the goals and objectives of the District and the Zone 3 Contracting Agencies. This task includes working with the District and the agencies to fully develop over-arching project objectives. Representative scenarios to quantify water supply availability under three (3) alternative scenarios that reflect differing storage rights for the Zone 3 Contracting Agencies will be determined based on water availability (storage volume, hydrology conditions, acceptable curtailments, etc.). The 2014/15 Water Supply Production and Delivery Plan will be reviewed and used to assured all aspects of the system are simulated appropriately. This task also includes updating the hydrologic record by extending the study period through 2015 to incorporate this critically dry condition.

Task 3.0 Technical Evaluation

As part of the Lopez Water Project Habitat Conservation Plan work effort, ECORP developed an operational simulation model of the District's Zone 3. The work effort described by this proposal is to use the model to evaluate each Zone 3 contractor's allocation based on contract concepts developed in Task 2. Based on our experience, we feel that all contract concepts should be thoroughly evaluated to identify advantages and any unanticipated impacts to contractor water availability through a full range of anticipated hydrologic conditions. The simulation model will be utilized and expanded as required to investigate system constraints and opportunities to determine effects of alternative operational scenarios to best meet the goals and objects of this effort. This simulation model of the Lopez Water Project will be used to evaluate storage scenarios developed under Task 2.0. The simulation model will be used to determine each Zone 3 contractor's water supply allocation under differing contract storage concepts. This will allow definition of how each Zone 3 contractor is affected by potential modifications to contracts terms.

Task 4.0 Develop Recommendations

A purpose of this evaluation is to identify feasible modifications to the Lopez Water Project operation that would result in an increased and more reliable water supply under new contract storage scenarios. Ultimately, we will identify suggested modifications to water supply contracts and operating policy. Our goal is to provide the District and Zone 3 Contracting Agencies with an informed evaluation aimed at maximizing water available to meet demand and reliability to the system. Project operational scenarios and associated operational strategies will be considered to meet these objectives. Recommendations for project operation that could be implemented and/or warrant additional evaluation will be developed. Recommendations will include detailed operational strategies and expected results of each project operational scenario.

Task 5.0 Prepare Draft and Final Memorandum

ECORP will summarize the approach, methodology and findings of this evaluation into a technical memorandum. A draft memorandum will be prepared and submitted in Microsoft Word format to the District for review with the Zone 3 Contracting Agencies. Comments received on the draft memorandum will be incorporated into the final memorandum. The final memorandum will be provided to the District in .PDF format. All tables, charts, graphs and supporting data will be provided in original file format.

Task 5.0 Deliverables: One (1) copy of the Draft Memorandum in Microsoft Word format and one (1) electronic copy of the Final Memorandum in .PDF format.

Task 6.0 Zone 3 Coordination

It is assumed that ECORP will participate in three (3) Zone 3 meetings to be held in association with this work effort. The first meeting will be held after review of basic information and development of the project approach (Task 2.0). This meeting is to present over-arching goals and objectives of this effort and to solicit input in a timely manner to be included in the study. The second meeting will be held once significant information has been developed describing project findings as well as draft proposed recommendations. This final meeting is to be held near the end of the project.

Task 6.0 Deliverables: Meeting agendas, presentation material and meeting notes.

COST PROPOSAL – September 19, 2016
SAN LUIS OBISPO COUNTY WATER SUPPLY EVALUATION
SUBMITTED TO SAN LUIS OBISPO COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
BY Ecorp CONSULTING, INC.

	<i>Team Member</i>	Michael Preszler	Jeff Meyer	Jared Emery	Holy McClure	Brian Fedrow	Tonni Clark			
	<i>Role on Project</i>	Project Manager	Technical Director	Water Resources Engineer	Project Coordination	Production Coordination	Contracting	Graphics / GIS Specialist	Hours Per Subtask	Cost Per Subtask
	<i>Rate per hour</i>	\$220	\$220	\$170	\$140	\$150	\$135	\$115		
\$15,150	Task 1.0 - Program Oversight and Coordination									
	1.1 Project Management and Coordinate Task Activities	12			12		2		26	\$ 4,590
	1.2 Team Kick-Off Meeting with District	8	8						16	\$ 3,520
	1.3 Up to 2-2 hour Coordination Meetings with District	16	16						32	\$ 7,040
\$17,040	Task 2.0 - Develop Basic Information and Project Approach									
	2.1 Review available information	12	8	4					24	\$ 5,080
	2.2 Develop Project Approach	24	16	8					48	\$ 10,160
	2.3 Extend Hydrology to include water year 2015	2		8					10	\$ 1,800
\$33,360	Task 3.0 - Technical Evaluation									
	3.1 Develop conceptual allocation scenarios (contract concepts)	24	24	8					56	\$ 11,920
	3.2 Incorporate scenarios in simulation model	4	16	32					52	\$ 9,840
	3.3 Evaluate allocation scenarios	12	16	32					60	\$ 11,600
\$11,240	Task 4.0 - Develop Recommendations									
	4.1 Determine recommendations	24	24	4					52	\$ 11,240
\$19,720	Task 5.0 - Prepare Draft and Final Memorandum									
	5.1 Prepare Draft Memorandum	32	16	6	8	4		16	82	\$ 15,140
	5.2 Incorporate and Address Changes	4	4	2	4			4	18	\$ 3,120
	5.3 Prepare Final Memorandum	2	2		2	2			8	\$ 1,460
\$15,010	Task 6.0 - Zone 3 Coordination									
	6.1 Zone 3 coordination activities	8	4		8			6	26	\$ 4,450
	6.2 Up to 3 Zone 3 meetings	24	24						48	\$ 10,560
	Total Hours	208	178	104	34	6	2	26	558	
	Total Labor	\$45,760	\$39,160	\$17,680	\$4,760	\$900	\$270	\$2,990		
	Sub Total =									\$ 111,520
	Direct Expenses (3,750 miles X \$0.54) =									\$ 2,025
	Total Budget = \$113,545									