



AGENDA
REGULAR MEETING OF THE BOARD OF DIRECTORS
EL DORADO IRRIGATION DISTRICT
District Board Room, 2890 Mosquito Road, Placerville, California
January 26, 2015 ~ 9:00 A.M.

Board of Directors

BILL GEORGE
BOARD PRESIDENT
Division III

GEORGE W. OSBORNE
BOARD VICE PRESIDENT
Division I

Greg Prada
Board Director
Division II

Dale Coco, MD
Board Director
Division IV

Alan Day
Board Director
Division V

**General Manager and
Executive Staff**

JIM ABERCROMBIE
GENERAL MANAGER

THOMAS D. CUMPSTON
GENERAL COUNSEL

Jennifer Sullivan, Clerk to the Board

Mary Lynn Carlton,
Communications/Customer Service

Jose Perez, Human Resources

Tom McKinney, Operations

Brian Mueller, Engineering

Mark Price, Finance

**Tim Ranstrom, Information
Technology**

In accordance with the Americans with Disabilities Act and California law, it is the policy of the El Dorado Irrigation District to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530-642-4045 or e-mail at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

PUBLIC COMMENT: *Anyone wishing to comment about items not on the Agenda may do so during the public comment period. Those wishing to comment about items on the Agenda may do so when that item is heard and when the Board calls for public comment. **Public comments are limited to five minutes per person.***

PUBLIC RECORDS DISTRIBUTED LESS THAN 72 HOURS BEFORE A MEETING: *Any writing that is a public record and is distributed to all or a majority of the Board of Directors less than 72 hours before a meeting shall be available for immediate public inspection in the office of the Clerk to the Board at the address shown above. Public records distributed during the meeting shall be made available at the meeting.*

CALL TO ORDER

Roll Call
Pledge of Allegiance
Moment of Silence

ADOPT AGENDA

COMMUNICATIONS

General Manager's Employee Recognition

APPROVE CONSENT CALENDAR

Action on items pulled from the Consent Calendar

PUBLIC COMMENT

COMMUNICATIONS

Board of Directors

Brief reports on community activities, meetings, conferences, and seminars attended by the Directors of interest to the District and the public.

Clerk to the Board

General Manager

CONSENT CALENDAR

1. Finance (Pasquarello)

Ratification of EID General Warrant Registers for the periods ending January 6 and January 13, 2015, and Board and Employee Expense Reimbursements for these periods.

Option 1: Ratify the EID General Warrant Registers as submitted to comply with Section 24600 of the Water Code of the State of California. Receive and file Board and Employee Expense Reimbursements.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

2. Clerk to the Board (Sullivan)

Approval of the minutes of the January 12, 2015, regular meeting of the Board of Directors.

Option 1: Approve as submitted.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

3. Office of the General Counsel (Cumpston)

Ratification of Resolution Nos. 2014-011 and 2014-023, to maintain emergency declarations.

Option 1: Ratify Resolution Nos. 2014-011 and 2014-023 (*thus maintaining both emergency declarations for purposes of bidding, contracting, and CEQA compliance*).

Option 2: Decline to ratify Resolution Nos. 2014-011 and/or 2014-023 (*thus terminating one or both emergency declarations for purposes of bidding, contracting and CEQA compliance*).

Option 3: Take no action (*thus terminating both emergency declarations for purposes of bidding, contracting and CEQA compliance*).

Recommended Action: Option 1 (four-fifths vote required for purposes of bidding and contracting).

4. Engineering (T. Sullivan)

Consideration to award a contract to Energy Systems for the purchase of five stationary generators to be installed at water and wastewater facilities in the not-to-exceed amount of \$169,300 plus tax. Authorize total funding of \$66,469 for Project No. 13008.01 and \$79,762 for Project No. 12012.01 to supplement the current funding balance of \$98,831.

Option 1: Award a contract to Energy Systems for the purchase of five stationary generators to be installed at water and wastewater facilities in the not-to-exceed amount of \$169,300 plus tax. Authorize total funding of \$66,469 for Project No. 13008.01 and \$79,762 for Project No. 12012.01 to supplement the current funding balance of \$98,831.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

5. Finance (Pasquarello)

Funding approval for District Capital Improvement Plan (CIP) Projects.

Option 1: Authorize funding for the CIP projects as requested in the amount of \$205,000.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

6. Finance (Griffin)

Consideration of a resolution declaring certain District personal property to be surplus.

Option 1: Adopt a resolution declaring certain District personal property to be surplus.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

END OF CONSENT CALENDAR

PUBLIC HEARING ~ 9:30 A.M.

7. Finance (Pasquarello)

Appropriations Limit for Fiscal Year 2015.

Option 1: Adopt the proposed Appropriations Limit Resolution for Fiscal Year 2015.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Recommended Action: Option 1.

INFORMATION ITEMS

8. Engineering (Mueller)

Preliminary data for the 2014 Water Resources and Service Reliability Report.

Recommended Action: None – Information only.

9. Office of the General Counsel (Poulsen)

Introduction to Water Transfers and District Opportunities.

Recommended Action: None – Information only.

CLOSED SESSION

A. Closed session pursuant to Government Code section 54957 (Cumpston)

Public Employee Employment/Performance Evaluation pursuant to Government Code Section 54957(b)(1). Position Title: General Counsel. Annual performance review.

REVIEW OF ASSIGNMENTS

Board direction to staff

ADJOURNMENT

TENTATIVELY SCHEDULED ITEMS FOR FUTURE MEETINGS

Engineering

- Consideration to adopt the Mitigated Negative Declaration and approval of the Mormon Island and Lakeridge Oaks Lift Station Removal Project, Public Hearing, regular Board meeting, February 9 (Schaeffer)
- Drought Action Plan Workshop, regular Board meeting, February 9 (Mueller)
- Review of in-line hydro projects, Information Item, regular Board meeting, February 9 (Mueller)
- Consideration to pre-purchase a screw press for the Deer Creek WWTP Biosolids Design, Project No. 14022.01, Action Item, regular Board meeting, March 9 (T. Sullivan/Wells)

Office of the General Counsel

- Consideration to change to the District's election cycle, Action Item, regular Board meeting, February 9 (Cumpston)

El Dorado Irrigation District
January 26, 2015
Board Meeting
Communications - General Manager

1) Awards and Recognitions

- a) Congratulations, **Noel Russel**. Noel has been promoted as a replacement to the position of Water Construction Supervisor in the Drinking Water Division.

2) Staff Reports and Updates

- a) EID Employees receive "H.R. LaBounty Awards" from the Association of California Water Agencies – Joint Powers Insurance Authority (ACWA-JPIA) for Promoting Safety in the Workplace – Summaries by Ron Kilburg
- b) Esmeralda Tunnel Update – Summary by Daryl Noel
- c) Forebay Recreation Parcel Transferred to County – Summary by Tom Cumpston
- d) Funding Source for EDWPA Water Rights Project – Summary by Tom Cumpston
- e) EID's New Insurance Policies Reduce Premiums by \$63,947 – Summary by Ilonka Weber and Steve Griffin
- f) Drought Update and Conservation Progress – Summary by Brian Mueller

**General Manager's Report
January 26, 2015**

EID employees receive "H.R. LaBounty Safety Awards" from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA) for promoting safety in the workplace.

"100% commitment to Safety" is one of the District's guiding operational principles. Today, we have the privilege of recognizing a staff member's contribution, time, and effort in improving workplace safety. This individual has received a monetary award of \$100 from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA), and is being presented the H.R. LaBounty Safety Award to highlight and honor this achievement.

The award recipient is Aaron Davis, Water Treatment Operator IV assigned to the El Dorado Hills water treatment facility. Mr. Davis is now a chief water treatment operator for another water agency in the region; however, his work continues to contribute to making operational safety.

This recognition highlights the development of a District-wide ladder inspection process. On a daily basis, ladders are inspected and documented using a label affixed to each ladder. The inspection process helps ensure ladders remain in a safe and operable condition for routine use while documenting the daily inspection.

On behalf of the management team, General Manager, and the Board of Directors, it is my privilege to acknowledge Aaron Davis for his contribution to improve workplace safety. Lane Ybright, the safety committee chairperson will receive the ACWA-JPIA "H.R. LaBounty Safety Award" on his behalf.

**General Manager's Report
January 5, 2015**

EID employees receive "H.R. LaBounty Safety Awards" from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA) for promoting safety in the workplace.

"100% commitment to Safety" is one of the District's guiding operational principles. Today, we have the privilege of recognizing a staff member's contribution, time, and effort in improving workplace safety. This individual has received a monetary award of \$75 from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA), and is being presented the H.R. LaBounty Safety Award to highlight and honor this achievement.

The award recipient is Bill Petterson, Chief Water Treatment Operator assigned to the El Dorado Hills facility. Mr. Petterson has been an employee with the District for over ten years, is an important team member and contributor in making safety and operational improvements.

Mr. Petterson is being recognized today for his contribution toward improving chemical safety and the installation of a manual and motor operated valve operated through the treatment process control system to detect and automatically stop and effectively eliminate an uncontrolled chemical release. The safety improvement idea is an excellent example of initiative and a commendable means to mitigating a potential safety hazard.

On behalf of the management team, General Manager, and the Board of Directors, it is my privilege to acknowledge Bill Petterson for his contribution to improve workplace safety and being the recipient of the ACWA-JPIA "H.R. LaBounty Safety Award".

**General Manager's Report
January 26, 2015**

EID employees receive "H.R. LaBounty Safety Awards" from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA) for promoting safety in the workplace.

"100% commitment to Safety" is one of the District's guiding operational principles. Today, we have the privilege of recognizing a staff member's contribution, time, and effort in improving workplace safety. This individual has received a monetary award of \$50 from the Association of California Water Agencies-Joint Powers Insurance Authority (ACWA-JPIA), and is being presented the H.R. LaBounty Safety Award to highlight and honor this achievement.

The award recipient is Jake Maker, Water Treatment Operator IV assigned to the Reservoir 1 water treatment facility. Mr. Maker has been an employee with the District for eighteen years, and is a valued contributor in making safety and operational improvements.

Mr. Maker is being recognized today for identifying a fall hazard at the water treatment facility and recommending the installation of a system to prevent injury. A fall restraint system including a limit line and anchor point was installed to correct the hazard. Mr. Maker's safety improvement idea is an example of aware in action, and acting with integrity.

On behalf of the management team, General Manager, and the Board of Directors, it is my privilege to acknowledge Jake Maker for his contribution to improve workplace safety and being the recipient of the ACWA-JPIA "H.R. LaBounty Safety Award".

**General Manager's Report
January 26, 2015**

Esmeralda Tunnel Update

Substantial progress has been made on the stabilization efforts in the Esmeralda Tunnel (tunnel). Mining Construction Inc. (MCI) is on schedule to have phase 1 of the tunnel stabilization work complete by the end of February so the tunnel can be put back into service by March 1, 2015.

MCI has two mining crews working on the tunnel. One crew is working on the upstream end of the tunnel and has completed a temporary tunnel that was constructed above the original tunnel alignment to safely intercept and stabilize the cave-in area. The temporary tunnel has been completed to a length of 222 feet and has intercepted the large chamber and debris pile above the existing tunnel that was formed by the cave-in. The chamber has been stabilized with layers of shotcrete, rock bolts, and reinforcing steel to form a temporary liner so that miners can safely remove the debris pile within the newly formed cavern.

Several alternatives to permanently fix the failure area have been examined, which include constructing a box culvert in the tunnel failure area and backfilling the cavern area above the new box culvert with soil, Styrofoam, or cellular grout; or adding additional reinforcing steel, rock bolts, and shotcrete to the existing temporary liner that was initially installed to make a permanent liner. The permanent liner option was selected because it was the least costly option and could be completed by the February 28, 2015 deadline. The permanent liner option will result in an arched reinforced shotcrete cavern 95 feet in length, with a max height of 32' feet and 22 feet in width at the ceiling with tapered walls that will be 8 to 12 feet apart at the tunnel floor. Scaffolding has been erected in the cavern so that additional reinforcing and shotcrete can be added in the ceiling area. The debris pile will be removed from the cavern in 6 foot increments so that additional rock bolts, reinforcing steel, and shotcrete can be safely installed in narrow bands around the circumference of the cavern walls until the original tunnel floor is reached at elevation 1000.

The second mining crew is replacing 123 feet of closely spaced highly degraded timber sets with steel I-beams in an unstable section of the tunnel 331 feet from the downstream portal. Reinforcing steel will be installed between the I-beams and embedded within 8 inches of shotcrete on the walls and ceiling. A concrete floor will be installed in this section of the tunnel to create a box culvert and prevent erosion of the tunnel floor and undermining of the concrete reinforced walls. The remaining timber sets downstream of the failure area would be replaced in the same manner and if there is not adequate time to make the aforementioned improvements, temporary wood sets would be installed in this section of the tunnel so that it can be safely operated until remaining improvements can be completed during the next scheduled canal outage in October 2015.

Summary By: Tom Cumpston

General Manager's Report
January 26, 2015

Forebay Recreation Parcel Transferred to County

On December 31, 2014, escrow closed on the long-anticipated transfer of the Forebay Recreation parcel from the District to El Dorado County. The County's acquisition of this property furthers the objectives of the County's Park and Trails Master Plan, and puts the park in the hands of an agency that is better suited than the District to maximize its public benefits.

The transaction closed on schedule, with few complications, after the County Board of Supervisors voted unanimously to consummate the deal on December 16. The property survey did provide one surprise to the parties, which we were able to overcome. The Purchase and Sale Agreement excluded from the transfer all lands within the Project 184 project boundaries established by the Federal Energy Regulatory Commission (FERC). The parties believed those lands comprised only a small sliver at the southern end of the parcel. The survey revealed, however, that the project boundary actually excluded a strip of land, 25 to 40 feet wide, along the entire edge of Forebay Road – including the existing driveways to access the property.

Amending the Project 184 FERC boundaries would have been time-consuming and cumbersome, and the District will be revising those boundaries, anyway, after it completes the Forebay Dam project. The District can easily include this change in that project boundary revision. Therefore, the District granted the County a blanket easement over this narrow strip of land for access and maintenance purposes for now, and agreed to quitclaim the full title to all affected lands along Forebay Road after FERC approves the revised project boundaries.

County Surveyor Rich Briner and County Facilities Manager Russ Fackrell were indispensable to the success of this transfer, and deserve recognition for their dedicated public service.

General Manager's Report

January 26, 2015

Funding Source for EDWPA Water Rights Project

Director Coco requested an explanation of the funding source for Capital Improvement Plan (CIP) Project No. 06004E, the SMUD/El Dorado Agreement Water Rights project being led by the El Dorado Water and Power Authority (EDWPA Water Rights Project). As the project number indicates, this CIP project was initiated in 2006.

There are normally two sources of funds for capital projects: rates and Facility Capacity Charges (FCCs). Rate revenues come from existing District customers; FCC revenues come from new customers. Depending upon their characteristics and who they benefit, capital projects may be funded entirely by rates, entirely by FCCs, or by a combination of the two sources.

The District periodically updates its FCCs to ensure that new customers who will benefit from the District's capital projects pay the full costs of accessing those benefits. These FCC updates ensure that existing District customers do not subsidize the expenditures that the District makes to serve future customers. As projects, plans, and costs (both incurred and anticipated) change, the FCC amounts also change to keep pace.

The purpose of the EDWPA Water Rights Project is to obtain additional water supplies to meet the demands of future water users. Therefore, all costs that the District incurs for this project are appropriately assigned to new customers, making Water FCCs the correct funding source.

The EDWPA Water Rights Project was initiated in 2006. Since 2006, every adopted District CIP has included it and identified Water FCCs as the sole source of project funds.

Further, since at least 1992, the District's Water FCC has included a Water Supply component to fund projects like the EDWPA Water Rights Project. The 1992 FCC included \$2,209 per Equivalent Dwelling Unit (EDU) for the capital costs of new water supply. At that time, the Alder Reservoir project was anticipated to be the source of new water supply. FCC updates followed in 2003, 2005, and 2008. Each of those updates included a Water Supply component. The 2003 update included \$1,890 per EDU for \$46 million of capital costs; the 2005 update included \$4,089 per EDU for \$83 million of capital costs; the 2008 update included \$3,390 per EDU in El Dorado Hills and \$2,696 per EDU in the rest of the District for \$70 million of capital costs and fixed assets, including \$2.1 million for the EDWPA Water Rights Project.

The Water FCCs were updated again in 2013. This update included \$3,187 per EDU for \$82 million of capital costs and fixed assets, including \$470,000 for the EDWPA Water Rights

Project, which equaled the anticipated costs for this project programmed into the 2013-2017 CIP. The current 2015-2019 CIP includes \$712,000 of additional expenditures.

To date, the District has expended \$2.43 million on this project, 99.95% of it since 2008. These expenditures will be included in the “buy-in” component of future updates to the Water FCCs, as CIP projects in progress.

In summary, since at least 1992, the District has collected FCCs to fund projects like the EDWPA Water Rights Project, so that new developments – not existing customers – pay the project costs. Many millions of FCC dollars have been and continue to be collected for that purpose. In accordance with adopted CIPs since 2006, costs incurred for the EDWPA Water Rights Project have been assigned 100% to these FCC revenues, and 0% to rates.

Summary by: Ilonka Weber
Steve Griffin

General Manager's Report
January 26, 2015

**EID's New Insurance Policies
Reduce Premiums by \$63,947**

Effective January 1, the District replaced its expiring insurance policies with new policies that saved the District \$63,947 in premium costs compared to 2014, without compromising coverage.

The District's Property and Liability Insurance Program is comprised of the following coverages:

- Property/Inland Marine/Crime
- General Liability
- Public Officials & Management Liability
- Automobile
- Excess Liability

The Board has previously authorized the General Manager to approve the District's insurance coverage for one-year periods through ISU Insurance Services – Atwood Agency, the District's insurance broker for over 37 years. Don Erickson of ISU – Atwood again aggressively marketed our insurance coverage needs for 2015. We are pleased to report that the 2015 premiums for the District's property and liability insurance policies decreased \$63,947, a 9% reduction from 2014's costs, with comparable coverage. This was due to several factors, including favorable market conditions, competitive bids between specialty programs, lower loss trends and the District's risk-management practices, such as the Capital Improvement Program, the Water Main Replacement Program, the Sewer System Management Plan and our safety programs.

Also, staff throughout the District was instrumental in providing detailed information regarding District operations, which enabled insurance underwriters to better assess their risk exposures.

District Property Coverage (excluding Project 184) / District Liability Coverage:

The Alteris WaterPlus Program submitted a renewal proposal for property and liability coverage with a premium cost of \$446,962 for 2015, a decrease of \$34,959 from the 2014 premium.

The Glatfelter Public Practice program (a former provider) submitted a proposal for property and liability coverage with a premium cost of \$398,187 and Hartford Steam Boiler submitted a proposal for Equipment Breakdown coverage with a premium cost of \$24,249. The total premium of \$422,436 was a decrease of \$59,485 from the 2014 premium.

Hydroelectric Project 184 Property Coverage:

Liberty Mutual Insurance submitted a renewal proposal of \$221,620, a decrease of \$4,462 from the 2014 premium.

Summary:

Based on staff's analysis of the proposals and consultations with our broker, the District's 2015 coverages were placed with Glatfelter Public Practice, Hartford Steam Boiler and Liberty Mutual Insurance.

The total annual premium savings compared to 2014 is \$63,947, a 9% reduction. The premium came in under budget and is included in the District's 2015 Operating Budget.

The providers' A.M. Best ratings are as follows:

American Alternative Insurance Company is rated "A+" (Superior) XV

Hartford Steam Boiler "A++" (Superior) X

Liberty Mutual Insurance Company "A" (Excellent) XV

A comparison of the proposals is attached.

Property & Liability Insurance Premium Comparisons - 2015 vs 2014

Coverages	2014 Alteris WaterPlus/Liberty Mutual Premiums	2015 Alteris WaterPlus/Liberty Mutual Proposals	% Change 2015 vs 2014	2015 Glatfelter/Hartford/Liberty Mutual Proposals	% Change 2015 vs 2014
Property/Inland Marine/Crime (incl Equip Brkdn)	\$92,234	Included		See Below	
Property				\$57,492	
Inland Marine				\$2,539	
Crime				\$577	
Sub-Total Property/Inland Marine/Crime	\$92,234	Included		\$60,608	-34%
General Liability	\$105,183	Included		\$101,191	-4%
Public Officials & Management Liability (POL)	\$27,552	Included		\$32,008	16%
Cyber Liability & Privacy Crisis Mgmt Expense		Included		Included	
Automobile	\$119,971	Included		\$111,079	-7%
Excess Liability	\$134,970	Included		\$93,301	-31%
Terrorism (TRIA)	\$1,911	Included		Included	
Policy Fee	\$100	\$100		N/A	
Total Property/Inland Marine/Crime/General Liability/POL/Cyber/Auto/Excess/TRIA/Fee	\$481,921	\$446,962	-7%	\$398,187	-17%
Hartford Steam Boiler - Equipment Breakdown	N/A	N/A		\$24,249	
Total Property/Liability/Equipment Breakdown	\$481,921	\$446,962	-7%	\$422,436	-12%
Liberty Mutual Property (Project 184)	\$226,082	\$221,620	-2%	\$221,620	-2%
Total Annual Premium - All Policies	\$708,003	\$668,582	-6%	\$644,056	-9%
Premium Savings 2015 vs 2014		\$39,421		\$63,947	

**General Manager's Report
January 26, 2015**

Drought Update and Conservation Progress

Stage 2 Drought Update

After a good amount of precipitation in November and December 2014, January 2015 has been very dry, heightening concern for another year of extended drought. The District will continue to track customer conservation in 2015. To be consistent with State Board guidelines and RWA regional reporting, the District will be using 2013 as a baseline for comparison.

For potable water customers, cumulate conservation from January 1 through January 14, 2015 has been 11%.

For recycled water customers, cumulative conservation from January 1 through January 14, 2015 has been 43% above 2013 usage. Recycled usage is low in January, therefore small differences in usage can cause large percentage swings. However, recycled water customers should be evaluating whether any outdoor irrigation is necessary in the winter months.

2015 Customer Conservation Summary

	Jan 1 – Jan 15
Potable Conservation	11%
Recycled Conservation	-43%

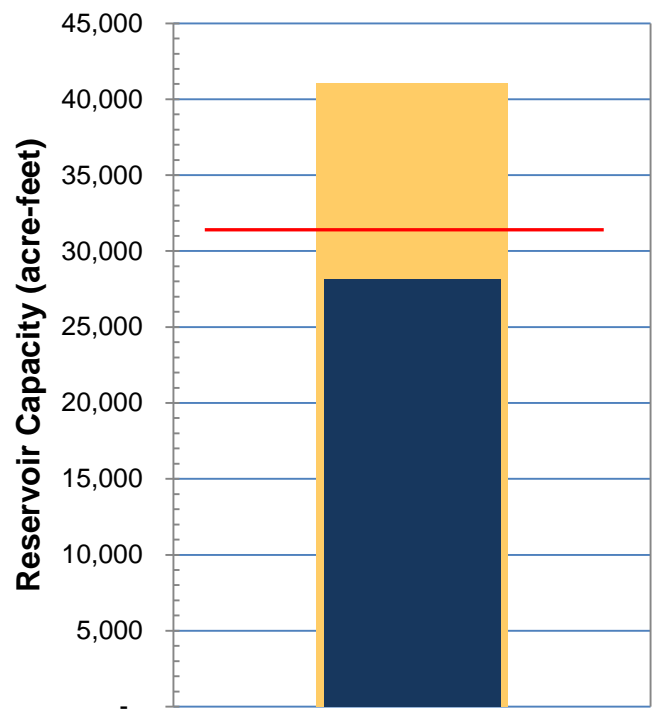
Attachments

- A. Drought and conservation charts

Jenkinson Lake at Sly Park

Reservoir Conditions

(as of January 14, 2015)



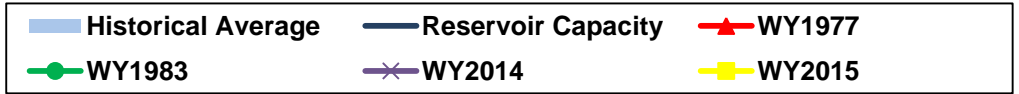
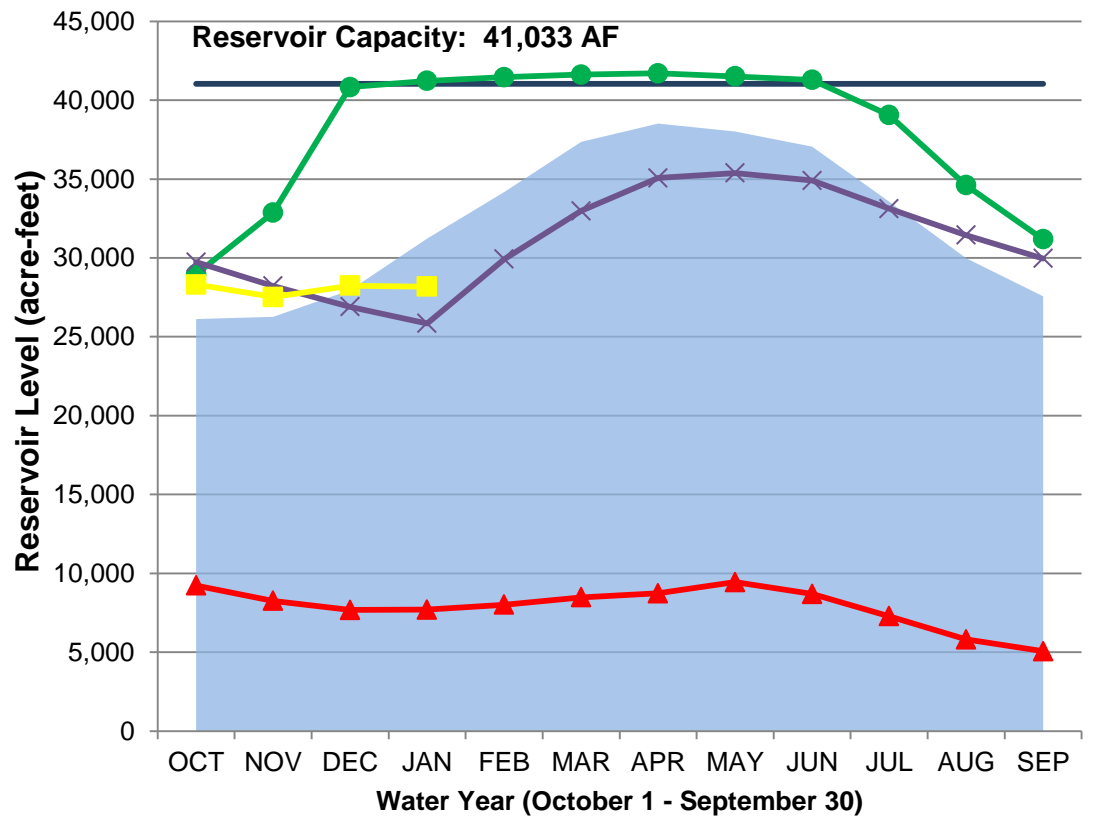
Current Level: 28,088 AF

68%

**Current Capacity
as of: 1/14/2015**

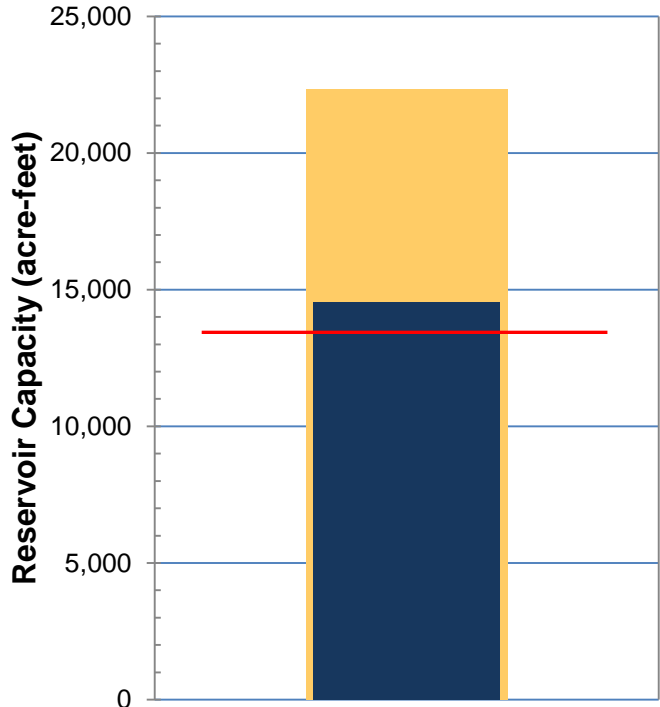
76%

**End of Month
Historical Average**



Caples Lake Reservoir Conditions

(as of January 14, 2015)



Current Level: 14,501 AF

65%

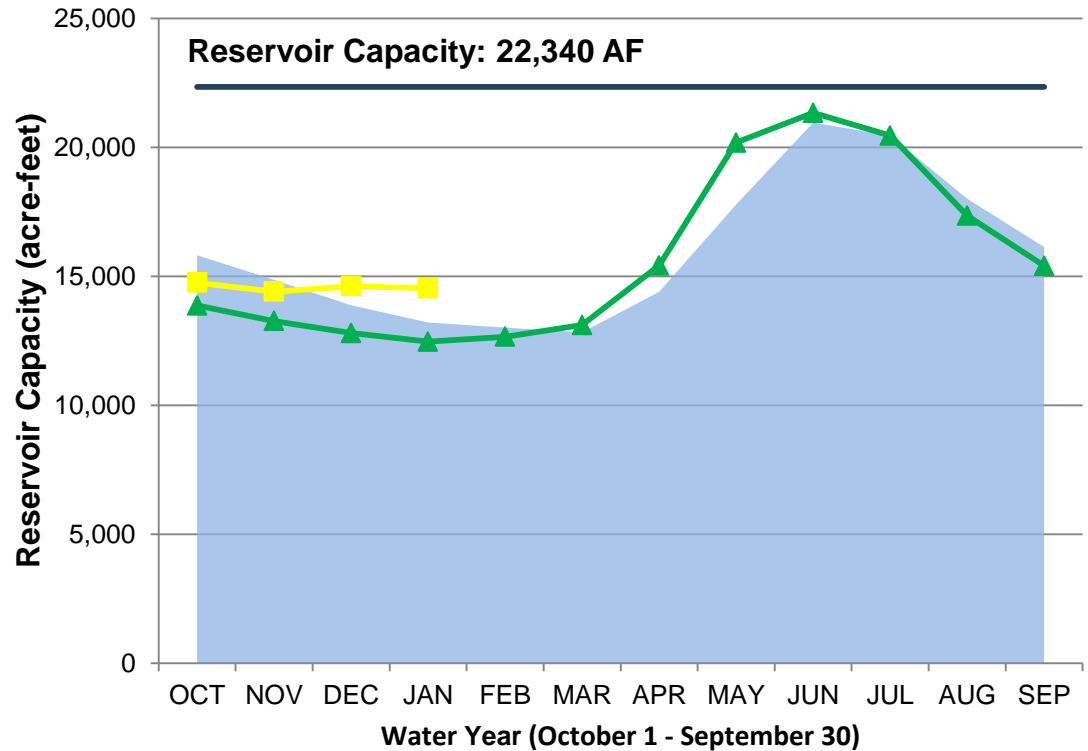
Current Capacity

as of: 1/14/2015

59%

End of Month

Historical Average



Historical Average

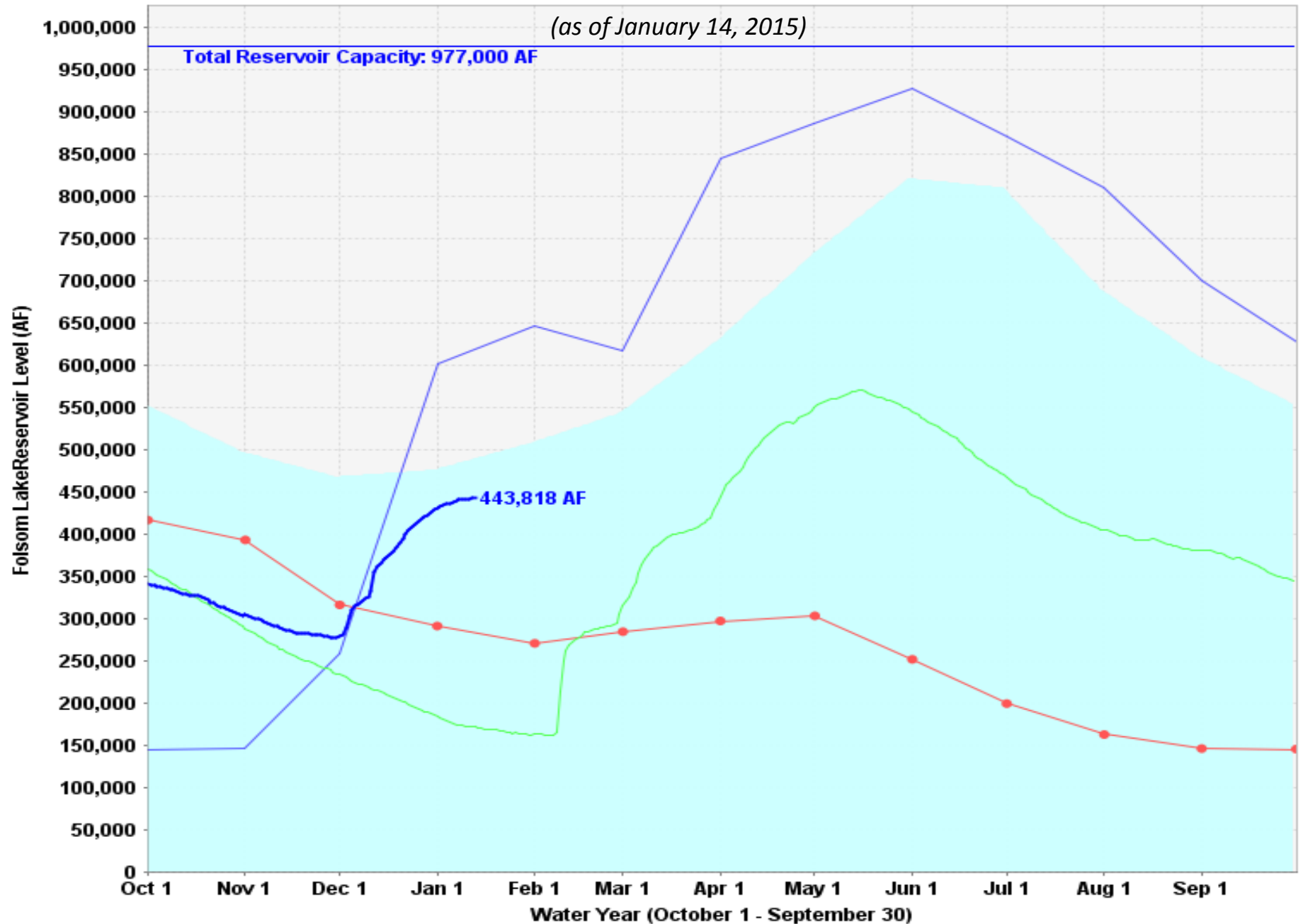
WY 2014

Reservoir Capacity

WY 2015

Folsom Lake Storage Levels

(as of January 14, 2015)



Historical Average Total Reservoir Capacity 1976-1977 (dry) 1977-1978 2013-2014 2014-2015(current)

Department of Water Resources

California Cooperative Snow Surveys

Snow Course Measurements for January 2015

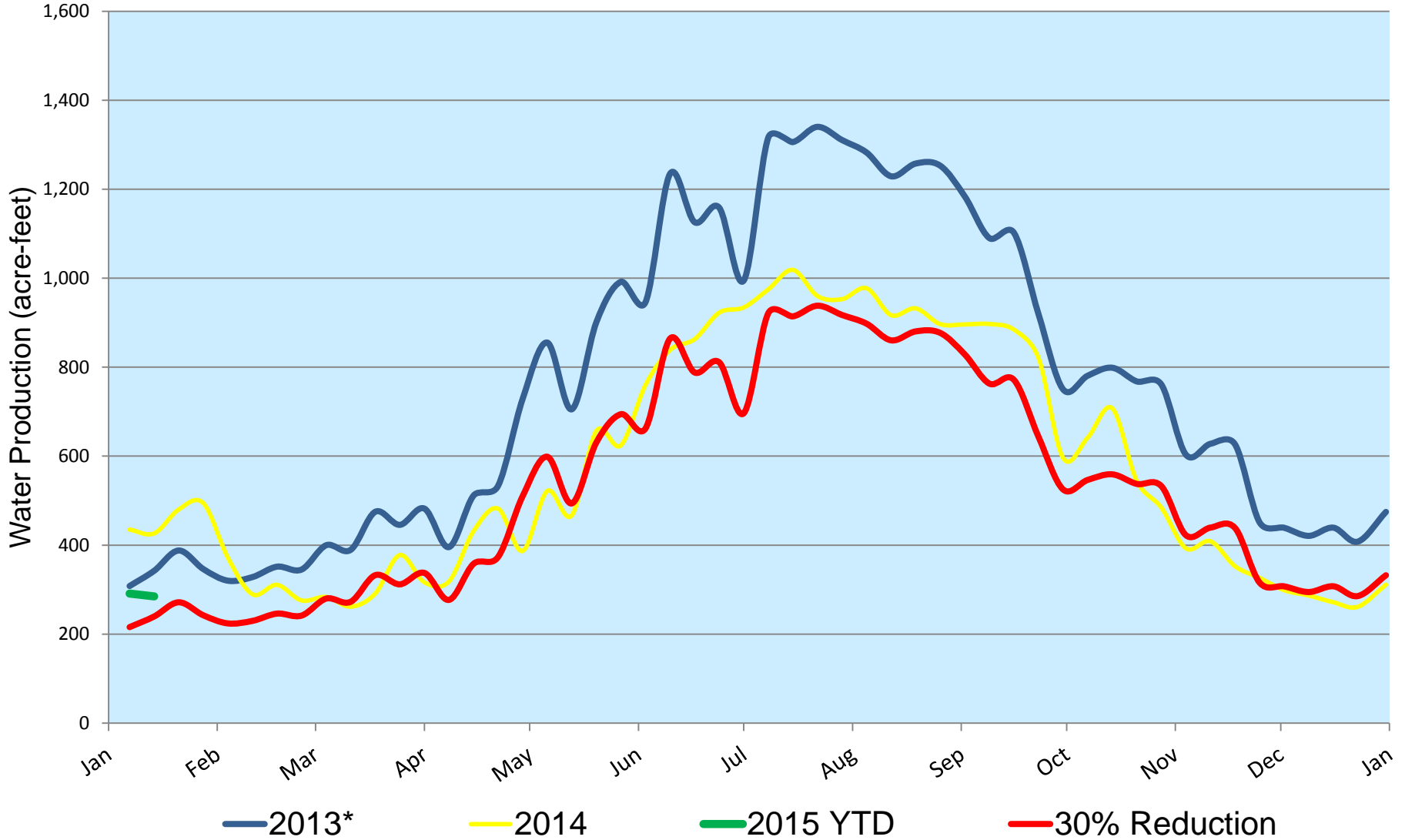
American River Basin

Course (Location)	Water Content	Avg (Jan)	Avg (Season)	% of Avg (Jan)	% of Avg (Season)
Caples Lake	4.6"	13.03"	30.5"	35%	15%
Lower Carson	7.0"	15.9"	38.2"	44%	18%
Upper Carson	7.1"	14.3"	36.2"	50%	20%

Potable Water Conservation Progress

Weekly Comparison - 2015 vs. 2013

(as of January 14, 2015)

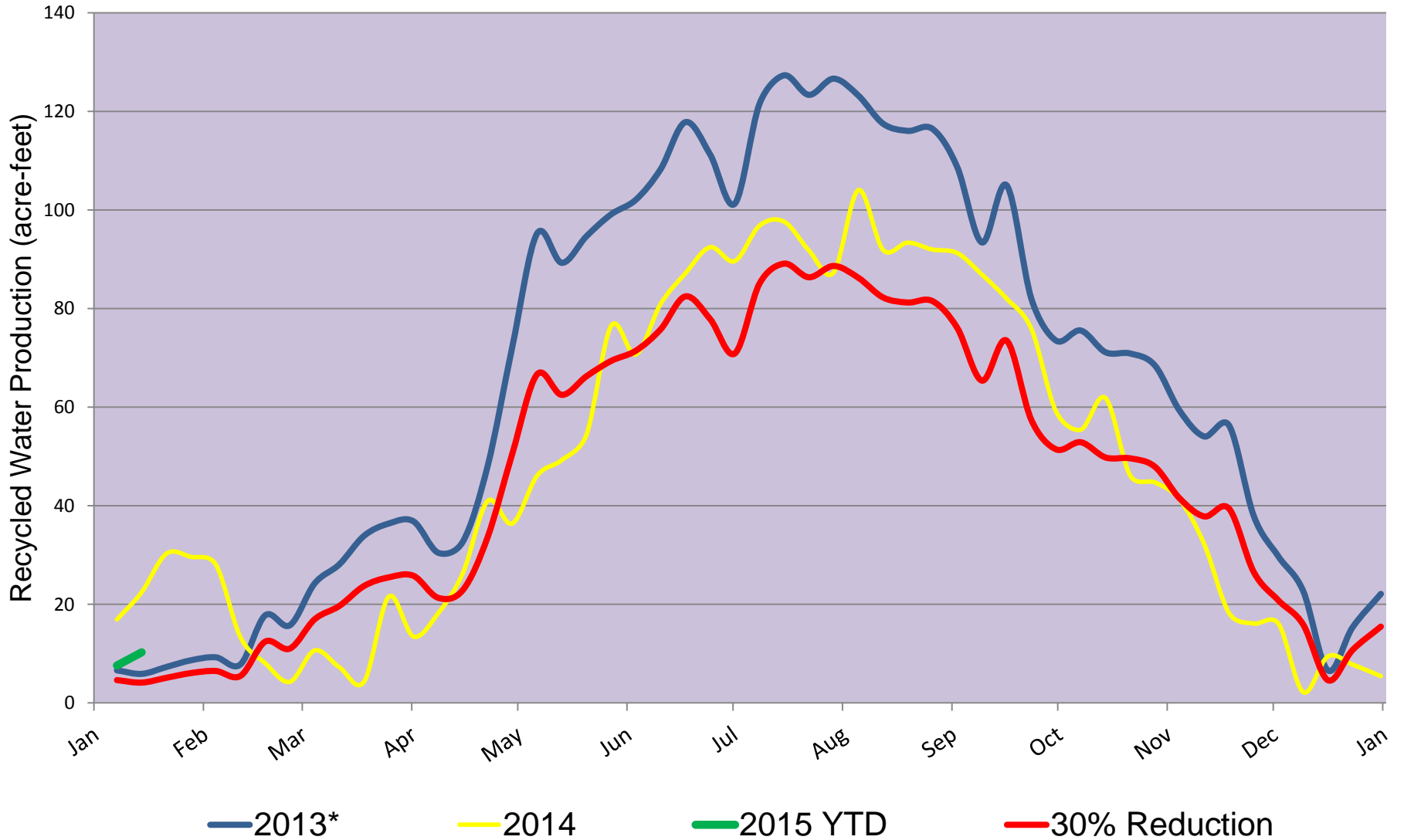


*2013 baseline per State Water Board and RWA standard

Recycled Water Conservation Progress

Weekly Comparison - 2015 vs. 2013

(as of January 14, 2015)

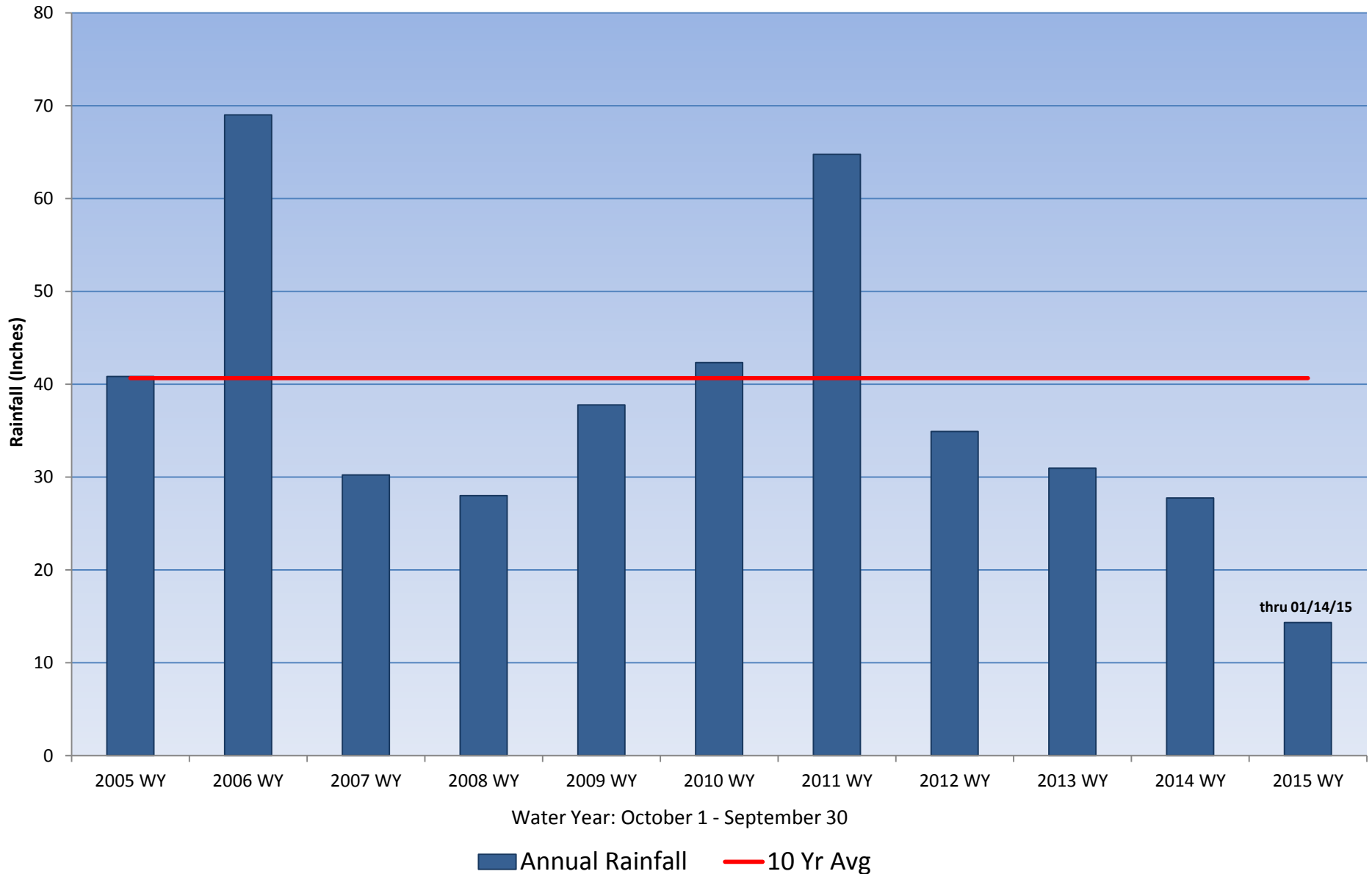


*2013 baseline per State Water Board and RWA standard

El Dorado Irrigation District

Annual Rainfall (Inches)

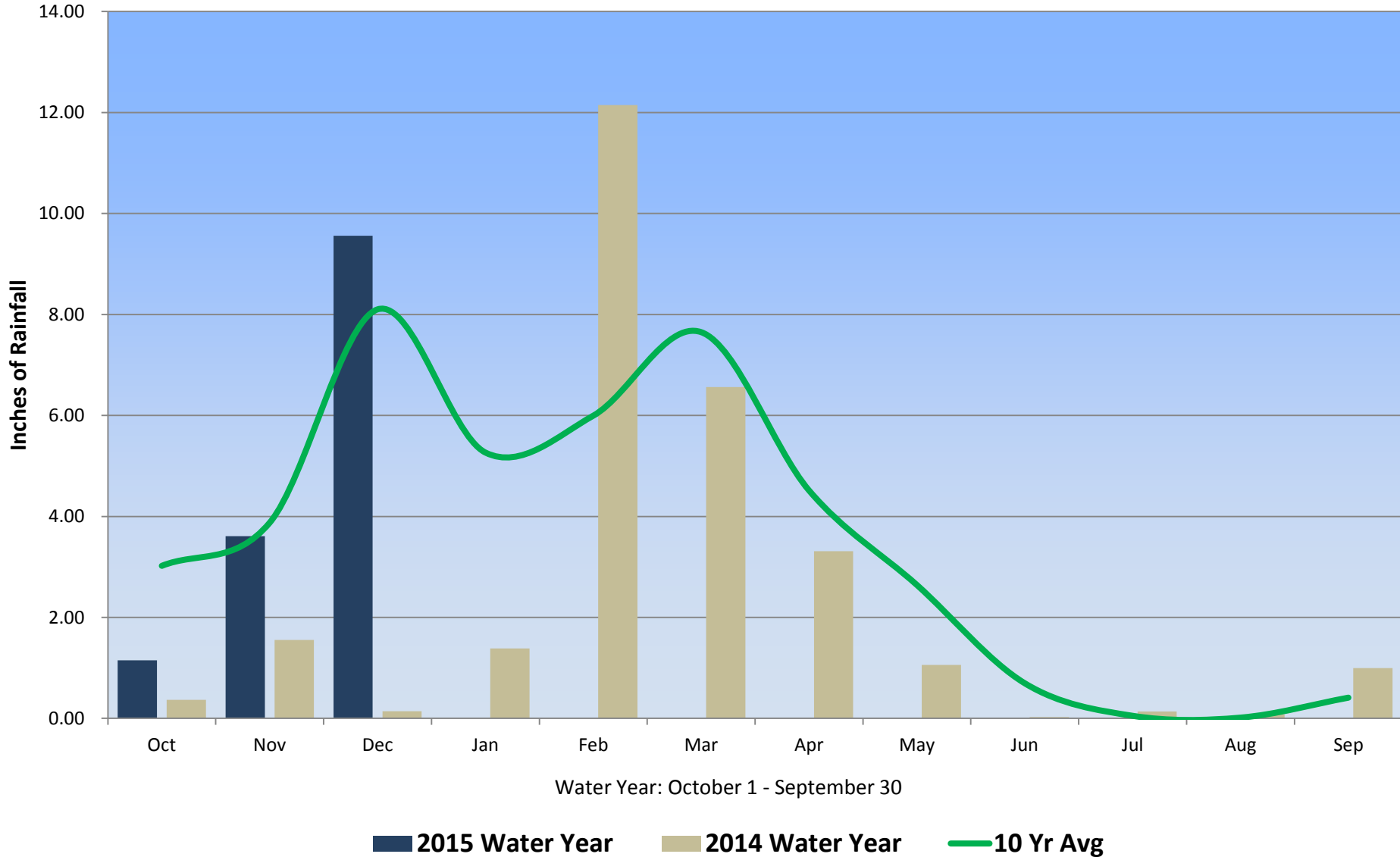
Water Year Totals



El Dorado Irrigation District

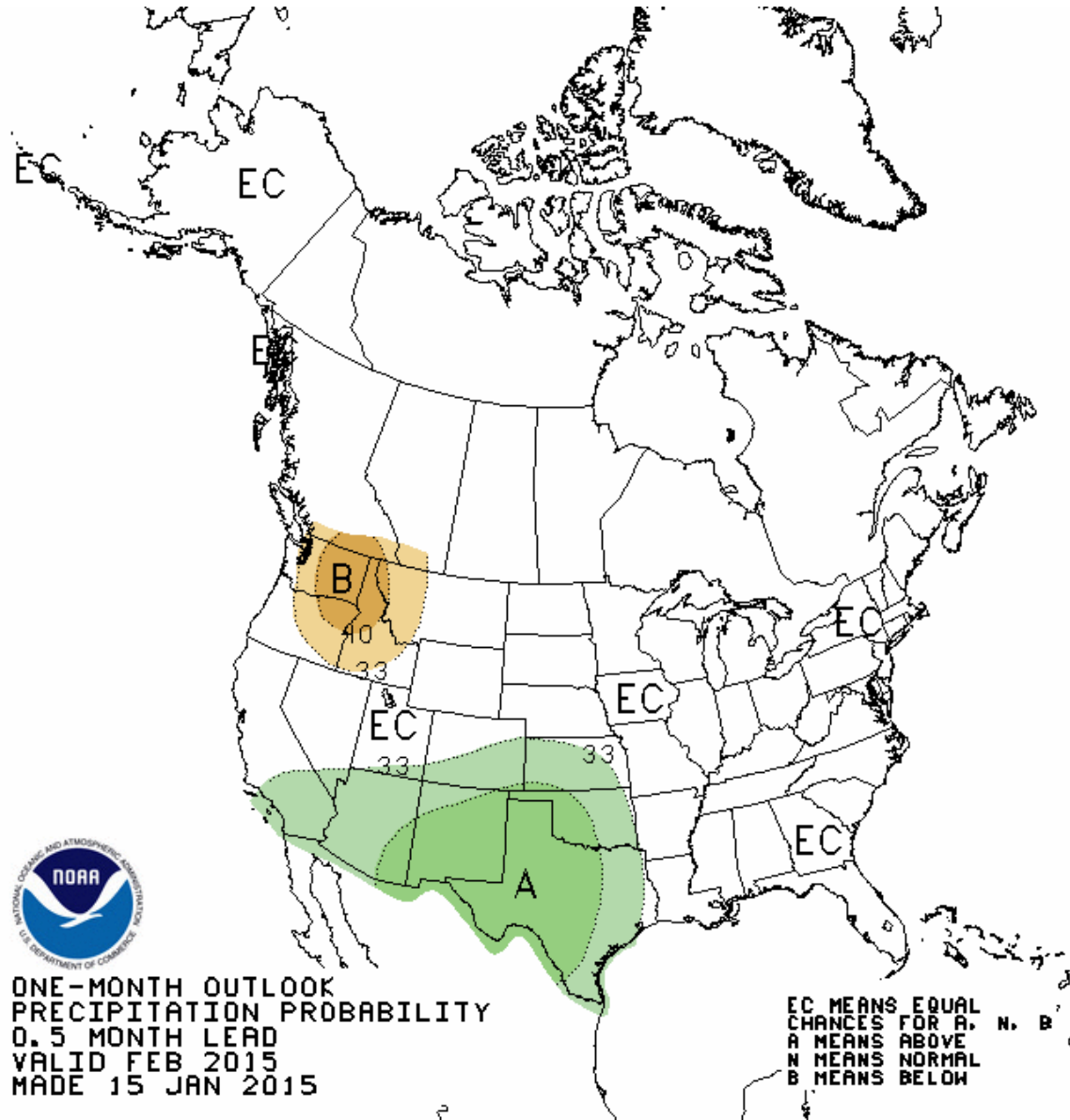
Monthly Rainfall Comparison

(as of January 14, 2015)



National Weather Service

1-month outlook

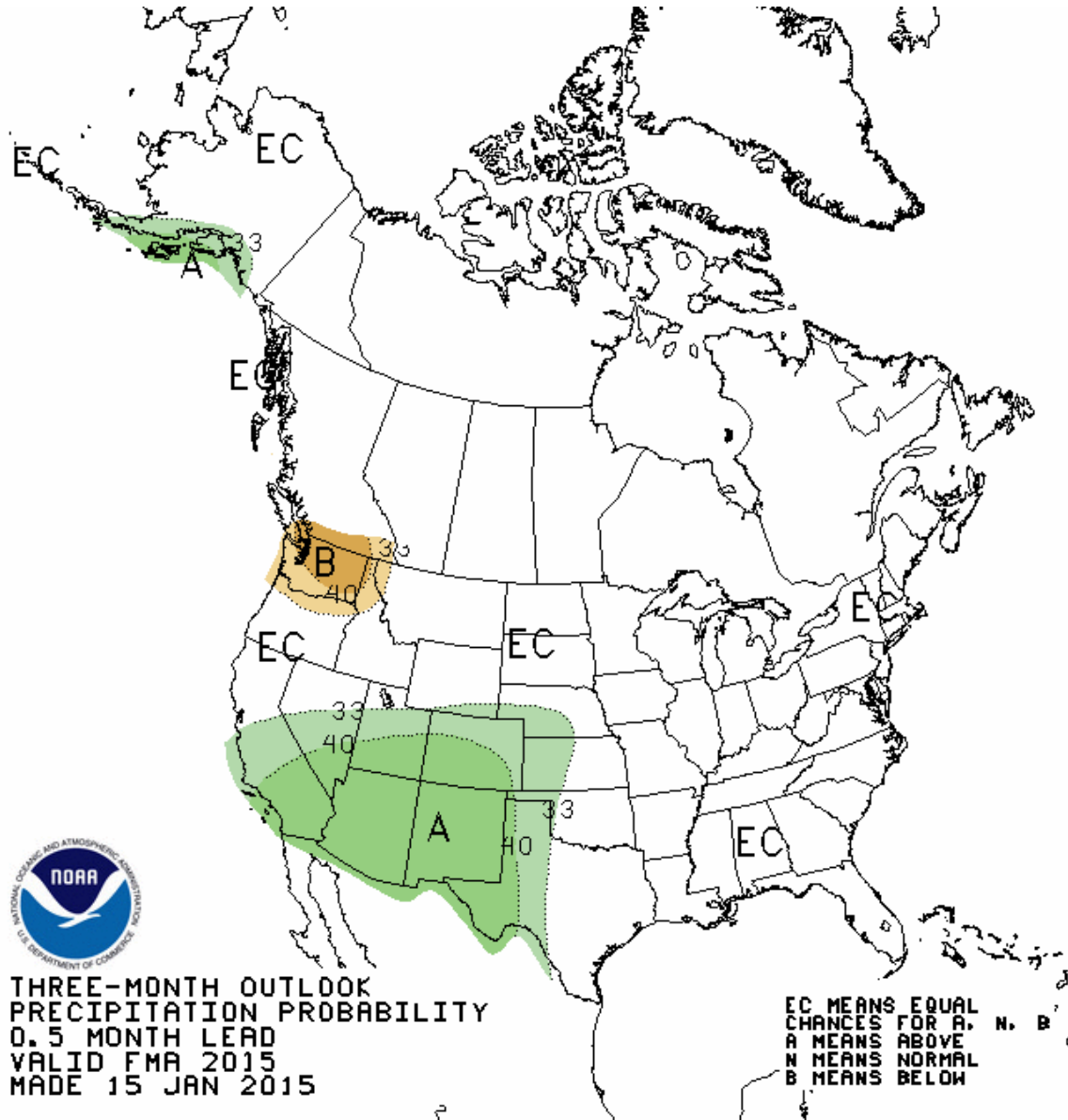


ONE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID FEB 2015
MADE 15 JAN 2015

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW

National Weather Service

3-month outlook

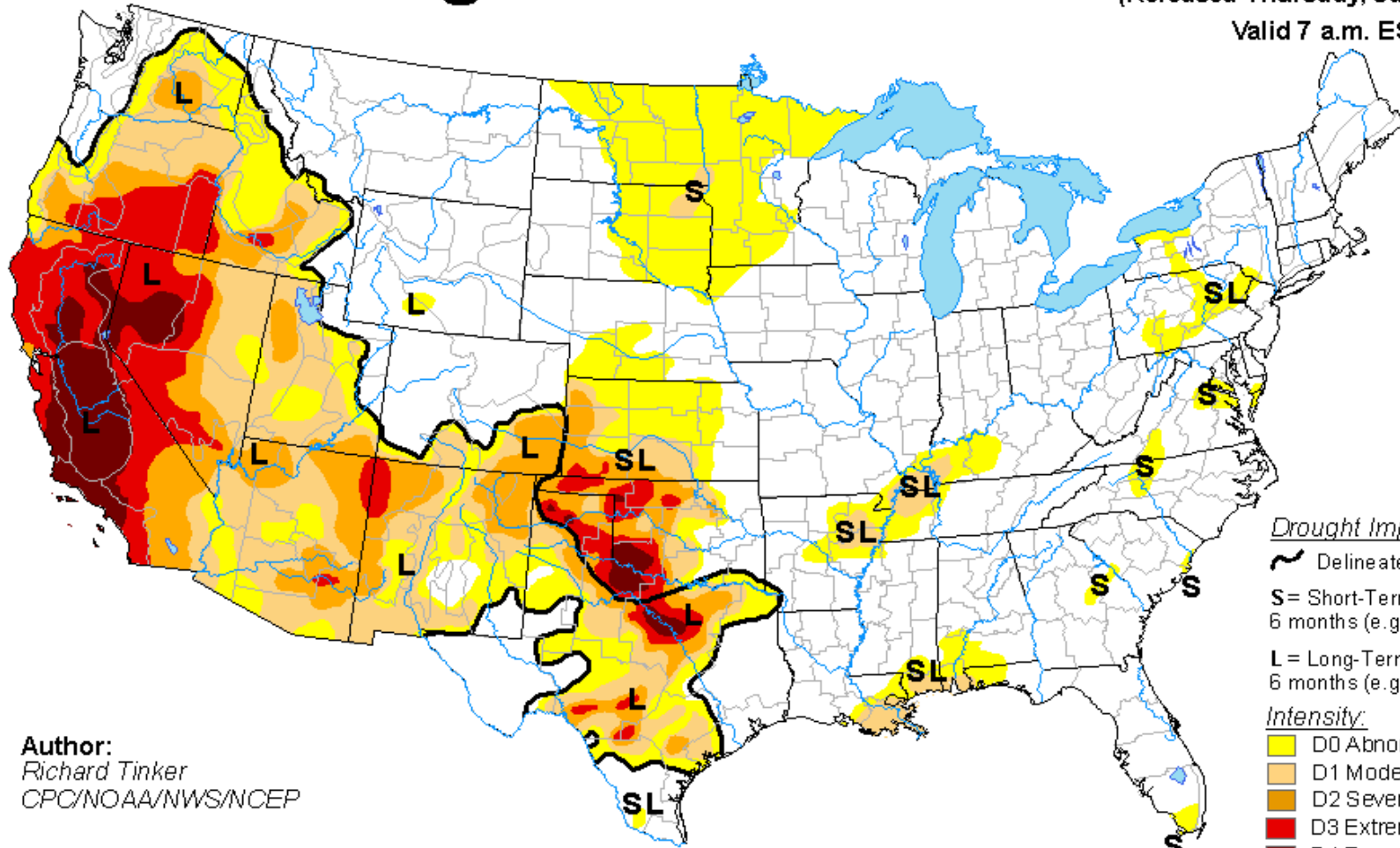


THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID FMA 2015
MADE 15 JAN 2015

EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW


U.S. Drought Monitor

January 13, 2015
(Released Thursday, Jan. 15, 2015)
Valid 7 a.m. EST








Author:
Richard Tinker
CPC/NOAA/NWS/NCEP

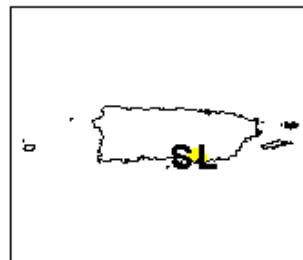
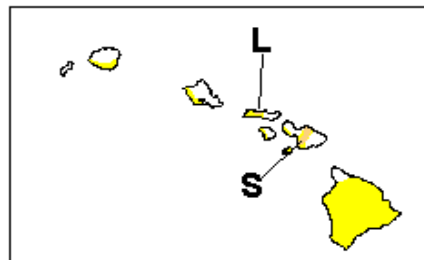
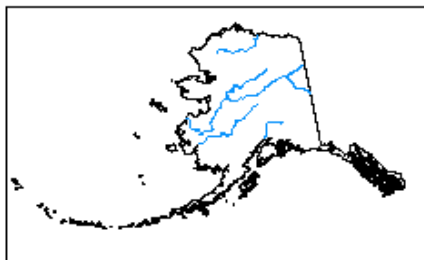
Drought Impact Types:

-  Delineates dominant impacts
- S** = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L** = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.



<http://droughtmonitor.unl.edu/>

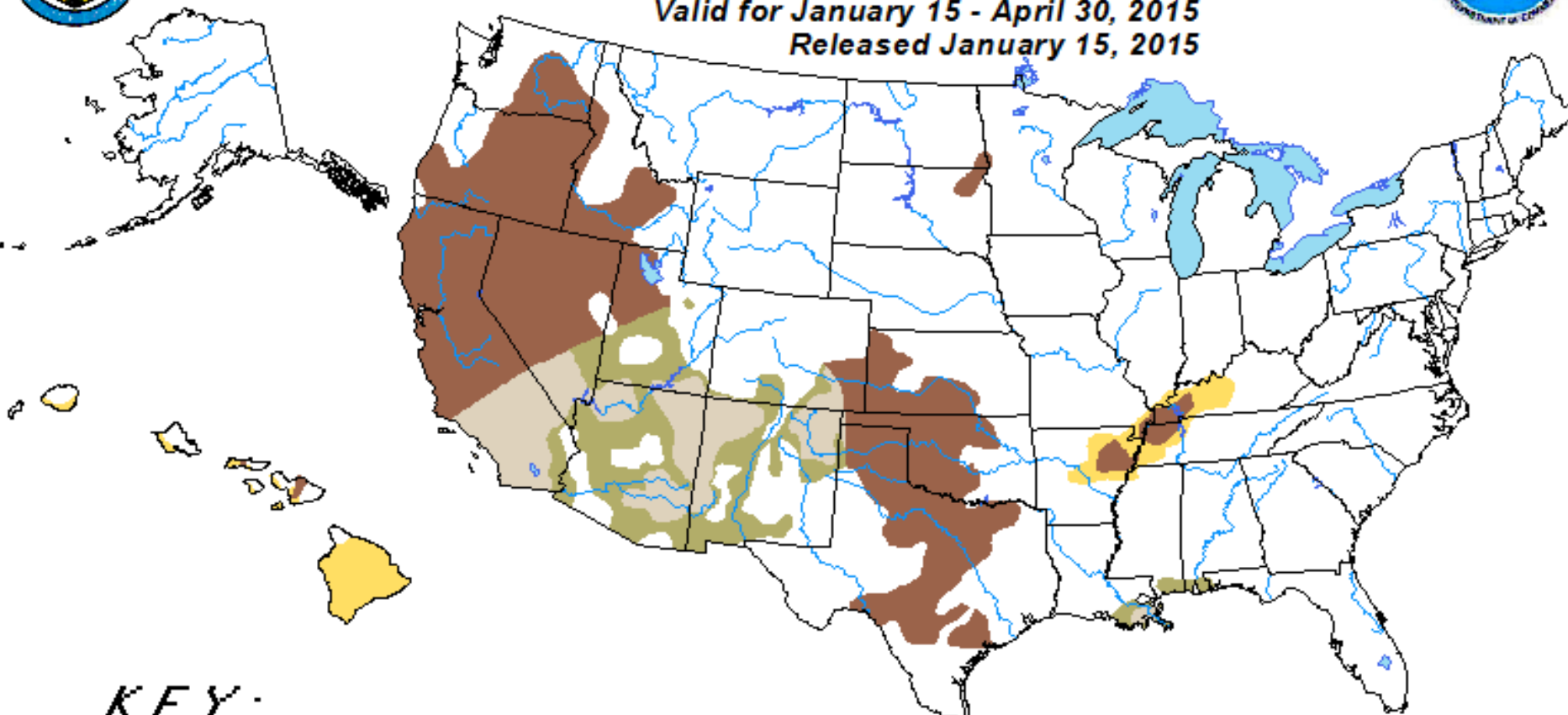


U.S. Seasonal Drought Outlook





Drought Tendency During the Valid Period



Valid for January 15 - April 30, 2015
Released January 15, 2015



KEY:

-  Drought persists or intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely

Author: David Miskus, Climate Prediction Center, NOAA

http://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.html

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events – such as individual storms – cannot be accurately forecast more than a few days in advance. Use caution for applications – such as crops – that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor.

NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain. The green areas imply drought removal by the end of the period (D0 or none)

EL DORADO IRRIGATION DISTRICT

Subject: Ratification of EID General Warrant Registers for the periods ending January 6, January 13, 2015, and Board and Employee Expense Reimbursements for these periods.

Previous Board Action:

February 4, 2002 – The Board approved to continue weekly warrant runs, and individual Board member review with the option to pull a warrant for discussion and Board ratification at the next regular Board meeting.

August 16, 2004 – Board adopted the Board Expense Payments and Reimbursement Policy.

August 15, 2007 – The Board re-adopted the Board Expense Payments and Reimbursement Policy as Board Policy 12065 and Resolution No. 2007-059.

Board Policies (BP), Administrative Regulations (AR), and Board Authority:

Section 24600 of the Water Code of the State of California provides no claim is to be paid unless allowed by the Board.

Summary of Issue:

The District's practice has also been to notify the Board of proposed payments by email and have the Board ratify the Warrant Registers. Copies of the Warrant Registers are sent to the Board of Directors on the Friday preceding the Warrant Register's date. If no comment or request to withhold payment is received from any Director by the following Tuesday morning, the warrants are mailed out and formal ratification of said warrants is agendaized on the next regular Board agenda.

On April 1, 2002, the Board requested staff to expand the descriptions on the Warrant Registers and modify the current format of the Warrant Registers.

On July 30, 2002, the Board requested staff to implement an Executive Summary to accompany each Warrant Register which includes all expenditures greater than \$3,000 per operating and capital improvement plan (CIP) funds.

Staff Analysis/Evaluation:

Warrant registers submitted for January 6, January 13, 2015 totaling \$1,635,302.02, and Board and Employee Expense Reimbursements for these periods.

Current Warrant Register Information

Warrants are prepared by Accounts Payable; reviewed and approved by the Accounting Manager; the Director of Finance and the General Manager or their designee.

<u>Register Date</u>	<u>Check Numbers</u>	<u>Amount</u>
January 06, 2015	644082 – 644169	\$ 457,268.60
January 13, 2015	644170 – 644296	\$ 1,178,033.42

Current Board/Employee Expense Payments and Reimbursement Information

The items paid on Attachment A and B are expense and reimbursement items that have been reviewed and approved by the Clerk to the Board, Accounting Manager and the General Manager before the warrants are released. These expenses and reimbursements are for activities performed in the interest of the District in accordance with Board Policy 12065 and Resolution No. 2007-059.

Additional information regarding Board and employee expense reimbursement is available for copying or public inspection at District headquarters in compliance with Government Code Section 53065.5.

Board Decision/Options:

Option 1: Ratify the EID General Warrant Registers as submitted to comply with Section 24600 of the Water Code of the State of California. Receive and file Board and Employee Expense Reimbursements.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

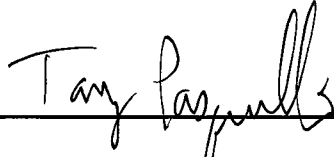
Staff/General Manager's Recommendation:

Option 1.

Support Documents Attached:

Attachment A: Board Expenses/Reimbursements


Attachment B: Employee Expenses/Reimbursements totaling \$100 or more



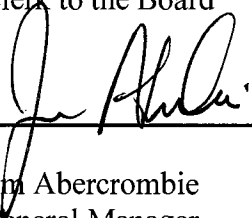
Tony Pasquarello
Accounting Manager



Mark Price
Director of Finance (CFO)



Jennifer Sullivan
Clerk to the Board



Jim Abercrombie
General Manager

Attachment A

Board Expenses/Reimbursements Warrant Registers dated 1/06/15 - 1/13/15

DESCRIPTION	William George	Alan Day	George Osborne	Dale Coco, MD	Greg Prada	Total
Personal Vehicle Expense	144.48					144.48
Hotel	4.00					4.00
Meals or Incidentals Allowance	64.67					64.67
Airfare, Car Rental, Misc Travel	6.00					6.00
Fax, Cell or Internet Service	40.00					40.00
Meeting or Conference Registration						0.00
Meals with Others						0.00
Membership Fees/Dues						0.00
Office Supplies						0.00
Reimburse prepaid expenses						0.00
Miscellaneous Reimbursements						0.00
	259.15	0.00	0.00	0.00	0.00	259.15

Attachment B

Employee Expenses/Reimbursements
Warrant Registers dated 1/06/15 - 1/13/15

EMPLOYEE	DESCRIPTION	AMOUNT
PHILLIP HOUSEWORTH	TRAVEL ADVANCE-TRAINING CLASS	\$391.00
JESUS LEANOS	TRAVEL ADVANCE-TRAINING CLASS	\$391.00
FREDY ZABAN	TRAVEL ADVANCE-TRAINING CLASS	\$391.00
		\$1,173.00



MINUTES
REGULAR MEETING OF THE BOARD OF DIRECTORS
EL DORADO IRRIGATION DISTRICT
District Board Room, 2890 Mosquito Road, Placerville, California
January 12, 2015 ~ 9:00 A.M.

Board of Directors

BILL GEORGE
BOARD PRESIDENT
Division III

GEORGE W. OSBORNE
BOARD VICE PRESIDENT
Division I

Greg Prada
Board Director
Division II

Dale Coco, MD
Board Director
Division IV

Alan Day
Board Director
Division V

General Manager and Executive Staff

JIM ABERCROMBIE
GENERAL MANAGER

THOMAS D. CUMPSTON
GENERAL COUNSEL

Jennifer Sullivan, Clerk to the Board

Mary Lynn Carlton,
Communications/Customer Service

Jose Perez, Human Resources

Tom McKinney, Operations

Brian Mueller, Engineering

Mark Price, Finance

Tim Ranstrom, Information Technology

In accordance with the Americans with Disabilities Act and California law, it is the policy of the El Dorado Irrigation District to offer its public programs, services and meetings in a manner that is readily accessible to everyone, including individuals with disabilities. If you are a person with a disability and require information or materials in an appropriate alternative format; or if you require any other accommodation for this meeting, please contact the EID ADA coordinator at 530-642-4045 or e-mail at adacoordinator@eid.org at least 72 hours prior to the meeting. Advance notification within this guideline will enable the District to make reasonable accommodations to ensure accessibility.

PUBLIC COMMENT: *Anyone wishing to comment about items not on the Agenda may do so during the public comment period. Those wishing to comment about items on the Agenda may do so when that item is heard and when the Board calls for public comment. **Public comments are limited to five minutes per person.***

PUBLIC RECORDS DISTRIBUTED LESS THAN 72 HOURS BEFORE A MEETING: *Any writing that is a public record and is distributed to all or a majority of the Board of Directors less than 72 hours before a meeting shall be available for immediate public inspection in the office of the Clerk to the Board at the address shown above. Public records distributed during the meeting shall be made available at the meeting.*

CALL TO ORDER

President George called the meeting to order at 9:00 A.M.

Roll Call

Board

Present: Directors Osborne, Prada, George, Coco, and Day

Staff

Present: General Manager Abercrombie, Senior Deputy Counsel Poulsen, and Clerk to the Board Sullivan. General Counsel Cumpston absent.

Pledge of Allegiance and Moment of Silence

President George led the Pledge of Allegiance followed by a Moment of Silence dedicated to our troops serving around the world to protect our freedom.

ADOPT AGENDA

ACTION: Agenda was adopted.

MOTION CARRIED

Ayes: Directors Osborne, Prada, George, Coco, and Day

COMMUNICATIONS

General Manager's Employee Recognition

1) Awards and Recognitions

a) We would like to recognize the following employees for their years of service to the District.

Rafael Cardoza	35 years
Mark Scott	25 years
Susan Thompson	25 years
Frank Erickson	25 years
Kelly Cross	20 years
Craig Dovey	20 years
Brian Mueller	20 years
Mike Elder	15 years
Skip Haskell	15 years
Phil Houseworth	15 years
Glen Bingham	15 years
Elizabeth Wells	10 years
Richard Wheeler	10 years
Mitch Wydeveld	10 years
Dan Corcoran	10 years
Steve Frost	10 years
Lisa Gay	10 years
Paul Harvey	10 years
Mike Hodges	10 years
Tony Julian	10 years
Ron Kilburg	10 years
Kim Nethercott	10 years
Bill Petterson	10 years
Alan Planje	10 years
Steve Boren	10 years

General Manager's Employee Recognition continued

Tim Ranstrom	5 years
Srini Sundaram	5 years
Mallory Sisneros	5 years
Pam Hall	5 years

- b) Congratulations, Bill Cassady. Bill has been promoted to the position of Senior Water Use Efficiency Technician in the Finance Department.
- c) Welcome to the District, Jan Wolf. Jan has been hired as a replacement to the position of GIS Analyst. Jan will report to the Engineering Department.
- d) Congratulations, Brian Poulsen. The President and Executive Director of the Association of California Water Agencies (ACWA) presented a Certificate of Appreciation to Senior Deputy General Counsel Brian Poulsen for his contribution to ACWA's comments on the Environmental Protection Agency's proposed rules for defining "Waters of the United States" under the federal Clean Water Act. Brian also prepared detailed comments submitted by EID in this regulatory process.
- e) We received a phone call from Barbara Raines thanking Lea Caudle for her assistance and professionalism. She said "I came in roaring like a lion and went out like a lamb; she is the best problem solver I have had the privilege of talking to in a month of Sundays!"
- f) We received a phone call from Natalia McCormack thanking Abbie Tompkins for her outstanding customer service. She said "She did an excellent job of keeping track of what I was asking for. She explained all my issues and how to find everything I needed."
- g) We received an email from Jim Wiltshire complimenting Martin Humbird for his excellent customer service during the Zandanella break. He stated "EID Staff were GREAT on the phone. Particularly Martin Humbird."

APPROVE CONSENT CALENDAR

ACTION: Consent Calendar was approved.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

PUBLIC COMMENT

None

COMMUNICATIONS

Board of Directors

Director Osborne received a call from Mr. Perry, an EID customer complimenting Jenny Downey, Utility Billing Supervisor for her good work

Director George commented on an upcoming community meeting in the Coloma area that he will be attending.

Clerk to the Board

None

General Manager

- 2) Staff Reports and Updates
 - a) EID Honored for Transparency – Summary by Mary Lynn Carlton
 - b) District Receives Certificate of Achievement for Excellence in Financial Reporting – Summary by Mary Lynn Carlton
 - c) Drought Update and Conservation Progress – Summary by Brian Mueller

CONSENT CALENDAR

1. Finance (Pasquarello)

Ratification of EID General Warrant Registers for the periods ending December 2, December 9, December 16, December 23, and December 30, 2014, and Board and Employee Expense Reimbursements for these periods.

ACTION: Option 1: Ratified the EID General Warrant Registers as submitted to comply with Section 24600 of the Water Code of the State of California. Received and filed Board and Employee Expense Reimbursements.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

2. Clerk to the Board (Sullivan)

Approval of the minutes of the December 8, 2014, regular meeting of the Board of Directors.

ACTION: Option 1: Approved as submitted.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

3. Office of the General Counsel (Cumpston)

Ratification of Resolution Nos. 2014-011 and 2014-023, to maintain emergency declarations.

ACTION: Option 1: Ratified Resolution Nos. 2014-011 and 2014-023 (*thus maintaining both emergency declarations for purposes of bidding, contracting, and CEQA compliance*).

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

4. Finance (Pasquarello)

Consideration to adopt resolutions certifying signatures on the District's checking accounts.

ACTION: Option 1: Adopted Resolution Nos. 2015-002 and 2015-003, certifying signatures for the Bank of America and Umpqua Bank checking accounts.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

5. Engineering (Rice)

Consideration to award a design contract to HydroScience Engineers Inc., in the not-to-exceed amount of \$56,360 and authorize total funding of \$66,360 for the Reservoir A Chemical Feed and Containment Improvements, Project No. 14019.01.

ACTION: Option 1: Awarded a contract to HydroScience Engineers, Inc., in the not-to-exceed amount of \$56,360; and authorized total funding of \$66,360 for the Reservoir A Chemical Feed and Containment Improvements, Project No. 14019.01.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

6. Engineering (Rice)

Ratification of No-Cost Change Order No. 2 to Contract No. E14-03, finding a public necessity exists in adding FD Thomas as a subcontractor on the Reservoir 7B Tank Coating Rehabilitation, Project No. 14004.01.

ACTION: Option 1: Ratification of No-Cost Change Order No. 2 to Contract No. E14-03, finding a public necessity exists in adding FD Thomas as a subcontractor on the Reservoir 7B Tank Coating Rehabilitation, Project No. 14004.01.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

7. Operations (Strahan)

Consideration to approve a contract to Eurofins Eaton Analytical Labs for 2015 analytical services for drinking water and source water samples in the amount not-to-exceed \$54,597 and ratify the 2014 contract change order of \$8,000 for a total 2014 expenditure not-to-exceed \$57,000.

ACTION: Option 1: Approved a contract with Eurofins Eaton Analytical Labs for 2015 drinking water and source water analytical services in the amount not-to-exceed \$54,597 and ratified the 2014 change order of \$8,000 for a total 2014 expenditure not-to-exceed \$57,000.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

8. Engineering (Rice)

Consideration to award a design contract to Domenichelli and Associates in the not-to-exceed amount of \$61,740 and authorize total funding of \$61,740 for the Outingdale Lower Tank Replacement, Project No. 13015.01.

ACTION: Option 1: Awarded a design contract to Domenichelli and Associates in the not-to-exceed amount of \$61,740 and authorized total funding of \$61,740 for the Outingdale Lower Tank Replacement, Project No. 13015.01.

MOTION CARRIED

Ayes: Directors Coco, Day, Osborne, Prada, and George

END OF CONSENT CALENDAR

PUBLIC HEARING ~ 9:45 A.M.

9. Office of the General Counsel (Cumpston)

Proposed amendment to Board Policy 12080 – Meeting Procedures.

Public Hearing opened at 10:03 A.M.

Public Comment: Joe Fuller, Cameron Park
Ed Willyard, El Dorado Hills

ACTION: Option 1: Approved amendment to Board Policy 12080 as presented by staff.

MOTION CARRIED

Ayes: Directors Osborne, Coco, George, and Day

Noes: Director Prada

DIRECTOR ITEMS

10. Board of Directors (Coco)

A report by Director Coco based on his meetings with staff and his tours of District facilities.

Public Comment: Ed Willyard, El Dorado Hills
Joe Fuller, Cameron Park

ACTION: None – Information only.

11. Board of Directors (George)

Discussion of 2015 association and community organization assignments.

Public Comment: Joe Fuller, Cameron Park

ACTION: Option 2: Take other action as directed by the Board.

Concurred with Board President George's recommendation of 2015 association and community organization assignments and added Director Day to the El Dorado Hills Chamber of Commerce Government Relations Committee.

MOTION CARRIED

Ayes: Directors Day, Coco, Osborne, Prada, and George

12. Board of Directors (George)

Nomination of EID Board Director as a Regular Special District Representative to the El Dorado County Local Agency Formation Commission (LAFCO).

Public Comment: Joe Fuller, Cameron Park

ACTION: Option 1: Nominated Director Coco as a Regular Special District Representative to the El Dorado County LAFCO.

MOTION CARRIED

Ayes: Directors Osborne, Day, Prada, George, and Coco

ACTION ITEMS

13. Engineering (Rice)

Consideration to purchase three Weir Floway, Inc. vertical turbine pumps, to be installed at the Moose Hall Pumping Station facilities, in the not-to-exceed amount of \$142,767 and authorize total funding of \$160,193 for the Moose Hall Pump Station Upgrade project, Project No. 14016.01.

Public Comment: Joe Fuller, Cameron Park

ACTION: Option 1: Purchased three Weir Floway, Inc. vertical turbine pumps, to be installed at the Moose Hall Pumping Station facilities, in the not-to-exceed amount of \$142,767 and authorized total funding of \$160,193 for the Moose Hall Pump Station Upgrade project, Project No. 14016.01.

MOTION CARRIED

Ayes: Directors Osborne, Coco, Prada, George, and Day

14. Office of the General Counsel / Engineering (Cumpston/Corcoran)

Approval of Project 184 Five-Year Warren Act Contract with U.S. Bureau of Reclamation.

Public Comment: Ed Willyard, El Dorado Hills
Joe Fuller, Cameron Park
John Wilson, Shingle Springs

ACTION: Option 1: • Considered the Addendum with the Final EIR for the Five-Year Project 184 Warren Act Contract with the U.S. Bureau of Reclamation.
• Specified that documents or other material, which constitute the record of proceedings upon which this decision is based, shall be in the custody of the Clerk to the Board at EID Headquarters.
• Adopted Resolution No. 2015-001, approving and authorizing the General Manager to execute the Five-Year Permit 21112 Warren Act Contract with the U.S. Bureau of Reclamation.

MOTION CARRIED

Ayes: Directors Osborne, Day, Prada, George, and Coco

CLOSED SESSION

A. Closed session pursuant to Government Code section 54957 (Abercrombie)

Public Employee Employment/Performance Evaluation pursuant to Government Code Section 54957(b)(1). Position Title: General Manager. Annual performance review.

ACTION: The Board reviewed the General Manager's job performance and took no reportable action.

B. Closed session pursuant to Government Code section 54956.8 (Cumpston)

Conference with Real Property Negotiators – Real Property Negotiations pursuant to Government Code Section 54956.8.

Properties: Central Valley Project Water Service Contract No. 14-06-200-126-1357A-LTR1;
Warren Act Contract No. 06-WC-20-3315

District negotiators: General Manager, General Counsel

Under negotiation: price and terms of payment for one-year water transfers

Negotiating parties: any interested party

ACTION: The Board gave direction and authority to its negotiating team but took no reportable action.

C. Closed session pursuant to Government Code section 54956.9 (Poulsen)

Conference with Senior Deputy General Counsel – Potential Initiation of Litigation pursuant to Government Code Section 54956.9(d)(4). One potential case: *El Dorado Irrigation District v. All Persons Interested* (validation of Warren Act Contract with U.S. Bureau of Reclamation, Contract No. 15-WC-20-4654).

ACTION: The Board met and conferred with Counsel. On a motion by Director Coco, seconded by Director Prada, and passed on a unanimous 5-0 vote, the Board authorized staff to initiate the validation action against all interested parties pursuant to Code of Civil Procedures, Sections 860 et sec.

D. Closed session pursuant to Government Code section 54956.9 (Poulsen)

Conference with Senior Deputy General Counsel – Significant exposure to litigation pursuant to Government Code Section 54956(d)(2) (termination of contract with Excavating Engineers, Inc. for Camp 2 Bridge Replacement Project).

ACTION: The Board met and conferred with Counsel. On a motion by Director Osborne, seconded by Director Prada, and passed on a unanimous 5-0 vote, the Board authorized staff to continue to advance the critical work of the project within the previously authorized amount of the original contract.

REVIEW OF ASSIGNMENTS

None

ADJOURNMENT

President George adjourned the meeting at 1:26 P.M.

Bill George, President
Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Approved: _____

EL DORADO IRRIGATION DISTRICT

SUBJECT:

Ratification of Resolutions Nos. 2014-011 and 2014-023, to maintain emergency declarations

Board Action:

- February 4, 2014 – Board adopted Resolution No. 2014-006, declaring a drought emergency.
- February 10 and 24, March 10 and 24, April 14 and 28, 2014 – Board ratified Resolution No. 2014-006 to maintain the drought emergency.
- May 12, 2014 – Board adopted Resolution No. 2014-010, renewing and updating the emergency drought declaration.
- June 9, 2014 – Board adopted Resolution No. 2014-011, renewing and updating the emergency drought declaration, ratifying the General Manager's declaration of a Stage 4 Drought Emergency in Outingdale, and ratifying the suspension of Clear Creek flow augmentation.
- June 13, 2014 – At a special meeting, Board authorized staff to increase releases to Clear Creek, using water stored in Jenkinson Lake, to provide approximately 2.0 cubic feet per second flows to ditch customers through July 15.
- June 23, July 14, July 28, August 11, August 25, September 8, October 14, 2014 – Board ratified Resolution No. 2014-011 to maintain the drought emergency.
- October 14, 2014 – Board adopted Resolution 2014-023, declaring an emergency for the repair of the Esmeralda Tunnel.
- October 27, November 10, December 8, 2014 – Board ratified Resolutions Nos. 2014-011 and 2014-023 to maintain the emergency declarations.
- January 12, 2015 – Board ratified Resolutions Nos. 2014-011 and 2014-023 to maintain the emergency declarations.

Board Policies (BP), Administrative Regulations (AR), and Board Authority:

Public Contract Code section 11102: An emergency is a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services.

Public Contract Code section 22050: The Board must ratify the existence of a declared emergency at each subsequent regular Board meeting by four-fifths vote, or the declared

emergency is deemed to be terminated.

California Environmental Quality Act (CEQA) Guidelines section 15359: An emergency is a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health, property, or essential public services.

Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c): exempt from CEQA actions necessary to prevent or mitigate an emergency.

Summary of Issue:

Since February 4, 2014, the Board has taken the following actions to find and determine that the current drought conditions have continuously constituted an emergency:

- Unanimous adoption of Resolution No. 2014 – 006 on February 4, 2014;
- Unanimous ratification of that resolution at six subsequent regular Board meetings through April 28, 2014;
- Adoption of Resolution No. 2014 – 010 on May 12, 2014;
- Adoption of Resolution No. 2014 – 011 on June 9, 2014; and
- Ratification of Resolution No. 2014 – 011 on June 23, July 14, July 28, August 11, August 25, September 8, October 14, October 27, November 10, and December 8, 2014, and January 12, 2015.

Additionally, on October 14, 2014, the Board adopted Resolution No. 2014-023, finding and determining that the Esmeralda Tunnel outage and the need for its expeditious repair each constituted emergencies. The Board ratified this resolution on October 27, November 10, and December 8, 2014, and January 12, 2015.

For these emergency declarations to remain in effect, the Board must find (by four-fifths vote for bidding and contracting purposes) at this regular meeting that the needs for emergency action still exist. This may be achieved by ratifying Resolutions Nos. 2014 – 011 and 2014-023 (attached). Furthermore, the Board must ratify any emergency action taken by District staff pursuant to the authority delegated by the resolutions at its next regular meeting after such action is taken.

Staff Analysis/Evaluation:

In Resolutions Nos. 2014 – 006, – 010, and – 011, the Board found and determined that the current drought conditions constituted an emergency within the meaning of and for the purposes of (among other enactments) Public Contract Code sections 11102, 22050(a)(2), and 20567, Public Resources Code section 21080(b)(4), and CEQA Guidelines sections 15269(c) and 15359. The Board's failure to adopt Resolution No. 2014-010 by four-fifths vote on May 12, and to ratify Resolution No. 2014-011 by four-fifths vote on July 28 terminated the declaration of emergency for purposes of the Public Contract Code. The Board's four-fifths votes to ratify on June 9 and August 11 reinstated

the emergency for those purposes.

In Resolution No. 2014-023, the Board found and determined that the outage of the Esmeralda Tunnel and the need for its expeditious repair to full functionality each constituted emergencies within the meaning of and for the purposes of the same enactments. The Board has maintained this emergency declaration in effect by ratifying Resolution No. 2014-023 at each regular meeting since.

It behooves the District to do what it can to advance projects that could protect or expand available water supplies or otherwise address drought throughout the District, and to expedite the repair of the Esmeralda Tunnel, by authorizing staff to dispense with the delays inherent in the competitive bidding and environmental review processes, in order to bring construction projects and contracts to the Board for consideration more quickly.

Staff has taken no emergency actions since the January 12, 2015 meeting that require ratification at this time. Please refer to the staff report for the September 8, 2014 ratification of the emergency declaration for an explanation of the General Manager's contracting authority in a declared emergency.

Board Decisions/Options:

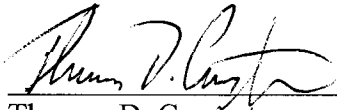
- Option 1:** Ratify Resolutions Nos. 2014 – 011 and 2014-023 (*thus maintaining both emergency declarations for purposes of bidding, contracting, and CEQA compliance*).
- Option 2:** Decline to ratify Resolution No. 2014 – 011 and/or 2014-023 (*thus terminating one or both emergency declarations for purposes of bidding, contracting and CEQA compliance*).
- Option 3:** Take no action (*thus terminating both emergency declarations for purposes of bidding, contracting and CEQA compliance*).

Staff/General Manager's Recommendation:

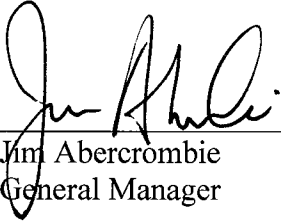
Option 1 (four-fifths vote required for purposes of bidding and contracting).

Support Documents Attached:

- A. Resolution 2014-011
- B. Resolution 2014-023



Thomas D. Cumpston
General Counsel



Jim Abercrombie
General Manager

**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
DECLARING A STAGE 2 WATER WARNING DISTRICT-WIDE,
RATIFYING A STAGE 4 WATER EMERGENCY IN OUTINGDALE,
AND DECLARING THE EXISTENCE OF AN EMERGENCY**

OPERATIVE FACTS

WHEREAS, El Dorado Irrigation District (District) has experienced dry conditions since 2012, with unimpaired runoff in the American River basin of 74% of normal in 2012 and 41% of normal in 2013; and

WHEREAS, calendar year 2013 was the driest year on record in California, and

WHEREAS, January 2014 was the driest January on record in California; and

WHEREAS, as of May 27, 2014, the United States Drought Monitor states that all of El Dorado County is in an extreme drought condition, and more than 76% of California is in extreme or exceptional drought condition, compared to 67% on January 28, 2014; and

WHEREAS, as of May 1, 2014, snow water content in the American River basin was 9% of normal for that date, according to the state Department of Water Resources (DWR); and

WHEREAS, as of May 31, 2014, storage in Folsom Reservoir was at 56% of capacity, which is 68% of average, and total inflow to the reservoir since October 1 has been only 39% of average; and

WHEREAS, the United States Bureau of Reclamation (Reclamation) has stated that it will deliver no more than 50% of adjusted historical average deliveries of Central Valley Project water to Municipal and Industrial contractors such as the District; and

WHEREAS, Jenkinson Lake, the District's largest source of supply at 41,033 acre-feet capacity, will not fill in 2014 despite the importation of more than 6,000 acre-feet of water through the Hazel Tunnel since the beginning of 2013; and

WHEREAS, on January 17, 2014, Governor Edmund G. Brown Jr. proclaimed a state of emergency in California due to drought conditions, and on April 25, 2014, the Governor proclaimed a continued state of emergency for the same reason; and

WHEREAS, the Governor's two proclamations made findings that included the following:

- California's water supplies continue to be severely depleted despite a limited amount of rain and snowfall since January;

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- Extremely dry conditions have persisted since 2012 and the duration of this drought is unknown;
- Among the urgent challenges presented by the severe drought conditions is additional water scarcity if the conditions continue into 2015;
- The magnitude of the severe drought conditions continues to present threats beyond the control of the services, personnel, equipment, and facilities of any single local government;
- Conditions of extreme peril to the safety of persons and property exist in California due to water shortage and drought conditions with which local authority is unable to cope; and

WHEREAS, the Governor’s emergency proclamations included the following directives:

- Californians are called on to reduce their water usage by 20 percent;
- Local urban water suppliers are called on to implement their local water shortage contingency plans immediately to avoid or forestall outright restrictions that could become necessary later in the drought season;
- California residents should refrain from wasting water and in particular should:
 - Avoid using water to clean sidewalks, driveways, parking lots and other hardscapes;
 - Turn off fountains and other decorative water features unless they use recycled or grey water;
 - Limit home vehicle washing by patronizing local carwashes that recycle water;
 - Limit outdoor watering of lawns and landscaping to not more than two times a week;
- Recreational facilities such as parks and golf courses and large institutional complexes, such as school and business parks, should immediately implement water reduction plans to reduce the use of potable water for outdoor irrigation;
- Hotels and restaurants should reduce water usage and increase public awareness of the drought by offering drinking water only upon request and providing customers with options to avoid daily washing of towels or sheets;
- Architectural and landscaping provisions of a common interest development that prohibit compliance with any local or state water conservation measures, such as landscaping installation or maintenance requirements, are void and unenforceable;

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- The State Water Resources Control Board (Water Board) will request a June 15 update from urban water agencies, such as the District, on their actions to reduce water usage, and the effectiveness of those efforts; and

WHEREAS, on May 27, 2014 the Water Board sent notices curtailing all diversions under post-1914 water rights by appropriators in the entire Delta watershed, including the District, subject to exceptions only for public health and safety needs and non-consumptive hydroelectric generation; and

WHEREAS, the District serves the Outingdale community exclusively from a post-1914 water right subject to curtailment except for public health and safety needs; and

WHEREAS, the District provides flow augmentation to Clear Creek from post-1914 water rights subject to curtailment without any applicable exception; and

APPLICABLE LAW, REGULATION, AND POLICY

WHEREAS, Public Resources Code section 21080(b)(4) and CEQA Guidelines section 15269(c) exempt from CEQA any actions that are necessary to prevent or mitigate an emergency; and

WHEREAS, CEQA Guidelines section 15359 defines "emergency" as "a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health, property, or essential public services;" and

WHEREAS, Public Contract Code section 20567 authorizes irrigation districts to let contracts without notice for bids in case of an emergency; and

WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to procure equipment, services, and supplies without giving notice for bids, the governing body must first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the emergency will not permit a delay resulting from a competitive solicitation for bids, and that the action is necessary to respond to the emergency; and

WHEREAS, Public Contract Code section 11102 defines "emergency" as "a sudden, unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent or mitigate the loss or impairment of life, health, property, or essential public services;" and

WHEREAS, District Board Policy 2050 authorizes the District's General Manager to act "in emergency situations where no Board Policies or Administrative Regulations exist;" and

WHEREAS, District Administrative Regulation 3061.1, subdivision g, authorizes emergency procurements of supplies, equipment, services, or construction items when there exists a threat to

1 public health, welfare, or safety, and requires Board of Directors ratification of emergency
2 procurements exceeding \$50,000; and

3 WHEREAS, on March 1, 2014, the Governor signed SB 103 and SB 104 into law, making
4 \$687.4 million available for drought relief, including \$549 million of accelerated infrastructure grants
5 for projects included in Integrated Regional Water Management Plans; and

6 WHEREAS, on February 4, 2014, the Board adopted Resolution 2014-006 declaring an
7 emergency and a Stage 2 Water Warning due to drought conditions, and the Board has ratified
8 Resolution 2014-006 by four-fifths vote at every regular Board meeting thereafter; and

9 WHEREAS, the Board adopted the staff-prepared Drought Action Plan on February 4, 2014,
10 and approved revisions to the Drought Action Plan on April 14 and May 12, 2014;

11 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Directors of
12 the El Dorado Irrigation District (Board) as follows:

- 13 1. The Board concurs with and adopts the findings of the Governor's January 17 and
14 April 25, 2014 emergency proclamations.
- 15 2. The Board renews and continues a Stage 2 Water Warning for the District as a whole,
16 and ratifies the General Manager's declaration of a Stage 4 Water Emergency for the
17 Outingdale service area, in response to the Water Board's May 27 curtailment order.
- 18 3. The Board ratifies the District's suspension of flow augmentation in Clear Creek,
19 which began on June 3, in response to the Water Board's May 27 curtailment order.
- 20 4. The Board finds and declares that the current drought conditions constitute an
21 emergency within the meaning of CEQA Guidelines section 15359, Public Contracts
22 Code section 11102, District Board Policy 2050, and District Administrative
23 Regulation 3061.1, subdivision g.
- 24 5. The Board finds and declares that the adoption of this Resolution and all of the
25 delegations, authorizations, and directions to the General Manager and District staff
26 specified in paragraph 7, below, satisfy the requirements and criteria of Public
27 Resources Code section 21080(b)(4), CEQA Guidelines section 15269(c), and Public
Contract Code sections 22050(a)(2) and 20567.
6. The foregoing findings and declarations are based upon all written, oral, and visual
evidence, including both facts and professional opinions, presented to the Board at the

1 meetings of February 4, 10, and 24, March 10 and 24, and April 2, 14, and 28, 2014,
2 and at the hearing of this Resolution.

- 3 7. The Board hereby delegates, authorizes, and directs the District General Manager and his
4 designees to take all actions reasonably deemed necessary to respond to the emergency
5 conditions declared herein, including but not limited to the following
6 specific actions:
- 6 a. Continue to pursue the proposal pending before the Water Board for temporary
7 modification of the minimum instream flow requirements prescribed for the Deer
8 Creek Wastewater Treatment Plant by Water Rights Order No. WR 95-9, for as
9 long as drought conditions persist.
 - 10 b. Implement throughout the District all Stage 2 drought actions, other than rate surcharges,
11 detailed in the Drought Action Plan approved by the Board on May 12, 2014.
 - 12 c. Implement in the Outingdale service area all Stage 4 drought actions, other than
13 rate surcharges, detailed in the Drought Action Plan approved by the Board on
14 May 12, 2014.
 - 15 d. Enter into professional services and construction contracts as reasonably deemed
16 necessary to expedite the preservation and enhancement of water supply
17 availability for the District's customers.
 - 18 e. Report to and seek ratification of the Board for any actions taken in excess of
19 normal authority or authority expressly granted by this Resolution, at the first
20 regular Board meeting held after each such action.
 - 21 f. Continue to report to the Board at least monthly, and more often if necessary, on
22 the current status of the drought conditions, responsive actions taken, weekly
23 water usage data, and the need, if any, for further Board actions, including a
24 Stage 3 drought declaration and the declaration of a water supply emergency.
- 25 8. This Resolution shall take effect immediately upon adoption. Subject to the
26 ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2),
27 and by District Administrative Regulation 3061.1, subdivision g, this Resolution
shall remain in full force and effect until rescinded by a subsequent Resolution of the
Board of Directors.

1 The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the
2 EL DORADO IRRIGATION DISTRICT, held on the 9th day of June 2014, by Director Day who
3 moved its adoption. The motion was seconded by Director Coco and a poll vote taken which stood
4 as follows:

5 AYES: Directors Day, Coco, Osborne, and George

6 NOES: Director Prada

7 ABSENT:

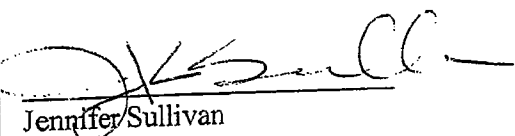
8 ABSTAIN:

9 The motion having a majority of votes "Aye", the resolution was declared to have been
10 adopted, and it was so ordered.



11 _____
12 Alan Day, President
13 Board of Directors
14 EL DORADO IRRIGATION DISTRICT

15 ATTEST:

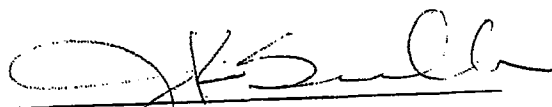


16 Jennifer Sullivan
17 Clerk to the Board
18 EL DORADO IRRIGATION DISTRICT

19 (SEAL)

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1 I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT
2 hereby certify that the foregoing resolution is a full, true and correct copy of a Resolution of the
3 Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a
4 regular meeting of the Board of Directors held on the 9th day of June 2014.



Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT
DECLARING AN EMERGENCY
FOR REPAIR OF THE ESMERALDA TUNNEL**

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WHEREAS, the Esmeralda tunnel is a facility of the El Dorado Irrigation District (District) hydroelectric Project 184; and

WHEREAS, besides generating power, Project 184 supplies up to 15,080 acre-feet of drinking water annually to customers throughout the District, representing more than one-third of the District's supplies, and is also the source of the 17,000 acre-foot per year Permit 21112 water right; and

WHEREAS, the District cannot make normal water deliveries from Project 184 to Forebay Reservoir without a fully functioning Esmeralda tunnel; and

WHEREAS, if the District cannot make normal water deliveries to Forebay Reservoir, it cannot conduct normal electrical generation operations, make normal drinking water deliveries to its customers, or provide needed water deliveries for fire suppression; and

WHEREAS, the District cannot utilize the Hazel Creek tunnel to deliver Project 184 water to Jenkinson Lake as a drought mitigation strategy, without a fully functioning Esmeralda tunnel; and

WHEREAS, electrical generation, the provision of drinking water, the provision of water for fire suppression, and the mitigation of drought conditions during the District's declared Stage 2 drought emergency are all essential public services which, if impaired, put life, health, and property at risk; and

WHEREAS, on September 21, 2014, District sensors suddenly and unexpectedly recorded high water in the Project 184 canal upstream of Esmeralda tunnel, which upon investigation proved to be the result of a complete blockage of the Esmeralda tunnel by dirt and debris; and

WHEREAS, the tunnel blockage was the result of earth movement that could not have been foreseen or predicted; and

WHEREAS, Public Resources Code section 21080(b)(2) and (4) and CEQA Guidelines section 15269(b) and (c) exempt from CEQA any actions that are necessary to repair, prevent, or mitigate an emergency; and

WHEREAS, CEQA Guidelines section 15359 defines "emergency" as "a sudden, unexpected occurrence, involving a clear and imminent danger, demanding immediate action to prevent or mitigate loss of, or damage to life, health, property, or essential public services;" and

1 WHEREAS, Public Contract Code section 20567 authorizes irrigation districts to let contracts
2 without notice for bids in case of an emergency; and

3 WHEREAS, Public Contract Code section 11102 defines “emergency” as “a sudden,
4 unexpected occurrence that poses a clear and imminent danger, requiring immediate action to prevent
5 or mitigate the loss or impairment of life, health, property, or essential public services;” and

6 WHEREAS, District Board Policy 3060 authorizes emergency procurements of supplies,
7 equipment, services, or construction items when there exists a threat to public health, welfare, or
8 safety, and requires Board of Directors ratification of emergency procurements exceeding \$50,000; and

9 WHEREAS, District Administrative Regulation 3061.05, subdivision e. authorizes the sole-
10 source procurement of goods and services, including constructions services, when an emergency or
11 extraordinary circumstances require immediate action that cannot be delayed for obtaining bids or
12 proposals; and

13 WHEREAS, Public Contract Code section 22050(a)(2) requires that before action is taken to
14 procure equipment, services, and supplies without giving notice for bids, the governing body must
15 first make a finding, based on substantial evidence set forth in the minutes of its meeting, that the
16 emergency will not permit a delay resulting from a competitive solicitation for bids, and that the
17 action is necessary to respond to the emergency;

18 NOW, THEREFORE, BE IT AND IT IS HEREBY RESOLVED by the Board of Directors of
19 the El Dorado Irrigation District (Board) as follows:

- 20 1. The Board finds and declares that the Esmeralda tunnel outage and the need for expeditious
21 repair of the Esmeralda tunnel to full functionality each constitute emergencies within the
22 meaning of Public Contract Code section 11102, CEQA Guidelines section 15359, and
23 District Board Policy 3060.
- 24 2. The Board finds and declares that the emergency will not permit a delay resulting from a
25 competitive solicitation for bids, and that the expeditious retention of professional services
26 and constructions services, including by sole-source negotiation, is necessary to respond to
27 the emergency.
3. The Board finds and declares that the adoption of this Resolution satisfies the requirements
and criteria of Public Resources Code section 21080(b)(2) and (4), CEQA Guidelines
section 15269(b) and (c), and Public Contract Code sections 22050(a)(2) and 20567.

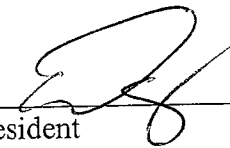
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- 4. The foregoing findings and declarations are based upon all written, oral, and visual evidence, including both facts and professional opinions, presented to the Board at the meeting of October 14, 2014 and at the hearing of this Resolution.
- 5. This Resolution shall take effect immediately upon adoption. Subject to the ratification required by Public Contract Code sections 22050(b)(3), (c)(1), and (c)(2), and by District Board Policy 3060, this Resolution shall remain in full force and effect until rescinded or replaced by a subsequent Resolution of the Board of Directors.

The foregoing Resolution was introduced at a regular meeting of the Board of Directors of the EL DORADO IRRIGATION DISTRICT, held on the 14th day of October 2014, by Director Osborne who moved its adoption. The motion was seconded by Director George and a poll vote taken which stood as follows:

- AYES: Directors Osborne, George, Prada, Coco, and Day
- NOES:
- ABSENT:
- ABSTAIN:

The motion having a majority of votes "Aye", the resolution was declared to have been adopted, and it was so ordered.


 Alan Day, President
 Board of Directors
 EL DORADO IRRIGATION DISTRICT

ATTEST:


 Jennifer Sullivan
 Clerk to the Board
 EL DORADO IRRIGATION DISTRICT

(SEAL)

1 I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby
2 certify that the foregoing resolution is a full, true and correct copy of a Resolution of the Board of
3 Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular
4 meeting of the Board of Directors held on the 14th day of October 2014.



Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

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EL DORADO IRRIGATION DISTRICT**Subject:**

Consideration to award a contract to Energy Systems for the purchase of five stationary generators to be installed at water and wastewater facilities in the not-to-exceed amount of \$169,300 plus tax. Authorize total funding of \$66,469 for Project No. 13008.01 and \$79,762 for Project No. 12012.01 to supplement the current funding balance of \$98,831.

Previous Board Action:

December 10, 2012 – The Board awarded a contract to Cummins West Inc. for the purchase of two stationary generators to be installed in wastewater lift stations.

October 14, 2014 – The Board adopted the 2015 – 2019 Capital Improvement Plan, which included the water and wastewater generator CIP projects, subject to funding availability

January 13, 2014 - The Board awarded a contract to California Diesel and Power for the purchase of four stationary generators to be installed at water facilities.

Board Policies (BP) and Administrative Regulations (AR), and Board Authority:

BP 3060 requires Board approval for all purchases over \$50,000. AR 3061.1(a)(1) provides that competitive sealed bids shall be awarded to the lowest responsible and responsive bidder.

Summary of Issue:

Several facilities within the District's water and wastewater system require backup power generators for the purposes of providing temporary power during power outages. The Wastewater and Water Generator Replacement programs have been an annual CIP program in which facilities are evaluated and scheduled for either new installation or replacement generators as necessary.

New installations and replacing generators which are past their useful life will reduce the potential of service outages. Services provide for fire flow and environmental protection, and reduce the risk to public health.

Staff Analysis/Evaluation:

A District staff team was assembled which comprised of members from engineering, wastewater and water distribution system operations, and fleet maintenance. The team performed an evaluation of the 63 wastewater lift stations and 38 water pump stations and all treatment facilities and determined the facilities in need of a new or replacement generator. At some

locations the generator exceeded its useful life where either maintenance costs are excessive, emissions compliance is an issue, serviceability is not possible, and reliability is inadequate. The evaluation resulted in identification of five facilities requiring replacement generators. The facilities for water are: Reservoir A Water Treatment Plant, and Swansboro pump station. Facilities for wastewater are: Herbert Green, Waterford 8 and Waterford 9 lift stations. The locations were selected as the highest priority because they provide drinking water treatment, reliable service for community fire protection, backup power to prevent raw sewage spills in addition to meeting normal customer demands.

Reservoir A Water Treatment Plant

The Reservoir A Water Treatment Plant is located in Pollock Pines, 3.5 miles south of US Highway 50. Depending on operation configurations, at times this plant treats all water distributed in the District. The treatment plant currently has a backup power generator which was a used generator passed down from another District location. The generator has reached the end of its useful life and is in need of replacement to maintain power for water service reliability. Staff has determined that a 350 KW diesel generator should be installed to provide adequate backup power.

Swansboro Pump Station

The Swansboro Pump Station is located in the community of Swansboro, approximately 7.5 miles north east of Placerville and serves approximately 100 customers. The pump station currently has a backup power generator but the generator is past its useful life and needs to be replaced to maintain power for water service reliability and fire flow protection. Staff has determined that an 85 KW diesel generator should be installed to provide adequate backup power.

Herbert Green Lift Station

The Herbert Green Lift Station is located one half mile south of US Highway 50 near the intersection of Forni and Missouri Flat Roads and serves 95 customers. The lift station currently has a backup generator; however the generator has reached its useful life and is in need of replacement to provide continuous power to service customers during power outages and to prevent raw sewage spills. Staff has determined that a 100 KW diesel generator should be installed to provide adequate backup power.

Waterford 8 Lift Station

The Waterford 8 Lift Station is located five miles north of US Highway 50 near the intersection of Lomita Way and Lakehills Drive and serves 215 customers. The lift station currently has a backup generator; however the generator has reached its useful life and is in need of replacement to provide continuous power to service customers during power outages and to prevent raw sewage spills. Staff has determined that a 50 KW diesel generator should be installed to provide adequate backup power.

Waterford 9 Lift Station

The Waterford 9 Lift Station is located 4 miles north of US Highway 50 near the intersection of Salmon Falls Road and Lakehills Drive and serves 608 customers. The lift station currently has a backup generator; however the generator has reached its useful life and is in need of replacement to service customers during power outages and to provide continuous power to prevent raw sewage spills. Staff has determined that a 50 KW diesel generator should be installed to provide adequate backup power.

Bidding Process

Engineering staff worked with operations staff to develop a specification which delineated the requirements for replacement generators. The specification was sent out for bidding of five generators and January 6, 2015 five bids were received. Two bids were from the same bidder with two options. The bids submitted are as follows:

<u>Company</u>	<u>Bid Total</u>
Energy Systems (option 2)	\$169,300
Leete Generators	\$184,389
Global Power	\$227,000
CA Diesel and power	\$244,467
Energy Systems (option 1)	Non responsive

The bids were reviewed for responsiveness and Energy Systems was determined to have the lowest most responsive bid (see attached bid summary). Energy Systems will supply the generators and the installation will be performed by in-house District crews.

Environmental Review

Staff has determined that the project is categorically exempt from the California Environmental Quality Act (CEQA) as a Class 2 exemption (Replacement or Reconstruction of Facilities), pursuant to Section 15302 of the CEQA Guidelines. Staff will file the Notice of Exemption immediately following approval of the project by the Board.

Consequences of Postponing the Project:

Project prioritization, and deferral when appropriate, is part of staff's analysis of any project under development. The implications of postponing the Project have been analyzed for financial and service reliability risk. If the Project were delayed, the District would be at risk in providing reliable water treatment and service, including fire suppression pressure and flow during power outage periods, or in preventing sewage spills affecting residential communities within the service connection areas. Staff recommends proceeding with the project.

Funding:

Water Generators

Additional funding is needed for installation such as conduits, wiring, concrete pedestals, capitalized labor, and permits. Funding for the purchase and installation of the stationary generators is from Water Rates (100%).

Funding Summary

Energy Systems Bid (two generators)	\$ 97,250
Tax (8%)	6,968
Materials, concrete, permits	10,000
Contingency	12,025
<u>Capitalized Labor</u>	<u>6,033</u>
Subtotal	\$132,276
<u>Current project balance</u>	<u>\$ (65,807)</u>
Total requested funding	\$ 66,469

Wastewater Generators

Additional funding is needed for installation such as conduits, wiring, concrete pedestals, capitalized labor, and permits. Funding for the purchase and installation of the stationary generators is from Wastewater Rates (100%).

Funding Summary

Energy Systems Bid (three generators)	\$ 72,050
Tax (8%)	4,904
Materials, concrete, permits	15,000
Contingency	9,799
<u>Capitalized Labor</u>	<u>6,033</u>
Subtotal	\$107,786
<u>Current project balance</u>	<u>\$ (28,024)</u>
Total requested funding	\$ 79,762

Board Decision/Options:

Option 1: Award a contract to Energy Systems for the purchase of five stationary generators to be installed at water and wastewater facilities in the not-to-exceed amount of \$169,300 plus tax. Authorize total funding of \$66,469 for Project No. 13008.01 and \$79,762 for Project No. 12012.01 to supplement the current funding balance of \$98,831.

Option 2: Take other action as directed by the Board

Option 3: Take no action

Staff/General Manager's Recommendation:

Option 1

Support Documents Attached:

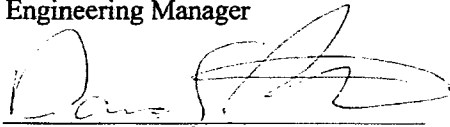
- A. Bid Summary
- B. CIP Summaries
- C. Energy Systems Bid Form
- D. CEQA Notice of Exemption



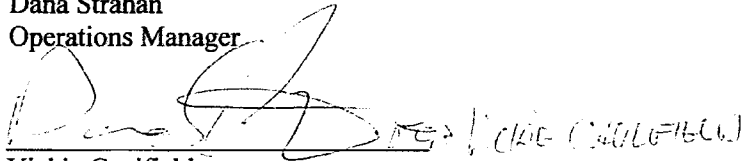
Tim Sullivan, P.E.
Senior Engineer



Elizabeth Wells, P.E.
Engineering Manager



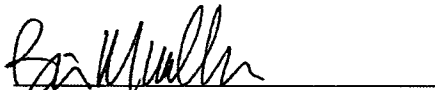
Dana Strahan
Operations Manager



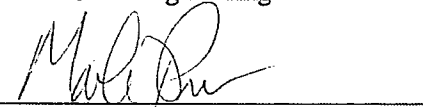
Vickie Caulfield
Operations Manager



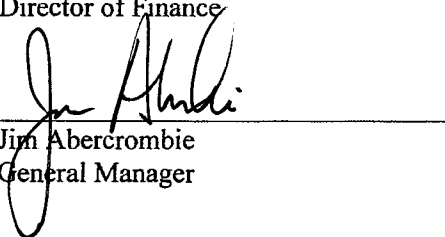
Dan Corcoran
Environmental Manager



Brian Mueller
Director of Engineering



Mark Price
Director of Finance



Jim Abercrombie
General Manager

EL DORADO IRRIGATION DISTRICT

FIVE STATIONARY DIESEL GENERATORS

PROJECT NO. ; CONTRACT NO. P14-09

Bid Opening: 1/06/15 3pm

SUMMARY OF BIDS RECEIVED

ITEM NO.	WORK OR MATERIAL	QUANTITY	UNIT	ENERGY SYSTEMS	Energy Systems "Adder" Bid	LEETE GENERATORS	GLOBAL POWER GROUP, INC.	CA Diesel & Power
				Stockton, CA	Stockton, CA	Santa Rosa, CA	Lakeside, CA	Sacramento, CA
				UNIT PRICE (FIGURES)	UNIT PRICE (FIGURES)	UNIT PRICE (FIGURES)	UNIT PRICE (FIGURES)	UNIT PRICE (FIGURES)
1	One (1) 50 KW Generator	1	EA	21,250.00	21,250.00	27,775.00	30,600.00	33,889.00
2	One (1) 50 KW Generator	1	EA	21,250.00	21,250.00	27,775.00	30,600.00	33,889.00
3	One (1) 85 KW Generator	1	EA	26,550.00	29,050.00	30,368.00	35,600.00	41,795.00
4	One (1) 100 KW Generator	1	EA	29,550.00	29,550.00	33,625.00	36,600.00	41,795.00
5	One (1) 350 KW Generator	1	EA	68,200.00	68,200.00	64,846.00	93,600.00	93,099.00
TOTAL				\$ 166,800.00	\$ 169,300.00	\$ 184,389.00	\$ 227,000.00	\$ 244,467.00

THIS TABULATION REPRESENTS A TRUE AND COMPLETE SUMMARY OF BIDS RECEIVED BY EL DORADO IRRIGATION DISTRICT

PROJECT NO. ; CONTRACT NO. P14-09

PREPARED BY: Edward Ruiz
Buyer II



Tim Sullivan, P.E., F. ASCE, Project Engineer

2014

CAPITAL IMPROVEMENT PLAN Program:

Wastewater

Project Number: 12012
Project Name: Wastewater Generator Replacement Program
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 10/15/13

Project Description:

The District currently has 45 permanently located (stationary) generators within the wastewater collections system. Thirteen are larger than 200 Kw and are emergency standby power at the wastewater and water treatment plants as well as pumping stations. Some of the sewer lift stations also have either diesel or propane generators for emergency power. This program is to replace these aging assets to ensure reliable service and safe operations at our facilities.

In 2013 District staff converted three portable generators to permanent and installed them in lift stations. Staff also replaced two generators with new ones. In 2014 this project will continue to replace at least two lift station generators on a priority basis. The cost of replacement will significantly increase starting in 2014 since in house staff will no longer be performing the installations.

Basis for Priority:

Replace failing assets to ensure operation of collection system lift stations.

Project Financial Summary:			
Funded to Date:	\$ 265,053	Expenditures through end of year:	\$ 265,053
Spent to Date:	\$ 169,346	2014 - 2018 Planned Expenditures:	\$ 1,150,000
Cash flow through end of year:	\$ 95,707	Total Project Estimate:	\$ 1,415,053
Project Balance	\$ -	Additional Funding Required	\$ 1,150,000

Description of Work	Estimated Annual Expenditures					Total
	2014	2015	2016	2017	2018	
Study/Planning	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
Design	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000
Construction	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000
						\$ -
TOTAL	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 230,000	\$ 1,150,000

Funding Sources	Percentage	2014	Amount
Wastewater Rates	100%		\$230,000
			\$0
			\$0
Total	100%		\$230,000

Funding Comments: Project replaces existing assets to ensure reliability in collection system.

2014

CAPITAL IMPROVEMENT PLAN Program:

Water

Project Number: 13008
Project Name: Water Generator Replacement
Project Category: Reliability & Service Level Improvements
Priority: 2 **PM:** Sullivan **Board Approval:** 10/15/13

Project Description:

The District does not maintain adequate emergency back-up power for many of the water pump stations and treatment facilities. In addition, some generators are at the end of their service life and are in need of replacement.

In 2013 four generators were purchased and installed by in-house staff of which one generator was a replacement at a water treatment facility and three were new installations for pumps stations that had no previous backup power. Staff intends to continue this program annually until a substantially reliable level of backup power is present in all critical locations.

Basis for Priority:

Treatment facilities and many of the pump stations supply fire hydrants yet do not have standby back-up power, posing significant public safety risk.

Project Financial Summary:			
Funded to Date:	\$ 15,000	Expenditures through end of year:	\$ 225,352
Spent to Date:	\$ 5,352	2014 - 2018 Planned Expenditures:	\$ 750,000
Cash flow through end of year:	\$ 220,000	Total Project Estimate:	\$ 975,352
Project Balance	\$ (210,352)	Additional Funding Required	\$ 960,352

Description of Work	Estimated Annual Expenditures					Total
	2014	2015	2016	2017	2018	
Study/Planning						\$ -
Design						\$ -
Construction	\$ 250,000	\$ 250,000	\$ 125,000	\$ 125,000	\$ -	\$ 750,000
						\$ -
TOTAL	\$ 250,000	\$ 250,000	\$ 125,000	\$ 125,000	\$ -	\$ 750,000

Funding Sources	Percentage	2014	Amount
Water Rates	100%		\$460,352
			\$0
			\$0
Total	100%		\$460,352

Funding Comments:

Exhibit A – Bid Form

 **COPY**

THIS BID IS SUBMITTED BY:

Energy Systems

(Firm/Company Name)

FIVE STATIONARY DIESEL GENERATORS

RFB P14-07

Bid Schedule

ITEM	DESCRIPTION	QUANTITY	UNIT	BID PRICE
1.	One (1) 50 KW generator	1	Each	\$ 18,000
2.	Delivery of 50 KW generator	1	Each	\$ 800
3.	Field Test of 50 KW generator	1	Each	\$ 2,450
4.	One (1) 50 KW generator	1	Each	\$ 18,000
5.	Delivery of 50 KW generator	1	Each	\$ 800
6.	Field Test of 50 KW generator	1	Each	\$ 2,450
7.	One (1) 85 KW generator	1	Each	\$ 22,600
8.	Delivery of 85 KW generator	1	Each	\$ 1,500
9.	Field Test of 85 KW generator	1	Each	\$ 2,450
10.	One (1) 100 KW generator	1	Each	\$ 25,300
11.	Delivery of 100 KW generator	1	Each	\$ 1,800
12.	Field Test of 100 KW generator	1	Each	\$ 2,450
13.	One (1) 350 KW generator	1	Each	\$ 62,000
14.	Delivery of 350 KW generator	1	Each	\$ 2,900
15.	Field Test of 50 KW generator	1	Each	\$ 3,300 -

WFS

WF9

Swanston

HG

Res A

option 2
100KW
(25,100)

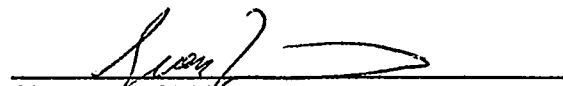
\$ 166,800

Total Bid Price: One hundred Sixty Six Thousand, eight hundred dollars
(Written in Words)

In submitting this bid, bidder agrees to all of the terms and conditions of this Request for Bids and agrees to keep this bid open for acceptance by El Dorado Irrigation District (EID) for sixty (60) calendar days from the date that it is opened by EID.

Certification

I certify (or declare) under penalty of perjury under the laws of the State of California that: I have inspected the site prior to bidding; all of the information submitted with this bid is true and correct; and that the person signing below is duly authorized to submit this bid on behalf of bidder.


Signature of Bidder

End of Exhibit A

Adder for upsizing the 80KW to 100KW
\$2,500

Notice of Exemption
PLEASE POST – DO NOT REMOVE BEFORE 12/16/2013

To: County Clerk
 County of El Dorado
 360 Fair Lane
 Placerville, CA 95667

From: El Dorado Irrigation District
 2890 Mosquito Road
 Placerville, CA 95667

Project Title: Drinking Water and Wastewater Emergency Backup Generators Replacement Project

Project Location - Specific: Sly Park U.S.G.S 7.5" Quadrangle, Township 10N, Range 12E, Section 13; Slate Mountain U.S.G.S 7.5" Quadrangle, Township 11N, Range 11E, Section 16; Placerville U.S.G.S 7.5" Quadrangle, Township 10N, Range 11E, Section 14; Clarksville U.S.G.S 7.5" Quadrangle, Township 10N, Range 8E, Section 15

Project Location - City: Sly Park, Swansboro, Placerville, and El Dorado Hills

Project Location - County: El Dorado County

Description of Project: The El Dorado Irrigation District (District) is proposing to replace existing backup generators at the Herbert Green, Waterford 8, and Waterford 9 wastewater lift stations; and at the Reservoir A Water Treatment Plant and Swansboro water pump station. Replacement of the backup generators has been determined necessary as a safety precaution to provide continuous power for pumping of wastewater to prevent raw sewage spills and waterflow to fire hydrants in the event of a power outage. The existing generators will be replaced with diesel generators that meet the California Air Resources Board (CARB) recent Tier 3 emissions standard. Project activities will include replacement of an emergency backup generator at each of the five facilities. A concrete slab approximately 6-foot by 4-foot will need to be constructed at the Waterford 8 and Waterford 9 lift stations to support the replacement generators; otherwise, the other generators will be placed in the same location as the existing generators. All work activities will occur within the previously excavated areas of the facilities, and therefore minimal ground disturbance will occur and no trees or shrubs will be disturbed. All construction spoils will be disposed offsite in accordance with all applicable regulations. Construction equipment expected to be used during project work includes: a crane, hauling truck, concrete truck, small excavator, pick-up trucks, safety equipment, and miscellaneous hand and power tools. Standard fugitive dust and erosion control BMPs will be employed during and after construction to avoid any impacts to air and water quality. Construction is anticipated to occur during the normal business hours of 7 a.m. to 5 p.m. Monday through Friday. Construction activities at each of the sites will occur for approximately one week. No impacts to District customers will occur.

Name of Public Agency Approving and Carrying Out Project: El Dorado Irrigation District

Exempt Status: (check one)

- Categorical Exemption - Class 2 (Replacement and Reconstruction of Facilities) CCR, Title 14, Sec. 15302
 Statutory Exemption - Declared Emergency (CCR, Title 14, Sec. 15269(a);
 Statutory Exemption - Emergency Project (CCR, Title 14, Sec. 15269(b)(c);
 Statutory Exemption - Ministerial (CCR, Title 14, Sec. 15268);
 Statutory Exemption - [Title] (CCR, Title 14, Sec)
 Other Exemption - [Title] (CCR, Title 14, Sec)

Reasons why project is exempt: None of the applicable exceptions to this exemption, as identified under CCR, Title 14 section 15300.2, are valid for this project, including significant effect due to unusual circumstances, scenic highways, hazardous waste sites, cumulative impact, and historical resources.

Lead Agency Contact Person: Kristin Schaeffer **Area Code/Telephone/Extension:** (530) 642-4006

Signature: _____

Date: _____

Name: Kristin Schaeffer

Title: Environmental Review Analyst

Signed by Lead Agency

EL DORADO IRRIGATION DISTRICT

Subject: Funding approval for District Capital Improvement Plan (CIP) Projects

Recent Board Action:

October 14, 2014 – The Board adopted the 2015-2019 CIP, subject to available funding.

Board Policies (BP) and Administrative Regulations (AR):

Staff advised that each CIP project would be presented to the Board for funding approval.

Summary of Issue:

Board approval is required to authorize CIP funding prior to staff proceeding with work on the projects.

Staff Analysis/Evaluation:

The CIP projects identified in Table 1-1 on page 2 requires immediate funding.

Funding Source:

The primary funding source for the District CIP projects are listed in Table 1-1. Table 1-1 also lists the projects currently in progress and the amount of funding requested.

The CIP project descriptions for these projects are also attached for review. (Exhibit A)

**Table 1-1
CIP Funding Request**

	Project Name and Number	2015-2019 CIP Plan¹	Funded to Date	Actual Costs to date²	Amount Requested	Funding Source
1.	FERC C15 Pesticide Use 07010H	\$809,254	\$528,000	\$542,399	\$95,000	53% Water FCC's 47% Water rates
2.	AMR and Small Meter Replacement-PH 5 15001	\$500,000	\$0	\$0	\$100,000	100% Water rates
3.	Replacement of Large Multifunctional Printers 14010	\$0	\$70,000	\$69,234	\$10,000	60% Water rates 40% Wastewater rates
	TOTAL FUNDING REQUEST				\$205,000	

¹ Includes all existing costs plus any expected costs in the 5 year CIP Plan.

² Actual costs include encumbrances.

The following section contains a brief breakdown and description of the projects in the table. For complete description of the CIP projects see Exhibit A.

CIP Funding Request

Project No.	07010H	Board Date	1/26/2015
Project Name	FERC C15 Pesticide Use		
Project Manager	Gibson		

Budget Status	\$	%
Funded to date	\$ 528,000	--
Spent to date	\$ 542,399	103%
Current Remaining	\$ (14,399)	(3%)

Funding Request Breakdown	\$
Materials	\$ 8,550
Labor	\$ 86,450
Total	\$ 95,000

Funding Source
53% Water rates 47% Water FCC's

Description
<p>This project is a mandatory requirement pursuant to United States Forest Service (USFS) Section 4(e) Condition No. 15 Pesticide Use and Article 20 of the FERC Project No. 184 license. Funding is requested to implement the Project No. 184 Integrated Pest Management Plan (IPMP) which addresses pesticide use at EID facilities located on USFS lands. Pest management is a critical component of on-going operation and maintenance of EID facilities. The primary objective of the IPMP is to provide guidelines to control unwanted vegetation and pests at EID facilities while providing for the protection and maintenance of forest resources. Funding is requested to perform vegetation and pest control treatments, administer the IPMP training and reporting requirements, and purchase chemicals and materials for 2015.</p>

CIP Funding Request

Project No.	15001	Board Date	1/26/2015
Project Name	AMR and Small Meter Replacement – Phase 5		
Project Manager	Pritchard		

Budget Status	\$	%
Funded to date	\$ 0	--
Spent to date	\$ 0	
Current Remaining	\$ 0	

Funding Request Breakdown	\$
Materials	\$ 90,000
Labor	\$ 10,000
Total	\$ 100,000

Funding Source
100% Water rates

Description
<p>This project replaces old, inaccurate, or broken meters and adds automated meter read capability to existing meters. The project is MISSION REQUIRED because it provides for replacement of inaccurate and non-working meters and enables all meters to be read in time for billing. The LIABILITY/RISK to the District if this project is not implemented includes possibility of employee injury, increased labor expenses for manually reading the meters and inputting manual data into the computer system, and loss of customer confidence due to inaccurate and estimated reads. REGULATORY: Continued implementation of meter replacement and AMR/AMI technology keeps the District in compliance with the CUWCC's MOU BMP # 4. SAFETY/SECURITY: This project reduces potential exposure to injury caused by scaling uneven and unsafe terrain; bending and stooping; raising heavy lids and hazards on private property. As of December 31, 2014 there are 22,764 meters that are equipped with radio read devices. There are 21,459 meters that still require upgrade. Project funding should allow the District to install approximately 300 radio read meters per year.</p>

CIP Funding Request

Project No.	14010	Board Date	1/26/2015
Project Name	Replacement of Large Multifunctional Printers		
Project Manager	Ranstrom		

Budget Status	\$	%
Funded to date	\$ 70,000	--
Spent to date	\$ 69,324	99%
Current Remaining	\$ 676	1%

Funding Request Breakdown	\$
Equipment	\$ 10,000
Total	\$ 10,000

Funding Source
60% Water rates 40% Wastewater rates

Description
<p>This request adds funds to complete the project to replace large aged multifunction printers (MFPs) that are more costly to continue operating versus replacement. Staff underestimated the cost to replace the final few MFPs, and just one unit remains to be replaced. This final funding request will provide the needed funds to replace the sole remaining aged MFP with the District's current standard MFP solution.</p> <p>The requested funding increase of \$10,000 to complete this project and save an additional \$12,000 annually is an ROI of about two years and consistent with the larger project ROI.</p> <p>Standardizing the District's entire fleet of MFPs is on track to reduce the District's overall expense related to printer support and consumables by about 50%, and estimated to produce an annual savings of \$25,000 to \$30,000 versus prior year expenditures when fully implemented. It is also expected to generate other efficiencies that were not possible with a fleet of units from various manufacturers and vintages. If this project is not implemented, the District will continue to pay an inflated cost for printer consumables and support, when higher reliability, higher quality, and more needed functionality is available for about half the price.</p> <p>This project is included in the Business IT Infrastructure Reliability Program in the adopted 2014-2018 CIP.</p>

Board Decisions/Options:

Option 1: Authorize funding for the CIP projects as requested in the amount of \$205,000.

Option 2: Take other action as directed by the Board.

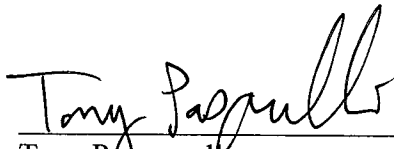
Option 3: Take no action.

Staff/General Manager Recommendation:

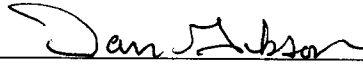
Option 1

Support Documents Attached:

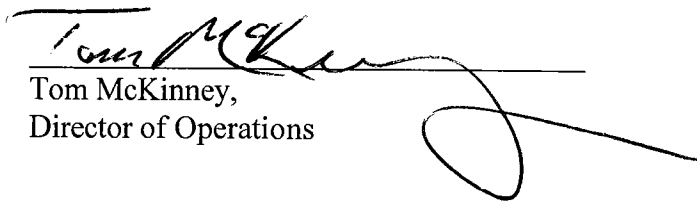
Exhibit A: Capital Improvement Project Description and Justifications.



Tony Pasquarello,
Accounting Manager



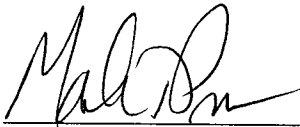
Dan Gibson,
Hydroelectric Manger



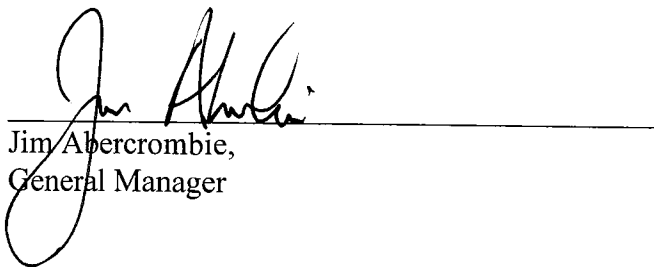
Tom McKinney,
Director of Operations



Tim Ranstrom,
Director of Information Technology



Mark Price,
Director of Finance (CFO)



Jim Abercrombie,
General Manager

2015**CAPITAL IMPROVEMENT PLAN Program:****FERC**

Project Number: 07010H
Project Name: FERC: C15 Pesticide Use
Project Category: Regulatory Requirements

Priority: 1 **PM:** Gibson **Board Approval:** 10/14/14

Project Description:

Mandatory requirement of the FERC license. Funding is requested to implement the integrated pest management plan (IPMP). The IPMP addresses pesticide use at EID facilities within the jurisdiction of the El Dorado National Forest (ENF) and Lake Tahoe Basin Management Unit (LTBMU).

Basis for Priority:

If unfunded, EID would be out of compliance with the FERC license and USFS 4(e) condition 15.

Project Financial Summary:			
Funded to Date:	\$ 528,000	Expenditures through end of year:	\$ 459,254
Spent to Date:	\$ 459,254	2015 - 2019 Planned Expenditures:	\$ 350,000
Cash flow through end of year:		Total Project Estimate:	\$ 809,254
Project Balance	\$ 68,746	Additional Funding Required	\$ 281,254

Description of Work	Estimated Annual Expenditures					Total
	2015	2016	2017	2018	2019	
Implementation	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000
Equipment / Supplies	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000
						\$ -
						\$ -
TOTAL	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 70,000	\$ 350,000

Funding Sources	Percentage	2015	Amount
Water FCCs	53%		\$665
Water Rates	47%		\$589
			\$0
Total	100%		\$1,254

Funding Comments:

2015

CAPITAL IMPROVEMENT PLAN Program:

General District

Project Number:

14012

Project Name:

AMR and Small Meter Replacement

Project Category:

Reliability & Service Level Improvements

Priority:

2

PM:

Pritchard

Board Approval:

10/14/14

Project Description:

This project replaces old, inaccurate, or broken meters and adds automated meter read capability to new and existing meters. The project is MISSION REQUIRED because it provides for replacement of inaccurate and non-working meters and enables all meters to be read in time for billing. The LIABILITY/RISK to the District if this project is not implemented includes increased likelihood of employee injury, increased labor expenses for manually reading the meters and inputting manual data into the computer system, and loss of customer confidence due to inaccurate and estimated reads. REGULATORY: Continued implementation of meter replacement and AMR technology keeps the District in compliance with the CUWCC's MOU BMP# 4. SAFETY/SECURITY: This project reduces employee exposure to injury. As of August 5, 2014 there are 22,031 meters that are equipped with radio read devices. Project funding should allow the District to install approximately 300 radio read meters per year.

Basis for Priority:

Hiring of additional personnel, collection of inaccurate data, reduced customer satisfaction, increased likelihood of employee injuries, and non-compliance with BMP #4

Project Financial Summary:

Funded to Date:	\$ 99,999	Expenditures through end of year:	\$ 99,999
Spent to Date:	\$ 41,641	2015 - 2019 Planned Expenditures:	\$ 500,000
Cash flow through end of year:	\$ 58,358	Total Project Estimate:	\$ 599,999
Project Balance	\$ 0	Additional Funding Required	\$ 500,000

Description of Work	Estimated Annual Expenditures					Total
	2015	2016	2017	2018	2019	
Implementation	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$ 500,000
						\$ -
						\$ -
						\$ -
TOTAL	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000

Funding Sources	Percentage	2015	Amount
Water Rates	100%		\$100,000
			\$0
			\$0
Total	100%		\$100,000

Funding Comments:

2014

CAPITAL IMPROVEMENT PLAN Program: General District**Project Number:****PLANNED****Project Name:****Business IT Infrastructure Reliability Program****Project Category:****Reliability & Service Level Improvements****Priority:****2****PM:****Ranstrom****Board Approval:****10/15/13****Project Description:**

Maintain the reliability and performance of the current business IT infrastructure through upgrades to aging or over-utilized critical infrastructure including network switches and routers, servers, and data storage systems.

Major actions in 2014 include:

- Replacement of the SAN in the HQ data center which has reached end of life. The SAN provides consolidated data storage for all of the District's business databases and shared data repositories. The current SAN is operating at over 90% of capacity, is 5 years old, and can no longer be upgraded or expanded.
- Replacement, standardization, and consolidation of the District's fleet of multi-function printers/scanners/copiers. The current fleet ranges from 5 to 15 years old, is unreliable, and costly to maintain and operate. Replacement units are far less costly to operate and maintain - with an expected ROI of 3 years based on just O&M savings alone.

Basis for Priority:

Maintain the reliability and performance of the current business IT network used to perform operations, customer service, billing, financial management, regulatory reporting, and other critical and essential functions of the district.

Project Financial Summary:			
Funded to Date:	\$ -	Expenditures through end of year:	\$ 100,000
Spent to Date:	\$ -	2014 - 2018 Planned Expenditures:	\$ 1,856,000
Cash flow through end of year:	\$ 100,000	Total Project Estimate:	\$ 1,956,000
Project Balance	\$ (100,000)	Additional Funding Required	\$ 1,956,000

Description of Work	Estimated Annual Expenditures					
	2014	2015	2016	2017	2018	Total
Servers/Storage-14011	\$ 465,000	\$ 128,000	\$ 20,000	\$ 100,000	\$ 20,000	\$ 733,000
User systems-14033	\$ 182,000	\$ 95,000	\$ 142,000	\$ 20,000	\$ 70,000	\$ 509,000
Network equipment - 14010	\$ 150,000	\$ 224,000	\$ 140,000	\$ -	\$ 100,000	\$ 614,000
						\$ -
TOTAL	\$ 797,000	\$ 447,000	\$ 302,000	\$ 120,000	\$ 190,000	\$ 1,856,000

Funding Sources	Percentage	2014	Amount
Water Rates	60%		\$538,200
Wastewater Rates	40%		\$358,800
			\$0
Total	100%		\$897,000

Funding carried over from prior year in CIP with the same name. User systems now contains Funding Comments: items that were previously identified in HQ Office IT System Reliability Program.

EL DORADO IRRIGATION DISTRICT

Subject: Consideration of a resolution declaring certain District personal property to be surplus.

Previous Board Action:

District staff periodically requests the Board to declare certain personal property as surplus to the needs of the District

June 9, 2014- Board approved funding for CIP 14018 Vehicle Replacement and awarded purchase contracts for new vehicles.

Board Policies (BP), Administrative Regulations (AR), and Board Authority:

BP 3055 states that the District will dispose of surplus property in a fiscally responsible manner according to AR3055.1-AR3055.4.

Summary of Issue:

District staff periodically requests the Board to declare certain personal property as surplus to the needs of the District. Exhibit 1 of the proposed resolution is a list of the current personal property items identified by District staff as surplus.

Staff Analysis/Evaluation:

District staff has identified personal property as surplus to the needs of the District. When the Board passes a resolution declaring personal property surplus to the needs of the District, the items are disposed of in a fiscally responsible manner per District Administrative Regulations. Items may be sold at public auction, donated to local public agencies and non-profit entities, recycled or junked.

Board Decisions/Options:

Option 1: Adopt a resolution declaring certain District personal property to be surplus.

Option 2: Take other action as directed by the Board.

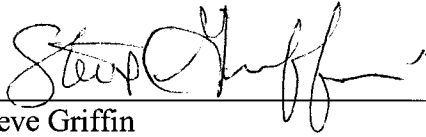
Option 3: Take no action.

Staff/General Manager's Recommendation:

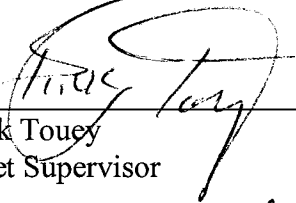
Option 1.

Supporting Documents Attached:

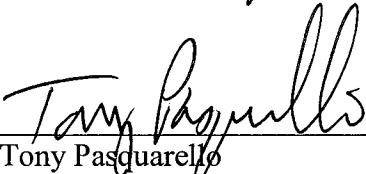
A. Proposed resolution



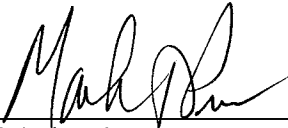
Steve Griffin
General Services Supervisor



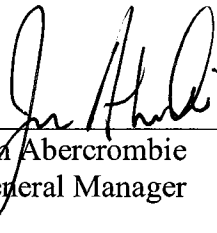
Rick Touey
Fleet Supervisor



Tony Pasquarello
Accounting Manager



Mark Price
Finance Director



Jim Abercrombie
General Manager

RESOLUTION NO. 2015-___

**RESOLUTION OF THE BOARD OF DIRECTORS OF
THE EL DORADO IRRIGATION DISTRICT
DECLARING PERSONAL PROPERTY SURPLUS TO DISTRICT NEEDS**

WHEREAS, the EL DORADO IRRIGATION DISTRICT has acquired, for District purposes, the items listed on Exhibit 1 of the resolution; and,

WHEREAS, the aforementioned items are no longer necessary for District purposes; and,

WHEREAS, authorization is requested to dispose of the aforesaid items.

NOW THEREFORE, BE IT RESOLVED AND ORDERED by the Board of Directors of THE EL DORADO IRRIGATION DISTRICT that the Board determines that the aforesaid items of personal property are no longer necessary for District purposes and hereby authorizes the General Services Supervisor/Purchasing Agent of the Finance Department to dispose of said items in a fiscally responsible manner according to administrative regulations.

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1 //

2 Resolution No. 2015-____

3 The foregoing resolution was introduced at a regular meeting of the Board of
4 Directors of EL DORADO IRRIGATION DISTRICT, held on the 26th day of January
5 2015, by Director _____, who moved its adoption. The motion was seconded
6 by Director _____, and a poll vote taken which stood as follows:

7 AYES:

8 NOES:

9 ABSTAIN:

10 ABSENT:

11 The motion having a majority of votes "Aye", the resolution was declared to
12 have been adopted, and it was so ordered.

13
14 _____
15 Bill George
16 President, Board of Directors
17 EL DORADO IRRIGATION DISTRICT

18 ATTEST:

19 _____
20 Jennifer Sullivan
21 Clerk to the Board
22 EL DORADO IRRIGATION DISTRICT

23 (SEAL)

I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing Resolution is a full, true and correct copy of a Resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 26th day of January 2015.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT

Exhibit 1

2015 District Surplus Property

<u>Vehicles</u>	<u>Model</u>	<u>Vin #</u>	<u>Mileage</u>
O/S 201	2003 Chev 1/2 ton 4x4 Pickup	1GCEK14V53Z347724	163,636
O/S 204	2002 Chev Express Van	1GAHG39R5Y1259275	79,139
O/S 232	1999 Ford 1/2 ton 4x2 Pickup	1FTRF17W6XNB87277	160,678
O/S 245	1999 Chev K30 Utility Truck	1GBJK34J6XF067278	96,861
O/S 298	2001 Dodge 1/2 ton 4x2 Pickup	1B7HC16Y51S129032	182,284
O/S 309	2003 Ford F350 Truck	1FTSX31P03ED72477	199,623
O/S 347	1997 Ford 1/2 ton 4x2 Pickup	1FTDF17WXVKD46441	165,880
O/S 349	1998 Ford 1/2 ton 4x2 Pickup	1FTZF176XWKB80445	152,625
O/S 353	1998 Ford 1/2 ton 4x2 Pickup	1FTZF1764WKB88881	181,028
O/S 359	2000 Dodge 1/2 ton Pickup	1B7HC16Y21S129036	151,860
O/S 362	2001 Dodge 1/2 ton 4x2 Pickup	1B7HF16Y41S129191	196,228

<u>Equipment</u>	<u>Model</u>	<u>Serial #</u>
Utility Body	Stahl Utility Truck Body 1 ton Ford	
O/S 211G	2007 Generator	7.5HDKAT41934K
O/S 934	DR6XB Mower	1885
O/S 495	2006 EU2000 Generator	EAAJ-1354991
O/S 617	2010 EU2000 Generator	EAAJ-2019894

EL DORADO IRRIGATION DISTRICT

Subject: Appropriations Limit for Fiscal Year 2015

Previous Board Action:

November 12, 2013: Board adopted the Appropriations Limit Resolution for Fiscal Year 2014.

Board Policies (BP), Administrative Regulations (AR), and Board Authority:

The Board has adopted an Appropriations Limit Resolution every year to be in compliance with Proposition 4 since 1980 and Proposition 111 since 1991.

Summary of Issue:

In November 1979, the voters of California followed up the tax limitations of Proposition 13 (1978) with an amendment to the state Constitution to limit the growth of government spending. Commonly known as the “Gann Initiative” after anti-tax advocate Paul Gann, Proposition 4 created Article XIII B of the Constitution which provides a formula for calculating spending limits. In a response to increasing difficulties with the restrictions of Proposition 4, and to increase the accountability of local government in adopting limits, the voters in June 1990 adopted Proposition 111.

The appropriations limitation imposed by Propositions 4 (1979) and later amended by Proposition 111 (1990) creates a restriction on the amount of government revenue which may be appropriated in any fiscal year. The Appropriations Limit is based on actual appropriations during the base year (1986-87 or the first full year of operation), and increases each year using specified growth factors.

The Appropriations Limit applies only to those revenues defined as “proceeds of taxes.” Certain expenditures of tax proceeds do not count as Appropriations Subject to Limitation including those for voter approved debt, qualified capital outlay, and the costs of complying with court orders and federal mandates.

During any fiscal year, a government entity may not appropriate any proceeds of taxes received in excess of the Appropriations Limit of the entity. If a government entity receives excess funds in any one year, it may “carry those excess funds into the subsequent year” for use. Any excess funds remaining after the second year must be returned to taxpayers by reducing tax rates or fees.

Propositions 4 and 111 require government entities to annually review, calculate, and adopt the Appropriations Limit, and to ensure that expenditures subject to the Appropriations Limit do not exceed it. For the District's 2015 compliance, a calculation and proposed resolution are attached.

Staff Analysis/Evaluation:

The Appropriations Limit is the calculated dollar amount which restricts the ability to appropriate proceeds of taxes. The Appropriations Subject to Limitation may not exceed the Appropriations Limit. In its simplest form, the Appropriations Limit for any year is the Appropriations Limit from the previous fiscal year increased for inflation and population growth.

The Appropriations Limit applies only to the portion of District revenues defined as "Proceeds of Taxes." The District's appropriated revenue sources include 1) all taxes levied by or for a public agency, 2) any revenue from user charges and user fees to the extent that the proceeds exceed the cost of providing the product or service, and 3) any interest earned from the investment of the proceeds of taxes.

Exclusions

Proposition 4 and 111 exempted certain categories from the Appropriations Subject to Limitation. The following categories are excluded:

- **Certain Types of Debt Service Costs:** Excludable debt service costs include voter-approved debt and non-voter approved debt used to purchase qualified capital outlay.
- **Qualified Capital Outlay:** Qualified capital Outlay is an appropriation for a fixed asset (including land and construction) with a useful life of 10 years or more and a value which equals or exceeds \$100,000.
- **Costs of Complying with Court Orders and Federal Mandates.**

Appropriations Subject to the Limit Calculation

The 2015 allowable amount is calculated by using the District's 2015 Adopted Budget, the California Per Capita Income and the El Dorado County unincorporated Population Growth factors. The documentation used to compute the limit is on file with the Clerk of the Board, available to the public and is included as Attachment A and B, with the results summarized in the table below:

Fiscal Year 2014 Appropriations Limit	\$9,720,198
Adjustment Factor (Cost of Living x Population Growth)	1.0000
Fiscal Year 2015 Appropriations Limit	\$9,720,198

Proceeds of Taxes	\$9,996,811
Exemptions	(\$11,628,700)
Appropriations Subject to the Limit	(\$1,631,889)
Fiscal Year 2015 Appropriations Limit	\$9,720,198
Over/(Under) Appropriations Limit	(\$11,352,087)

As can be seen in the above table, for 2015 the District is under the Appropriations Limit by more than \$11.35 million. The District anticipates tax proceeds in 2015 of approximately \$9.72 million, including interest earned on the investment of taxes. Exemptions to the Appropriations Limit of \$11.6 million are those capital projects over \$100,000 and funded through rates. Therefore, because the exemptions exceed the proceeds of taxes, the amount subject to the Limit is approximately a negative \$1.63 million.

The District's current Appropriations Limit, or allowable amount, for 2015 is \$9,720,198. The allowable amount is calculated by taking 2014's allowable limit of \$9,720,198 times an adjustment factor for cost of living of 0.9977 and population growth of 1.0023, as provided by the County of El Dorado Office of Auditor-Controller for the years 2014-2015. The current year Appropriations Limit is subtracted from the appropriations subject to the limit to arrive at the amount over or under the Appropriations Limit. These calculations show that the District continues to comply with the Appropriations Limit imposed by Propositions 4 and 111, as EID appropriations are \$11,352,087 below the calculated 2015 Appropriations Limit.

Board Decision/Options:

Option 1: Adopt the proposed Appropriations Limit Resolution for Fiscal Year 2015.

Option 2: Take other action as directed by the Board.

Option 3: Take no action.

Staff/General Manager Recommendation:

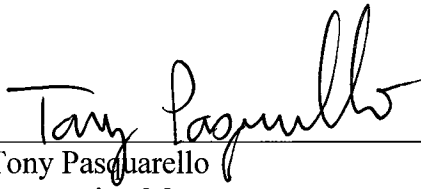
Option 1.

Support Documents Attached:

Attachment A: 2015 Appropriations Limit Calculations

Attachment B: 2014-2015 County of El Dorado Per Capita Personal Income and Population Growth adjustment factors

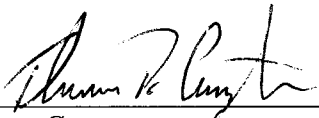
Attachment B: Proposed Fiscal Year 2015 Appropriations Limit Resolution



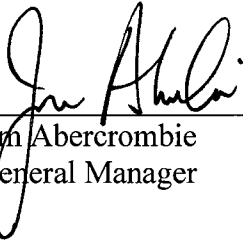
Tony Pasquarello
Accounting Manager



Mark Price
Finance Director



Tom Cumpston
General Counsel



Jim Abercrombie
General Manager

**El Dorado Irrigation District
Fiscal Year 2015 Appropriations
Limit Calculation**

	<u>Amount</u>	<u>Source</u>
A. FY 2014 APPROPRIATIONS LIMIT	\$9,720,198	November 12, 2013 Resolution
B. ADJUSTMENT FACTORS		
1. Cost of Living Factor	0.9977	County of El Dorado Office of Auditor-Controller
2. Population Growth Factor	1.0023	County of El Dorado Office of Auditor-Controller
3. Total Adjustment Factor	1.0000	B1 times B2
C. FY 2015 APPROPRIATIONS LIMIT	<u>\$9,720,198</u>	A times B3

**El Dorado Irrigation District
2015 Appropriations Subject
to the Limit Calculation**

	<u>Amount</u>	<u>Source</u>
A. PROCEEDS OF TAXES	\$ 9,996,811	2015 Budget
B. EXEMPTIONS	(11,628,700)	Excluded Appropriations
C. APPROPRIATIONS SUBJECT TO THE LIMIT	(1,631,889)	A minus B
D. FY 2015 APPROPRIATIONS LIMIT	9,720,198	Limit Calculation
E. OVER/(UNDER) LIMIT	<u>(\$11,352,087)</u>	C minus D



County of El Dorado

OFFICE OF AUDITOR-CONTROLLER

360 FAIR LANE
PLACERVILLE, CALIFORNIA 95667-4193
Phone: (530) 621-5487 Fax: (530) 295-2535

BOB TOSCANO
Assistant Auditor-Controller

Attachment **B**
JOE HARN, CPA
Auditor-Controller

May 2, 2014

To: All Special Districts
From: *BT* Bob Toscano, Assistant Auditor-Controller
Subject: 2014-2015 Proposition 4 - Appropriation Limitation

Your district needs to calculate and adopt the new tax spending limit for FY 2014-15 in accordance with the provisions of the spending limitation legislation implementing Proposition 4 (the 1979 Gann Spending Limit Initiative). Government Code Section 7910 requires that: "... the governing body of each local jurisdiction to establish appropriation limits by resolution for the following fiscal year at a regular or special meeting."

The district's new limit for the 2014-2015 year will be calculated on the basis of the prior year's limit increased by a growth factor. The growth factor results from combining the change in Per Capita Personal Income and the change in population for your district (as certified by the State's Department of Finance) or the change reported for "unincorporated areas" for our County.

The change in the "cost of living" factor (Per Capita Personal Income) has been reported to be 0.9977% and reported increase in population in the County's unincorporated areas to be 1.0023%. Therefore, the ratio of change to be applied to last year's limit is:

$$0.9977 \quad (X) \quad 1.0023 \quad = \quad 1.0000$$

Attached is a sample format for the required "NOTICE OF PUBLIC HEARING" and a sample resolution (which includes the calculation formula).

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**RESOLUTION OF THE BOARD OF DIRECTORS OF
EL DORADO IRRIGATION DISTRICT, ESTABLISHING THE
APPROPRIATIONS LIMIT FOR FISCAL YEAR 2015**

WHEREAS, the Board of Directors conducted a public hearing of the Board of Directors of El Dorado Irrigation District on the appropriations limit for El Dorado Irrigation District on the 26th day of January, 2015; and,

WHEREAS, the meeting was noticed as required by law; and,

WHEREAS, the Board received testimony and other evidence regarding the appropriation limit to be established for the El Dorado Irrigation District for fiscal year 2015.

NOW, THEREFORE, IT IS HEREBY RESOLVED by the Board of Directors of the El Dorado Irrigation District that the appropriations limit for fiscal year 2015, as described in Article XIII B of the State Constitution and implemented by Chapter 1205, Statutes of 1980 is the sum of \$9,720,198 computed as follows: \$9,720,198 (2014 Appropriations Limit) (X) 1.0000 (2014-2015 cost of living and population growth factor from the County of El Dorado) = \$9,720,198 (2015 Appropriations Limit).

RESOLUTION NO. 2015-xxx

The foregoing resolution was introduced at a regular meeting of the Board of Directors of EL DORADO IRRIGATION DISTRICT, held on the 26th day of January, 2015, by Director _____, who moved its adoption. The motion was seconded by Director _____, and a poll vote taken which stood as follows:

AYES:

NOES:

ABSTAIN:

ABSENT:

The motion having a majority of votes "AYE", the resolution was declared to have been adopted, and it was so ordered.

Bill George
President, Board of Directors
EL DORADO IRRIGATION DISTRICT

ATTEST:

Jennifer Sullivan
Clerk to the Board

(SEAL)

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RESOLUTION NO. 2015-xxx

I, the undersigned, Clerk to the Board of the EL DORADO IRRIGATION DISTRICT hereby certify that the foregoing resolution is a full, true and correct copy of a resolution of the Board of Directors of the EL DORADO IRRIGATION DISTRICT entered into and adopted at a regular meeting of the Board of Directors held on the 26th day of January, 2015.

Jennifer Sullivan
Clerk to the Board
EL DORADO IRRIGATION DISTRICT



Appropriations Limit for Fiscal Year 2015

El Dorado Irrigation District
Public Hearing
January 26, 2015

Board Policies & Administrative Regulations

- **BP 2020**: The General Manager shall comply with all the duties and responsibilities set forth by state and federal law.

State Law

- Proposition 4 and Proposition 133 require the Board to adopt an Appropriations Limit annually.
 - California Government Code Section 7910 requires: “the governing body of each local jurisdiction to establish appropriations limits by resolution for the following fiscal year at a regular or special meeting.”

Previous Board Action

- The Board has adopted an Appropriations Limit Resolution every year to be in compliance with Proposition 4 since 1980 and Proposition 111 since 1990.
- November 12, 2013: Board adopted the Appropriations Limit Resolution for Fiscal Year 2014.

Summary of Issue

- In November 1979, the voters of California followed up the tax limitations of Proposition 13 with an amendment to the state Constitution to limit the growth of government spending.
- Appropriations Limit imposed by Propositions 4 and 133 creates a restriction on the amount of revenue that can be appropriated in any fiscal year.

Summary of Issue

- Allowable amount is based on actual appropriations during the base year 1986-87, and adjusted annually for cost-of-living and population growth factors.
- Appropriations Limit applies only to revenues defined as “proceeds of taxes”, and a government entity may not appropriate any proceeds of taxes received in excess of the Appropriations Limit.

Summary of Issue

- If a government entity receives excess funds in any one year, it may carry those funds into the subsequent year for use.
- Any excess funds remaining after second year must be returned to taxpayers by reducing tax rates.

Staff Analysis/Evaluation

- The 2015 Appropriations Limit equals the previous 2014 fiscal year limit increased for inflation and population growth.
- Proceeds of taxes include:
 - Taxes levied by or for a public agency
 - User charges/fees that exceed cost of providing the service
 - Interest earned from investment of proceeds of taxes
- Exempt appropriations
 - Certain types of debt service costs
 - Qualified capital outlay expenditures greater than \$100,000
 - Costs of complying with court orders and federal mandates

Staff Analysis/Evaluation

APPROPRIATIONS LIMIT CALCULATION

	<u>Amount</u>	<u>Source</u>
A. FISCAL YEAR 2014 LIMIT	\$ 9,720,198	November 12, 2013 Resolution
B. ADJUSTMENT FACTORS		
1. Cost of Living Factor	0.9977	County of El Dorado Office of Auditor-Controller
2. Population Growth Factor	1.0023	County of El Dorado Office of Auditor-Controller
3. Total Adjustment Factor	1.0000	B1 times B2
C. FISCAL YEAR 2015 LIMIT	<u>\$ 9,720,198</u>	A times B3

Staff Analysis/Evaluation

APPROPRIATIONS SUBJECT TO THE LIMIT

	<u>Amount</u>	<u>Source</u>
A. PROCEEDS OF TAXES	\$ 9,996,811	2015 Operating Budget
B. EXEMPTIONS	(11,628,700)	Excluded Qualified Capital Outlay
C. APPROPRIATIONS SUBJECT TO THE LIMIT	(1,631,889)	A minus B
D. CURRENT YEAR LIMIT	9,720,198	Limit Calculation
E. OVER/(UNDER) LIMIT	<u>\$ (11,352,087)</u>	C minus D

Staff Analysis/Evaluation

- The calculation shows that the District is well under the Appropriation Limit set forth by Proposition 4 and III by \$11.35 million.

Board Decisions/Options

- **Option 1:**

Adopt the proposed Appropriations Limit Resolution for fiscal year 2015

- **Option 2:**

Take other action as directed by the Board

- **Option 3:**

Take no action

Staff/General Manger Recommendation

- ***Option 1***

EL DORADO IRRIGATION DISTRICT

SUBJECT:

Preliminary data for the 2014 Water Resources and Service Reliability Report

Previous Board Actions:

The Board annually reviews and receives updates to the Water Resources and Service Reliability Report

August 25, 2014 – The Board continued the item to January 2015 and to include a Method 3 basing unit demand on the District's 20% conservation goal by 2020 calculations.

Board Policies (BP) and Administrative Regulations (AR):

BP 5010: Water Supply Management – The Board is committed to provide a water supply based on the principles of reliability, high quality, and affordability in a cost-effective manner with accountability to the public. It is the General Manager's responsibility to ensure that the tenets of this policy are carried out in an open, transparent manner through sound planning, to assure preparedness under varying conditions, and effective management.

It is the policy of the Board that the District will not issue any new water meters if the *Water Resources and Service Reliability Report* indicates that there is insufficient water supply. When warranted by the findings of the report, the General Manager will bring the possibility of restrictions on meter issuance to the Board's attention. Any such restrictions will be established pursuant to Water Code Section 350 et. Seq. of the California Water Code.

AR 5010: Water Availability and Commitments

AR 5010.1 Annual reporting

The District will maintain adequate water supply and demand records to ensure accurate monitoring and reporting. The General Manager will ensure that an updated *Water Resources and Service Reliability Report* is prepared annually for review by the Board of Directors. The report will include the current system firm yield of the overall District, along with the water supply and infrastructure capacity, potential demands, existing commitments, and meter availability for each water service area of the District as defined in the report.

AR 5010.2 Shortages

The *Water Resources and Service Reliability Report* will use a system firm yield method to determine that sufficient water supply exists to meet potential demands. Under this methodology, approximately 95% of the time sufficient water supply is available to meet normal water

demands, but during the remaining 5% of the time water shortages may occur. Such shortages may result in the implementation of voluntary or mandatory conservation measures.

AR 5010.3 New meter restrictions

Should findings in the *Water Resources and Service Reliability Report* warrant restrictions on the issuance of new water meters, the General Manager will bring the situation to the attention of the Board of Directors. During emergency conditions when supplies are restricted or limited, the General Manager may also bring to the Board's attention possible restrictions on water meter availability.

AR 5011 Water Supply Management Conditions

The District recognizes that variations in weather patterns can cause watersheds to yield different quantities of water supply in any given year. In some years, dry weather or drought conditions may occur which result in varying degrees of water shortage. The District also recognizes that future climate change may impact the intensity and duration of future droughts.

Summary of Issue:

Preliminary data for the *2014 Water Resources and Service Reliability Report* (Report) was presented to the Board in August 2014 along with different options for calculating unit demands given the reduction in demands in recent years and variability of EDUs. The Board continued the item to January 2015. Recently, the District has secured a 5-year Warren Act Contract for an additional 8,500 acre-feet available at Folsom Reservoir. This development and the trend to lower unit demands allowed staff the opportunity to revisit the methodology of the report and develop recommendations for changes.

The purpose of the Report is to determine current water supply, potential demand, and water meter availability within the District. It is not intended to be a planning document or provide projections of supply and demand into the future. The adopted *2013 Integrated Water Resources Master Plan*, the regularly updated *Urban Water Management Plan*, and Water Supply Assessments for major projects serve that purpose.

Staff Analysis/Evaluation

Current water supplies and system firm yield

The system firm yield for the District is defined as the annual demand which the integrated water supply system can meet 95% of the time. In the remaining 5% of the time, shortages will be allowed. The District has a multitude of water supplies that together form the basis for calculating the system firm yield.

The water supplies that make up the system firm yield include approximately 21,000 AF from Jenkinson Lake; 15,080 AF from Project 184 at Forebay; 17,000 AF from Permit 21112; 7,550 AF from USBR Folsom water service contract; and 4,560 AF from the ditch/Weber Reservoir water rights. The firm yield for the District is currently 63,500 AF.

The model determines a "supply based" firm yield, which assumes that no infrastructure restrictions or contractual constraints exist (Warren Act contracts). This assumption provides the

benefit of reporting a consistent firm yield number year after year, which only changes when additional supplies are added to the system. The firm yield also gives the Board and the public a sense of the District's potential to deliver additional water as needed infrastructure projects or Warren Act contracts are completed.

For purposes of the annual Report however, we know that the District cannot presently deliver 63,500 acre-feet per year, nor is there a demand at that level. Therefore, meter availability has been restricted in a conservative fashion in each area. In the Western/Eastern region the constraint is local supply. In the El Dorado Hills region the constraint was infrastructure limitations.

For several years the District has used the capacity of the El Dorado Hills water treatment plant (EDHWTP) as the basis to restrict meter sales in El Dorado Hills. With historical water supply uncertainties, cutbacks to the Folsom supplies and the brisk pace of development in the past, using the EDHWTP capacity was a useful way to ensure meter sales in El Dorado Hills did not outstrip our ability to provide service. However, the recent successful negotiation of a 5-year Warren Act Contract for 8,500 acre-feet per year from the P21112 supply has significantly increased the reliability of the Folsom supply, and affords the opportunity to return to a traditional analysis of water supply versus demand to determine EDU availability throughout the District. It is more appropriate to evaluate infrastructure limitations in master planning documents and capital improvement planning to fund the expansion of infrastructure as needed to meet increased demand approved by the County.

El Dorado Hills water supply

El Dorado Hills is supplied from both Folsom Lake and from eastern water supplies via the Gold Hill Intertie. The supply from Folsom Lake consists of 7,550 acre-feet from the USBR contract, and 4,560 acre-feet from the ditch/Weber reservoir Warren Act contract, totaling 12,110 acre-feet in a normal year. In dry years, these supplies are subject to reductions in the form of mandated cutbacks of the USBR contract and reduced yield of the ditch/Weber contract due to hydrologic conditions. However, with the successful completion of a 5-year Warren Act contract for an additional 8,500 acre-feet per year of P21112 supply, the District can utilize this supply to backfill that dry year reduction, which makes at least 12,110 acre-feet available in any year.

The District's eastern sources (P184 and Jenkinson Lake) have historically contributed approximately 2,000 acre-feet per year to meet demands in El Dorado Hills via the Gold Hill Intertie. Therefore, the combined annual water supply for El Dorado Hills is 14,110 acre-feet (12,110 acre-feet from Folsom plus 2,000 acre-feet from GHI).

Western/Eastern water supply

The supply for the Western/Eastern area consists of 15,080 acre-feet from Project 184 at Forebay and approximately 21,000 acre-feet per year from Jenkinson Lake, totaling approximately 36,000 acre-feet per year. For purposes of determining meter availability, the supply is reduced to 34,000 acre-feet to account for 2,000 acre-feet of exported water to El Dorado Hills.

Overall System Firm Yield and supply breakdown is shown in the following table. While the potential water delivery capability based on existing water supplies is 63,500 acre-feet, the annual supply used to determine EDU availability is approximately 48,110 acre-feet for purposes of this Report:

SYSTEM FIRM YIELD/WATER SUPPLY	
Overall System Firm Yield	63,500 AF
Western/Eastern Available Supply	34,000 AF
El Dorado Hills Available Supply (Folsom Reservoir and GHI)	14,110 AF

Unit Demand

District water demands are divided into three regions: 1) El Dorado Hills, 2) Western Region, which includes Bass Lake, Cameron Park, Shingle Springs, El Dorado, and Diamond Springs; and 3) Eastern Region, which includes Pleasant Valley, Sly Park, Pollock Pines, Camino, Placerville and Lotus/Coloma. The water customers in each region are then further subdivided into user categories depending upon the type of use for the water.

The projected unit demands for the two supply areas (El Dorado Hills and Western/Eastern) were calculated in 2011 using a 10-year average (2001 – 2010) minus the high and low values to account for demand fluctuations. That calculation resulted in 0.77 AF per EDU unit demand for the El Dorado Hills supply area and 0.54 AF per EDU unit demand for the Western/Eastern supply area. These unit demands were used for three years to calculate meter availability.

In 2014, staff recalculated the unit demands using a new 10-year average (2004 – 2013) and it was expected that with the reduction in customer demand the last three years, the recalculated lower unit demands would result in higher EDU availability. The unit demand calculation does not include 2014 demands, which were affected by the drought declaration.

At the August 2014 meeting, staff reviewed unit demand calculations and the Board requested that another method be used based on the District’s 20x2020 conservation goal. Staff is not recommending this approach because it uses a different methodology. The differences in the calculation do not permit an “apples to apples” comparison between the 20x2020 goal and the unit demand calculations used in the Report. The 20x2020 gpcd calculation uses overall water diversions into the system, including losses and other authorized uses. Diversions for agricultural and municipal demands are subtracted, and the remaining usage is then divided by the population served by single family residential, multifamily residential, commercial and recreational turf accounts to calculate the District’s gpcd. By comparison, the unit demand calculation in the Report is simply the average annual metered usage of a single-family residential account.

Staff is recommending using the unit demands based on the 10-year average (2004-2013). This accurately reflects the trend in reduced usage that is consistent with the District’s conservation

goals, and the methodology allows for continued periodic adjustments in the future to account for changing usage trends. This method is also more consistent with the Report's purpose, which is to provide an annual "snapshot" of currently available meters for sale. The 20x2020 calculation is better suited to long-term supply and infrastructure studies.

SINGLE FAMILY RESIDENTIAL AVERAGE UNIT DEMAND	
Supply Area	2004-2013 AF per EDU
El Dorado Hills	0.74
Western/Eastern	0.50

Although not a direct comparison, 0.74 acre-feet per EDU is approximately 254 gpcd, and 0.50 acre-feet per EDU is approximately 172 gpcd. Therefore, despite the difference in methodology, this range compares well with the District's overall 2020 conservation target of 225 gpcd.

The following table provides the potential demand by supply area which includes active, latent, and other system demands as defined in the report. The potential demand is greater than actual demands in any given year, because conservative assumptions of full water usage for each customer class are made to all supply areas to approximate the maximum demand the District could experience with high customer usage.

POTENTIAL SYSTEM DEMANDS		
Demand type	El Dorado Hills Supply Area (AF)	Western/Eastern Supply Area (AF)
Active Demand	8,208	24,743
Latent Demand	319	134
Other System Demand	2,362	6,402
Total Potential Demand	10,889	31,279

Water Meter Availability

Water meter availability is determined by dividing the unallocated supply by the 10-year average single family residential unit demand. The following table summarizes the data for unallocated water supply:

UNALLOCATED SUPPLY		
	El Dorado Hills Supply Area (AF)	Western/Eastern Supply Area (AF)
Available Supply	14,110	34,000
Total Potential Demand	10,889	31,279
Unallocated Water Supply	3,221	2,721

The following table summarizes the resulting meter availability:

2014 WATER METER AVAILABILITY	
El Dorado Hills Supply Area	Western/Eastern Supply Area
2014 Unallocated Water Supply 3,221 AF	2014 Unallocated Water Supply 2,721 AF
Residential Unit Demand 0.74 AF/EDU	Residential Unit Demand 0.50 AF/EDU
2014 Water Meter Availability 4,352 EDUs	2014 Water Meter Availability 5,442 EDUs

Meter availability during drought

The District often fields questions regarding meter sales during periods of drought. This goes to the foundation of the District's longstanding policy on firm yield. The policy means that the District will manage its supplies such that 95% of the time, water supply is sufficient to meet normal demands. In the remaining 5% of the time, all customers (new and old) must reduce their demands and take shortages to manage through a drought. In this way, development that is approved by the County may proceed if there are sufficient unallocated supplies (95% of the time), without the threat of temporary moratoriums in times of drought.

Future water supply needs

As mentioned previously, the purpose of the *Water Resources and Service Reliability Report* is to determine today's meter availability based on supply constraints and demands that currently exist. It is not intended to be a planning document that addresses future supply availability. The District has prepared various planning documents (water master plans, Urban Water Management Plans, water supply assessments) that describe the future water supply needs to accommodate increased demand from development approved by the County. These planning documents indicate that new water supplies will need to be obtained and added to the District's

current supply portfolio in order to meet the future water supply needs of the County through buildout.

Board Decisions/Options:

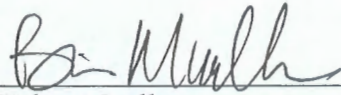
Information only

Staff/General Manager's Recommendation:

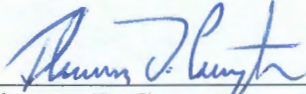
N/A

Attachments

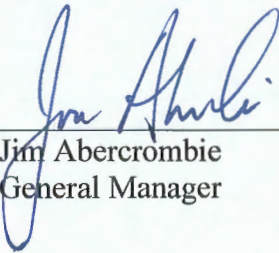
A. Tables 1 – 11 and Appendices A – C



Brian Mueller
Director of Engineering



Thomas D. Cumpston
General Counsel



Jim Abercrombie
General Manager

**TABLE 1
WATER METER AVAILABILITY**

EL DORADO HILLS SUPPLY AREA		
Folsom Reservoir and GHI Supply (Table 3)	14,110	Acre-Feet
Calculated Potential Demand		
Active Demand (Table 5)	8,208	
Latent Demand (Table 6)	319	
Other System Demand (Table 9)	2,362	
Total Potential Demand	10,889	Acre-Feet
2014 Unallocated Water Supply	3,221	Acre-Feet
Supply minus Total Potential Demand		
Conversion to Equivalent Dwelling Units (EDUs)	0.74	Acre-Feet per EDU
Average EDU demand from 10-year historical data for single-family residential dwellings in the El Dorado Hills Supply Area. (Table 4A and Appendix Table A)		
2014 Water Meter Availability	4,352	EDUs ^[1]
[1] These EDUs are subject to the El Dorado Hills Contractual Commitments described in Section 6 and summarized in Table 10.		

WESTERN / EASTERN SUPPLY AREA		
Supply Based Yield of Eastern Sources (Table 2)	34,000	Acre-Feet
Calculated Potential Demand		
Active Demand (Table 7)	24,743	
Latent Demand (Tables 8A and 8B)	134	
Other System Demand (Table 9)	6,402	
Total Potential Demand	31,279	Acre-Feet
2014 Unallocated Water Supply	2,721	Acre-Feet
Supply minus Total Potential Demand		
Conversion to Equivalent Dwelling Units (EDUs)	0.50	Acre-Feet per EDU
Average EDU demand from 10-year historical data for single-family residential dwellings in the Western / Eastern Supply Area. (Table 4B, and Appendix Tables B and C)		
2014 Water Meter Availability	5,442	EDUs ^[1]
[1] These EDUs are subject to the Western / Eastern Contractual Commitments described in Section 6 and summarized in Table 11.		

**TABLE 2
SYSTEM FIRM YIELD
El Dorado Hills and Western / Eastern Supply Areas**

OVERALL SYSTEM FIRM YIELD	
EID's System Firm Yield -No Infrastructure Restrictions- Determined using the OASIS Model ^[1]	63,500 Acre-Feet
EL DORADO HILLS SUPPLY AREA	
Supply from Folsom Reservoir	12,110 Acre-Feet ^[2]
Folsom Reservoir and Gold Hill Intertie Annual Supply	14,110 Acre-Feet ^[3]
WESTERN / EASTERN SUPPLY AREA	
Supply from Eastern Sources subtracting 2,000 AF exported to EDH via GHI	34,000 Acre-Feet ^[4]

[1] The OASIS Model is a computer software package developed by HydroLogics, Inc. to model hydrologic conditions in conjunction with certain input parameters. The OASIS Model determines the firm yield of the integrated system, which includes Project 184, Jenkinson Lake, Folsom USBR contracts, Permit 21112 and ditch/Weber Reservoir water rights. The overall system firm yield determined by the OASIS Model is for planning level purposes.

[2] The supply from Folsom Reservoir consists of 7,550 AF from the USBR Folsom Contract, and 4,560 AF from ditch/Weber water rights. The supply would be reduced in dry-years, but supplemented by the 5-year Warren Act Contract of 8,500 AF from Permit 21112 supplies.

[3] The total El Dorado Hills supply includes 7,550 AF USBR contract, 4,560 AF ditch/Weber Warren Act Contract, and 2,000 AF supplied by the Gold Hill Intertie from eastern sources. In the event of dry year cutbacks to these supplies, the District has secured a 5-year Warren Act Contract for 8,500 AF from Permit 21112 supplies that can be used to supplement the cutback supplies.

[4] The supply for the Western / Eastern Supply Area consists of 15,080 AF from Project 184; and 20,920 AF from Jenkinson Lake. The supply is reduced to account for exported water to El Dorado Hills in the amount of 2,000 AF. During a critical dry year, the annual supply from Jenkinson Lake would be reduced pursuant to Board Policy 5010.

**TABLE 3
INFRASTRUCTURE BASED YIELD
El Dorado Hills Supply Area**

EL DORADO HILLS WATER SUPPLY Calculation of Annual Acre-Feet				
Year	USBR Water Service Contract	Ditch/Weber Reservoir Warren Act Contract	P21112 5-year Warren Act Contract (available to fill in cutbacks in dry years)	Calculated Annual Acre-Feet
2014	7,550	4,560	8,500	12,110

GOLD HILL INTERTIE (GHI) CAPACITY Calculation of Annual Acre-Feet	
Historical Annual Supply to El Dorado Hills (5-year average)	2,000

TOTAL EL DORADO HILLS WATER SUPPLY in Acre-Feet	14,110
--	---------------

**TABLE 4A
PROJECTED 2013 DEMAND PER SERVICE
El Dorado Hills Supply Area
In Acre-Feet**

User Categories	Demand per Service or Unit for the Previous 3-Years			Average Unit Demand from 10-Year ^[1] Historical Trend
	2011	2012	2013	
EL DORADO HILLS SUPPLY AREA				
Commercial	2.42	2.64	2.81	3.03
Multi-Family Residential (Units)	0.17	0.18	0.18	0.20
Recreational Turf Services	8.31	9.66	10.08	10.45
Single-Family Dual Potable	0.16	0.15	0.14	0.17
Single-Family Residential	0.59	0.67	0.70	0.74
Small Farm Irrigation	3.25	3.71	2.37	3.27

SERVICE ZONES WITHIN SUPPLY AREA (Zone #):

El Dorado Hills (02)

[1] Refer to Appendix Table A for the historical data used to calculate the Average Unit Demands.

**TABLE 4B
PROJECTED 2013 DEMAND PER SERVICE
Western / Eastern Supply Area
In Acre-Feet**

User Categories	Demand per Service or Unit for the Previous 3-Years			Average Unit Demand from 10-Year ^[1] Historical Trend
	2011	2012	2013	
WESTERN REGION				
Agricultural Metered Irrigation	7.42	7.00	8.57	11.61
Commercial	1.32	1.39	1.40	1.50
Ditches	17.00	14.50	15.50	14.97
Multi-Family Residential (Units)	0.20	0.22	0.23	0.24
Recreational Turf Services	11.47	12.74	13.90	14.23
Single-Family Dual Potable	0.18	0.18	0.18	0.18
Single-Family Residential	0.43	0.49	0.50	0.57
Small Farm Irrigation	3.18	2.94	2.54	3.40
EASTERN REGION				
Agricultural Metered Irrigation	12.68	16.01	16.26	18.46
Commercial	1.26	1.34	1.50	1.97
Ditches	21.81	53.27	26.63	25.36
Multi-Family Residential (Units)	0.20	0.20	0.19	0.22
Municipal (City of Placerville)	64.53	84.60	102.38	112.49
Recreational Turf Services	7.28	8.28	8.00	9.40
Single-Family Residential	0.29	0.33	0.34	0.40
Small Farm Irrigation	2.12	2.85	2.93	3.33
SERVICE ZONES WITHIN SUPPLY AREA (Zone #):				
<u>Western Region</u>				
Bass Lake (01), Cameron Park (04), Shingle Springs (05), Logtown (06), Diamond Springs/El Dorado (07)				
<u>Eastern Region</u>				
Lotus/Coloma (03), Swansboro (09), Camino (10), Pleasant Valley (11), Sly Park (12), Pollock Pines (13), North Placerville (18), South Placerville (28)				

[1] Refer to Appendix Tables B and C for the historical data used to calculate the Average Unit Demands.

**TABLE 5
ACTIVE DEMAND
El Dorado Hills Supply Area**

ACTIVE DEMAND			
Active Account Categories	Average Demand from Historical Data AF per Service or Unit ^[1]	2013 Services or Units	Calculated Active Demand in AF
Commercial	3.03	411	1,244
Mulit-Family Residential (Units)	0.20	1,535	307
Recreational Turf Services	10.45	36	376
Single-Family Dual Potable	0.17	1,867	312
Single-Family Residential	0.74	7,983	5,907
Small Farm Irrigation	3.27	19	62
Calculated Active Acre-Feet			8,208

EL DORADO HILLS - ACTIVE DEMAND in Acre-Feet	8,208
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[1] Refer to Appendix Table A for the historical data used to calculate the Average Unit Demands.

**TABLE 6
LATENT DEMAND
El Dorado Hills Supply Area**

INACTIVE ACCOUNTS			
<i>Inactive</i> Account Categories	Average Demand from Historical Data AF per Service or Unit ^[1]	2013 <i>Inactive</i> Services or Units	Calculated <i>Inactive</i> Demand in AF
Single-Family Residential	0.74	5	4
Subtotal <i>Inactive</i> Acre-Feet			4

UNINSTALLED ACCOUNTS			
<i>Uninstalled</i> Meter Categories	Average Demand from Historical Data AF per Service or Unit ^[1]	2013 <i>Uninstalled</i> Services or Units	Calculated <i>Uninstalled</i> Demand in AF
Commercial	3.03	0	0
Single-Family Dual Potable	0.17	0	0
Multi-Family Residential	0.20	0	0
Single-Family Residential	0.74	425	315
Subtotal <i>Uninstalled</i> Acre-Feet			315

Calculated Inactive and Uninstalled Acre-Feet		319
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EL DORADO HILLS - LATENT DEMAND in Acre-Feet		319
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[1] Refer to Appendix Table A for the historical data used to calculate the Average Unit Demands.

**TABLE 7
ACTIVE DEMAND
Western / Eastern Supply Area**

WESTERN ACTIVE DEMAND			
User Categories for Active Accounts	Average Demand from Historical Data AF per Service or Unit [1]	2013 Services or Units	Calculated Active Demand in AF
Agricultural Metered Irrigation	11.61	27	313
Commercial	1.50	748	1,121
Ditches	14.97	2	30
Mult-Family Residential (Units)	0.24	3,966	932
Recreational Turf Services	14.23	48	683
Single-Family Dual Potable	0.18	2,321	416
Single-Family Residential	0.57	14,013	8,041
Small Farm Irrigation	3.40	389	1,321
Calculated WESTERN Active Acre-Feet			12,857

EASTERN ACTIVE DEMAND			
User Categories for Active Accounts	Average Demand from Historical Data AF per Service or Unit [1]	2013 Services or Units	Calculated Active Demand in AF
Agricultural Metered Irrigation	18.46	202	3,728
Commercial	1.97	308	607
Ditches	25.36	23	583
Mult-Family Residential (Units)	0.22	1,992	436
Municipal (City of Placerville)	112.49	13	1,462
Recreational Turf Services	9.40	22	207
Single-Family Residential	0.40	9,744	3,853
Small Farm Irrigation	3.33	303	1,010
Calculated EASTERN Active Acre-Feet			11,886

WESTERN / EASTERN - ACTIVE DEMAND in Acre-Feet	24,743
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[1] Refer to Appendix Tables B and C for the historical data used to calculate the Average Unit Demands.

**TABLE 8A
WESTERN LATENT DEMAND
Western / Eastern Supply Area**

WESTERN INACTIVE ACCOUNTS			
<i>Inactive</i> Account Categories	Average Demand from Historical Data AF per Service or Unit [1]	2013 Services or Units	Calculated <i>Inactive</i> Demand in AF
Commercial	1.50	6	9
Ditches	14.97	0	0
Single-Family Dual Potable	0.18	0	0
Single-Family Residential	0.57	40	23
Subtotal WESTERN <i>Inactive</i> Acre-Feet			32

WESTERN UNINSTALLED ACCOUNTS			
<i>Uninstalled</i> Meter Categories	Average Demand from Historical Data AF per Service or Unit [1]	2013 <i>Uninstalled</i> Services or Units	Calculated <i>Uninstalled</i> Demand in AF
Commercial	1.50	0	0
Multifamily Residential (Units)	0.24	0	0
Single-Family Dual Potable	0.18	0	0
Single-Family Residential	0.57	15	9
Subtotal WESTERN <i>Uninstalled</i> Acre-Feet			9

Calculated Inactive and Uninstalled Acre-Feet	41
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WESTERN / EASTERN - LATENT DEMAND in Acre-Feet	41
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[1] Refer to Appendix Tables B and C for the historical data used to calculate the Average Unit Demands.

**TABLE 8B
EASTERN LATENT DEMAND
Western / Eastern Supply Area**

EASTERN INACTIVE ACCOUNTS			
<i>Inactive Account Categories</i>	Average Demand from Historical Data AF per Service or Unit [1]	2013 <i>Inactive</i> Services or Units	Calculated <i>Inactive</i> Demand in AF
Agricultural Metered Irrigation	18.46	3	55
Commercial	1.97	3	6
Ditches	25.36	0	0
Mult-Family Residential (Units)	0.22	1	0
Recreational Turf Services	9.40	0	0
Single-Family Residential	0.40	81	32
Subtotal EASTERN <i>Inactive</i> Acre-Feet			93

EASTERN UNINSTALLED ACCOUNTS			
<i>Uninstalled Meter Categories</i>	Average Demand from Historical Data AF per Service or Unit [1]	2013 <i>Uninstalled</i> Services or Units	Calculated <i>Uninstalled</i> Demand in AF
Agricultural Metered Irrigation	18.46	0	0
Commercial	1.97	0	0
Single-Family Residential	0.40	0	0
Subtotal EASTERN <i>Uninstalled</i> Acre-Feet			0

Calculated Inactive and Uninstalled Acre-Feet		93
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EASTERN - LATENT DEMAND in Acre-Feet		93
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[1] Refer to Appendix Tables B and C for the historical data used to calculate the Average Unit Demands.

**TABLE 9
OTHER SYSTEM DEMAND
El Dorado Hills and Western / Eastern Supply Areas
In Acre-Feet**

OVERALL DISTRICT				
Overall System Firm Yield	Historical Real and Apparent Losses (13%) [1]	5-Year Average Other Authorized Uses [2]	5-Year Average Recycled System Supplement	Estimated Other System Demands
63,500	8,300	2,075	436	10,811
OVERALL - OTHER SYSTEM DEMAND in Acre-Feet				10,811

EL DORADO HILLS SUPPLY AREA				
El Dorado Hills Infrastructure Restricted Yield	Historical Real and Apparent Losses (13%) [1]	5-Year Average Other Authorized Uses [2]	5-Year Average Recycled System Supplement	Calculated Other System Demands
14,110	1,834	415	113	2,362
EL DORADO HILLS - OTHER SYSTEM DEMAND in Acre-Feet				2,362

WESTERN / EASTERN SUPPLY AREA				
Western / Eastern Supply Based Yield	Historical Real and Apparent Losses (13%) [1]	5-Year Average Other Authorized Uses [2]	5-Year Average Recycled System Supplement	Calculated Other System Demands
34,000	4,420	1,660	322	6,402
WESTERN / EASTERN - OTHER SYSTEM DEMAND in Acre-Feet				6,402

[1] The estimated real and apparent losses of 13% have been applied to the infrastructure and supply based yields for each supply area.

[2] The other authorized uses have been distributed between the Western/Eastern and El Dorado Hills supply areas.

**TABLE 10
STATUS OF COMMITMENTS
El Dorado Hills Supply Area**

EQUIVALENT DWELLING UNITS (EDUs)					
Type of Commitment	Zone	Original Commitments	EDUs Sold or Expired		Remainder of Commitments Zone 1 and/or 2 ^[1]
Considered in the Formation of AD3 Existing Dwelling Units - 2,563 New Dwelling Units - 10,980	1, 2	13,543	12,228		1,315
Buy-ins Allowed to AD3	2	568	568		0
Monte Vista Parcels	2	112	63		49
Advanced Funding Agreement	1, 2	1,000	710		290
	Zone	Total Potable Commitment	Current Potable commitment (AF)	Reduced per amendment (AF)	EDU commitment
Wetsel-Oviatt Agreement ^{[2] [3]}	2	1,737	1,494	373.5	485
	Zone	Original Commitments	EDUs Sold		EDU commitment
Carson Creek Agreement ^[4]	2	1,240	0		1,240
TOTAL EDU COMMITMENTS					3,379

EL DORADO HILLS COMMITMENTS in EDUs	3,379
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[1] Zone 2 is the El Dorado Hills Service Zone. Zone 1 is the Bass Lake Service Zone.

[2] This commitment is conditional upon certain augmentations to the District's water supply. With increases in supply to EDH, 1,494 AF of potable water has been assigned to this pool.

[3] Per Amendment 1 to the Wetsel-Oviatt Settlement Agreement, dated March 12, 2010, 75% of the water supply has been released through December 31, 2014.

[4] This agreement secured 1,240 dual-plumbed residential units for the Carson Creek property. The agreement was revised in 2014 to change

**TABLE 11
STATUS OF COMMITMENTS
Western / Eastern Supply Area**

COMMITMENTS - EQUIVALENT DWELLING UNITS (EDUs)					
Type of Commitment	Zone	Original Commitments		EDUs Sold	Remainder of Commitments
Bell Ranch Settlement Agreement	1	113		0	113
Sub-Total					113
	Zone	Original Commitment (AF)	Highest Amount Used (AF)	Remaining Commitment (AF)	Converted to EDUs
Apple Mountain Water Service Agreement	10	270	197	73	170
TOTAL COMMITMENTS in EDUs					283

WESTERN / EASTERN COMMITMENTS in EDUs					283
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**APPENDIX TABLE A
EL DORADO HILLS HISTORICAL TRENDS
EL DORADO HILLS SERVICE AREA**

User Category	Historical Unit Demands in Acre-Feet										Average ^[1]
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Unit Demand
Commercial	3.86	3.48	3.45	3.81	2.92	1.90	2.69	2.42	2.64	2.81	3.03
Multi-Family Residential (Units)	0.21	0.20	0.22	0.22	0.21	0.24	0.18	0.17	0.18	0.18	0.20
Recreational Turf Services	14.76	11.18	11.75	10.90	11.16	10.43	8.45	8.31	9.66	10.08	10.45
Single-Family Dual Potable	0.22	0.18	0.17	0.17	0.17	0.20	0.15	0.16	0.15	0.14	0.17
Single-Family Residential	0.80	0.74	0.78	0.83	0.83	0.78	0.61	0.59	0.67	0.70	0.74
Small Farm	---	---	1.27	3.81	4.63	3.17	3.93	3.25	3.71	2.37	3.27

[1] The average unit demands were developed for the 2014 Water Resources Report using years 2004 through 2013. Unit demands were estimated by excluding the historical maximum and minimum values and averaging the remaining values. The unit demand for the 2014 Report will be held constant and not recalculated each year in order to avoid large EDU changes caused by annual demand fluctuations. The unit demand will be recalculated for the 2017 report.

SERVICE ZONES WITHIN SERVICE AREA (Zone #):

El Dorado Hills (02)

APPENDIX TABLE B
WESTERN REGION HISTORICAL TRENDS
Western / Eastern Service Area

User Category	Historical Unit Demands in Acre-Feet										Average ^[1]
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Unit Demand
Agricultural Metered Irrigation	22.54	13.60	10.96	13.90	16.07	11.59	10.75	7.42	7.00	8.57	11.61
Commercial	1.70	1.60	1.70	1.64	1.42	1.46	1.38	1.32	1.39	1.40	1.50
Ditches	10.08	17.78	14.58	15.27	14.58	14.98	13.36	17.00	14.50	15.50	14.97
Multi-Family Residential Units	0.27	0.23	0.24	0.25	0.25	0.26	0.20	0.20	0.22	0.23	0.24
Recreational Turf Services	19.77	14.02	16.18	16.40	15.70	13.04	11.84	11.47	12.74	13.90	14.23
Single-Family Dual Potable	0.15	0.17	0.17	0.19	0.19	0.23	0.18	0.18	0.18	0.18	0.18
Single-Family Residential	0.66	0.58	0.63	0.65	0.66	0.60	0.47	0.43	0.49	0.50	0.57
Small Farm	4.64	3.38	4.12	3.55	3.85	3.11	3.05	3.18	2.94	2.54	3.40

[1] The average unit demands were developed for the 2014 Water Resources Report using years 2004 through 2013. Unit demands were estimated by excluding the historical maximum and minimum values and averaging the remaining values. The unit demand for the 2014 Report will be held constant and not recalculated each year in order to avoid large EDU changes caused by annual demand fluctuations. The unit demand will be recalculated for the 2017 report.

SERVICE ZONES WITHIN SERVICE AREA (Zone #):

Western Region

Bass Lake (01), Cameron Park (04), Shingle Springs (05), Logtown (06), Diamond Springs/El Dorado (07)

**APPENDIX TABLE C
EASTERN REGION HISTORICAL TRENDS
Western / Eastern Service Area**

User Category	Historical Unit Demands in Acre-Feet										Average ^[1]
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	Unit Demand
Agricultural Metered Irrigation	25.50	18.62	20.31	21.22	21.39	18.71	15.13	12.68	16.01	16.26	18.46
Commercial	2.40	2.45	2.27	2.46	2.38	2.00	1.44	1.26	1.34	1.50	1.97
Ditches	23.10	20.86	29.11	24.10	26.47	30.78	17.24	21.81	53.27	26.63	25.36
Multi-Family Residential Units	0.24	0.22	0.23	0.23	0.23	0.23	0.20	0.20	0.20	0.19	0.22
Municipal-City of Placerville	164.65	151.45	152.02	150.73	102.21	83.64	72.87	64.53	84.60	102.38	112.49
Recreational Turf Services	12.01	13.63	10.70	9.39	9.65	9.89	7.24	7.28	8.28	8.00	9.40
Single-Family Residential	0.47	0.41	0.44	0.45	0.45	0.41	0.32	0.29	0.33	0.35	0.40
Small Farm	4.54	3.49	4.02	4.71	3.77	2.63	2.44	2.12	2.85	2.93	3.33

[1] The average unit demands were developed for the 2014 Water Resources Report using years 2004 through 2013. Unit demands were estimated by excluding the historical maximum and minimum values and averaging the remaining values. The unit demand for the 2014 Report will be held constant and not recalculated each year in order to avoid large EDU changes caused by annual demand fluctuations. The unit demand will be recalculated for the 2017 report.

SERVICE ZONES WITHIN SERVICE AREA (Zone #):

Eastern Region

Lotus/Coloma (03), Swansboro (09), Camino (10), Pleasant Valley (11), Sly Park (12), Pollock Pines (13), North Placerville (18), and South Placerville (28)

Water Resources and Service Reliability Report

January 26, 2015



Previous Board Actions

- The Board annually reviews and receives updates to the Water Resources and Services Reliability Report
- August 25, 2014 – The Board continued the item to January 2015

Board Policies and Administrative Regulations

- Board Policy 5010 – Water Supply Management states that the District will not issue any new water meters if there is insufficient water supply
- Administrative Regulation 5010 – Water Availability and Commitments outlines the responsibilities for annual reporting, shortages, and new meter restrictions.

Summary of Issue

- Data for the 2014 Report presented in August 2014
 - Options for calculating unit demand and resulting meter availability
- District recently secured 5-year Warren Act Contract for 8,500 AF
- Staff made additional revisions to address:
 - New water supply
 - Lowered unit demands and 20% \times 2020 compliance

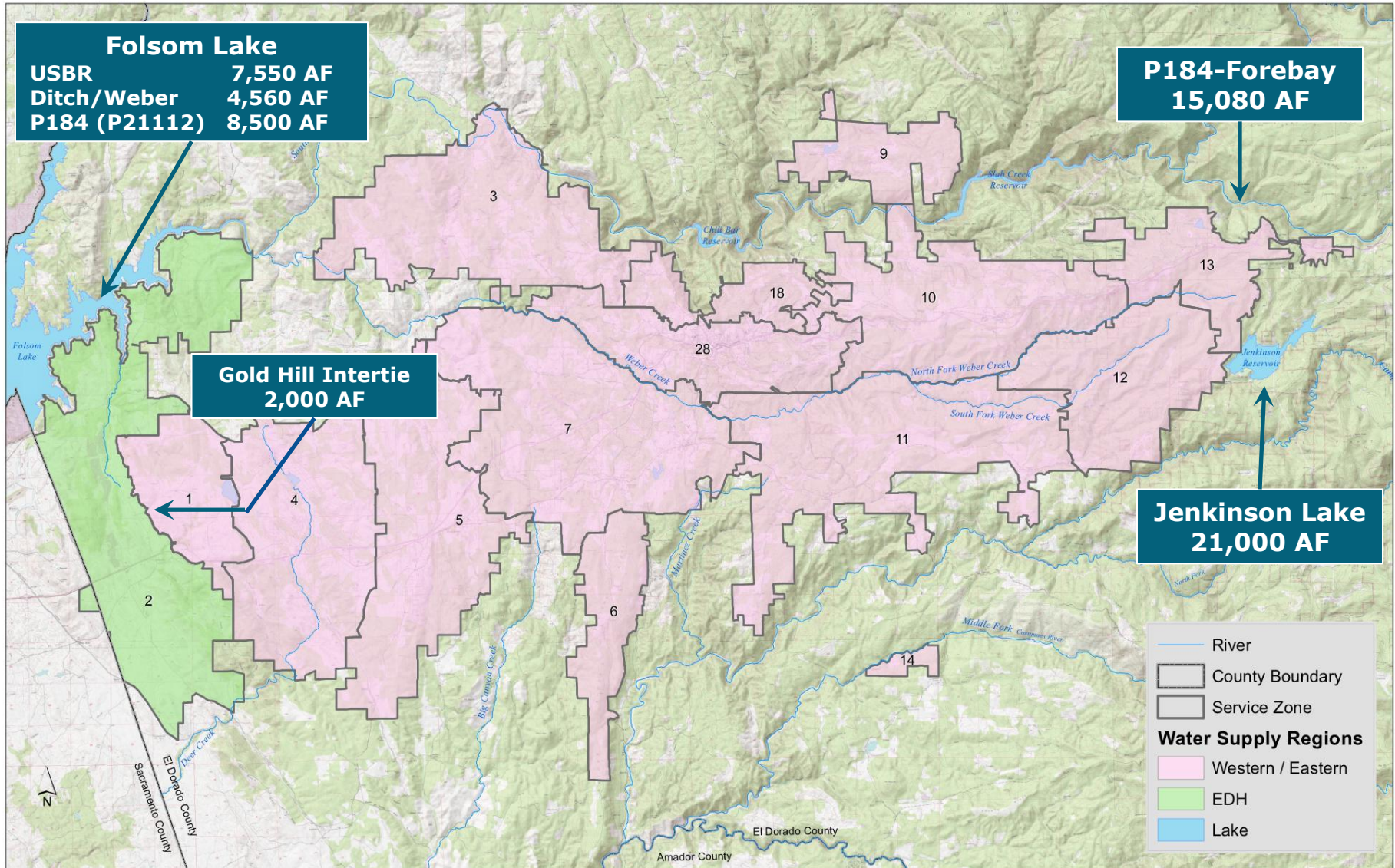
System Firm Yield

- Firm Yield is the annual demand the integrated system can supply 95% of the time with shortages in the remaining 5% of the time
 - Forebay – 15,080 AF
 - Jenkinson Lake – 21,000 AF
 - USBR Contract – 7,550 AF
 - Ditch/Weber – 4,560 AF
 - Permit 21112 – 17,000 AF
- System firm yield = 63,500 AF
 - Represents potential to deliver as infrastructure and contracts are completed

Water Resources Report

- Meter availability in the annual Report restricted by local water supply or infrastructure limitations
- EDHWTP capacity used in previous reports
- With new 8,500 AF Warren Act contract, Folsom water supply reliability greatly enhanced
- Return to water supply and demand analysis
 - Address infrastructure in planning documents, CIP and development approval process

Water Sources



El Dorado Hills supply

- USBR Water Service Contract: 7,550 AF
- Ditch/Weber Reservoir: 4,560 AF
- 12,110 AF
- These sources subject to cutbacks in dry years
- P21112 Warren Act Contract
 - 8,500 AF available any year to backfill the reduced dry year supplies
- At least 12,110 AF available every year

El Dorado Hills supply

- USBR Water Service Contract: 7,550 AF
- Ditch/Weber Reservoir: 4,560 AF
 - Folsom supply 12,110 AF
- Gold Hill Intertie: 2,000 AF
 - Total supply 14,110 AF

Western/Eastern Supply

• P184 at Forebay:	15,080 AF
• Jenkinson Lake:	<u>21,000 AF</u>
	36,000 AF
• Reduction for GHI to EDH:	<u>- 2,000 AF</u>
Total supply	34,000 AF

Unit Demand

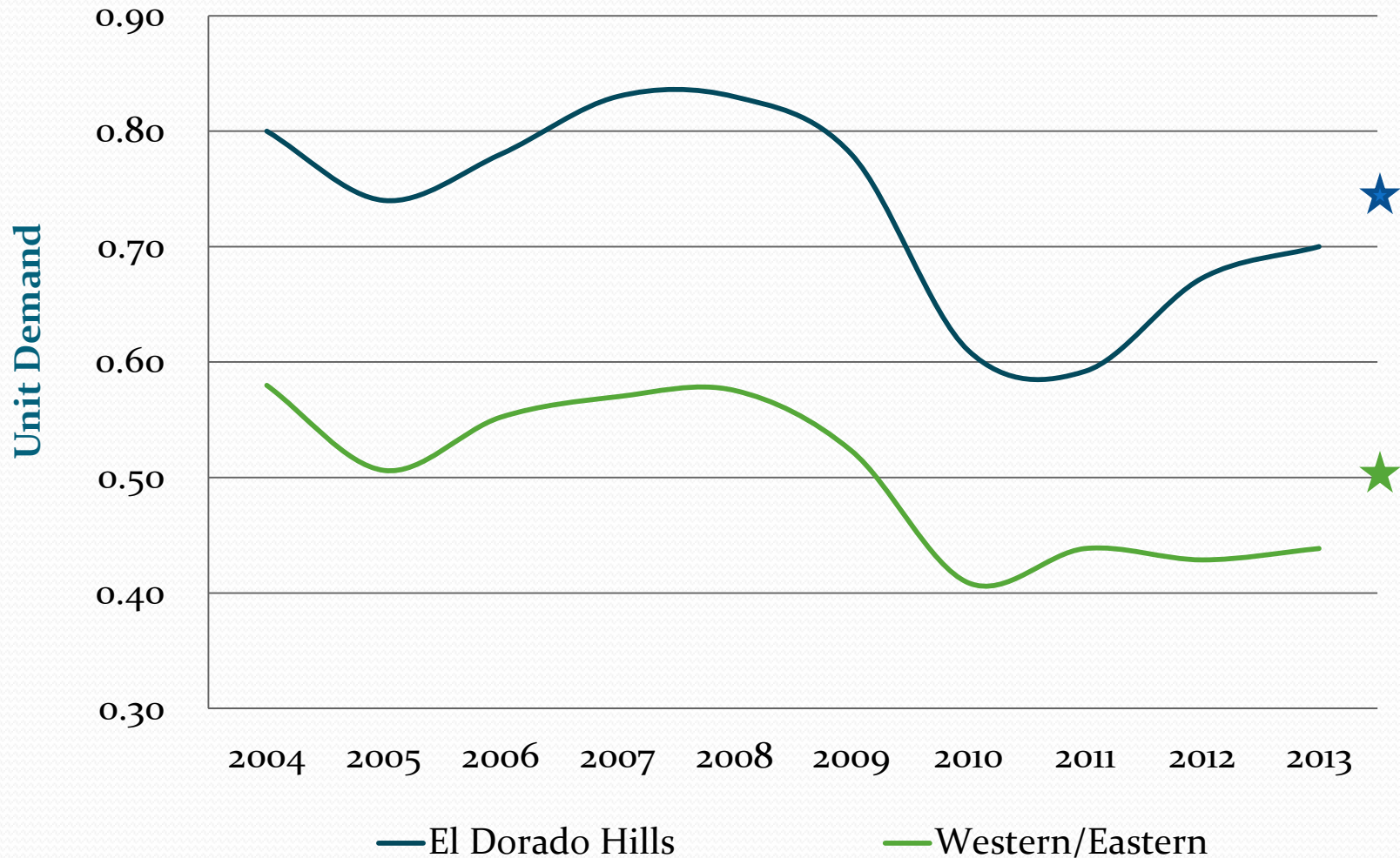
- Calculated using 10-year average minus high and low
- Used to determine meter availability
- 2001-2010 average used for last three years
- 2004-2013 average
 - Results in lower unit demands and increased meter availability
 - Differences in methodology, but generally consistent with 20% \times 2020 conservation goals

Single Family Residential Average Unit Demand

Supply Area	AF per EDU	GPCD
El Dorado Hills	0.74	254 gpcd
Western/Eastern	0.50	172 gpcd

District-wide 2020 Conservation Goal = 225 gpcd

Single Family Residential Unit Demand



Potential Demand

- Active demand
 - Meters installed and billed
- Latent demand
 - Inactive and uninstalled meters
- Other system demands
 - Water loss, operational uses, recycled water supplementation
- Greater than actual due to conservative assumptions
- Mimics full usage by all customers

Total Potential Demand

Demand Type	El Dorado Hills Supply Area (AF)	Western/Eastern Supply Area (AF)
Active Demand	8,208	24,743
Latent Demand	319	134
Other System Demand	2,362	6,402
Total Potential Demand	10,889	31,279

Unallocated Water Supply

	EDH Supply Area (AF)	Western/Eastern Supply Area (AF)
Available Supply	14,110	34,000
Total Potential Demand	10,889	31,279
Unallocated Water Supply	3,221	2,721

2014 Water Meter Availability

El Dorado Hills Supply Area	Western/Eastern Supply Area
Unallocated Water Supply 3,221 AF	Unallocated Water Supply 2,721 AF
Residential Unit Demand 0.74 AF/EDU	Residential Unit Demand 0.50 AF/EDU
Water Meter Availability 4,352 EDUs	Water Meter Availability 5,442 EDUs

Report purpose

- Determine today's meter availability based on current supply and demand
- Not a planning document to address future supply needs
- Long term supply and infrastructure needs addressed in:
 - Integrated Water Master Plan
 - Urban Water Management Plan
 - Water Supply Assessments
- All indicate additional supply needed, beyond what is represented in this report, to meet future demand as approved by the County

Next step

- Prepare 2015 Report for Board consideration this spring



Questions/Comments

EL DORADO IRRIGATION DISTRICT

SUBJECT: Introduction to Water Transfers and District Opportunities.

Previous Board Actions:

- April 28, 2014 – General Counsel provided an introduction to water rights, and the District’s water rights portfolio to the Board.
- January 12, 2015 – the Board adopted Resolution 2015-001, approving Warren Act Contract 15-WC-20-4654.

Board Policy (BP), Administrative Regulations (AR), and Board Authority:

BP 0010 states that the District is dedicated to providing high quality water, wastewater treatment, recycled water, hydropower, and recreation service in an environmentally and fiscally responsible manner.

BP 2030 states that the General Counsel shall be responsible for ensuring full compliance with applicable laws and regulations in all District activities.

BP 5010 states that “The Board is committed to provide a water supply based on the principles of reliability, high quality, and affordability in a cost-effective manner with accountability to the public.”

Summary of Issues:

On January 12, 2015, the Board approved a five-year Warren Act Contract with the U.S. Bureau of Reclamation that will allow the District to divert up to 8,500 acre-feet of Project 184 water, not previously available to the District, from Folsom Reservoir for consumptive use. This new water supply adds significantly to the District’s overall water supply portfolio, and particularly to the amount of water available to serve the District’s customers in El Dorado Hills. With this new contract, the District will have up to 20,610 acre-feet per year of water supplies presently available only at Folsom Reservoir – considerably more than the past maximum demands of our El Dorado Hills customers.

This situation presents the District with an opportunity to market water supplies that are currently surplus to the District’s present needs on a temporary basis until such supplies are needed to meet District customer demands. Such water marketing could provide welcome non-rate revenue to the District. This presentation is an introduction to the laws relating to the temporary transfer of water rights in California, and an overview of the water-marketing opportunities now open to the District.

Staff Analysis/Evaluation:

A. Overview

- a. Appropriative rights are transferable
- b. State policy favors water transfers
 - i. Favored in theory, challenging in practice
- c. “No Injury” Rule – transfer must not injure any legal user of subject water
 - i. Rule applies to both senior and junior water rights
 - ii. Permitted/licensed rights – SWRCB determination
 - iii. Pre-1914 rights – rule enforced through the courts
- d. Transfers must involve “wet water,” not “paper water”
 - i. A corollary of the “no injury” rule
 - ii. Kinds of transfers, i.e. groundwater substitution, releases from storage, etc.
- e. Transfers using others’ facilities require their approval
- f. Public agency transfers require compliance with CEQA, other environmental laws
 - i. CEQA exemption for one-year transfers of post-1914 rights
- g. Transfers involving permitted or licensed rights must demonstrate no unreasonable affects to fish or wildlife
 - i. DFG determination
- h. Third-party impacts often hinder transfers

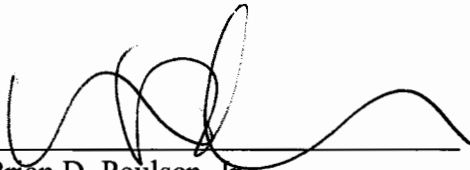
B. Potential Opportunities

- a. Immediate opportunity: Short-term transfers of surplus Folsom supplies
 - i. Project 184 Warren Act Contract creates excess supplies
 - 1. P.L. 101-514 (Fazio) water would, also
 - ii. Total Folsom-only supplies: up to 20,610 af
 - 1. 2014: about 5,750 af from existing supplies, plus 8,500 af if Project 184 Warren Act Contract had been in place = 14,250 af
 - iii. Average EDH demands since 2007: 6,750 af
 - 1. 2014 demands: <6,000 af
 - 2. Gold Hill Intertie meets some demands in all years
 - iv. 5,000 – 10,0000 acre-feet available for short-term transfer, depending on wetness of year, while fully supplying existing EID customer demands
 - v. Bureau of Reclamation cooperation and approval needed
 - vi. DWR cooperation and approval needed for through-Delta transfers

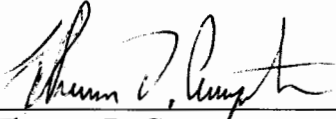
- vii. Potentially welcome source of one-time/short-term, non-rate revenues
 - 1. Potential uses: capital replacement, debt/liability reduction
- b. Longer-term opportunity: Groundwater banking via transfers/exchanges
 - i. Surface water transfers to Sacramento region aquifers
 - ii. Exchange for other agencies' Folsom supplies in dry years
 - iii. Could provide revenue and/or "firm up" yield of EID's water portfolio
 - iv. EDWPA water rights application adopts this concept

Board Decisions/Options:

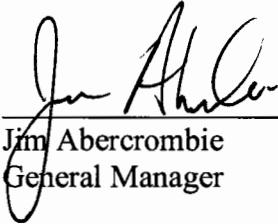
None. Informational Only



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INTRODUCTION TO WATER
TRANSFERS
AND DISTRICT
OPPORTUNITIES

EL DORADO IRRIGATION DISTRICT

JANUARY 26, 2015

PRESENTATION SUMMARY

- Brief review of law of appropriative water rights
- Brief review of EID's water rights portfolio
- Overview of the law related to water transfers
- Potential opportunities for EID to transfer water

BRIEF REVIEW OF THE LAW OF APPROPRIATIVE WATER RIGHTS

- Attributes
 - Established by beneficial use
 - Subject to priority
 - Subject to loss for non-use, waste, or unreasonable use
 - Transferable
- Modern appropriations
 - Water Commission Act of 1914
 - Procedures/requirements
 - State-filed water rights applications

BRIEF REVIEW OF EID'S WATER RIGHTS PORTFOLIO

CONSUMPTIVE WATER RIGHTS RELATED TO PROJECT 184

- Pre-1914 consumptive rights of 15,080 afa
- Permit 21112 – 17,000 afa
 - 1927 priority date
 - Point of diversion is Folsom Reservoir
 - Warren Act Contract allows District to use 8,500 afa for the next five years

OTHER CONSUMPTIVE WATER RIGHTS

- Sly Park Reservoir – 41,033 afa
 - Annual yield 21,000 afa
- Ditch/Weber Rights – 4,560 afa
 - 3,000 afa or less in dry years
- CVP Water Service Contract – 7,550 afa
 - Subject to Municipal Shortage Policy
- Future Water Rights
 - Fazio Water – 7,500 afa
 - SMUD-El Dorado – up to 40,000 afa

Consumptive Water Rights in Folsom Reservoir Available for El Dorado Hills

- 2014 contractual supply: 12,110 acre-feet
 - 7,550 acre-feet CVP Contract
 - 4,560 acre-feet Ditch/Weber Warren Act Contract
- 2014 actual supply: \approx 5,800 acre-feet
 - \approx 3,500 acre-feet CVP Contract
 - \approx 2,300 acre-feet Ditch/Weber Warren Act Contract

Consumptive Water Rights in Folsom Reservoir Available for El Dorado Hills

- Project 184 Warren Act Contract adds 8,500 afa for the next five years
- 2015 total available supply for El Dorado Hills:
 - Average water year: up to 20,610 acre-feet
 - Dry water year: $\geq 14,300$ acre-feet

Supply Available for El Dorado Hills Exceeds Demand

- Average demand in El Dorado Hills service area since 2007 is approximately 6,750 afa
- Demand in 2014 was approximately 6,000
- Surplus water for El Dorado Hills
- No ability to serve remainder of District with these supplies
- Plan to seek State approval to add diversion points for Permit 21112 water to Kyburz and White Rock

Surplus Benefits

- Surplus benefits all customers
 - Reduces EDH demands on Jenkinson Lake
 - Therefore, increased Jenkinson Lake capacity for District's Eastern, Western service areas
 - Surplus Folsom supplies available for marketing: non-rate revenue benefits entire District
- Surplus supplies not used or marketed will be lost to other users

Overview of Water Transfers

- Transfer = voluntary sale of the right to use water from one user to another
- Water Code § 109 – Directs state agencies to encourage voluntary water transfers
- Multiple statutes provide legal protections for transfers
 - Water Code §§ 470-480, 1011, 1014, 1015, 1016, 1017, 1018, 1729, 1810
- Irrigation District Law authorizes transfers of surplus water (Water Code §§ 22259, 22228)

Overview of Water Transfers

- Types of transfers:
 - Surface water
 - Contract supply
 - Permitted or licensed supply
 - Pre-1914 water rights
 - Groundwater
 - In lieu of surface water
 - Banked groundwater
 - Direct transfer of groundwater

Overview of Water Transfers

- Types of transfers cont.
 - Transfers can be temporary or permanent
 - Transfers can be short-term (one-year or less) or long-term (more than one year)
 - Transferable water normally made available through:
 - Cropland idling and crop shifting (conservation)
 - Groundwater or other supply substitution
 - Reservoir storage releases

Overview of Water Transfers

- All transfers subject to the “No Injury” Rule:
 - Short-term transfers must not injure any legal user of water, whether senior or junior in priority
 - Water Code §§ 1435(b)(2), 1702, 1706, 1725; Cal. Code Regs., tit. 23, §791(a).
 - Long-term transfers must not result in “substantial injury” to any legal user of water
 - Water Code § 1736.
 - Rule applies both to permitted/licensed and pre-1914 rights
 - Water Code §§ 1702, 1706

Overview of Water Transfers

- Transfers must involve “wet water,” not just “paper water”
 - Water rights perfected through beneficial use
 - Until perfected, rights are inchoate, because title has not vested
 - Unperfected rights are “paper water”

Overview of Water Transfers

- Use of others' facilities requires permission
 - Ex: Delivering water to Folsom Reservoir for transfer to another entity requires a temporary Warren Act Contract
 - Ex: Moving water through the Delta requires a conveyance agreement
 - Jones Pumping Plant (DWR) or Banks Pumping Plant (USBR)

Overview of Water Transfers

- Compliance with CEQA
 - Transfers of pre-1914 rights are subject to CEQA
 - Short term transfers of permitted/licensed water are CEQA-exempt (Water Code § 1729)
 - But still must demonstrate “no unreasonable impacts” to fish or wildlife resources (Water Code §§ 1435, 1725)

Overview of Water Transfers

- If USBR is involved, it must comply with the National Environmental Policy Act (NEPA)
- To ensure releases of stored water meet “no injury” rule for downstream reservoirs, normally must negotiate a re-fill agreement

Overview of Water Transfers

- Statutory Protections for water transfers:
- Water put to beneficial use through a transfer not subject to forfeiture. Water Code §§ 1014, 1017.
- “At the conclusion of the term of a water transfer agreement, all rights in, and the use of, the water subject to the agreement revert back to the transferor.” Water Code § 1016(a).

Overview of Water Transfers

- Transfers can be a significant source of one-time non-rate revenue
- Ex: In 2014, In-Basin transfers of CVP water from one CVP contractor to another at \$325 per acre-foot, with buyer reimbursing seller for administrative expenses, CEQA costs, and litigation expenses.
- 1,000 acre-feet at \$325 = \$325,000

Overview of Water Transfers

- Process for short-term transfers:
 - Identify surplus water
 - Negotiate purchase and sale agreement
 - Since water will be delivered to Folsom Reservoir, buyer negotiates a Warren Act Contract with USBR
 - If involving a permitted or licensed water right, seller petitions the SWRCB for temporary changes to right
 - Must demonstrate no unreasonable harm to fish or wildlife
 - If involving pre-1914 rights, seller complies with CEQA
 - If involving stored water, seller negotiates a re-fill agreement with USBR
 - If Delta conveyance involved, buyer negotiates conveyance agreement with DWR and/or USBR

Potential Immediate Opportunities

- Project 184 Warren Act Contract adds 8,500 afa to supply available in El Dorado Hills for the next five years, bringing the total available supply for El Dorado Hills 20,610.
- With average demand at approximately 6,750 afa, the District will have a surplus of up to 13,860 acre-feet in an average year.
- Even in dry years, the District could have a surplus of up to XXX
- In 2014 (a drought year), a transfer of 6,000 acre-feet, (using the reported 2014 amount of \$325 per acre-foot), would have equaled \$1.95 million

Potential Future Opportunities

- District staff will continue to work on obtaining a Warren Act Contract to use the remaining 8,500 acre-feet under the District's Permit 21112 and add additional points of diversion (Kyburz and White Rock) to such supplies.
- P.L. 101-514 (Fazio) water will provide the District with another 7,500 acre-feet
- SMUD-El Dorado water will provide up to 40,000 acre-feet

Conclusion

- With the approval of the Project 184 Warren Act Contract, the District has surplus supplies available only to its El Dorado Hills service area
- If the District does not use these supplies, they will be lost.
- The District has an opportunity to transfer some of this water, which could generate significant one-time temporary non-rate revenue.